

**REDACTED**

## Data Validation Checklist Inorganic Analyses

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA  
 Method: SW-846 6010C and 7471B, and EPA 200.7 and 245.1  
 Matrix: Soil and Water  
 Reviewer: Karen Marie Trujillo, URS Group, Inc.  
 Concurrence<sup>1</sup>: Jenine Abbassi/Martha Meyers-Lee, URS Group, Inc.

Project No: 15268508.20000  
 Job ID.: 680-90622-3  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date Collected: 05/20/2013 and 05/21/13  
 Date: 06/17/13  
 Date: 06/18/13

| Review Questions   | Yes | No | N/A | Samples (Analytes) Affected/Comments  | Flag |
|--|-----|----|-----|---|------|
| 1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results.  | ✓   |    |     |   |      |
| 2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?   | ✓   |    |     |   |      |
| 3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?  |     | ✓  |     | There was a discrepancy between bottle labels and the Chain-of-Custody record concerning Sample IDs. The sample IDs that were recorded on the bottle labels were entered into LIMS at the request of the client.                                  |      |
| 4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.  |     | ✓  |     |   |      |
| 5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months). If not, then J- flag positive results and R- flag non-detect aqueous results. |     | ✓  |     |   |      |
| 6. Were results for all project-specified target analytes reported?  | ✓   |    |     |   |      |
| 7. Were project-specified Reporting Limits achieved for undiluted sample analyses?   |     | ✓  |     | The MDL (0.59 mg/Kg) for arsenic is greater than the Resident Soil RSL (0.39 mg/Kg). A RSL does not exist for total chromium; however, the total chromium MDL (0.5 mg/Kg) is greater than the hexavalent chromium Resident Soil RSL (0.29 mg/Kg). |      |
| 8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?  | ✓   |    |     |   |      |
| 9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10 <sup>th</sup> sample, and at the end of each analytical run?  | ✓   |    |     |   |      |

<sup>1</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

| Review Questions   | Yes | No | N/A | Samples (Analytes) Affected/Comments  | Flag |
|--|-----|----|-----|---|------|
| 10. Were target analytes detected in the method and/or calibration blanks?   |     | ✓  |     | Target analytes were not detected in the method blanks. Calibration blanks were not evaluated.  |      |
| 11. Were target analytes reported in equipment/rinsate blanks analyses above the DL?   |     | ✓  |     | According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. Rinsate blank, 052113-RB-Shovel (680-90622-15) was collected during the week of 5/20/2013. Target analytes were not detected during the EPA Methods 200.7 and 245.1 analyses of the rinsate blank, and all results were reported under this Test America Job ID. |      |
| 12. Were contaminants detected in samples below the blank contamination action level?<br><ul style="list-style-type: none"> <li>○ If blank result &gt; RL, <ul style="list-style-type: none"> <li>• Flag sample results <math>\leq</math> RL with a U</li> <li>• Flag positive sample results &gt; RL and <math>\leq</math>10x blank result , as J+ positive results</li> </ul> </li> <li>○ If blank result <math>\leq</math>RL, <ul style="list-style-type: none"> <li>• Flag sample results <math>\leq</math> RL with a U</li> <li>• Flag positive sample results &gt; RL and &lt;10x blank result , as J+ positive results</li> </ul> </li> </ul> |     |    | ✓   | Method and rinsate blank contamination does not exist.  |      |
| 13. Are there negative laboratory blank results with the absolute value $\leq$ RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.  |     | ✓  |     |   |      |
| 14. Was a field duplicate analyzed?  | ✓   |    |     | <ul style="list-style-type: none"> <li>• CV1358A-CSD (680-90622-21) is a duplicate of CV1358A-CS (680-90622-20).</li> <li>• CV1358A-CSD (sieve) (680-90622-43) is a duplicate of CV1358A-CS (sieve) (680-90622-42).</li> </ul>  |      |
| 15. Was precision deemed acceptable as defined by the project plans?   | ✓   |    |     | Refer to <b>Attachment B</b> (Field Duplicate Evaluation)   |      |
| 16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument?<br><ul style="list-style-type: none"> <li>○ 6010C: <ul style="list-style-type: none"> <li>• ICAL: Blank and one standard</li> <li>• ICV initially, and CCV every 10<sup>th</sup> sample and at the end of the analytical run</li> <li>• Lower Limit of Quantitation Check Sample (CRI) to be analyzed after establishing lower laboratory reporting limits</li> </ul> </li> </ul>   | ✓   |    |     | <ul style="list-style-type: none"> <li>• 200.7: 05/28/2013-05/29/2013, instrument ICPE. One blank and one standard initially per analytical batch. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</li> <li>• 245.1: 05/30/2013-05/31/2013, instrument LEEMAN2. 6-Point ICAL per analytical</li> </ul>   |      |

**Data Validation Checklist (Continued)**

| Review Questions  | Yes | No | N/A | Samples (Analytes) Affected/Comments   | Flag |
|---|-----|----|-----|--|------|
| <p>and as needed</p> <ul style="list-style-type: none"> <li>○ 7471A:                             <ul style="list-style-type: none"> <li>● ICAL: Blank and five standards</li> <li>● ICV initially, and CCV every 10<sup>th</sup> sample and at the end of the analytical run</li> </ul> </li> <li>○ 7196A:                             <ul style="list-style-type: none"> <li>● ICAL: Blank and minimum of five standards</li> <li>● ICV initially, and CCV every 10<sup>th</sup> sample (15<sup>th</sup> per Method) and at the end of the analytical run</li> </ul> </li> </ul>   |     |    |     | <p>batch. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</p> <ul style="list-style-type: none"> <li>● 6010C: 05/30/2013-05/31/2013, instrument ICPE. One blank and one standard initially per analytical batch. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</li> <li>● 7471B: 05/30/2013 &amp; 05/31/2013, instrument LEEMAN2. 6-Point ICAL per analytical batch. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</li> </ul> |      |
| <p>17. Were these results within lab/project specifications?</p> <ul style="list-style-type: none"> <li>○ 6010C                             <ul style="list-style-type: none"> <li>● ICV/CCV (Criteria: 90-110%R):                                     <ul style="list-style-type: none"> <li>▪ If %R &lt;75, then J- flag positive results and R-flag non-detects</li> <li>▪ If 75-89%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 111-125%R, then J flag positive results</li> <li>▪ If &gt;125%R, then J+ flag positive results</li> <li>▪ If &gt;160%R, then R flag positive results</li> </ul> </li> <li>● CRI (Method: 70-130%R, Laboratory: 50-150%R; Project: 50-150%R for Sb, Pb, and Tl, and 70-130%R for all other analytes):                                     <ul style="list-style-type: none"> <li>▪ If CRI %R &lt;50 (&lt;30% for Sb, Pb, Tl), then R flag results ≤ 2x RL and J flag positive results &gt;2x RL</li> <li>▪ If CRI %R 50-69% (30-49% for Sb, Pb, Tl), then J- and UJ flag positive results &lt;2x RL and ND, respectively</li> <li>▪ If CRI %R &gt;130% and ≤180% (&gt;150%, but ≤200% for Sb, Pb, Tl), then J+ flag positive results &lt;2x RL</li> <li>▪ If CRI %R &gt;180% (&gt;200% for Sb, Pb, Tl), then R flag positive results</li> </ul> </li> </ul> </li> <li>○ 7471A                             <ul style="list-style-type: none"> <li>● ICV/CCV (Criteria: 80-120%R):                                     <ul style="list-style-type: none"> <li>▪ If correlation coefficients &lt;0.995, then J and UJ flag positive and non-detect results.</li> <li>▪ If %R &lt;65, then J- flag positive results and R-flag non-detects</li> <li>▪ If 65-79%R, then J- flag positive results and UJ flag non-detects</li> </ul> </li> </ul> </li> </ul> | ✓   |    |     | <p>Mercury correlation coefficient:</p> <ul style="list-style-type: none"> <li>● 245.1: ICAL of 05/30/2013 is 0.9997395 (page 481)</li> <li>● 7471B:                             <ul style="list-style-type: none"> <li>○ ICAL of 05/30/2013 is 0.9999760 (page 485)</li> <li>○ ICAL of 05/31/2013 is 0.9999672 (page 487)</li> </ul> </li> </ul>  |      |

**Data Validation Checklist (Continued)**

| Review Questions   | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|--|-----|----|-----|--------------------------------------|------|
| <ul style="list-style-type: none"> <li>▪ If 121-135%R, then J flag positive results</li> <li>▪ If &gt;135%R, then J+ flag positive results</li> <li>▪ If &gt;170%R, then R flag positive results</li> <li>• CRI (Method: Not required, Laboratory: 50-150%R, Project: 70-130%R):               <ul style="list-style-type: none"> <li>▪ If CRI %R &lt;50, then R flag results ≤ 2x RL and J flag positive results &gt;2x RL</li> <li>▪ If CRI %R 50-69%, then J- and UJ flag positive results &lt;2x RL and ND, respectively</li> <li>▪ If CRI %R &gt;130% and ≤180%, then J+ flag positive results &lt;2x RL</li> <li>▪ If CRI %R &gt;180%, then R flag positive result</li> </ul> </li> <li>○ 7196A:               <ul style="list-style-type: none"> <li>• ICV/CCV (Criteria: 90-110%R):                   <ul style="list-style-type: none"> <li>▪ If correlation coefficients &lt;0.995, then J and UJ flag positive and non-detect results.</li> <li>▪ If %R &lt;65, then J- flag positive results and R-flag non-detects</li> <li>▪ If 65-90%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 110-135%R, then J flag positive results</li> <li>▪ If &gt;135%R, then J+ flag positive results</li> <li>▪ If &gt;170%R, then R flag positive results</li> </ul> </li> </ul> </li> </ul> |     |    |     |                                      |      |
| <p>18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?</p>   | ✓   |    |     |                                      |      |
| <p>19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level:</p> <ul style="list-style-type: none"> <li>○ If &gt;120%R (or &gt;&gt;true value plus 2x CRQL), J+ flag positive results</li> <li>○ If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects</li> <li>○ If &lt;50%R, J- flag positive results and R-flag non-detects</li> </ul>   | ✓   |    |     |                                      |      |
| <p>20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?</p>  | ✓   |    |     |                                      |      |
| <p>21. Did LCS recoveries meet method/laboratory/project (80-120%R) specifications?</p> <ul style="list-style-type: none"> <li>○ Soil:           <ul style="list-style-type: none"> <li>• LCS result &gt; Upper control limit (UCL): J+ flag positive results</li> <li>• LCS result &lt; Lower control limit (LCL): J- flag positive results and UJ flag non-detects</li> </ul> </li> </ul>  | ✓   |    |     |                                      |      |

## Data Validation Checklist (Continued)

| Review Questions   | Yes | No | N/A | Samples (Analytes) Affected/Comments  | Flag |
|--|-----|----|-----|---|------|
| <ul style="list-style-type: none"> <li>○ Aqueous: <ul style="list-style-type: none"> <li>• If &lt;50%R, then J- and R flag positive and ND results, respectively</li> <li>• If 50-LCL%R, J- and UJ flag positive and ND results, respectively</li> <li>• &gt;UCL: J+ Flag positive results</li> <li>• &gt;150%R: R Flag results</li> </ul> </li> </ul> |     |    |     |   |      |
| 22. Was the RPD between LCS and LCSD results within method/laboratory /project control limits ( $\leq 20\%$ RPD)? If not, J and UJ flag positive and non-detect results, respectively.   | ✓   |    |     | LCSD for 245.1 only   |      |
| 23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?  | ✓   |    |     |   |      |
| 24. Is the MS and MSD parent sample a project-specific sample?   | ✓   | ✓  |     | <ul style="list-style-type: none"> <li>• 200.7, Prep Batch 278125: 680-90622-15 (052113-RB-Shovel), MS/MSD</li> <li>• 245.1, Prep Batch 278298: 680-90557-1 (Batch Sample), MS/MSD</li> <li>• 6010C: <ul style="list-style-type: none"> <li>○ Prep Batch 278184: 680-90622-13 (CV0626B-CS), MS/MSD</li> <li>○ Prep Batch 278504: 680-90622-30 (CV0828B-CS-SP), MS/MSD</li> </ul> </li> <li>• 7471B: <ul style="list-style-type: none"> <li>○ Prep Batch 278204: 680-90622-13 (CV0626B-CS), MS/MSD</li> <li>○ Prep Batch 278555: 680-90622-30 (CV0828B-CS-SP), MS/MSD</li> </ul> </li> </ul> |      |
| 25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver)?   | ✓   |    |     | <ul style="list-style-type: none"> <li>• 200.7: 680-90622-15 (052113-RB-Shovel), although not required, since the MS and MSD results met control limits.</li> <li>• 6010C: <ul style="list-style-type: none"> <li>○ 680-90622-13 (CV0626B-CS)</li> <li>○ 680-90622-30 (CV0828B-CS-SP)</li> </ul> </li> </ul>  |      |
| 26. For all analytes with sample concentration $< 4 \times$ spike concentration, are spike recoveries within method (6010C: 75-125%R MS/MSD and 80-120%R PDS; 7471B: 80-120%R MS/MSD and PDS not required), laboratory (MS, MSD, and PDS: 75-125%R), and project (as noted below) specifications?  |     | ✓  |     | CV0626B-CS (680-90622-13): <ul style="list-style-type: none"> <li>• 6010C: <ul style="list-style-type: none"> <li>○ Barium @ 471 and 355 %R (75-125). An evaluation of interference is not possible based on MS and MSD results<sup>2</sup>. PDS</li> </ul> </li> </ul>   | J    |

<sup>2</sup> The native sample concentration is greater than 4x the MS/MSD spiking level. In addition, the native lead sample concentration is greater than 4x the PDS spiking level.

Data Validation Checklist (Continued)

| Review Questions   | Yes | No | N/A | Samples (Analytes) Affected/Comments   | Flag |
|--|-----|----|-----|--|------|
| <p><i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <p>If not,</p> <ul style="list-style-type: none"> <li>○ 6010C:                             <ul style="list-style-type: none"> <li>● If MS %R &lt;30 and PDS %R &lt;75, then J- and R Flag positive and ND results, respectively</li> <li>● If MS %R &lt;30 and PDS %R &gt;75, then J flag positive and UJ flag non-detect results</li> <li>● If MS and MSD %R 30-74 and PDS%R &lt;75, then J- flag positive and UJ flag non-detect results</li> <li>● If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results</li> <li>● If MS, MSD, and PDS %R &gt;125, J+ flag positive results</li> <li>● If MS and MSD %R &gt;125 and PDS %R ≤125, then J flag positive results</li> <li>● If MS and MSD %R &lt;30 and no PDS, then J- flag positive and R-flag non-detect results</li> <li>● If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively</li> <li>● If MS and MSD %R &gt;125 and no PDS, then J+ flag positive results</li> </ul> </li> <li>○ 7471B:                             <ul style="list-style-type: none"> <li>● If MS %R &lt;30, then J- and R Flag positive and ND results, respectively</li> <li>● If MS and MSD %R 30-74, then J- flag positive and UJ flag non-detect results</li> <li>● If MS and MSD %R &gt;125, then J+ flag positive results</li> </ul> </li> </ul> |     |    |     | <p>recovery (96%) fell within control limits (75-125).</p> <ul style="list-style-type: none"> <li>○ Lead @ 739 and 355 %R (75-125). PDS recovery (90%) fell within control limits (75-125). An evaluation of interference is not possible based on MS, MSD, and PDS results<sup>2</sup>.</li> <li>● 7471B: Mercury @ 50 and 33 %R (80-120). J Flag</li> </ul> <p>CV0828B-CS-SP (680-90622-30):</p> <ul style="list-style-type: none"> <li>● 6010C:                             <ul style="list-style-type: none"> <li>○ Arsenic @ 106 and 167%R (75-125). Qualification of data not required based on MS and MSD results<sup>3</sup>. PDS recovery (108%) fell within control limits (75-125).</li> <li>○ Barium @ 497 and 4181 %R (75-125). An evaluation of interference is not possible based on MS and MSD results<sup>2</sup>. PDS recovery (92%) fell within control limits (75-125).</li> <li>○ Cadmium @ 195 and 96 %R (75-125). Qualification of data not required based on MS and MSD results<sup>3</sup>. PDS recovery (94%) fell within control limits (75-125).</li> <li>○ Chromium @ 131 and 225 %R (75-125). An evaluation of interference is not possible based on MS and MSD results<sup>2</sup>. PDS recovery (94%) fell within control limits (75-125).</li> <li>○ Lead @ 1047 and 634 %R (75-125). PDS recovery (87%) fell within control limits (75-125). An evaluation of interference is not possible based on MS, MSD, and PDS results<sup>3</sup>.</li> </ul> </li> <li>● 7471B: Mercury @ 174 and 136 %R (80-120). J Flag</li> </ul> |      |

<sup>3</sup> The recovery of either the MS or MSD met control limits.

## Data Validation Checklist (Continued)

| Review Questions  | Yes | No | N/A | Samples (Analytes) Affected/Comments   | Flag |
|---|-----|----|-----|--|------|
| 27. Were laboratory/project ( $\leq 20\%$ RPD) criteria met for precision during the MS and MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i><br><ul style="list-style-type: none"> <li>○ If RPD <math>&gt; 20\%</math>, J and UJ flag positive and non-detect results.</li> </ul>  |     | ✓  |     | CV0828B-CS-SP (680-90622-30):<br><ul style="list-style-type: none"> <li>• Barium @ <math>80\%</math>RPD (<math>\leq 20</math>). An evaluation of interference is not possible based on MS and MSD results<sup>2</sup>.</li> <li>• Cadmium @ <math>59\%</math>RPD (<math>\leq 20</math>). J-flag</li> </ul> | J    |
| 28. Was a serial dilution conducted for 6010C?  | ✓   |    |     | <ul style="list-style-type: none"> <li>• 6010C: <ul style="list-style-type: none"> <li>○ 680-90622-13 (CV0626B-CS)</li> <li>○ 680-90622-30 (CV0828B-CS-SP)</li> </ul> </li> <li>• 200.7: 680-90622-15 (052113-RB-Shovel)</li> </ul>  |      |
| 29. Is the serial dilution parent sample a project-specific sample?   | ✓   |    |     | See Above  |      |
| 30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i><br><ul style="list-style-type: none"> <li>○ If %D <math>&gt; 10</math>, J and UJ flag positive and non-detect results, respectively.</li> </ul>  |     | ✓  |     | CV0626B-CS (680-90622-13):<br><ul style="list-style-type: none"> <li>• Barium @ <math>14\%</math>D (<math>\leq 10</math>), J-Flag</li> <li>• Chromium @ <math>15\%</math>D (<math>\leq 10</math>), J-Flag</li> <li>• Lead @ <math>17\%</math>D (<math>\leq 10</math>), J-Flag</li> </ul>                   | J    |
| 31. Was a laboratory duplicate analyzed?  |     | ✓  |     |  |      |
| 32. Was the lab duplicate analysis conducted on a project-specific sample?  |     |    | ✓   |  |      |
| 33. Were criteria for laboratory/project precision met? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i><br><ul style="list-style-type: none"> <li>○ If RPD values <math>&gt; 20\%</math> (<math>35\%</math> for soil/sediment) or absolute difference <math>&gt; RL</math> (<math>2x RL</math> for soil/sediment), then J and UJ flag positive and non-detect results, respectively.</li> </ul>   |     |    | ✓   |  |      |
| 34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.   | ✓   |    |     | Refer to <b>Attachment C</b> (Case Narrative)  |      |
| <p><b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review</i> (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (<b>Attachment D</b>). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p> |     |    |     |  |      |

## Data Validation Checklist (Continued)

### DV Flag Definitions:

- J- The result is an estimated quantity, but the result may be biased low.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.



**ATTACHMENT A**  
**SAMPLE SUMMARY**

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       |
|---------------|-----------------------|--------|----------------|----------------|
| 680-90622-13  | CV0626B-CS            | Solid  | 05/20/13 14:45 | 05/23/13 09:30 |
| 680-90622-14  | CV0626B-CS (sieve)    | Solid  | 05/20/13 14:45 | 05/23/13 09:30 |
| 680-90622-15  | 052113-RB-Shovel      | Water  | 05/21/13 11:35 | 05/23/13 09:30 |
| 680-90622-20  | CV1358A-CS            | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |
| 680-90622-21  | CV1358A-CSD           | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |
| 680-90622-27  | CV1016A-CS-SP         | Solid  | 05/21/13 10:58 | 05/23/13 09:30 |
| 680-90622-30  | CV0828B-CS-SP         | Solid  | 05/21/13 14:02 | 05/23/13 09:30 |
| 680-90622-40  | CV0828B-CS-SP (sieve) | Solid  | 05/21/13 14:02 | 05/23/13 09:30 |
| 680-90622-41  | CV1016A-CS-SP (sieve) | Solid  | 05/21/13 10:58 | 05/23/13 09:30 |
| 680-90622-42  | CV1358A-CS (sieve)    | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |
| 680-90622-43  | CV1358A-CSD (sieve)   | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |

**ATTACHMENT B**  
**FIELD DUPLICATE EVALUATION**

Evaluation of Field Duplicate Results

| Analyte  | CV1358A-CS<br>680-90622-20 | RL    | CV1358A-CSD<br>680-90622-21 | RL    | Unit  | Avg. RLx5 | RPD | Absolute<br>difference | 2x Avg<br>RL | Action                                |
|----------|----------------------------|-------|-----------------------------|-------|-------|-----------|-----|------------------------|--------------|---------------------------------------|
| Arsenic  | 27                         | 2.5   | 29                          | 2.3   | mg/Kg | 12        | 7   | NA                     | NA           | None, RPD ≤ 50%                       |
| Barium   | 340                        | 1.2   | 380                         | 1.2   | mg/Kg | 6         | 11  | NA                     | NA           | None, RPD ≤ 50%                       |
| Cadmium  | 3.4                        | 0.62  | 3.3                         | 0.59  | mg/Kg | 3.025     | 3   | NA                     | NA           | None, RPD ≤ 50%                       |
| Chromium | 60                         | 1.2   | 63                          | 1.2   | mg/Kg | 6         | 5   | NA                     | NA           | None, RPD ≤ 50%                       |
| Lead     | 390                        | 1.2   | 450                         | 1.2   | mg/Kg | 6         | 14  | NA                     | NA           | None, RPD ≤ 50%                       |
| Mercury  | 0.30                       | 0.026 | 0.34                        | 0.024 | mg/Kg | 0.125     | 13  | NA                     | NA           | None, RPD ≤ 50%                       |
| Selenium |                            | 3.1   | 1.2                         | J 2.9 | mg/Kg | 15        | NA  | 1.2                    | 6            | None, absolute difference ≤ 2x Avg RL |

Note: If the analyte was not detected, then the cell was left blank.

- mg/kg - Milligrams per kilogram
- J - Estimated value
- NA - Not applicable
- RL - Reporting limit
- RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

| Analyte  | CV1358A-CS (sieve)<br>680-90622-42 | RL    | CV1358A-CSD (sieve)<br>680-90622-43 | RL    | Unit  | Avg. RLx5 | RPD | Absolute<br>difference | 2x Avg<br>RL | Action                                |
|----------|------------------------------------|-------|-------------------------------------|-------|-------|-----------|-----|------------------------|--------------|---------------------------------------|
| Arsenic  | 30                                 | 2.3   | 28                                  | 2.3   | mg/Kg | 11.5      | 7   | NA                     | NA           | None, RPD ≤ 50%                       |
| Barium   | 390                                | 1.2   | 340                                 | 1.2   | mg/Kg | 6         | 14  | NA                     | NA           | None, RPD ≤ 50%                       |
| Cadmium  | 3.3                                | 0.58  | 3.2                                 | 0.58  | mg/Kg | 2.9       | 3   | NA                     | NA           | None, RPD ≤ 50%                       |
| Chromium | 63                                 | 1.2   | 71                                  | 1.2   | mg/Kg | 6         | 12  | NA                     | NA           | None, RPD ≤ 50%                       |
| Lead     | 390                                | 1.2   | 400                                 | 1.2   | mg/Kg | 6         | 3   | NA                     | NA           | None, RPD ≤ 50%                       |
| Mercury  | 0.35                               | 0.021 | 0.42                                | 0.024 | mg/Kg | 0.1125    | 18  | NA                     | NA           | None, RPD ≤ 50%                       |
| Selenium |                                    | 2.9   | 1.5                                 | J 2.9 | mg/Kg | 14.5      | NA  | 1.5                    | 5.8          | None, absolute difference ≤ 2x Avg RL |

Note: If the analyte was not detected, then the cell was left blank.

mg/kg - Milligrams per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

**ATTACHMENT C**  
**CASE NARRATIVE**

# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

**Job ID: 680-90622-3**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-90622-3**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

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

### **RECEIPT**

The samples were received on 05/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 5.6° C.

Except:

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): CV0003B-GS (680-90622-8), HP0068A-CS (680-90622-9), HP0068A-CSD (680-90622-10). The container labels list HP0068A-CSD. The COC lists CV0068A-CSD. Based on feedback from the client, the COC was incorrect, and the samples should be identified as HP-0003B-GS, HP-9968A CS, and HP 0068A CSD

### **METALS (ICP)-Waters**

Sample 052113-RB-Shovel (680-90622-15) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 05/28/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

### **TOTAL MERCURY-Waters**

Sample 052113-RB-Shovel (680-90622-15) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 05/29/2013 and analyzed on 05/30/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample 680-90557-1 in batch 680-278688.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

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### Job ID: 680-90622-3 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

##### METALS (ICP)

Samples CV0626B-CS (680-90622-13), CV0626B-CS (sieve) (680-90622-14), CV1358A-CS (680-90622-20), CV1358A-CSD (680-90622-21), CV1016A-CS-SP (680-90622-27), CV0828B-CS-SP (680-90622-30), CV0828B-CS-SP (sieve) (680-90622-40), CV1016A-CS-SP (sieve) (680-90622-41), CV1358A-CS (sieve) (680-90622-42) and CV1358A-CSD (sieve) (680-90622-43) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/28/2013 and 05/30/2013 and analyzed on 05/30/2013 and 05/31/2013.

Barium and Lead recovered outside the recovery criteria for the MS/MSD of sample CV0626B-CS (680-90622-13) in batch 680-278654.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0828B-CS-SP (680-90622-30) in batch 680-278654. Barium and Cadmium exceeded the RPD limit.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

##### TOTAL MERCURY

Samples CV0626B-CS (680-90622-13), CV0626B-CS (sieve) (680-90622-14), CV1358A-CS (680-90622-20), CV1358A-CSD (680-90622-21), CV1016A-CS-SP (680-90622-27), CV0828B-CS-SP (680-90622-30), CV0828B-CS-SP (sieve) (680-90622-40), CV1016A-CS-SP (sieve) (680-90622-41), CV1358A-CS (sieve) (680-90622-42) and CV1358A-CSD (sieve) (680-90622-43) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 05/28/2013 and 05/30/2013 and analyzed on 05/30/2013 and 05/31/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0626B-CS (680-90622-13) in batch 680-278549.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0828B-CS-SP (680-90622-30) in batch 680-278834.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.



**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

**Client Sample ID: CV0626B-CS**

**Lab Sample ID: 680-90622-13**

Date Collected: 05/20/13 14:45

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 79.1

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 26     |           | 2.5  | 0.74 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Barium   | 260    |           | 1.3  | 0.38 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Cadmium  | 1.0    |           | 0.63 | 0.13 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Chromium | 40     |           | 1.3  | 0.63 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Lead     | 260    |           | 1.3  | 0.66 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Selenium | 3.1    | U         | 3.1  | 1.3  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Silver   | 1.3    | U         | 1.3  | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.33   |           | 0.023 | 0.0093 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 12:54 | 1       |

**Client Sample ID: CV0626B-CS (sieve)**

**Lab Sample ID: 680-90622-14**

Date Collected: 05/20/13 14:45

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 86.3

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 25     |           | 2.2  | 0.65 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Barium   | 260    |           | 1.1  | 0.33 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Cadmium  | 1.2    |           | 0.55 | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Chromium | 42     |           | 1.1  | 0.55 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Lead     | 310    |           | 1.1  | 0.58 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Selenium | 1.5    | J         | 2.7  | 1.1  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Silver   | 1.1    | U         | 1.1  | 0.10 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.28   |           | 0.020 | 0.0082 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:02 | 1       |

**Client Sample ID: 052113-RB-Shovel**

**Lab Sample ID: 680-90622-15**

Date Collected: 05/21/13 11:35

Matrix: Water

Date Received: 05/23/13 09:30

**Method: 200.7 Rev 4.4 - Metals (ICP)**

| Analyte  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Arsenic  | 20     | U         | 20  | 4.6  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Barium   | 10     | U         | 10  | 2.3  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Cadmium  | 5.0    | U         | 5.0 | 2.0  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Chromium | 10     | U         | 10  | 1.2  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Lead     | 10     | U         | 10  | 4.0  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Selenium | 20     | U         | 20  | 6.4  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Silver   | 10     | U         | 10  | 0.89 | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |

**Method: 245.1 - Mercury (CVAA)**

| Analyte | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | 0.20   | U         | 0.20 | 0.091 | ug/L |   | 05/29/13 10:33 | 05/30/13 19:09 | 1       |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Client Sample ID: CV1358A-CS

## Lab Sample ID: 680-90622-20

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 76.2

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 27     |           | 2.5  | 0.73 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Barium   | 340    |           | 1.2  | 0.37 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Cadmium  | 3.4    |           | 0.62 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Chromium | 60     |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Lead     | 390    |           | 1.2  | 0.66 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Selenium | 3.1    | U         | 3.1  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.30   |           | 0.026 | 0.011 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:04 | 1       |

## Client Sample ID: CV1358A-CSD

## Lab Sample ID: 680-90622-21

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 74.9

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 29     |           | 2.3  | 0.69 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Barium   | 380    |           | 1.2  | 0.35 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Cadmium  | 3.3    |           | 0.59 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Chromium | 63     |           | 1.2  | 0.59 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Lead     | 450    |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Selenium | 1.2    | J         | 2.9  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.34   |           | 0.024 | 0.0098 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:12 | 1       |

## Client Sample ID: CV1016A-CS-SP

## Lab Sample ID: 680-90622-27

Date Collected: 05/21/13 10:58

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 78.8

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 35     |           | 2.3  | 0.67 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Barium   | 320    |           | 1.1  | 0.34 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Cadmium  | 2.4    |           | 0.57 | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Chromium | 43     |           | 1.1  | 0.57 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Lead     | 370    |           | 1.1  | 0.60 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Selenium | 2.8    | U         | 2.8  | 1.1  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Silver   | 0.30   | J         | 1.1  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.31   |           | 0.024 | 0.0098 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:14 | 1       |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

**Client Sample ID: CV0828B-CS-SP**

**Lab Sample ID: 680-90622-30**

Date Collected: 05/21/13 14:02

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 75.6

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 33     |           | 2.6  | 0.77 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Barium   | 290    |           | 1.3  | 0.39 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Cadmium  | 1.5    |           | 0.65 | 0.13 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Chromium | 54     |           | 1.3  | 0.65 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Lead     | 310    |           | 1.3  | 0.69 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Selenium | 1.4    | J         | 3.3  | 1.3  | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Silver   | 0.27   | J         | 1.3  | 0.13 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.16   |           | 0.024 | 0.010 | mg/Kg | ☼ | 05/30/13 14:32 | 05/31/13 19:08 | 1       |

**Client Sample ID: CV0828B-CS-SP (sieve)**

**Lab Sample ID: 680-90622-40**

Date Collected: 05/21/13 14:02

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 90.0

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 40     |           | 2.2  | 0.64 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Barium   | 260    |           | 1.1  | 0.32 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Cadmium  | 1.9    |           | 0.54 | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Chromium | 59     |           | 1.1  | 0.54 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Lead     | 340    |           | 1.1  | 0.57 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Selenium | 2.7    | U         | 2.7  | 1.1  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Silver   | 0.51   | J         | 1.1  | 0.10 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.25   |           | 0.020 | 0.0081 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:17 | 1       |

**Client Sample ID: CV1016A-CS-SP (sieve)**

**Lab Sample ID: 680-90622-41**

Date Collected: 05/21/13 10:58

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 77.9

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 37     |           | 2.4  | 0.72 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Barium   | 350    |           | 1.2  | 0.37 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Cadmium  | 2.5    |           | 0.61 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Chromium | 40     |           | 1.2  | 0.61 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Lead     | 420    |           | 1.2  | 0.65 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Selenium | 1.8    | J         | 3.1  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Silver   | 0.32   | J         | 1.2  | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.44   |           | 0.024 | 0.0098 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:19 | 1       |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Client Sample ID: CV1358A-CS (sieve)

## Lab Sample ID: 680-90622-42

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 81.6

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 30     |           | 2.3  | 0.69 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Barium   | 390    |           | 1.2  | 0.35 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Cadmium  | 3.3    |           | 0.58 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Chromium | 63     |           | 1.2  | 0.58 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Lead     | 390    |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Selenium | 2.9    | U         | 2.9  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.35   |           | 0.021 | 0.0087 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:21 | 1       |

## Client Sample ID: CV1358A-CSD (sieve)

## Lab Sample ID: 680-90622-43

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 81.5

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 28     |           | 2.3  | 0.69 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Barium   | 340    |           | 1.2  | 0.35 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Cadmium  | 3.2    |           | 0.58 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Chromium | 71     |           | 1.2  | 0.58 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Lead     | 400    |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Selenium | 1.5    | J         | 2.9  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.42   |           | 0.024 | 0.0099 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:24 | 1       |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

## ANALYTICAL REPORT

Job Number: 680-90622-3

SDG Number: 68090622-3

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC  
1220 Kennestone Circle  
Suite 106  
Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
6/5/2013 5:09 PM

---

Designee for  
Lisa Harvey, Project Manager II  
5102 LaRoche Avenue, Savannah, GA, 31404  
(912)354-7858 e.3221  
lisa.harvey@testamericainc.com  
06/05/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-90622-3**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

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

### RECEIPT

The samples were received on 05/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 5.6° C.

Except:

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): CV0003B-GS (680-90622-8), HP0068A-CS (680-90622-9), HP0068A-CSD (680-90622-10). The container labels list HP0068A-CSD. The COC lists CV0068A-CSD. Based on feedback from the client, the COC was incorrect, and the samples should be identified as HP-0003B-GS, HP-9968A-CS, and HP-0068A-CSD.

### METALS (ICP)-Waters

Sample 052113-RB-Shovel (680-90622-15) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 05/28/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

### TOTAL MERCURY-Waters

Sample 052113-RB-Shovel (680-90622-15) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 05/29/2013 and analyzed on 05/30/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample 680-90557-1 in batch 680-278688.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

### METALS (ICP)

Samples CV0626B-CS (680-90622-13), CV0626B-CS (sieve) (680-90622-14), CV1358A-CS (680-90622-20), CV1358A-CSD (680-90622-21), CV1016A-CS-SP (680-90622-27), CV0828B-CS-SP (680-90622-30), CV0828B-CS-SP (sieve) (680-90622-40), CV1016A-CS-SP (sieve) (680-90622-41), CV1358A-CS (sieve) (680-90622-42) and CV1358A-CSD (sieve) (680-90622-43) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/28/2013 and 05/30/2013 and analyzed on 05/30/2013 and 05/31/2013.

Barium and Lead recovered outside the recovery criteria for the MS/MSD of sample CV0626B-CS (680-90622-13) in batch 680-278654.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0828B-CS-SP (680-90622-30) in batch 680-278654. Barium and Cadmium exceeded the RPD limit.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

**TOTAL MERCURY**

Samples CV0626B-CS (680-90622-13), CV0626B-CS (sieve) (680-90622-14), CV1358A-CS (680-90622-20), CV1358A-CSD (680-90622-21), CV1016A-CS-SP (680-90622-27), CV0828B-CS-SP (680-90622-30), CV0828B-CS-SP (sieve) (680-90622-40), CV1016A-CS-SP (sieve) (680-90622-41), CV1358A-CS (sieve) (680-90622-42) and CV1358A-CSD (sieve) (680-90622-43) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 05/28/2013 and 05/30/2013 and analyzed on 05/30/2013 and 05/31/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0626B-CS (680-90622-13) in batch 680-278549.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0828B-CS-SP (680-90622-30) in batch 680-278834.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

| <b>Lab Sample ID</b> | <b>Client Sample ID</b> | <b>Client Matrix</b> | <b>Date/Time<br/>Sampled</b> | <b>Date/Time<br/>Received</b> |
|----------------------|-------------------------|----------------------|------------------------------|-------------------------------|
| 680-90622-13         | CV0626B-CS              | Solid                | 05/20/2013 1445              | 05/23/2013 0930               |
| 680-90622-13MS       | CV0626B-CS              | Solid                | 05/20/2013 1445              | 05/23/2013 0930               |
| 680-90622-13MSD      | CV0626B-CS              | Solid                | 05/20/2013 1445              | 05/23/2013 0930               |
| 680-90622-14         | CV0626B-CS (sieve)      | Solid                | 05/20/2013 1445              | 05/23/2013 0930               |
| 680-90622-15         | 052113-RB-Shovel        | Water                | 05/21/2013 1135              | 05/23/2013 0930               |
| 680-90622-20         | CV1358A-CS              | Solid                | 05/21/2013 0930              | 05/23/2013 0930               |
| 680-90622-21         | CV1358A-CSD             | Solid                | 05/21/2013 0930              | 05/23/2013 0930               |
| 680-90622-27         | CV1016A-CS-SP           | Solid                | 05/21/2013 1058              | 05/23/2013 0930               |
| 680-90622-30         | CV0828B-CS-SP           | Solid                | 05/21/2013 1402              | 05/23/2013 0930               |
| 680-90622-40         | CV0828B-CS-SP (sieve)   | Solid                | 05/21/2013 1402              | 05/23/2013 0930               |
| 680-90622-41         | CV1016A-CS-SP (sieve)   | Solid                | 05/21/2013 1058              | 05/23/2013 0930               |
| 680-90622-42         | CV1358A-CS (sieve)      | Solid                | 05/21/2013 0930              | 05/23/2013 0930               |
| 680-90622-43         | CV1358A-CSD (sieve)     | Solid                | 05/21/2013 0930              | 05/23/2013 0930               |

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

| Description   | Lab Location | Method                  | Preparation Method |
|---|--------------|-------------------------|--------------------|
| <b>Matrix: Solid</b>  |              |                         |                    |
| Metals (ICP)  | TAL SAV      | SW846 6010C             |                    |
| Preparation, Metals   | TAL SAV      |                         | SW846 3050B        |
| Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | TAL SAV      | SW846 7471B             |                    |
| Preparation, Mercury  | TAL SAV      |                         | SW846 7471B        |
| Percent Moisture  | TAL SAV      | EPA Moisture            |                    |
| Percent Moisture  | TAL TAM      | EPA Moisture            |                    |
| <b>Matrix: Water</b>  |              |                         |                    |
| Metals (ICP)  | TAL SAV      | 40CFR136A 200.7 Rev 4.4 |                    |
| Preparation, Total Metals   | TAL SAV      |                         | EPA 200.7          |
| Mercury (CVAA)  | TAL SAV      | EPA 245.1               |                    |
| Preparation, Mercury  | TAL SAV      |                         | EPA 245.1          |

**Lab References:**

TAL SAV = TestAmerica Savannah

TAL TAM = TestAmerica Tampa

**Method References:**

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

EPA = US Environmental Protection Agency

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

## METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

| <b>Method</b>           | <b>Analyst</b>    | <b>Analyst ID</b> |
|-------------------------|-------------------|-------------------|
| 40CFR136A 200.7 Rev 4.4 | Bland, Brian      | BCB               |
| EPA 245.1               | Bland, Brian      | BCB               |
| SW846 6010C             | Bland, Brian      | BCB               |
| SW846 7471B             | Bland, Brian      | BCB               |
| EPA Moisture            | Galio, Andrew     | AG                |
| EPA Moisture            | Swafford, Frances | FS                |

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

| <b>Lab Section</b> | <b>Qualifier</b> | <b>Description</b>  |
|--------------------|------------------|---|
| Metals             |                  |   |
|                    | U                | Indicates the analyte was analyzed for but not detected.  |
|                    | F                | MS or MSD exceeds the control limits  |
|                    | 4                | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
|                    | J                | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |
|                    | F                | RPD of the MS and MSD exceeds the control limits  |
|                    | V                | Serial Dilution exceeds the control limits  |

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

### QC Association Summary

| Lab Sample ID                 | Client Sample ID             | Report |               | Method | Prep Batch |
|-------------------------------|------------------------------|--------|---------------|--------|------------|
|                               |                              | Basis  | Client Matrix |        |            |
| <b>Metals</b>                 |                              |        |               |        |            |
| <b>Prep Batch: 680-278125</b> |                              |        |               |        |            |
| LCS 680-278125/2-A            | Lab Control Sample           | T      | Water         | 200.7  |            |
| MB 680-278125/1-A             | Method Blank                 | T      | Water         | 200.7  |            |
| 680-90622-15                  | 052113-RB-Shovel             | T      | Water         | 200.7  |            |
| 680-90622-15MS                | Matrix Spike                 | T      | Water         | 200.7  |            |
| 680-90622-15MSD               | Matrix Spike Duplicate       | T      | Water         | 200.7  |            |
| <b>Prep Batch: 680-278184</b> |                              |        |               |        |            |
| LCS 680-278184/2-A            | Lab Control Sample           | T      | Solid         | 3050B  |            |
| MB 680-278184/1-A             | Method Blank                 | T      | Solid         | 3050B  |            |
| 680-90622-13                  | CV0626B-CS                   | T      | Solid         | 3050B  |            |
| 680-90622-13MS                | Matrix Spike                 | T      | Solid         | 3050B  |            |
| 680-90622-13MSD               | Matrix Spike Duplicate       | T      | Solid         | 3050B  |            |
| 680-90622-14                  | CV0626B-CS (sieve)           | T      | Solid         | 3050B  |            |
| 680-90622-20                  | CV1358A-CS                   | T      | Solid         | 3050B  |            |
| 680-90622-21                  | CV1358A-CSD                  | T      | Solid         | 3050B  |            |
| 680-90622-27                  | CV1016A-CS-SP                | T      | Solid         | 3050B  |            |
| 680-90622-40                  | CV0828B-CS-SP (sieve)        | T      | Solid         | 3050B  |            |
| 680-90622-41                  | CV1016A-CS-SP (sieve)        | T      | Solid         | 3050B  |            |
| 680-90622-42                  | CV1358A-CS (sieve)           | T      | Solid         | 3050B  |            |
| 680-90622-43                  | CV1358A-CSD (sieve)          | T      | Solid         | 3050B  |            |
| <b>Prep Batch: 680-278204</b> |                              |        |               |        |            |
| LCS 680-278204/2-A            | Lab Control Sample           | T      | Solid         | 7471B  |            |
| MB 680-278204/1-A             | Method Blank                 | T      | Solid         | 7471B  |            |
| 680-90622-13                  | CV0626B-CS                   | T      | Solid         | 7471B  |            |
| 680-90622-13MS                | Matrix Spike                 | T      | Solid         | 7471B  |            |
| 680-90622-13MSD               | Matrix Spike Duplicate       | T      | Solid         | 7471B  |            |
| 680-90622-14                  | CV0626B-CS (sieve)           | T      | Solid         | 7471B  |            |
| 680-90622-20                  | CV1358A-CS                   | T      | Solid         | 7471B  |            |
| 680-90622-21                  | CV1358A-CSD                  | T      | Solid         | 7471B  |            |
| 680-90622-27                  | CV1016A-CS-SP                | T      | Solid         | 7471B  |            |
| 680-90622-40                  | CV0828B-CS-SP (sieve)        | T      | Solid         | 7471B  |            |
| 680-90622-41                  | CV1016A-CS-SP (sieve)        | T      | Solid         | 7471B  |            |
| 680-90622-42                  | CV1358A-CS (sieve)           | T      | Solid         | 7471B  |            |
| 680-90622-43                  | CV1358A-CSD (sieve)          | T      | Solid         | 7471B  |            |
| <b>Prep Batch: 680-278298</b> |                              |        |               |        |            |
| LCS 680-278298/2-A            | Lab Control Sample           | T      | Water         | 245.1  |            |
| LCSD 680-278298/3-A           | Lab Control Sample Duplicate | T      | Water         | 245.1  |            |
| MB 680-278298/1-A             | Method Blank                 | T      | Water         | 245.1  |            |
| 680-90557-C-1-D MS            | Matrix Spike                 | T      | Water         | 245.1  |            |
| 680-90557-C-1-E MSD           | Matrix Spike Duplicate       | T      | Water         | 245.1  |            |
| 680-90622-15                  | 052113-RB-Shovel             | T      | Water         | 245.1  |            |

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

### QC Association Summary

| Lab Sample ID                    | Client Sample ID       | Report Basis | Client Matrix | Method        | Prep Batch |
|----------------------------------|------------------------|--------------|---------------|---------------|------------|
| <b>Metals</b>                    |                        |              |               |               |            |
| <b>Analysis Batch:680-278301</b> |                        |              |               |               |            |
| LCS 680-278125/2-A               | Lab Control Sample     | T            | Water         | 200.7 Rev 4.4 | 680-278125 |
| MB 680-278125/1-A                | Method Blank           | T            | Water         | 200.7 Rev 4.4 | 680-278125 |
| 680-90622-15                     | 052113-RB-Shovel       | T            | Water         | 200.7 Rev 4.4 | 680-278125 |
| 680-90622-15MS                   | Matrix Spike           | T            | Water         | 200.7 Rev 4.4 | 680-278125 |
| 680-90622-15MSD                  | Matrix Spike Duplicate | T            | Water         | 200.7 Rev 4.4 | 680-278125 |
| <b>Prep Batch: 680-278504</b>    |                        |              |               |               |            |
| LCS 680-278504/2-A               | Lab Control Sample     | T            | Solid         | 3050B         |            |
| MB 680-278504/1-A                | Method Blank           | T            | Solid         | 3050B         |            |
| 680-90622-30                     | CV0828B-CS-SP          | T            | Solid         | 3050B         |            |
| 680-90622-30MS                   | Matrix Spike           | T            | Solid         | 3050B         |            |
| 680-90622-30MSD                  | Matrix Spike Duplicate | T            | Solid         | 3050B         |            |
| <b>Analysis Batch:680-278549</b> |                        |              |               |               |            |
| LCS 680-278204/2-A               | Lab Control Sample     | T            | Solid         | 7471B         | 680-278204 |
| MB 680-278204/1-A                | Method Blank           | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-13                     | CV0626B-CS             | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-13MS                   | Matrix Spike           | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-13MSD                  | Matrix Spike Duplicate | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-14                     | CV0626B-CS (sieve)     | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-20                     | CV1358A-CS             | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-21                     | CV1358A-CSD            | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-27                     | CV1016A-CS-SP          | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-40                     | CV0828B-CS-SP (sieve)  | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-41                     | CV1016A-CS-SP (sieve)  | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-42                     | CV1358A-CS (sieve)     | T            | Solid         | 7471B         | 680-278204 |
| 680-90622-43                     | CV1358A-CSD (sieve)    | T            | Solid         | 7471B         | 680-278204 |
| <b>Prep Batch: 680-278555</b>    |                        |              |               |               |            |
| LCS 680-278555/2-A               | Lab Control Sample     | T            | Solid         | 7471B         |            |
| MB 680-278555/1-A                | Method Blank           | T            | Solid         | 7471B         |            |
| 680-90622-30                     | CV0828B-CS-SP          | T            | Solid         | 7471B         |            |
| 680-90622-30MS                   | Matrix Spike           | T            | Solid         | 7471B         |            |
| 680-90622-30MSD                  | Matrix Spike Duplicate | T            | Solid         | 7471B         |            |



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

### QC Association Summary

| Lab Sample ID                    | Client Sample ID             | Report<br>Basis | Client Matrix | Method | Prep Batch |
|----------------------------------|------------------------------|-----------------|---------------|--------|------------|
| <b>Metals</b>                    |                              |                 |               |        |            |
| <b>Analysis Batch:680-278654</b> |                              |                 |               |        |            |
| LCS 680-278184/2-A               | Lab Control Sample           | T               | Solid         | 6010C  | 680-278184 |
| MB 680-278184/1-A                | Method Blank                 | T               | Solid         | 6010C  | 680-278184 |
| LCS 680-278504/2-A               | Lab Control Sample           | T               | Solid         | 6010C  | 680-278504 |
| MB 680-278504/1-A                | Method Blank                 | T               | Solid         | 6010C  | 680-278504 |
| 680-90622-13                     | CV0626B-CS                   | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-13MS                   | Matrix Spike                 | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-13MSD                  | Matrix Spike Duplicate       | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-14                     | CV0626B-CS (sieve)           | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-20                     | CV1358A-CS                   | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-21                     | CV1358A-CSD                  | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-27                     | CV1016A-CS-SP                | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-30                     | CV0828B-CS-SP                | T               | Solid         | 6010C  | 680-278504 |
| 680-90622-30MS                   | Matrix Spike                 | T               | Solid         | 6010C  | 680-278504 |
| 680-90622-30MSD                  | Matrix Spike Duplicate       | T               | Solid         | 6010C  | 680-278504 |
| 680-90622-40                     | CV0828B-CS-SP (sieve)        | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-41                     | CV1016A-CS-SP (sieve)        | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-42                     | CV1358A-CS (sieve)           | T               | Solid         | 6010C  | 680-278184 |
| 680-90622-43                     | CV1358A-CSD (sieve)          | T               | Solid         | 6010C  | 680-278184 |
| <b>Analysis Batch:680-278688</b> |                              |                 |               |        |            |
| LCS 680-278298/2-A               | Lab Control Sample           | T               | Water         | 245.1  | 680-278298 |
| LCSD 680-278298/3-A              | Lab Control Sample Duplicate | T               | Water         | 245.1  | 680-278298 |
| MB 680-278298/1-A                | Method Blank                 | T               | Water         | 245.1  | 680-278298 |
| 680-90557-C-1-D MS               | Matrix Spike                 | T               | Water         | 245.1  | 680-278298 |
| 680-90557-C-1-E MSD              | Matrix Spike Duplicate       | T               | Water         | 245.1  | 680-278298 |
| 680-90622-15                     | 052113-RB-Shovel             | T               | Water         | 245.1  | 680-278298 |
| <b>Analysis Batch:680-278834</b> |                              |                 |               |        |            |
| LCS 680-278555/2-A               | Lab Control Sample           | T               | Solid         | 7471B  | 680-278555 |
| MB 680-278555/1-A                | Method Blank                 | T               | Solid         | 7471B  | 680-278555 |
| 680-90622-30                     | CV0828B-CS-SP                | T               | Solid         | 7471B  | 680-278555 |
| 680-90622-30MS                   | Matrix Spike                 | T               | Solid         | 7471B  | 680-278555 |
| 680-90622-30MSD                  | Matrix Spike Duplicate       | T               | Solid         | 7471B  | 680-278555 |

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

Sdg Number: 68090622-3

### QC Association Summary

| Lab Sample ID                    | Client Sample ID             | Report<br>Basis | Client Matrix | Method   | Prep Batch |
|----------------------------------|------------------------------|-----------------|---------------|----------|------------|
| <b>General Chemistry</b>         |                              |                 |               |          |            |
| <b>Analysis Batch:660-137757</b> |                              |                 |               |          |            |
| 680-90622-13                     | CV0626B-CS                   | T               | Solid         | Moisture |            |
| 680-90622-13MS                   | Matrix Spike                 | T               | Solid         | Moisture |            |
| 680-90622-13MSD                  | Matrix Spike Duplicate       | T               | Solid         | Moisture |            |
| 680-90622-20                     | CV1358A-CS                   | T               | Solid         | Moisture |            |
| 680-90622-A-24 MS                | Matrix Spike                 | T               | Solid         | Moisture |            |
| 680-90622-A-24 MSD               | Matrix Spike Duplicate       | T               | Solid         | Moisture |            |
| 680-90622-27                     | CV1016A-CS-SP                | T               | Solid         | Moisture |            |
| 680-90622-30                     | CV0828B-CS-SP                | T               | Solid         | Moisture |            |
| <b>Analysis Batch:660-137835</b> |                              |                 |               |          |            |
| LCSD 660-137835/1                | Lab Control Sample Duplicate | T               | Solid         | Moisture |            |
| 680-90622-21                     | CV1358A-CSD                  | T               | Solid         | Moisture |            |
| <b>Analysis Batch:680-278400</b> |                              |                 |               |          |            |
| 680-90622-14                     | CV0626B-CS (sieve)           | T               | Solid         | Moisture |            |
| 680-90622-40                     | CV0828B-CS-SP (sieve)        | T               | Solid         | Moisture |            |
| 680-90622-41                     | CV1016A-CS-SP (sieve)        | T               | Solid         | Moisture |            |
| 680-90622-42                     | CV1358A-CS (sieve)           | T               | Solid         | Moisture |            |
| 680-90622-43                     | CV1358A-CSD (sieve)          | T               | Solid         | Moisture |            |

**Report Basis**

T = Total

# **METALS**

COVER PAGE  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90622-3  
SDG No.: 68090622-3  
Project: 35th Avenue Superfund Site

| Client Sample ID             | Lab Sample ID       |
|------------------------------|---------------------|
| <u>CV0626B-CS</u>            | <u>680-90622-13</u> |
| <u>CV0626B-CS (sieve)</u>    | <u>680-90622-14</u> |
| <u>052113-RB-Shovel</u>      | <u>680-90622-15</u> |
| <u>CV1358A-CS</u>            | <u>680-90622-20</u> |
| <u>CV1358A-CSD</u>           | <u>680-90622-21</u> |
| <u>CV1016A-CS-SP</u>         | <u>680-90622-27</u> |
| <u>CV0828B-CS-SP</u>         | <u>680-90622-30</u> |
| <u>CV0828B-CS-SP (sieve)</u> | <u>680-90622-40</u> |
| <u>CV1016A-CS-SP (sieve)</u> | <u>680-90622-41</u> |
| <u>CV1358A-CS (sieve)</u>    | <u>680-90622-42</u> |
| <u>CV1358A-CSD (sieve)</u>   | <u>680-90622-43</u> |

Comments:

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0626B-CS Lab Sample ID: 680-90622-13  
 Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG ID.: 68090622-3  
 Matrix: Solid Date Sampled: 05/20/2013 14:45  
 Reporting Basis: DRY Date Received: 05/23/2013 09:30  
 % Solids: 79.1

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 26     | 2.5   | 0.74   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 260    | 1.3   | 0.38   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 1.0    | 0.63  | 0.13   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 40     | 1.3   | 0.63   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 260    | 1.3   | 0.66   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 3.1    | 3.1   | 1.3    | mg/Kg | U |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 1.3    | 1.3   | 0.12   | mg/Kg | U |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.33   | 0.023 | 0.0093 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0626B-CS (sieve)

Lab Sample ID: 680-90622-14

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG ID.: 68090622-3

Matrix: Solid

Date Sampled: 05/20/2013 14:45

Reporting Basis: DRY

Date Received: 05/23/2013 09:30

% Solids: 86.3

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 25     | 2.2   | 0.65   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 260    | 1.1   | 0.33   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 1.2    | 0.55  | 0.11   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 42     | 1.1   | 0.55   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 310    | 1.1   | 0.58   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 1.5    | 2.7   | 1.1    | mg/Kg | J |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 1.1    | 1.1   | 0.10   | mg/Kg | U |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.28   | 0.020 | 0.0082 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 052113-RB-Shovel

Lab Sample ID: 680-90622-15

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG ID.: 68090622-3

Matrix: Water

Date Sampled: 05/21/2013 11:35

Reporting Basis: WET

Date Received: 05/23/2013 09:30

| CAS No.   | Analyte  | Result | RL   | MDL   | Units | C | Q | DIL | Method           |
|-----------|----------|--------|------|-------|-------|---|---|-----|------------------|
| 7440-38-2 | Arsenic  | 20     | 20   | 4.6   | ug/L  | U |   | 1   | 200.7<br>Rev 4.4 |
| 7440-39-3 | Barium   | 10     | 10   | 2.3   | ug/L  | U |   | 1   | 200.7<br>Rev 4.4 |
| 7440-43-9 | Cadmium  | 5.0    | 5.0  | 2.0   | ug/L  | U |   | 1   | 200.7<br>Rev 4.4 |
| 7440-47-3 | Chromium | 10     | 10   | 1.2   | ug/L  | U |   | 1   | 200.7<br>Rev 4.4 |
| 7439-92-1 | Lead     | 10     | 10   | 4.0   | ug/L  | U |   | 1   | 200.7<br>Rev 4.4 |
| 7782-49-2 | Selenium | 20     | 20   | 6.4   | ug/L  | U |   | 1   | 200.7<br>Rev 4.4 |
| 7440-22-4 | Silver   | 10     | 10   | 0.89  | ug/L  | U |   | 1   | 200.7<br>Rev 4.4 |
| 7439-97-6 | Mercury  | 0.20   | 0.20 | 0.091 | ug/L  | U |   | 1   | 245.1            |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1358A-CS Lab Sample ID: 680-90622-20  
 Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG ID.: 68090622-3  
 Matrix: Solid Date Sampled: 05/21/2013 09:30  
 Reporting Basis: DRY Date Received: 05/23/2013 09:30  
 % Solids: 76.2

| CAS No.   | Analyte  | Result | RL    | MDL   | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|-------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 27     | 2.5   | 0.73  | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 340    | 1.2   | 0.37  | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 3.4    | 0.62  | 0.12  | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 60     | 1.2   | 0.62  | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 390    | 1.2   | 0.66  | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 3.1    | 3.1   | 1.2   | mg/Kg | U |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 1.2    | 1.2   | 0.12  | mg/Kg | U |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.30   | 0.026 | 0.011 | mg/Kg |   |   | 1   | 7471B  |



1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS

Client Sample ID: CV1358A-CSD

Lab Sample ID: 680-90622-21

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG ID.: 68090622-3

Matrix: Solid

Date Sampled: 05/21/2013 09:30

Reporting Basis: DRY

Date Received: 05/23/2013 09:30

% Solids: 74.9

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 29     | 2.3   | 0.69   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 380    | 1.2   | 0.35   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 3.3    | 0.59  | 0.12   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 63     | 1.2   | 0.59   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 450    | 1.2   | 0.62   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 1.2    | 2.9   | 1.2    | mg/Kg | J |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 1.2    | 1.2   | 0.11   | mg/Kg | U |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.34   | 0.024 | 0.0098 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1016A-CS-SP Lab Sample ID: 680-90622-27  
 Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG ID.: 68090622-3  
 Matrix: Solid Date Sampled: 05/21/2013 10:58  
 Reporting Basis: DRY Date Received: 05/23/2013 09:30  
 % Solids: 78.8

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 35     | 2.3   | 0.67   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 320    | 1.1   | 0.34   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 2.4    | 0.57  | 0.11   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 43     | 1.1   | 0.57   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 370    | 1.1   | 0.60   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 2.8    | 2.8   | 1.1    | mg/Kg | U |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 0.30   | 1.1   | 0.11   | mg/Kg | J |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.31   | 0.024 | 0.0098 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
 INORGANIC ANALYSIS DATA SHEET  
 METALS

Client Sample ID: CV0828B-CS-SP Lab Sample ID: 680-90622-30  
 Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG ID.: 68090622-3  
 Matrix: Solid Date Sampled: 05/21/2013 14:02  
 Reporting Basis: DRY Date Received: 05/23/2013 09:30  
 % Solids: 75.6

| CAS No.   | Analyte  | Result | RL    | MDL   | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|-------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 33     | 2.6   | 0.77  | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 290    | 1.3   | 0.39  | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 1.5    | 0.65  | 0.13  | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 54     | 1.3   | 0.65  | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 310    | 1.3   | 0.69  | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 1.4    | 3.3   | 1.3   | mg/Kg | J |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 0.27   | 1.3   | 0.13  | mg/Kg | J |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.16   | 0.024 | 0.010 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0828B-CS-SP (sieve)

Lab Sample ID: 680-90622-40

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG ID.: 68090622-3

Matrix: Solid

Date Sampled: 05/21/2013 14:02

Reporting Basis: DRY

Date Received: 05/23/2013 09:30

% Solids: 90.0

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 40     | 2.2   | 0.64   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 260    | 1.1   | 0.32   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 1.9    | 0.54  | 0.11   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 59     | 1.1   | 0.54   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 340    | 1.1   | 0.57   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 2.7    | 2.7   | 1.1    | mg/Kg | U |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 0.51   | 1.1   | 0.10   | mg/Kg | J |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.25   | 0.020 | 0.0081 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1016A-CS-SP (sieve)

Lab Sample ID: 680-90622-41

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG ID.: 68090622-3

Matrix: Solid

Date Sampled: 05/21/2013 10:58

Reporting Basis: DRY

Date Received: 05/23/2013 09:30

% Solids: 77.9

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 37     | 2.4   | 0.72   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 350    | 1.2   | 0.37   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 2.5    | 0.61  | 0.12   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 40     | 1.2   | 0.61   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 420    | 1.2   | 0.65   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 1.8    | 3.1   | 1.2    | mg/Kg | J |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 0.32   | 1.2   | 0.12   | mg/Kg | J |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.44   | 0.024 | 0.0098 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1358A-CS (sieve)

Lab Sample ID: 680-90622-42

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG ID.: 68090622-3

Matrix: Solid

Date Sampled: 05/21/2013 09:30

Reporting Basis: DRY

Date Received: 05/23/2013 09:30

% Solids: 81.6

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 30     | 2.3   | 0.69   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 390    | 1.2   | 0.35   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 3.3    | 0.58  | 0.12   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 63     | 1.2   | 0.58   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 390    | 1.2   | 0.62   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 2.9    | 2.9   | 1.2    | mg/Kg | U |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 1.2    | 1.2   | 0.11   | mg/Kg | U |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.35   | 0.021 | 0.0087 | mg/Kg |   |   | 1   | 7471B  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1358A-CSD (sieve)

Lab Sample ID: 680-90622-43

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG ID.: 68090622-3

Matrix: Solid

Date Sampled: 05/21/2013 09:30

Reporting Basis: DRY

Date Received: 05/23/2013 09:30

% Solids: 81.5

| CAS No.   | Analyte  | Result | RL    | MDL    | Units | C | Q | DIL | Method |
|-----------|----------|--------|-------|--------|-------|---|---|-----|--------|
| 7440-38-2 | Arsenic  | 28     | 2.3   | 0.69   | mg/Kg |   |   | 1   | 6010C  |
| 7440-39-3 | Barium   | 340    | 1.2   | 0.35   | mg/Kg |   |   | 1   | 6010C  |
| 7440-43-9 | Cadmium  | 3.2    | 0.58  | 0.12   | mg/Kg |   |   | 1   | 6010C  |
| 7440-47-3 | Chromium | 71     | 1.2   | 0.58   | mg/Kg |   |   | 1   | 6010C  |
| 7439-92-1 | Lead     | 400    | 1.2   | 0.62   | mg/Kg |   |   | 1   | 6010C  |
| 7782-49-2 | Selenium | 1.5    | 2.9   | 1.2    | mg/Kg | J |   | 1   | 6010C  |
| 7440-22-4 | Silver   | 1.2    | 1.2   | 0.11   | mg/Kg | U |   | 1   | 6010C  |
| 7439-97-6 | Mercury  | 0.42   | 0.024 | 0.0099 | mg/Kg |   |   | 1   | 7471B  |

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00112

| Analyte         | ICV 680-278301/5<br>05/28/2013 13:17 |   |      |     | CCV 680-278301/133<br>05/28/2013 23:21 |   |      |     | CCV 680-278301/145<br>05/29/2013 00:16 |   |      |     |
|-----------------|--------------------------------------|---|------|-----|--|---|------|-----|--|---|------|-----|
|                 | Found                                | C | True | %R  | Found                                  | C | True | %R  | Found                                  | C | True | %R  |
| <b>Arsenic</b>  | 1030                                 |   | 1000 | 103 | 497                                    |   | 500  | 99  | 499                                    |   | 500  | 100 |
| <b>Barium</b>   | 1010                                 |   | 1000 | 101 | 4790                                   |   | 5000 | 96  | 4820                                   |   | 5000 | 96  |
| <b>Cadmium</b>  | 1020                                 |   | 1000 | 102 | 495                                    |   | 500  | 99  | 496                                    |   | 500  | 99  |
| <b>Chromium</b> | 1000                                 |   | 1000 | 100 | 4910                                   |   | 5000 | 98  | 4930                                   |   | 5000 | 99  |
| <b>Lead</b>     | 1050                                 |   | 1000 | 105 | 490                                    |   | 500  | 98  | 497                                    |   | 500  | 99  |
| <b>Selenium</b> | 1020                                 |   | 1000 | 102 | 5080                                   |   | 5000 | 102 | 5100                                   |   | 5000 | 102 |
| <b>Silver</b>   | 979                                  |   | 1000 | 98  | 487                                    |   | 500  | 97  | 488                                    |   | 500  | 98  |

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



2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00112

| Analyte         | CCV 680-278301/157<br>05/29/2013 01:11 |   |      |     |       |   |      |    |       |   |      |    |
|-----------------|--|---|------|-----|-------|---|------|----|-------|---|------|----|
|                 | Found                                  | C | True | %R  | Found | C | True | %R | Found | C | True | %R |
| <b>Arsenic</b>  | 491                                    |   | 500  | 98  |       |   |      |    |       |   |      |    |
| <b>Barium</b>   | 4700                                   |   | 5000 | 94  |       |   |      |    |       |   |      |    |
| <b>Cadmium</b>  | 485                                    |   | 500  | 97  |       |   |      |    |       |   |      |    |
| <b>Chromium</b> | 4820                                   |   | 5000 | 96  |       |   |      |    |       |   |      |    |
| <b>Lead</b>     | 483                                    |   | 500  | 97  |       |   |      |    |       |   |      |    |
| <b>Selenium</b> | 5040                                   |   | 5000 | 101 |       |   |      |    |       |   |      |    |
| <b>Silver</b>   | 482                                    |   | 500  | 96  |       |   |      |    |       |   |      |    |

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00112

| Analyte         | ICV 680-278654/4<br>05/30/2013 13:22 |   |      |     | CCV 680-278654/24<br>05/30/2013 15:03 |   |      |    | CCV 680-278654/36<br>05/30/2013 15:58 |   |      |    |
|-----------------|--------------------------------------|---|------|-----|---------------------------------------|---|------|----|---------------------------------------|---|------|----|
|                 | Found                                | C | True | %R  | Found                                 | C | True | %R | Found                                 | C | True | %R |
| <b>Arsenic</b>  | 1030                                 |   | 1000 | 103 | 476                                   |   | 500  | 95 | 490                                   |   | 500  | 98 |
| <b>Barium</b>   | 1010                                 |   | 1000 | 101 | 4870                                  |   | 5000 | 97 | 4870                                  |   | 5000 | 97 |
| <b>Cadmium</b>  | 1010                                 |   | 1000 | 101 | 488                                   |   | 500  | 98 | 487                                   |   | 500  | 97 |
| <b>Chromium</b> | 996                                  |   | 1000 | 100 | 4880                                  |   | 5000 | 98 | 4880                                  |   | 5000 | 98 |
| <b>Lead</b>     | 1040                                 |   | 1000 | 104 | 486                                   |   | 500  | 97 | 489                                   |   | 500  | 98 |
| <b>Selenium</b> | 1010                                 |   | 1000 | 101 | 4870                                  |   | 5000 | 97 | 4890                                  |   | 5000 | 98 |
| <b>Silver</b>   | 982                                  |   | 1000 | 98  | 484                                   |   | 500  | 97 | 484                                   |   | 500  | 97 |

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00112

| Analyte         | CCV 680-278654/48<br>05/30/2013 16:53 |   |      |    | CCV 680-278654/144<br>05/31/2013 00:23 |   |      |    | CCV 680-278654/156<br>05/31/2013 01:18 |   |      |    |
|-----------------|---------------------------------------|---|------|----|--|---|------|----|--|---|------|----|
|                 | Found                                 | C | True | %R | Found                                  | C | True | %R | Found                                  | C | True | %R |
| <b>Arsenic</b>  | 472                                   |   | 500  | 94 | 471                                    |   | 500  | 94 | 475                                    |   | 500  | 95 |
| <b>Barium</b>   | 4810                                  |   | 5000 | 96 | 4720                                   |   | 5000 | 94 | 4700                                   |   | 5000 | 94 |
| <b>Cadmium</b>  | 482                                   |   | 500  | 96 | 478                                    |   | 500  | 96 | 474                                    |   | 500  | 95 |
| <b>Chromium</b> | 4830                                  |   | 5000 | 97 | 4780                                   |   | 5000 | 96 | 4760                                   |   | 5000 | 95 |
| <b>Lead</b>     | 482                                   |   | 500  | 96 | 474                                    |   | 500  | 95 | 474                                    |   | 500  | 95 |
| <b>Selenium</b> | 4860                                  |   | 5000 | 97 | 4830                                   |   | 5000 | 97 | 4800                                   |   | 5000 | 96 |
| <b>Silver</b>   | 479                                   |   | 500  | 96 | 479                                    |   | 500  | 96 | 475                                    |   | 500  | 95 |

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00112

| Analyte         | CCV 680-278654/168<br>05/31/2013 02:14 |   |      |    |       |   |      |    |       |   |      |    |
|-----------------|--|---|------|----|-------|---|------|----|-------|---|------|----|
|                 | Found                                  | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| <b>Arsenic</b>  | 477                                    |   | 500  | 95 |       |   |      |    |       |   |      |    |
| <b>Barium</b>   | 4720                                   |   | 5000 | 94 |       |   |      |    |       |   |      |    |
| <b>Cadmium</b>  | 477                                    |   | 500  | 95 |       |   |      |    |       |   |      |    |
| <b>Chromium</b> | 4790                                   |   | 5000 | 96 |       |   |      |    |       |   |      |    |
| <b>Lead</b>     | 475                                    |   | 500  | 95 |       |   |      |    |       |   |      |    |
| <b>Selenium</b> | 4840                                   |   | 5000 | 97 |       |   |      |    |       |   |      |    |
| <b>Silver</b>   | 481                                    |   | 500  | 96 |       |   |      |    |       |   |      |    |

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

| Analyte        | ICV 680-278118/31-A<br>05/30/2013 12:30 |   |      |     | CCV 680-278118/28-A<br>05/30/2013 12:37 |   |      |     | CCV 680-278118/28-A<br>05/30/2013 13:07 |   |      |     |
|----------------|---|---|------|-----|---|---|------|-----|---|---|------|-----|
|                | Found                                   | C | True | %R  | Found                                   | C | True | %R  | Found                                   | C | True | %R  |
| <b>Mercury</b> | 3.02                                    |   | 3.00 | 101 | 2.56                                    |   | 2.50 | 102 | 2.82                                    |   | 2.50 | 113 |

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

| Analyte        | CCV 680-278118/28-A<br>05/30/2013 13:36 |   |      |     |       |   |      |    |       |   |      |    |
|----------------|---|---|------|-----|-------|---|------|----|-------|---|------|----|
|                | Found                                   | C | True | %R  | Found | C | True | %R | Found | C | True | %R |
| <b>Mercury</b> | 2.64                                    |   | 2.50 | 105 |       |   |      |    |       |   |      |    |

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

| Analyte        | ICV 680-278298/20-A<br>05/30/2013 18:35 |   |      |     | CCV 680-278298/17-A<br>05/30/2013 18:43 |   |      |     | CCV 680-278298/17-A<br>05/30/2013 19:15 |   |      |     |
|----------------|---|---|------|-----|---|---|------|-----|---|---|------|-----|
|                | Found                                   | C | True | %R  | Found                                   | C | True | %R  | Found                                   | C | True | %R  |
| <b>Mercury</b> | 3.08                                    |   | 3.00 | 103 | 2.63                                    |   | 2.50 | 105 | 2.60                                    |   | 2.50 | 104 |

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

| Analyte        | ICV 680-278513/35-A<br>05/31/2013 17:50 |   |      |     | CCV 680-278513/32-A<br>05/31/2013 17:57 |   |      |     | CCV 680-278513/32-A<br>05/31/2013 18:29 |   |      |     |
|----------------|---|---|------|-----|---|---|------|-----|---|---|------|-----|
|                | Found                                   | C | True | %R  | Found                                   | C | True | %R  | Found                                   | C | True | %R  |
| <b>Mercury</b> | 2.99                                    |   | 3.00 | 100 | 2.57                                    |   | 2.50 | 103 | 2.64                                    |   | 2.50 | 106 |

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



2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

| Analyte        | CCV 680-278513/32-A<br>05/31/2013 19:00 |   |      |     | CCV 680-278513/32-A<br>05/31/2013 19:32 |   |      |     |       |   |      |    |
|----------------|---|---|------|-----|---|---|------|-----|-------|---|------|----|
|                | Found                                   | C | True | %R  | Found                                   | C | True | %R  | Found | C | True | %R |
| <b>Mercury</b> | 2.60                                    |   | 2.50 | 104 | 2.59                                    |   | 2.50 | 104 |       |   |      |    |

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

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Method: 200.7 Rev 4.4 Instrument ID: ICPE  
 Lab Sample ID: CRI 680-278301/7 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00024

| Analyte  | CRQL Check Standard |       |            |       |        |
|----------|---------------------|-------|------------|-------|--------|
|          | True                | Found | Qualifiers | %R(1) | Limits |
| Arsenic  | 20.0                | 18.6  | J          | 93    | 50-150 |
| Barium   | 10.0                | 10.8  |            | 108   | 50-150 |
| Cadmium  | 5.00                | 5.30  |            | 106   | 50-150 |
| Chromium | 10.0                | 10.9  |            | 109   | 50-150 |
| Lead     | 10.0                | 10.4  |            | 104   | 50-150 |
| Selenium | 20.0                | 20.9  |            | 104   | 50-150 |
| Silver   | 10.0                | 10.1  |            | 101   | 50-150 |

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

FORM IIB-IN

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Method: 6010C Instrument ID: ICPE  
 Lab Sample ID: CRI 680-278654/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00024

| Analyte  | CRQL Check Standard |       |            |       |        |
|----------|---------------------|-------|------------|-------|--------|
|          | True                | Found | Qualifiers | %R(1) | Limits |
| Arsenic  | 20.0                | 20.4  |            | 102   | 50-150 |
| Barium   | 10.0                | 10.7  |            | 107   | 50-150 |
| Cadmium  | 5.00                | 5.25  |            | 105   | 50-150 |
| Chromium | 10.0                | 10.3  |            | 103   | 50-150 |
| Lead     | 10.0                | 8.69  | J          | 87    | 50-150 |
| Selenium | 20.0                | 18.9  | J          | 95    | 50-150 |
| Silver   | 10.0                | 9.64  | J          | 96    | 50-150 |

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

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Method: 245.1 Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-278298/22-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00092

| Analyte | CRQL Check Standard |       |            |       |        |
|---------|---------------------|-------|------------|-------|--------|
|         | True                | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200               | 0.184 | J          | 92    | 50-150 |

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

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Method: 7471B Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-278118/33-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00092

| Analyte | CRQL Check Standard |       |            |       |        |
|---------|---------------------|-------|------------|-------|--------|
|         | True                | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200               | 0.180 | J          | 90    | 50-150 |

Lab Sample ID: CRA 680-278513/37-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00092

| Analyte | CRQL Check Standard |       |            |       |        |
|---------|---------------------|-------|------------|-------|--------|
|         | True                | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200               | 0.209 |            | 104   | 50-150 |

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

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: ug/L

| Analyte         | RL  | ICBIS 680-278301/6<br>05/28/2013 13:22 |   | CCB 680-278301/134<br>05/28/2013 23:25 |   | CCB 680-278301/146<br>05/29/2013 00:20 |   | CCB 680-278301/158<br>05/29/2013 01:16 |   |
|-----------------|-----|--|---|--|---|--|---|--|---|
|                 |     | Found                                  | C | Found                                  | C | Found                                  | C | Found                                  | C |
| <b>Arsenic</b>  | 20  | 20                                     | U | 20                                     | U | 20                                     | U | 20                                     | U |
| <b>Barium</b>   | 10  | 10                                     | U | 10                                     | U | 10                                     | U | 10                                     | U |
| <b>Cadmium</b>  | 5.0 | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Chromium</b> | 10  | 10                                     | U | 10                                     | U | 10                                     | U | 10                                     | U |
| <b>Lead</b>     | 10  | 10                                     | U | 10                                     | U | 10                                     | U | 10                                     | U |
| <b>Selenium</b> | 20  | 20                                     | U | 20                                     | U | 20                                     | U | 20                                     | U |
| <b>Silver</b>   | 10  | 10                                     | U | 10                                     | U | 10                                     | U | 10                                     | U |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: ug/L

| Analyte         | RL  | ICBIS 680-278654/5<br>05/30/2013 13:26 |   | CCB 680-278654/25<br>05/30/2013 15:08 |   | CCB 680-278654/37<br>05/30/2013 16:03 |   | CCB 680-278654/49<br>05/30/2013 16:58 |   |
|-----------------|-----|--|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
|                 |     | Found                                  | C | Found                                 | C | Found                                 | C | Found                                 | C |
| <b>Arsenic</b>  | 20  | 20                                     | U | 20                                    | U | 20                                    | U | 20                                    | U |
| <b>Barium</b>   | 10  | 10                                     | U | 10                                    | U | 10                                    | U | 10                                    | U |
| <b>Cadmium</b>  | 5.0 | 5.0                                    | U | 5.0                                   | U | 5.0                                   | U | 5.0                                   | U |
| <b>Chromium</b> | 10  | 10                                     | U | 10                                    | U | 10                                    | U | 10                                    | U |
| <b>Lead</b>     | 10  | 10                                     | U | 10                                    | U | 10                                    | U | 10                                    | U |
| <b>Selenium</b> | 25  | 25                                     | U | 25                                    | U | 25                                    | U | 25                                    | U |
| <b>Silver</b>   | 10  | 10                                     | U | 10                                    | U | 10                                    | U | 10                                    | U |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: ug/L

| Analyte         | RL  | CCB 680-278654/145<br>05/31/2013 00:28 |   | CCB 680-278654/157<br>05/31/2013 01:23 |   | CCB 680-278654/169<br>05/31/2013 02:19 |   | Found | C |
|-----------------|-----|--|---|--|---|--|---|-------|---|
|                 |     | Found                                  | C | Found                                  | C | Found                                  | C |       |   |
| <b>Arsenic</b>  | 20  | 20                                     | U | 20                                     | U | 20                                     | U |       |   |
| <b>Barium</b>   | 10  | 10                                     | U | 10                                     | U | 10                                     | U |       |   |
| <b>Cadmium</b>  | 5.0 | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |       |   |
| <b>Chromium</b> | 10  | 10                                     | U | 10                                     | U | 10                                     | U |       |   |
| <b>Lead</b>     | 10  | 10                                     | U | 10                                     | U | 10                                     | U |       |   |
| <b>Selenium</b> | 25  | 25                                     | U | 25                                     | U | 25                                     | U |       |   |
| <b>Silver</b>   | 10  | 10                                     | U | 10                                     | U | 10                                     | U |       |   |

Italicized analytes were not requested for this sequence.



3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: ug/L

| Analyte        | RL   | ICB 680-278118/32-A<br>05/30/2013 12:32 |   | CCB 680-278118/29-A<br>05/30/2013 12:40 |   | CCB 680-278118/29-A<br>05/30/2013 13:09 |   | CCB 680-278118/29-A<br>05/30/2013 13:39 |   |
|----------------|------|---|---|---|---|---|---|---|---|
|                |      | Found                                   | C | Found                                   | C | Found                                   | C | Found                                   | C |
| <b>Mercury</b> | 0.20 | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: ug/L

| Analyte        | RL   | ICB 680-278298/21-A<br>05/30/2013 18:38 |   | CCB 680-278298/18-A<br>05/30/2013 18:46 |   | CCB 680-278298/18-A<br>05/30/2013 19:17 |   | Found | C |
|----------------|------|---|---|---|---|---|---|-------|---|
|                |      | Found                                   | C | Found                                   | C | Found                                   | C |       |   |
| <b>Mercury</b> | 0.20 | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U |       |   |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: ug/L

| Analyte        | RL   | ICB 680-278513/36-A<br>05/31/2013 17:52 |   | CCB 680-278513/33-A<br>05/31/2013 18:00 |   | CCB 680-278513/33-A<br>05/31/2013 18:31 |   | CCB 680-278513/33-A<br>05/31/2013 19:03 |   |
|----------------|------|---|---|---|---|---|---|---|---|
|                |      | Found                                   | C | Found                                   | C | Found                                   | C | Found                                   | C |
| <b>Mercury</b> | 0.20 | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: ug/L

| Analyte        | RL   | CCB 680-278513/33-A<br>05/31/2013 19:35 |   | Found | C | Found | C | Found | C |
|----------------|------|---|---|-------|---|-------|---|-------|---|
|                |      | Found                                   | C |       |   |       |   |       |   |
| <b>Mercury</b> | 0.20 | 0.20                                    | U |       |   |       |   |       |   |

*Italicized analytes were not requested for this sequence.*

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
SDG No.: 68090622-3  
Concentration Units: ug/L Lab Sample ID: MB 680-278125/1-A  
Instrument Code: ICPE Batch No.: 278301

| CAS No.   | Analyte  | Concentration | C | Q | Method    |
|-----------|----------|---------------|---|---|-----------|
| 7440-38-2 | Arsenic  | 20            | U |   | 200.7_CWA |
| 7440-39-3 | Barium   | 10            | U |   | 200.7_CWA |
| 7440-43-9 | Cadmium  | 5.0           | U |   | 200.7_CWA |
| 7440-47-3 | Chromium | 10            | U |   | 200.7_CWA |
| 7439-92-1 | Lead     | 10            | U |   | 200.7_CWA |
| 7782-49-2 | Selenium | 20            | U |   | 200.7_CWA |
| 7440-22-4 | Silver   | 10            | U |   | 200.7_CWA |

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
SDG No.: 68090622-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-278184/1-A  
Instrument Code: ICPE Batch No.: 278654

| CAS No.   | Analyte  | Concentration | C | Q | Method |
|-----------|----------|---------------|---|---|--------|
| 7440-38-2 | Arsenic  | 2.0           | U |   | 6010C  |
| 7440-39-3 | Barium   | 1.0           | U |   | 6010C  |
| 7440-43-9 | Cadmium  | 0.50          | U |   | 6010C  |
| 7440-47-3 | Chromium | 1.0           | U |   | 6010C  |
| 7439-92-1 | Lead     | 1.0           | U |   | 6010C  |
| 7782-49-2 | Selenium | 2.5           | U |   | 6010C  |
| 7440-22-4 | Silver   | 1.0           | U |   | 6010C  |

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Concentration Units: mg/Kg Lab Sample ID: MB 680-278504/1-A

Instrument Code: ICPE Batch No.: 278654

| CAS No.   | Analyte  | Concentration | C | Q | Method |
|-----------|----------|---------------|---|---|--------|
| 7440-38-2 | Arsenic  | 2.0           | U |   | 6010C  |
| 7440-39-3 | Barium   | 0.98          | U |   | 6010C  |
| 7440-43-9 | Cadmium  | 0.49          | U |   | 6010C  |
| 7440-47-3 | Chromium | 0.98          | U |   | 6010C  |
| 7439-92-1 | Lead     | 0.98          | U |   | 6010C  |
| 7782-49-2 | Selenium | 2.5           | U |   | 6010C  |
| 7440-22-4 | Silver   | 0.98          | U |   | 6010C  |

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
SDG No.: 68090622-3  
Concentration Units: ug/L Lab Sample ID: MB 680-278298/1-A  
Instrument Code: LEEMAN2 Batch No.: 278688

| CAS No.   | Analyte | Concentration | C | Q | Method |
|-----------|---------|---------------|---|---|--------|
| 7439-97-6 | Mercury | 0.20          | U |   | 245.1  |



3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
SDG No.: 68090622-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-278204/1-A  
Instrument Code: LEEMAN2 Batch No.: 278549

| CAS No.   | Analyte | Concentration | C | Q | Method |
|-----------|---------|---------------|---|---|--------|
| 7439-97-6 | Mercury | 0.017         | U |   | 7471B  |

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
SDG No.: 68090622-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-278555/1-A  
Instrument Code: LEEMAN2 Batch No.: 278834

| CAS No.   | Analyte | Concentration | C | Q | Method |
|-----------|---------|---------------|---|---|--------|
| 7439-97-6 | Mercury | 0.020         | U |   | 7471B  |

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Lab Sample ID: ICSA 680-278301/8

Instrument ID: ICPE

Lab File ID: E05282013AFIN.csv

ICS Source: P\_ICSA\_wk\_00032

Concentration Units: ug/L

| Analyte           | True<br>Solution A | Found<br>Solution A | Percent<br>Recovery |
|-------------------|--------------------|---------------------|---------------------|
| <b>Arsenic</b>    |                    | <b>6.67</b>         |                     |
| <b>Barium</b>     |                    | <b>1.99</b>         |                     |
| <b>Cadmium</b>    |                    | <b>1.82</b>         |                     |
| <b>Chromium</b>   |                    | <b>0.553</b>        |                     |
| <b>Lead</b>       |                    | <b>1.71</b>         |                     |
| <b>Selenium</b>   |                    | <b>-5.66</b>        |                     |
| <b>Silver</b>     |                    | <b>-0.187</b>       |                     |
| <i>Aluminum</i>   | <i>500000</i>      | <i>522185</i>       | <i>104</i>          |
| <i>Antimony</i>   |                    | <i>10.7</i>         |                     |
| <i>Beryllium</i>  |                    | <i>-0.111</i>       |                     |
| <i>Boron</i>      |                    | <i>13.7</i>         |                     |
| <i>Calcium</i>    | <i>500000</i>      | <i>483301</i>       | <i>97</i>           |
| <i>Cobalt</i>     |                    | <i>-0.338</i>       |                     |
| <i>Copper</i>     |                    | <i>1.57</i>         |                     |
| <i>Iron</i>       | <i>200000</i>      | <i>185919</i>       | <i>93</i>           |
| <i>Magnesium</i>  | <i>500000</i>      | <i>513822</i>       | <i>103</i>          |
| <i>Manganese</i>  |                    | <i>0.203</i>        |                     |
| <i>Molybdenum</i> |                    | <i>2.64</i>         |                     |
| <i>Nickel</i>     |                    | <i>4.92</i>         |                     |
| <i>Potassium</i>  |                    | <i>1.62</i>         |                     |
| <i>Sodium</i>     |                    | <i>-128</i>         |                     |
| <i>Strontium</i>  |                    | <i>3.03</i>         |                     |
| <i>Thallium</i>   |                    | <i>-0.348</i>       |                     |
| <i>Tin</i>        |                    | <i>-4.56</i>        |                     |
| <i>Titanium</i>   |                    | <i>2.06</i>         |                     |
| <i>Vanadium</i>   |                    | <i>1.30</i>         |                     |
| <i>Zinc</i>       |                    | <i>23.9</i>         |                     |

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Lab Sample ID: ICSAB 680-278301/9

Instrument ID: ICPE

Lab File ID: E05282013AFIN.csv

ICS Source: P\_ICSAB\_wk\_00045

Concentration Units: ug/L

| Analyte           | True          | Found         | Percent Recovery |
|-------------------|---------------|---------------|------------------|
|                   | Solution AB   | Solution AB   |                  |
| <b>Arsenic</b>    | <b>100</b>    | <b>119</b>    | <b>119</b>       |
| <b>Barium</b>     | <b>500</b>    | <b>523</b>    | <b>105</b>       |
| <b>Cadmium</b>    | <b>1000</b>   | <b>998</b>    | <b>100</b>       |
| <b>Chromium</b>   | <b>500</b>    | <b>509</b>    | <b>102</b>       |
| <b>Lead</b>       | <b>50.0</b>   | <b>53.6</b>   | <b>107</b>       |
| <b>Selenium</b>   | <b>50.0</b>   | <b>44.7</b>   | <b>89</b>        |
| <b>Silver</b>     | <b>200</b>    | <b>221</b>    | <b>111</b>       |
| <i>Aluminum</i>   | <i>500000</i> | <i>544970</i> | <i>109</i>       |
| <i>Antimony</i>   | <i>600</i>    | <i>639</i>    | <i>106</i>       |
| <i>Beryllium</i>  | <i>500</i>    | <i>503</i>    | <i>101</i>       |
| <i>Boron</i>      |               | <i>11.2</i>   |                  |
| <i>Calcium</i>    | <i>500000</i> | <i>499120</i> | <i>100</i>       |
| <i>Cobalt</i>     | <i>500</i>    | <i>496</i>    | <i>99</i>        |
| <i>Copper</i>     | <i>500</i>    | <i>561</i>    | <i>112</i>       |
| <i>Iron</i>       | <i>200000</i> | <i>193456</i> | <i>97</i>        |
| <i>Magnesium</i>  | <i>500000</i> | <i>535968</i> | <i>107</i>       |
| <i>Manganese</i>  | <i>500</i>    | <i>524</i>    | <i>105</i>       |
| <i>Molybdenum</i> | <i>1000</i>   | <i>1149</i>   | <i>115</i>       |
| <i>Nickel</i>     | <i>1000</i>   | <i>982</i>    | <i>98</i>        |
| <i>Potassium</i>  |               | <i>3.14</i>   |                  |
| <i>Sodium</i>     |               | <i>-207</i>   |                  |
| <i>Strontium</i>  |               | <i>2.22</i>   |                  |
| <i>Thallium</i>   | <i>100</i>    | <i>94.8</i>   | <i>95</i>        |
| <i>Tin</i>        | <i>1000</i>   | <i>1048</i>   | <i>105</i>       |
| <i>Titanium</i>   |               | <i>3.15</i>   |                  |
| <i>Vanadium</i>   | <i>500</i>    | <i>511</i>    | <i>102</i>       |
| <i>Zinc</i>       | <i>1000</i>   | <i>983</i>    | <i>98</i>        |

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Lab Sample ID: ICSA 680-278654/7 Instrument ID: ICPE  
 Lab File ID: E05302013FIN.csv ICS Source: P\_ICSA\_wk\_00032  
 Concentration Units: ug/L

| Analyte           | True<br>Solution A | Found<br>Solution A | Percent<br>Recovery |
|-------------------|--------------------|---------------------|---------------------|
| <b>Arsenic</b>    |                    | <b>-6.24</b>        |                     |
| <b>Barium</b>     |                    | <b>4.90</b>         |                     |
| <b>Cadmium</b>    |                    | <b>2.01</b>         |                     |
| <b>Chromium</b>   |                    | <b>0.357</b>        |                     |
| <b>Lead</b>       |                    | <b>-4.20</b>        |                     |
| <b>Selenium</b>   |                    | <b>-6.28</b>        |                     |
| <b>Silver</b>     |                    | <b>-0.159</b>       |                     |
| <i>Aluminum</i>   | <i>500000</i>      | <i>519559</i>       | <i>104</i>          |
| <i>Antimony</i>   |                    | <i>5.01</i>         |                     |
| <i>Beryllium</i>  |                    | <i>-0.109</i>       |                     |
| <i>Boron</i>      |                    | <i>15.1</i>         |                     |
| <i>Calcium</i>    | <i>500000</i>      | <i>483256</i>       | <i>97</i>           |
| <i>Cobalt</i>     |                    | <i>-0.399</i>       |                     |
| <i>Copper</i>     |                    | <i>1.65</i>         |                     |
| <i>Iron</i>       | <i>200000</i>      | <i>184071</i>       | <i>92</i>           |
| <i>Magnesium</i>  | <i>500000</i>      | <i>508750</i>       | <i>102</i>          |
| <i>Manganese</i>  |                    | <i>0.427</i>        |                     |
| <i>Molybdenum</i> |                    | <i>1.34</i>         |                     |
| <i>Nickel</i>     |                    | <i>4.46</i>         |                     |
| <i>Potassium</i>  |                    | <i>3.49</i>         |                     |
| <i>Sodium</i>     |                    | <i>-75.1</i>        |                     |
| <i>Strontium</i>  |                    | <i>3.45</i>         |                     |
| <i>Thallium</i>   |                    | <i>-11.5</i>        |                     |
| <i>Tin</i>        |                    | <i>1.80</i>         |                     |
| <i>Titanium</i>   |                    | <i>1.98</i>         |                     |
| <i>Vanadium</i>   |                    | <i>1.85</i>         |                     |
| <i>Zinc</i>       |                    | <i>21.3</i>         |                     |

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Lab Sample ID: ICSAB 680-278654/8

Instrument ID: ICPE

Lab File ID: E05302013FIN.csv

ICS Source: P\_ICSAB\_wk\_00045

Concentration Units: ug/L

| Analyte           | True          | Found         | Percent Recovery |
|-------------------|---------------|---------------|------------------|
|                   | Solution AB   | Solution AB   |                  |
| <b>Arsenic</b>    | <b>100</b>    | <b>115</b>    | <b>115</b>       |
| <b>Barium</b>     | <b>500</b>    | <b>521</b>    | <b>104</b>       |
| <b>Cadmium</b>    | <b>1000</b>   | <b>974</b>    | <b>97</b>        |
| <b>Chromium</b>   | <b>500</b>    | <b>500</b>    | <b>100</b>       |
| <b>Lead</b>       | <b>50.0</b>   | <b>52.0</b>   | <b>104</b>       |
| <b>Selenium</b>   | <b>50.0</b>   | <b>41.5</b>   | <b>83</b>        |
| <b>Silver</b>     | <b>200</b>    | <b>221</b>    | <b>110</b>       |
| <i>Aluminum</i>   | <i>500000</i> | <i>537823</i> | <i>108</i>       |
| <i>Antimony</i>   | <i>600</i>    | <i>624</i>    | <i>104</i>       |
| <i>Beryllium</i>  | <i>500</i>    | <i>495</i>    | <i>99</i>        |
| <i>Boron</i>      |               | <i>9.51</i>   |                  |
| <i>Calcium</i>    | <i>500000</i> | <i>497900</i> | <i>100</i>       |
| <i>Cobalt</i>     | <i>500</i>    | <i>485</i>    | <i>97</i>        |
| <i>Copper</i>     | <i>500</i>    | <i>562</i>    | <i>112</i>       |
| <i>Iron</i>       | <i>200000</i> | <i>190177</i> | <i>95</i>        |
| <i>Magnesium</i>  | <i>500000</i> | <i>525197</i> | <i>105</i>       |
| <i>Manganese</i>  | <i>500</i>    | <i>517</i>    | <i>103</i>       |
| <i>Molybdenum</i> | <i>1000</i>   | <i>1129</i>   | <i>113</i>       |
| <i>Nickel</i>     | <i>1000</i>   | <i>966</i>    | <i>97</i>        |
| <i>Potassium</i>  |               | <i>4.20</i>   |                  |
| <i>Sodium</i>     |               | <i>-238</i>   |                  |
| <i>Strontium</i>  |               | <i>2.65</i>   |                  |
| <i>Thallium</i>   | <i>100</i>    | <i>92.8</i>   | <i>93</i>        |
| <i>Tin</i>        | <i>1000</i>   | <i>1020</i>   | <i>102</i>       |
| <i>Titanium</i>   |               | <i>3.13</i>   |                  |
| <i>Vanadium</i>   | <i>500</i>    | <i>505</i>    | <i>101</i>       |
| <i>Zinc</i>       | <i>1000</i>   | <i>962</i>    | <i>96</i>        |

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

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0626B-CS MS

Lab ID: 680-90622-13 MS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 79.1

| Analyte  | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method |
|----------|----------|----------------------------|---------------------|-----|------------------------|---|--------|
| Arsenic  | 42.0     | 26                         | 12.6                | 123 | 75-125                 |   | 6010C  |
| Barium   | 317      | 260                        | 12.6                | 471 | 75-125                 | 4 | 6010C  |
| Cadmium  | 7.25     | 1.0                        | 6.32                | 98  | 75-125                 |   | 6010C  |
| Chromium | 53.7     | 40                         | 12.6                | 107 | 75-125                 |   | 6010C  |
| Lead     | 306      | 260                        | 6.32                | 739 | 75-125                 | 4 | 6010C  |
| Selenium | 12.9     | 3.1 U                      | 12.6                | 102 | 75-125                 |   | 6010C  |
| Silver   | 6.11     | 1.3 U                      | 6.32                | 97  | 75-125                 |   | 6010C  |
| Mercury  | 0.390    | 0.33                       | 0.122               | 50  | 80-120                 | F | 7471B  |

SSR = Spiked Sample Result

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

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: 052113-RB-Shovel MS

Lab ID: 680-90622-15 MS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Water

Concentration Units: ug/L

% Solids: \_\_\_\_\_

| Analyte  | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method        |
|----------|----------|----------------------------|---------------------|-----|------------------------|---|---------------|
| Arsenic  | 110      | 20 U                       | 100                 | 110 | 75-125                 |   | 200.7 Rev 4.4 |
| Barium   | 95.9     | 10 U                       | 100                 | 96  | 75-125                 |   | 200.7 Rev 4.4 |
| Cadmium  | 50.6     | 5.0 U                      | 50.0                | 101 | 75-125                 |   | 200.7 Rev 4.4 |
| Chromium | 100      | 10 U                       | 100                 | 100 | 75-125                 |   | 200.7 Rev 4.4 |
| Lead     | 48.5     | 10 U                       | 50.0                | 97  | 75-125                 |   | 200.7 Rev 4.4 |
| Selenium | 104      | 20 U                       | 100                 | 104 | 75-125                 |   | 200.7 Rev 4.4 |
| Silver   | 49.8     | 10 U                       | 50.0                | 100 | 75-125                 |   | 200.7 Rev 4.4 |

SSR = Spiked Sample Result

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



5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0828B-CS-SP MS

Lab ID: 680-90622-30 MS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 75.6

| Analyte  | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R   | Control<br>Limit<br>%R | Q | Method |
|----------|----------|----------------------------|---------------------|------|------------------------|---|--------|
| Arsenic  | 46.6     | 33                         | 13.0                | 106  | 75-125                 |   | 6010C  |
| Barium   | 359      | 290                        | 13.0                | 497  | 75-125                 | 4 | 6010C  |
| Cadmium  | 14.1     | 1.5                        | 6.48                | 195  | 75-125                 | F | 6010C  |
| Chromium | 71.0     | 54                         | 13.0                | 131  | 75-125                 | 4 | 6010C  |
| Lead     | 380      | 310                        | 6.48                | 1047 | 75-125                 | 4 | 6010C  |
| Selenium | 13.6     | 1.4                        | J 13.0              | 95   | 75-125                 |   | 6010C  |
| Silver   | 6.56     | 0.27                       | J 6.48              | 97   | 75-125                 |   | 6010C  |
| Mercury  | 0.375    | 0.16                       | 0.125               | 174  | 80-120                 | F | 7471B  |

SSR = Spiked Sample Result

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

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: \_\_\_\_\_ Lab ID: 680-90557-C-1-D MS  
 Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

| Analyte | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R | Control<br>Limit<br>%R | Q | Method |
|---------|----------|----------------------------|---------------------|----|------------------------|---|--------|
| Mercury | 0.20 U   | 0.20 U                     | 1.00                | 0  | 70-130                 | F | 245.1  |

SSR = Spiked Sample Result

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

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: CV0626B-CS MSD Lab ID: 680-90622-13 MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Matrix: Solid Concentration Units: mg/Kg  
 % Solids: 79.1

| Analyte  | (SDR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | RPD | RPD<br>Limit | Q | Method |
|----------|------------|---------------------|-----|------------------------|-----|--------------|---|--------|
| Arsenic  | 40.5       | 12.6                | 111 | 75-125                 | 4   | 20           |   | 6010C  |
| Barium   | 302        | 12.6                | 355 | 75-125                 | 5   | 20           | 4 | 6010C  |
| Cadmium  | 6.99       | 6.32                | 94  | 75-125                 | 4   | 20           |   | 6010C  |
| Chromium | 51.8       | 12.6                | 92  | 75-125                 | 4   | 20           |   | 6010C  |
| Lead     | 282        | 6.32                | 355 | 75-125                 | 8   | 20           | 4 | 6010C  |
| Selenium | 13.0       | 12.6                | 103 | 75-125                 | 1   | 20           |   | 6010C  |
| Silver   | 6.10       | 6.32                | 96  | 75-125                 | 0   | 20           |   | 6010C  |
| Mercury  | 0.364      | 0.107               | 33  | 80-120                 | 7   | 20           | F | 7471B  |

SDR = Sample Duplicate Result

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

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: 052113-RB-Shovel MSD

Lab ID: 680-90622-15 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Water

Concentration Units: ug/L

% Solids: \_\_\_\_\_

| Analyte  | (SDR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | RPD | RPD<br>Limit | Q | Method        |
|----------|------------|---------------------|-----|------------------------|-----|--------------|---|---------------|
| Arsenic  | 106        | 100                 | 106 | 75-125                 | 4   | 20           |   | 200.7 Rev 4.4 |
| Barium   | 96.6       | 100                 | 97  | 75-125                 | 1   | 20           |   | 200.7 Rev 4.4 |
| Cadmium  | 51.0       | 50.0                | 102 | 75-125                 | 1   | 20           |   | 200.7 Rev 4.4 |
| Chromium | 101        | 100                 | 101 | 75-125                 | 1   | 20           |   | 200.7 Rev 4.4 |
| Lead     | 51.9       | 50.0                | 104 | 75-125                 | 7   | 20           |   | 200.7 Rev 4.4 |
| Selenium | 97.0       | 100                 | 97  | 75-125                 | 7   | 20           |   | 200.7 Rev 4.4 |
| Silver   | 49.8       | 50.0                | 100 | 75-125                 | 0   | 20           |   | 200.7 Rev 4.4 |

SDR = Sample Duplicate Result

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

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: CV0828B-CS-SP MSD

Lab ID: 680-90622-30 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 75.6

| Analyte  | (SDR)<br>C | Spike<br>Added (SA) | %R   | Control<br>Limit<br>%R | RPD | RPD<br>Limit | Q   | Method |
|----------|------------|---------------------|------|------------------------|-----|--------------|-----|--------|
| Arsenic  | 54.7       | 13.1                | 167  | 75-125                 | 16  | 20           | F   | 6010C  |
| Barium   | 842        | 13.1                | 4181 | 75-125                 | 80  | 20           | 4 F | 6010C  |
| Cadmium  | 7.73       | 6.55                | 96   | 75-125                 | 59  | 20           | F   | 6010C  |
| Chromium | 83.5       | 13.1                | 225  | 75-125                 | 16  | 20           | 4   | 6010C  |
| Lead     | 354        | 6.55                | 634  | 75-125                 | 7   | 20           | 4   | 6010C  |
| Selenium | 13.1       | 13.1                | 90   | 75-125                 | 4   | 20           |     | 6010C  |
| Silver   | 6.50       | 6.55                | 95   | 75-125                 | 1   | 20           |     | 6010C  |
| Mercury  | 0.322      | 0.120               | 136  | 80-120                 | 15  | 20           | F   | 7471B  |

SDR = Sample Duplicate Result

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

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: \_\_\_\_\_ Lab ID: 680-90557-C-1-E MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
 SDG No.: 68090622-3  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

| Analyte | (SDR) |   | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---------|-------|---|------------------|----|------------------|-----|-----------|---|--------|
| Mercury | 0.20  | U | 1.00             | 0  | 70-130           | NC  | 20        | F | 245.1  |

SDR = Sample Duplicate Result

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

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0626B-CS PDS

Lab ID: 680-90622-13 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Solid

Concentration Units: mg/Kg

| Analyte  | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method |
|----------|----------|----------------------------|---------------------|-----|------------------------|---|--------|
| Arsenic  | 305      | 26                         | 250                 | 111 | 75-125                 |   | 6010C  |
| Barium   | 498      | 260                        | 250                 | 96  | 75-125                 |   | 6010C  |
| Cadmium  | 7.08     | 1.0                        | 6.26                | 97  | 75-125                 |   | 6010C  |
| Chromium | 64.1     | 40                         | 25.0                | 95  | 75-125                 |   | 6010C  |
| Lead     | 315      | 260                        | 62.6                | 90  | 75-125                 |   | 6010C  |
| Selenium | 267      | 3.1                        | 250                 | 107 | 75-125                 |   | 6010C  |
| Silver   | 6.47     | 1.3                        | 6.26                | 103 | 75-125                 |   | 6010C  |

SSR = Spiked Sample Result

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

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: 052113-RB-Shovel PDS

Lab ID: 680-90622-15 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Water

Concentration Units: ug/L

| Analyte  | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method        |
|----------|----------|----------------------------|---------------------|-----|------------------------|---|---------------|
| Arsenic  | 2220     | 20 U                       | 2000                | 111 | 75-125                 |   | 200.7 Rev 4.4 |
| Barium   | 1990     | 10 U                       | 2000                | 100 | 75-125                 |   | 200.7 Rev 4.4 |
| Cadmium  | 51.3     | 5.0 U                      | 50.0                | 103 | 75-125                 |   | 200.7 Rev 4.4 |
| Chromium | 203      | 10 U                       | 200                 | 101 | 75-125                 |   | 200.7 Rev 4.4 |
| Lead     | 519      | 10 U                       | 500                 | 104 | 75-125                 |   | 200.7 Rev 4.4 |
| Selenium | 2130     | 20 U                       | 2000                | 107 | 75-125                 |   | 200.7 Rev 4.4 |
| Silver   | 43.8     | 10 U                       | 50.0                | 88  | 75-125                 |   | 200.7 Rev 4.4 |

SSR = Spiked Sample Result

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



5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0828B-CS-SP PDS

Lab ID: 680-90622-30 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Matrix: Solid

Concentration Units: mg/Kg

| Analyte  | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method |
|----------|----------|----------------------------|---------------------|-----|------------------------|---|--------|
| Arsenic  | 315      | 33                         | 262                 | 108 | 75-125                 |   | 6010C  |
| Barium   | 537      | 290                        | 262                 | 92  | 75-125                 |   | 6010C  |
| Cadmium  | 7.63     | 1.5                        | 6.55                | 94  | 75-125                 |   | 6010C  |
| Chromium | 78.6     | 54                         | 26.2                | 94  | 75-125                 |   | 6010C  |
| Lead     | 369      | 310                        | 65.5                | 87  | 75-125                 |   | 6010C  |
| Selenium | 270      | 1.4                        | 262                 | 103 | 75-125                 |   | 6010C  |
| Silver   | 6.67     | 0.27                       | 6.55                | 98  | 75-125                 |   | 6010C  |

SSR = Spiked Sample Result

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

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-278125/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

Sample Matrix: Water

LCS Source: MS\_LCS1\_WK\_00004

| Analyte  | Water (ug/L) |       |   |     |        |     |   |               |
|----------|--------------|-------|---|-----|--------|-----|---|---------------|
|          | True         | Found | C | %R  | Limits |     | Q | Method        |
| Arsenic  | 100          | 108   |   | 108 | 85     | 115 |   | 200.7 Rev 4.4 |
| Barium   | 100          | 97.3  |   | 97  | 85     | 115 |   | 200.7 Rev 4.4 |
| Cadmium  | 50.0         | 51.4  |   | 103 | 85     | 115 |   | 200.7 Rev 4.4 |
| Chromium | 100          | 101   |   | 101 | 85     | 115 |   | 200.7 Rev 4.4 |
| Lead     | 50.0         | 50.0  |   | 100 | 85     | 115 |   | 200.7 Rev 4.4 |
| Selenium | 100          | 98.4  |   | 98  | 85     | 115 |   | 200.7 Rev 4.4 |
| Silver   | 50.0         | 49.7  |   | 99  | 85     | 115 |   | 200.7 Rev 4.4 |

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

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-278184/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

Sample Matrix: Solid

LCS Source: MS\_LCS1\_WK\_00004

| Analyte  | Solid(mg/Kg) |       |   |     |        |     |   |        |
|----------|--------------|-------|---|-----|--------|-----|---|--------|
|          | True         | Found | C | %R  | Limits |     | Q | Method |
| Arsenic  | 9.80         | 10.3  |   | 105 | 75     | 125 |   | 6010C  |
| Barium   | 9.80         | 9.95  |   | 102 | 75     | 125 |   | 6010C  |
| Cadmium  | 4.90         | 5.03  |   | 103 | 75     | 125 |   | 6010C  |
| Chromium | 9.80         | 10.1  |   | 103 | 75     | 125 |   | 6010C  |
| Lead     | 4.90         | 4.85  |   | 99  | 75     | 125 |   | 6010C  |
| Selenium | 9.80         | 10.3  |   | 105 | 75     | 125 |   | 6010C  |
| Silver   | 4.90         | 4.93  |   | 101 | 75     | 125 |   | 6010C  |

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

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-278504/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

Sample Matrix: Solid

LCS Source: MS\_LCS1\_WK\_00004

| Analyte  | Solid(mg/Kg) |       |   |     |        |     |   |        |
|----------|--------------|-------|---|-----|--------|-----|---|--------|
|          | True         | Found | C | %R  | Limits |     | Q | Method |
| Arsenic  | 10.0         | 10.5  |   | 105 | 75     | 125 |   | 6010C  |
| Barium   | 10.0         | 9.64  |   | 96  | 75     | 125 |   | 6010C  |
| Cadmium  | 5.00         | 4.97  |   | 99  | 75     | 125 |   | 6010C  |
| Chromium | 10.0         | 9.93  |   | 99  | 75     | 125 |   | 6010C  |
| Lead     | 5.00         | 4.82  |   | 96  | 75     | 125 |   | 6010C  |
| Selenium | 10.0         | 9.28  |   | 93  | 75     | 125 |   | 6010C  |
| Silver   | 5.00         | 4.93  |   | 99  | 75     | 125 |   | 6010C  |

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

FORM VIIA - IN

7A-IN  
 LAB CONTROL SAMPLE  
 METALS

Lab ID: LCS 680-278298/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

Sample Matrix: Water

LCS Source: Hg\_Int\_Cal\_00092

| Analyte | Water (ug/L) |       |   |     |        |     |   |        |
|---------|--------------|-------|---|-----|--------|-----|---|--------|
|         | True         | Found | C | %R  | Limits |     | Q | Method |
| Mercury | 2.50         | 2.61  |   | 105 | 85     | 115 |   | 245.1  |

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

FORM VIIA - IN

7D-IN  
 LAB CONTROL SAMPLE DUPLICATE  
 METALS

Lab ID: LCSD 680-278298/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

Sample Matrix: Water

LCS Source: Hg\_Int\_Cal\_00092

| Analyte | (SDR) C | Spike Added | %R  | Control Limit %R | RPD | RPD Limit | Q | Method |
|---------|---------|-------------|-----|------------------|-----|-----------|---|--------|
| Mercury | 2.67    | 2.50        | 107 | 85-115           | 2   | 20        |   | 245.1  |

SDR = Spike Duplicate Results

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

FORM VIID - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-278204/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

Sample Matrix: Solid

LCS Source: Hg\_Int\_Cal\_00092

| Analyte | Solid(mg/Kg) |       |   |    |             |   |        |
|---------|--------------|-------|---|----|-------------|---|--------|
|         | True         | Found | C | %R | Limits      | Q | Method |
| Mercury | 0.231        | 0.222 |   | 96 | 80      120 |   | 7471B  |

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

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-278555/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

Sample Matrix: Solid

LCS Source: Hg\_Int\_Cal\_00092

| Analyte | Solid(mg/Kg) |       |   |     |             |   |        |
|---------|--------------|-------|---|-----|-------------|---|--------|
|         | True         | Found | C | %R  | Limits      | Q | Method |
| Mercury | 0.231        | 0.247 |   | 107 | 80      120 |   | 7471B  |

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

FORM VIIA - IN



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

Lab ID: 680-90622-13

SDG No: 68090622-3

Lab Name: TestAmerica Savannah

Job No: 680-90622-3

Matrix: Solid

Concentration Units: mg/Kg

| Analyte  | Initial Sample<br>Result (I) C | Serial<br>Dilution<br>Result (S) C | %<br>Difference | Q | Method |
|----------|--------------------------------|------------------------------------|-----------------|---|--------|
| Arsenic  | 26                             | 32.5                               | NC              |   | 6010C  |
| Barium   | 260                            | 293                                | 14              | V | 6010C  |
| Cadmium  | 1.0                            | 1.07 J                             | NC              |   | 6010C  |
| Chromium | 40                             | 46.2                               | 15              | V | 6010C  |
| Lead     | 260                            | 303                                | 17              | V | 6010C  |
| Selenium | 3.1 U                          | 16 U                               | NC              |   | 6010C  |
| Silver   | 1.3 U                          | 6.3 U                              | NC              |   | 6010C  |

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

FORM VIII-IN

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

Lab ID: 680-90622-15

SDG No: 68090622-3

Lab Name: TestAmerica Savannah

Job No: 680-90622-3

Matrix: Water

Concentration Units: ug/L

| Analyte  | Initial Sample Result (I) |   | Serial Dilution Result (S) |   | % Difference | Q | Method        |
|----------|---------------------------|---|----------------------------|---|--------------|---|---------------|
|          |                           | C |                            | C |              |   |               |
| Arsenic  | 20                        | U | 100                        | U | NC           |   | 200.7 Rev 4.4 |
| Barium   | 10                        | U | 50                         | U | NC           |   | 200.7 Rev 4.4 |
| Cadmium  | 5.0                       | U | 25                         | U | NC           |   | 200.7 Rev 4.4 |
| Chromium | 10                        | U | 50                         | U | NC           |   | 200.7 Rev 4.4 |
| Lead     | 10                        | U | 50                         | U | NC           |   | 200.7 Rev 4.4 |
| Selenium | 20                        | U | 100                        | U | NC           |   | 200.7 Rev 4.4 |
| Silver   | 10                        | U | 50                         | U | NC           |   | 200.7 Rev 4.4 |

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

FORM VIII-IN

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

Lab ID: 680-90622-30

SDG No: 68090622-3

Lab Name: TestAmerica Savannah

Job No: 680-90622-3

Matrix: Solid

Concentration Units: mg/Kg

| Analyte  | Initial Sample<br>Result (I) C | Serial<br>Dilution<br>Result (S) C | %<br>Difference | Q | Method |
|----------|--------------------------------|------------------------------------|-----------------|---|--------|
| Arsenic  | 33                             | 34.4                               | NC              |   | 6010C  |
| Barium   | 290                            | 310                                | 5.1             |   | 6010C  |
| Cadmium  | 1.5                            | 1.29 J                             | NC              |   | 6010C  |
| Chromium | 54                             | 57.3                               | 6.1             |   | 6010C  |
| Lead     | 310                            | 336                                | 7.5             |   | 6010C  |
| Selenium | 1.4 J                          | 16 U                               | NC              |   | 6010C  |
| Silver   | 0.27 J                         | 6.5 U                              | NC              |   | 6010C  |

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

FORM VIII-IN

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-90622-3

SDG Number: 68090622-3

Matrix: Water

Instrument ID: ICPE

Method: 200.7 Rev 4.4

MDL Date: 06/02/2009 00:00

Prep Method: 200.7

| Analyte  | Wavelength/<br>Mass | RL<br>(ug/L) | MDL<br>(ug/L) |
|----------|---------------------|--------------|---------------|
| Arsenic  |                     | 20           | 4.6           |
| Barium   |                     | 10           | 2.3           |
| Cadmium  |                     | 5            | 2             |
| Chromium |                     | 10           | 1.2           |
| Lead     |                     | 10           | 4             |
| Selenium |                     | 20           | 6.4           |
| Silver   |                     | 10           | 0.89          |

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-90622-3

SDG Number: 68090622-3

Matrix: Water

Instrument ID: ICPE

Method: 200.7 Rev 4.4

XMDL Date: 06/02/2009 00:00

| Analyte  | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(ug/L) |
|----------|---------------------|---------------|----------------|
| Arsenic  |                     | 20            | 4.6            |
| Barium   |                     | 10            | 2.3            |
| Cadmium  |                     | 5             | 2              |
| Chromium |                     | 10            | 1.2            |
| Lead     |                     | 10            | 4              |
| Selenium |                     | 20            | 6.4            |
| Silver   |                     | 10            | 0.89           |

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-90622-3

SDG Number: 68090622-3

Matrix: Solid

Instrument ID: ICPE

Method: 6010C

MDL Date: 06/02/2009 00:00

Prep Method: 3050B

| Analyte  | Wavelength/<br>Mass | RL<br>(mg/Kg) | MDL<br>(mg/Kg) |
|----------|---------------------|---------------|----------------|
| Arsenic  |                     | 2             | 0.59           |
| Barium   |                     | 1             | 0.3            |
| Cadmium  |                     | 0.5           | 0.1            |
| Chromium |                     | 1             | 0.5            |
| Lead     |                     | 1             | 0.53           |
| Selenium |                     | 2.5           | 1              |
| Silver   |                     | 1             | 0.096          |

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-90622-3

SDG Number: 68090622-3

Matrix: Solid

Instrument ID: ICPE

Method: 6010C

XMDL Date: 06/02/2009 00:00

| Analyte  | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(ug/L) |
|----------|---------------------|---------------|----------------|
| Arsenic  |                     | 20            | 5.9            |
| Barium   |                     | 10            | 3              |
| Cadmium  |                     | 5             | 1              |
| Chromium |                     | 10            | 5              |
| Lead     |                     | 10            | 5.3            |
| Selenium |                     | 25            | 10             |
| Silver   |                     | 10            | 0.96           |

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-90622-3

SDG Number: 68090622-3

Matrix: Water

Instrument ID: LEEMAN2

Method: 245.1

MDL Date: 06/02/2009 00:00

Prep Method: 245.1

| Analyte | Wavelength/<br>Mass | RL<br>(ug/L) | MDL<br>(ug/L) |
|---------|---------------------|--------------|---------------|
| Mercury |                     | 0.2          | 0.091         |



9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90622-3  
SDG Number: 68090622-3  
Matrix: Water Instrument ID: LEEMAN2  
Method: 245.1 XMDL Date: 06/02/2009 00:00

| Analyte | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(ug/L) |
|---------|---------------------|---------------|----------------|
| Mercury |                     | 0.2           | 0.091          |

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-90622-3

SDG Number: 68090622-3

Matrix: Solid

Instrument ID: LEEMAN2

Method: 7471B

MDL Date: 06/02/2009 00:00

Prep Method: 7471B

| Analyte | Wavelength/<br>Mass | RL<br>(mg/Kg) | MDL<br>(mg/Kg) |
|---------|---------------------|---------------|----------------|
| Mercury |                     | 0.02          | 0.0082         |

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90622-3  
SDG Number: 68090622-3  
Matrix: Solid Instrument ID: LEEMAN2  
Method: 7471B XMDL Date: 06/01/2008 15:53

| Analyte | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(ug/L) |
|---------|---------------------|---------------|----------------|
| Mercury |                     | 0.2           | 0.08           |

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-90622-3

SDG No.: 68090622-3

ICP-AES Instrument ID: ICPE

Date: 03/05/2013

| Analyte    | Wave Length | Ag | Al        | As | B | Ba | Be       | Ca       | Cd        | Co        | Cr       | Cu | Fe        | K | Mg       |
|------------|-------------|----|-----------|----|---|----|----------|----------|-----------|-----------|----------|----|-----------|---|----------|
| Aluminum   | 308.215     |    |           |    |   |    |          |          |           |           |          |    |           |   |          |
| Antimony   | 206.834     |    |           |    |   |    | 0.007900 |          |           |           | 0.009800 |    | 0.000023  |   |          |
| Arsenic    | 188.980     |    |           |    |   |    |          | 0.000037 |           |           |          |    | -0.000016 |   |          |
| Barium     | 389.178     |    |           |    |   |    |          |          |           |           |          |    | 0.000062  |   | 0.000112 |
| Beryllium  | 313.042     |    |           |    |   |    |          |          |           |           |          |    |           |   |          |
| Boron      | 249.678     |    |           |    |   |    |          |          |           |           |          |    | -0.000101 |   |          |
| Cadmium    | 226.502     |    |           |    |   |    |          |          |           |           |          |    | 0.000066  |   |          |
| Calcium    | 370.602     |    |           |    |   |    |          |          |           |           |          |    | -0.025890 |   |          |
| Chromium   | 267.716     |    |           |    |   |    |          |          | -0.000200 |           |          |    | 0.000005  |   |          |
| Cobalt     | 228.615     |    |           |    |   |    |          |          |           |           | 0.000280 |    | -0.000003 |   |          |
| Copper     | 324.754     |    |           |    |   |    |          |          |           |           |          |    | 0.000006  |   |          |
| Iron       | 271.441     |    |           |    |   |    |          |          |           | 0.090560  | 0.001160 |    |           |   |          |
| Lead       | 220.353     |    | -0.000011 |    |   |    |          |          |           | -0.000200 |          |    |           |   |          |
| Magnesium  | 279.078     |    | -0.000142 |    |   |    |          |          |           |           |          |    | 0.000087  |   |          |
| Manganese  | 257.610     |    |           |    |   |    |          |          |           |           |          |    | 0.000012  |   | 0.000025 |
| Molybdenum | 202.032     |    |           |    |   |    |          |          |           |           |          |    | -0.000007 |   |          |
| Nickel     | 231.604     |    |           |    |   |    |          |          |           |           |          |    | 0.000008  |   |          |
| Potassium  | 766.491     |    |           |    |   |    |          |          |           |           |          |    |           |   |          |
| Selenium   | 196.026     |    |           |    |   |    |          |          |           |           |          |    | 0.000012  |   |          |
| Silver     | 328.068     |    |           |    |   |    |          |          |           |           |          |    |           |   |          |
| Sodium     | 330.237     |    |           |    |   |    |          |          |           |           |          |    | -0.005902 |   |          |
| Strontium  | 216.596     |    |           |    |   |    |          | 0.000009 |           |           |          |    | 0.000039  |   |          |
| Thallium   | 190.794     |    |           |    |   |    |          |          |           | 0.000530  |          |    | -0.000052 |   |          |
| Tin        | 189.925     |    |           |    |   |    |          |          |           |           |          |    |           |   |          |
| Titanium   | 334.941     |    |           |    |   |    |          |          |           |           |          |    |           |   |          |
| Vanadium   | 292.401     |    |           |    |   |    |          |          |           |           |          |    | -0.002240 |   |          |
| Zinc       | 206.200     |    |           |    |   |    |          |          |           |           |          |    | -0.001960 |   |          |

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-90622-3

SDG No.: 68090622-3

ICP-AES Instrument ID: ICPE Date: 03/05/2013

| Analyte    | Wave Length | Mn        | Mo        | Na | Ni        | Pb | Sb | Se | Sn        | Sr        | Ti        | Tl        | V         | Zn        |
|------------|-------------|-----------|-----------|----|-----------|----|----|----|-----------|-----------|-----------|-----------|-----------|-----------|
| Aluminum   | 308.215     |           | 0.023030  |    |           |    |    |    |           |           |           |           | -0.003100 |           |
| Antimony   | 206.834     |           | -0.013600 |    |           |    |    |    | 0.000200  |           |           |           |           |           |
| Arsenic    | 188.980     |           | -0.000430 |    |           |    |    |    |           |           |           |           |           |           |
| Barium     | 389.178     |           | 0.000218  |    |           |    |    |    |           |           |           |           | 0.000095  |           |
| Beryllium  | 313.042     |           | -0.000082 |    |           |    |    |    |           |           |           |           | -0.000019 |           |
| Boron      | 249.678     |           |           |    |           |    |    |    |           |           |           |           |           |           |
| Cadmium    | 226.502     |           |           |    |           |    |    |    |           |           |           |           |           |           |
| Calcium    | 370.602     | 0.008800  |           |    |           |    |    |    |           |           | 0.058100  |           | 0.003040  |           |
| Chromium   | 267.716     | 0.000090  |           |    |           |    |    |    |           |           |           |           | -0.000200 |           |
| Cobalt     | 228.615     |           | -0.002900 |    |           |    |    |    | -0.000060 |           | 0.002250  |           |           |           |
| Copper     | 324.754     |           | 0.000550  |    |           |    |    |    |           |           |           |           | -0.000200 |           |
| Iron       | 271.441     |           | 0.000760  |    |           |    |    |    |           |           |           |           | 0.004220  |           |
| Lead       | 220.353     | 0.000130  | -0.000800 |    |           |    |    |    |           |           |           | -0.000325 |           |           |
| Magnesium  | 279.078     | -0.007600 |           |    |           |    |    |    |           |           |           |           |           |           |
| Manganese  | 257.610     |           |           |    |           |    |    |    |           |           |           |           |           |           |
| Molybdenum | 202.032     |           |           |    |           |    |    |    |           |           |           |           | -0.000260 |           |
| Nickel     | 231.604     |           |           |    |           |    |    |    |           |           |           |           |           |           |
| Potassium  | 766.491     |           |           |    |           |    |    |    |           |           |           |           |           |           |
| Selenium   | 196.026     | 0.000500  |           |    |           |    |    |    |           |           |           |           |           |           |
| Silver     | 328.068     | 0.000061  |           |    |           |    |    |    |           | -0.000600 |           |           | 0.000081  |           |
| Sodium     | 330.237     |           |           |    |           |    |    |    |           |           | -0.150825 |           |           | -0.144400 |
| Strontium  | 216.596     |           | -0.003360 |    | -0.001575 |    |    |    |           |           |           |           |           |           |
| Thallium   | 190.794     | -0.001466 | -0.000433 |    |           |    |    |    |           |           |           |           | 0.000500  |           |
| Tin        | 189.925     |           |           |    |           |    |    |    |           |           |           |           |           |           |
| Titanium   | 334.941     |           |           |    |           |    |    |    |           |           |           |           |           |           |
| Vanadium   | 292.401     |           | -0.007130 |    |           |    |    |    |           |           | 0.000575  |           |           |           |
| Zinc       | 206.200     |           |           |    |           |    |    |    |           |           |           |           |           |           |

11-IN  
LINEAR RANGES  
METALS

Lab Name: TestAmerica Savannah

Job No: 680-90622-3

SDG No.: 68090622-3

Instrument ID: ICPE

Date: 02/27/2012 11:40

| Analyte  | Integ.<br>Time<br>(Sec.) | Concentration<br>(ug/L) | Method        |
|----------|--------------------------|-------------------------|---------------|
| Arsenic  |                          | 18000                   | 200.7 Rev 4.4 |
| Barium   |                          | 18000                   | 200.7 Rev 4.4 |
| Cadmium  |                          | 9000                    | 200.7 Rev 4.4 |
| Chromium |                          | 22500                   | 200.7 Rev 4.4 |
| Lead     |                          | 18000                   | 200.7 Rev 4.4 |
| Selenium |                          | 22500                   | 200.7 Rev 4.4 |
| Silver   |                          | 1800                    | 200.7 Rev 4.4 |

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Prep Method: 200.7

| Lab Sample ID      | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|--------------------|------------------|------------|----------------|---------------------|-------------------|
| MB 680-278125/1-A  | 05/28/2013 09:59 | 278125     |                | 50                  | 50                |
| LCS 680-278125/2-A | 05/28/2013 09:59 | 278125     |                | 50                  | 50                |
| 680-90622-15       | 05/28/2013 09:59 | 278125     |                | 50                  | 50                |
| 680-90622-15 MS    | 05/28/2013 09:59 | 278125     |                | 50                  | 50                |
| 680-90622-15 MSD   | 05/28/2013 09:59 | 278125     |                | 50                  | 50                |

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Prep Method: 3050B

| Lab Sample ID      | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|--------------------|------------------|------------|--------------------|----------------|-------------------|
| MB 680-278184/1-A  | 05/28/2013 12:24 | 278184     | 1.00               |                | 100               |
| LCS 680-278184/2-A | 05/28/2013 12:24 | 278184     | 1.02               |                | 100               |
| 680-90622-13       | 05/28/2013 12:24 | 278184     | 1.01               |                | 100               |
| 680-90622-13 MS    | 05/28/2013 12:24 | 278184     | 1.00               |                | 100               |
| 680-90622-13 MSD   | 05/28/2013 12:24 | 278184     | 1.00               |                | 100               |
| 680-90622-14       | 05/28/2013 12:24 | 278184     | 1.06               |                | 100               |
| 680-90622-20       | 05/28/2013 12:24 | 278184     | 1.06               |                | 100               |
| 680-90622-21       | 05/28/2013 12:24 | 278184     | 1.14               |                | 100               |
| 680-90622-27       | 05/28/2013 12:24 | 278184     | 1.12               |                | 100               |
| 680-90622-40       | 05/28/2013 12:24 | 278184     | 1.03               |                | 100               |
| 680-90622-41       | 05/28/2013 12:24 | 278184     | 1.05               |                | 100               |
| 680-90622-42       | 05/28/2013 12:24 | 278184     | 1.05               |                | 100               |
| 680-90622-43       | 05/28/2013 12:24 | 278184     | 1.05               |                | 100               |



12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Prep Method: 3050B

| Lab Sample ID      | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|--------------------|------------------|------------|--------------------|----------------|-------------------|
| MB 680-278504/1-A  | 05/30/2013 11:02 | 278504     | 1.02               |                | 100               |
| LCS 680-278504/2-A | 05/30/2013 11:02 | 278504     | 1.00               |                | 100               |
| 680-90622-30       | 05/30/2013 11:02 | 278504     | 1.01               |                | 100               |
| 680-90622-30 MS    | 05/30/2013 11:02 | 278504     | 1.02               |                | 100               |
| 680-90622-30 MSD   | 05/30/2013 11:02 | 278504     | 1.01               |                | 100               |

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Prep Method: 7471B

| Lab Sample ID      | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|--------------------|------------------|------------|--------------------|----------------|-------------------|
| MB 680-278204/1-A  | 05/28/2013 13:51 | 278204     | 0.59               |                | 50                |
| LCS 680-278204/2-A | 05/28/2013 13:51 | 278204     | 0.54               |                | 50                |
| 680-90622-13       | 05/28/2013 13:51 | 278204     | 0.56               |                | 50                |
| 680-90622-13 MS    | 05/28/2013 13:51 | 278204     | 0.52               |                | 50                |
| 680-90622-13 MSD   | 05/28/2013 13:51 | 278204     | 0.59               |                | 50                |
| 680-90622-14       | 05/28/2013 13:51 | 278204     | 0.58               |                | 50                |
| 680-90622-20       | 05/28/2013 13:51 | 278204     | 0.51               |                | 50                |
| 680-90622-21       | 05/28/2013 13:51 | 278204     | 0.56               |                | 50                |
| 680-90622-27       | 05/28/2013 13:51 | 278204     | 0.53               |                | 50                |
| 680-90622-40       | 05/28/2013 13:51 | 278204     | 0.56               |                | 50                |
| 680-90622-41       | 05/28/2013 13:51 | 278204     | 0.54               |                | 50                |
| 680-90622-42       | 05/28/2013 13:51 | 278204     | 0.58               |                | 50                |
| 680-90622-43       | 05/28/2013 13:51 | 278204     | 0.51               |                | 50                |

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Prep Method: 245.1

| Lab Sample ID       | Preparation Date | Prep Batch | Initial Weight | Initial Volume (mL) | Final Volume (mL) |
|---------------------|------------------|------------|----------------|---------------------|-------------------|
| MB 680-278298/1-A   | 05/29/2013 10:33 | 278298     |                | 50                  | 50                |
| LCS 680-278298/2-A  | 05/29/2013 10:33 | 278298     |                | 50                  | 50                |
| LCSD 680-278298/3-A | 05/29/2013 10:33 | 278298     |                | 50                  | 50                |
| 680-90557-C-1-D MS  | 05/29/2013 10:33 | 278298     |                | 50                  | 50                |
| 680-90557-C-1-E MSD | 05/29/2013 10:33 | 278298     |                | 50                  | 50                |
| 680-90622-15        | 05/29/2013 10:33 | 278298     |                | 50                  | 50                |

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-90622-3

SDG No.: 68090622-3

Prep Method: 7471B

| Lab Sample ID      | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|--------------------|------------------|------------|--------------------|----------------|-------------------|
| MB 680-278555/1-A  | 05/30/2013 14:32 | 278555     | 0.50               |                | 50                |
| LCS 680-278555/2-A | 05/30/2013 14:32 | 278555     | 0.54               |                | 50                |
| 680-90622-30       | 05/30/2013 14:32 | 278555     | 0.54               |                | 50                |
| 680-90622-30 MS    | 05/30/2013 14:32 | 278555     | 0.53               |                | 50                |
| 680-90622-30 MSD   | 05/30/2013 14:32 | 278555     | 0.55               |                | 50                |



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/28/2013 12:57 End Date: 05/29/2013 08:31

| Lab Sample ID     | D / F | Type | Time  | Analytes |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
|-------------------|-------|------|-------|----------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
|                   |       |      |       | A<br>g   | A<br>s | B<br>a | C<br>d | C<br>r | P<br>b | S<br>e |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 16:25 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 16:29 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 16:34 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 16:38 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 16:43 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 16:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/49 |       |      | 16:52 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/50 |       |      | 16:57 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:01 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:08 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:12 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:17 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:22 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:26 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:31 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:35 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:40 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:44 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/61 |       |      | 17:49 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/62 |       |      | 17:54 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 17:58 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:03 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:07 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:12 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:21 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:26 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:35 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/73 |       |      | 18:44 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/74 |       |      | 18:49 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:53 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 18:58 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:02 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:07 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:12 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:21 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:25 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ            |       |      | 19:34 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/28/2013 12:57 End Date: 05/29/2013 08:31

| Lab Sample ID      | D / F | Type | Time  | Analytes |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
|--------------------|-------|------|-------|----------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
|                    |       |      |       | A<br>g   | A<br>s | B<br>a | C<br>d | C<br>r | P<br>b | S<br>e |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/85  |       |      | 19:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/86  |       |      | 19:44 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 19:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 19:53 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 19:58 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:02 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:07 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:12 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:21 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:26 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/97  |       |      | 20:35 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/98  |       |      | 20:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:44 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:53 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:58 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:02 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:07 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:12 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:21 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:25 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/109 |       |      | 21:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/110 |       |      | 21:35 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:44 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:53 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:58 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:02 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:07 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:12 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:21 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/121 |       |      | 22:25 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/122 |       |      | 22:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:34 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:44 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |





13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/28/2013 12:57 End Date: 05/29/2013 08:31

| Lab Sample ID      | D / F | Type | Time  | Analytes |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
|--------------------|-------|------|-------|----------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
|                    |       |      |       | A<br>g   | A<br>s | B<br>a | C<br>d | C<br>r | P<br>b | S<br>e |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/169 |       |      | 02:06 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/170 |       |      | 02:11 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:20 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:25 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:34 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:43 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:53 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 02:57 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/181 |       |      | 03:02 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/182 |       |      | 03:06 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:11 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:20 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:25 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:34 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:43 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 03:53 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/193 |       |      | 03:57 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/194 |       |      | 04:02 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:07 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:11 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:21 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:25 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:30 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:35 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:39 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:44 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 04:48 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCV 680-278301/205 |       |      | 04:53 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| CCB 680-278301/206 |       |      | 04:58 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 05:02 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 05:07 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 05:12 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 05:16 |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3  
SDG No.: 68090622-3  
Instrument ID: ICPE Method: 200.7 Rev 4.4  
Start Date: 05/28/2013 12:57 End Date: 05/29/2013 08:31

Prep Types

T = Total/NA





13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Instrument ID: ICPE Method: 6010C

Start Date: 05/30/2013 13:08 End Date: 05/31/2013 03:37

| Lab Sample ID      | D / F | Type | Time  | Analytes |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
|--------------------|-------|------|-------|----------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|
|                    |       |      |       | A g      | A s | B a | C d | C r | P b | S e |  |  |  |  |  |  |  |  |  |
| CCB 680-278654/85  |       |      | 19:51 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 19:56 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:01 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:05 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:10 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:15 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:19 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:24 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:28 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:33 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:37 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| CCV 680-278654/96  |       |      | 20:42 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| CCB 680-278654/97  |       |      | 20:47 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:51 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 20:56 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:00 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:05 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:10 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:14 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:19 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:23 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:28 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:33 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| CCV 680-278654/108 |       |      | 21:37 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| CCB 680-278654/109 |       |      | 21:42 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:46 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:51 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 21:56 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:00 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:05 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:09 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:14 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:19 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:23 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:28 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| CCV 680-278654/120 |       |      | 22:33 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| CCB 680-278654/121 |       |      | 22:37 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:42 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:46 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:51 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 22:55 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |       |      | 23:00 |          |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |





















13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 05/31/2013 17:34 End Date: 05/31/2013 20:32

| Lab Sample ID       | D / F | T y p e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-------|---------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |       |         |       | H g      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:24 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:27 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:29 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 680-278513/32-A | 1     |         | 19:32 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 680-278513/33-A | 1     |         | 19:35 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:37 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:40 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:42 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:45 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:48 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:50 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:53 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:56 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 19:58 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:01 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 680-278513/32-A |       |         | 20:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 680-278513/33-A |       |         | 20:06 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:11 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:14 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:19 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:22 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:24 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |       |         | 20:27 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 680-278513/32-A |       |         | 20:30 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 680-278513/33-A |       |         | 20:32 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Prep Types  
T = Total/NA



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| Blank (Blk) | 5/28/2013, 12:57:17 PM   |         | Rack S, Tube 1 |
|-------------|--------------------------|---------|----------------|
| Label       | Replicates Concentration |         |                |
| Ag 328.068  | 0.0180                   | -0.0780 | 0.0600         |
| Al 308.215  | -0.5044                  | 0.8336  | -0.3292        |
| As 188.980  | 5.8032                   | -3.3727 | -2.4305        |
| B 249.678   | 0.0883                   | -0.1184 | 0.0302         |
| Ba 389.178  | -0.3587                  | 0.0570  | 0.3016         |
| Be 313.042  | -0.0032                  | 0.0014  | 0.0018         |
| Ca 370.602  | -1.850                   | 3.135   | -1.285         |
| Cd 226.502  | -0.1191                  | -0.0517 | 0.1709         |
| Co 228.615  | -0.5567                  | 0.3506  | 0.2061         |
| Cr 267.716  | 0.0745                   | 0.1209  | -0.1954        |
| Cu 324.754  | 0.0627                   | -0.4202 | 0.3575         |
| Fe 271.441  | 1.5718                   | -2.6086 | 1.0368         |
| K 766.491   | -0.1950                  | 0.0307  | 0.1643         |
| Mg 279.078  | 0.3502                   | -2.0288 | 1.6786         |
| Mn 257.610  | 0.0172                   | -0.0332 | 0.0160         |
| Mo 202.032  | 0.4644                   | -0.2816 | -0.1828        |
| Na 330.237  | -77.3816                 | 33.0255 | 44.3560        |
| Ni 231.604  | 0.3548                   | 0.2044  | -0.5592        |
| Pb 220.353  | 0.0794                   | 1.2775  | -1.3569        |
| Sb 206.834  | 0.8336                   | 0.1119  | -0.9455        |
| Se 196.026  | 2.7950                   | -3.4213 | 0.6263         |
| Sn 189.925  | 0.4271                   | 2.8593  | -3.2864        |
| Sr 216.596  | 0.1770                   | -0.1295 | -0.0474        |
| Ti 334.941  | -0.0157                  | 0.0054  | 0.0103         |
| Tl 190.794  | 0.8838                   | 0.0198  | -0.9036        |
| V 292.401   | 0.1369                   | 0.1154  | -0.2523        |
| Zn 206.200  | -0.7967                  | -0.1830 | 0.9797         |

| Label      | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|------------|-------------|-------|---------|-----------|------------|
| Ag 328.068 | 0.0000      | ppb   | 4.994   | 11.0      | -45.3436   |
| Al 308.215 | 0.0000      | ppb   | 4.291   | 2.3       | 183.621    |
| As 188.980 | 0.0000      | ppb   | 2.980   | 73.7      | -4.0461    |
| B 249.678  | 0.0000      | ppb   | 1.431   | 1.3       | 106.234    |
| Ba 389.178 | 0.0000      | ppb   | 6.076   | 58.3      | -10.4139   |
| Be 313.042 | 0.0000      | ppb   | 4.900   | 2.0       | -246.267   |
| Ca 370.602 | 0.0000      | ppb   | 5.499   | 46.9      | -11.74     |
| Cd 226.502 | 0.0000      | ppb   | 5.017   | 26.7      | 18.7952    |
| Co 228.615 | 0.0000      | ppb   | 5.482   | 153.4     | 3.5737     |
| Cr 267.716 | 0.0000      | ppb   | 7.732   | 123.3     | 6.2725     |
| Cu 324.754 | 0.0000      | ppb   | 20.949  | 13.5      | 155.460    |
| Fe 271.441 | 0.0000      | ppb   | 3.477   | 17.5      | 19.8990    |
| K 766.491  | 0.0000      | ppb   | 5.891   | 2.0       | 296.276    |
| Mg 279.078 | 0.0000      | ppb   | 3.955   | 12.0      | 32.9239    |
| Mn 257.610 | 0.0000      | ppb   | 6.266   | 21.5      | 29.1954    |
| Mo 202.032 | 0.0000      | ppb   | 2.653   | 29.4      | 9.0091     |
| Na 330.237 | 0.0000      | ppb   | 3.138   | 6.8       | 45.9053    |
| Ni 231.604 | 0.0000      | ppb   | 1.272   | 64.9      | -1.9580    |
| Pb 220.353 | 0.0000      | ppb   | 1.960   | 8.5       | 23.0529    |
| Sb 206.834 | 0.0000      | ppb   | 0.857   | 17.5      | -4.9093    |
| Se 196.026 | 0.0000      | ppb   | 1.482   | 20.6      | 7.1771     |
| Sn 189.925 | 0.0000      | ppb   | 2.517   | 19.6      | -12.8491   |
| Sr 216.596 | 0.0000      | ppb   | 1.643   | 9.0       | 18.2680    |
| Ti 334.941 | 0.0000      | ppb   | 3.459   | 6.1       | -56.3320   |
| Tl 190.794 | 0.0000      | ppb   | 0.728   | 5.3       | -13.8450   |
| V 292.401  | 0.0000      | ppb   | 5.170   | 33.5      | -15.4347   |
| Zn 206.200 | 0.0000      | ppb   | 1.173   | 22.3      | 5.2661     |

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**HIGH STD (Std)                      5/28/2013, 1:01:52 PM                      Rack S, Tube 2**

| <b>Label</b> | <b>Replicates Concentration</b> |         |         |
|--------------|---------------------------------|---------|---------|
| Ag 328.068   | 994.692                         | 998.592 | 1006.72 |
| Al 308.215   | 9989.79                         | 10008.0 | 10002.2 |
| As 188.980   | 1008.54                         | 994.589 | 996.866 |
| B 249.678    | 996.309                         | 1000.11 | 1003.58 |
| Ba 389.178   | 9981.07                         | 10004.8 | 10014.1 |
| Be 313.042   | 999.397                         | 1000.29 | 1000.31 |
| Ca 370.602   | 9989                            | 10019   | 9992    |
| Cd 226.502   | 1000.54                         | 1000.65 | 998.807 |
| Co 228.615   | 1000.37                         | 998.681 | 1000.95 |
| Cr 267.716   | 9997.16                         | 10004.1 | 9998.77 |
| Cu 324.754   | 10030.5                         | 9936.02 | 10033.5 |
| Fe 271.441   | 10006.5                         | 9986.42 | 10007.1 |
| K 766.491    | 19989.3                         | 19977.9 | 20032.8 |
| Mg 279.078   | 9999.82                         | 9997.98 | 10002.2 |
| Mn 257.610   | 10009.9                         | 10015.6 | 9974.46 |
| Mo 202.032   | 997.897                         | 1000.49 | 1001.61 |
| Na 330.237   | 14900.2                         | 15094.8 | 15005.0 |
| Ni 231.604   | 4999.06                         | 5001.31 | 4999.62 |
| Pb 220.353   | 1006.24                         | 1002.20 | 991.558 |
| Sb 206.834   | 2000.72                         | 1988.71 | 2010.57 |
| Se 196.026   | 9989.34                         | 9978.47 | 10032.2 |
| Sn 189.925   | 9982.46                         | 10041.6 | 9975.90 |
| Sr 216.596   | 4999.83                         | 5004.74 | 4995.43 |
| Ti 334.941   | 998.889                         | 1000.51 | 1000.60 |
| Tl 190.794   | 10018.5                         | 9980.87 | 10000.6 |
| V 292.401    | 9987.48                         | 10013.1 | 9999.44 |
| Zn 206.200   | 4993.55                         | 4998.47 | 5007.98 |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD(Int)</b> | <b>%RSD(Int)</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|----------------|------------------|-------------------|
| Ag 328.068   | 1000.00            | ppb          | 433.041        | 0.6              | 70549.3           |
| Al 308.215   | 10000.0            | ppb          | 54.910         | 0.1              | 59181.9           |
| As 188.980   | 1000.00            | ppb          | 4.421          | 0.8              | 586.389           |
| B 249.678    | 1000.00            | ppb          | 48.841         | 0.4              | 13537.4           |
| Ba 389.178   | 10000.0            | ppb          | 310.237        | 0.2              | 182010            |
| Be 313.042   | 1000.00            | ppb          | 923.021        | 0.1              | 1765059           |
| Ca 370.602   | 10000              | ppb          | 33.538         | 0.2              | 20135             |
| Cd 226.502   | 1000.00            | ppb          | 34.191         | 0.1              | 33076.6           |
| Co 228.615   | 1000.00            | ppb          | 13.252         | 0.1              | 11249.5           |
| Cr 267.716   | 10000.0            | ppb          | 163.896        | 0.0              | 452657            |
| Cu 324.754   | 10000.0            | ppb          | 2957.256       | 0.6              | 533671            |
| Fe 271.441   | 10000.0            | ppb          | 17.986         | 0.1              | 15305.0           |
| K 766.491    | 20000.0            | ppb          | 941.119        | 0.1              | 649066            |
| Mg 279.078   | 10000.0            | ppb          | 4.445          | 0.0              | 21087.1           |
| Mn 257.610   | 10000.0            | ppb          | 4857.263       | 0.2              | 2178661           |
| Mo 202.032   | 1000.00            | ppb          | 12.481         | 0.2              | 6556.49           |
| Na 330.237   | 15000.0            | ppb          | 4.544          | 0.6              | 745.808           |
| Ni 231.604   | 5000.00            | ppb          | 3.040          | 0.0              | 12970.4           |
| Pb 220.353   | 1000.00            | ppb          | 11.271         | 0.7              | 1509.00           |
| Sb 206.834   | 2000.00            | ppb          | 10.488         | 0.5              | 1911.27           |
| Se 196.026   | 10000.0            | ppb          | 13.338         | 0.3              | 4703.74           |
| Sn 189.925   | 10000.0            | ppb          | 29.445         | 0.4              | 8118.84           |
| Sr 216.596   | 5000.00            | ppb          | 48.199         | 0.1              | 51803.8           |
| Ti 334.941   | 1000.00            | ppb          | 241.743        | 0.1              | 250899            |
| Tl 190.794   | 10000.0            | ppb          | 15.338         | 0.2              | 8127.00           |
| V 292.401    | 10000.0            | ppb          | 302.668        | 0.1              | 236280            |
| Zn 206.200   | 5000.00            | ppb          | 9.537          | 0.1              | 6508.16           |

**Ag 328.068 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | -45.3436   | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 70549.3    | 1000.00   | 1000.000   | -0.0002 | 0.0    |

Curve Type: Linear Equation:  $y = 70.6 x + -45.3$

**Al 308.215 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 183.621    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 59181.9    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 5.9 x + 183.6$

**As 188.980 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -4.0461    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 586.389    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.6 x + -4.0$

**B 249.678 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 106.234    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 13537.4    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 13.4 x + 106.2$

**Ba 389.178 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -10.4139   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 182010     | 10000.0   | 10000.0    | 0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 18.2 x + -10.4$

**Be 313.042 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -246.267   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 1765059    | 1000.00   | 1000.00    | 0.0001 | 0.0    |

Curve Type: Linear Equation:  $y = 1765.3 x + -246.3$

**Ca 370.602 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -11.74     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 20135      | 10000     | 10000      | 0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 2.0 x + -11.7$

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**Cd 226.502 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 18.7952    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 33076.6    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 33.1 x + 18.8$ **Co 228.615 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 3.5737     | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 11249.5    | 1000.00   | 1000.000   | -0.0001 | 0.0    |

Curve Type: Linear Equation:  $y = 11.2 x + 3.6$ **Cr 267.716 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 6.2725     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 452657     | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 45.3 x + 6.3$ **Cu 324.754 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 155.460    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 533671     | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 53.4 x + 155.5$ **Fe 271.441 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 19.8990    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 15305.0    | 10000.0   | 10000.0    | 0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 1.5 x + 19.9$ **K 766.491 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 296.276    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 649066     | 20000.0   | 20000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 32.4 x + 296.3$ **Mg 279.078 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 32.9239    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 21087.1    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 2.1 x + 32.9$

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**Mn 257.610 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 29.1954    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 2178661    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 217.9 x + 29.2$ **Mo 202.032 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 9.0091     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 6556.49    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 6.5 x + 9.0$ **Na 330.237 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 45.9053    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 745.808    | 15000.0   | 15000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.0 x + 45.9$ **Ni 231.604 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -1.9580    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 12970.4    | 5000.00   | 5000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 2.6 x + -2.0$ **Pb 220.353 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 23.0529    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 1509.00    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 1.5 x + 23.1$ **Sb 206.834 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -4.9093    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 1911.27    | 2000.00   | 2000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 1.0 x + -4.9$ **Se 196.026 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 7.1771     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 4703.74    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.5 x + 7.2$

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**Sn 189.925 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -12.8491   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 8118.84    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.8 x + -12.8$ **Sr 216.596 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 18.2680    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 51803.8    | 5000.00   | 5000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 10.4 x + 18.3$ **Ti 334.941 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -56.3320   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 250899     | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 251.0 x + -56.3$ **Tl 190.794 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -13.8450   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 8127.00    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.8 x + -13.8$ **V 292.401 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -15.4347   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 236280     | 10000.0   | 10000.0    | 0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 23.6 x + -15.4$ **Zn 206.200 Calibration (ppb) 5/28/2013, 1:01:52 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 5.2661     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 6508.16    | 5000.00   | 5000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 1.3 x + 5.3$ **LRA1 (Samp) 5/28/2013, 1:47:37 PM Rack S, Tube 7****Weight: 1 Volume: 1 Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.7720                  | -0.8753  | -0.8226  |
| Al 308.215 | 123.380                  | 73.2832  | 49.1606u |
| As 188.980 | 10662.1                  | 10697.6  | 10773.1  |
| B 249.678  | 4994.20                  | 5023.77  | 5094.63x |
| Ba 389.178 | -2.3340u                 | -1.9343u | -3.1373u |

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| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Be 313.042 | 0.1025                   | 0.0863    | 0.0736    |
| Ca 370.602 | 1366                     | 1319      | 1374      |
| Cd 226.502 | -1.5983u                 | -1.5297u  | -1.6684u  |
| Co 228.615 | 9901.77                  | 9943.63   | 10101.9   |
| Cr 267.716 | -1.7271                  | -2.1297   | -1.8247   |
| Cu 324.754 | -0.0174u                 | -0.0067u  | 0.0077    |
| Fe 271.441 | 104.853                  | 57.4678   | 43.1221   |
| K 766.491  | 54.2887                  | 25.5364   | 16.1244   |
| Mg 279.078 | 125.555u                 | 62.5772u  | 41.6594u  |
| Mn 257.610 | 27071.5                  | 27030.2   | 27655.2x  |
| Mo 202.032 | 0.3056                   | -0.1562u  | 0.1246    |
| Na 330.237 | 104209x                  | 104727x   | 105779x   |
| Ni 231.604 | 9854.61x                 | 9902.73x  | 9968.04x  |
| Pb 220.353 | 20571.8x                 | 20619.8x  | 20805.8x  |
| Sb 206.834 | 9.9840                   | 17.9504   | 17.8197   |
| Se 196.026 | 9.4687                   | 2.5152    | 4.6063    |
| Sn 189.925 | 2.0704                   | 0.6489    | -2.2598u  |
| Sr 216.596 | -5.2605u                 | -5.1865u  | -6.2424u  |
| Ti 334.941 | 31805.5                  | 31905.9   | 32215.2   |
| Tl 190.794 | -42.2963u                | -40.2365u | -31.9671u |
| V 292.401  | -5.6739                  | -5.4673   | -5.3322   |
| Zn 206.200 | 2.3344                   | 2.5935    | 1.3655    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.8233b    | ppb   | 0.0517  | 6.3    | 15.2706    |
| Al 308.215 | 81.9412b    | ppb   | 37.8595 | 46.2   | 250.793    |
| As 188.980 | 10710.9b    | ppb   | 56.7002 | 0.5    | 6320.05    |
| B 249.678  | 5037.53xb   | ppb   | 51.6129 | 1.0    | 67764.5    |
| Ba 389.178 | -2.4685b    | ppb   | 0.6127  | 24.8   | -54.6464   |
| Be 313.042 | 0.0874b     | ppb   | 0.0145  | 16.6   | -117.743   |
| Ca 370.602 | 1353b       | ppb   | 29.86   | 2.2    | 14112      |
| Cd 226.502 | -1.5988b    | ppb   | 0.0693  | 4.3    | -32.1478   |
| Co 228.615 | 9982.43b    | ppb   | 105.551 | 1.1    | 112966     |
| Cr 267.716 | -1.8938b    | ppb   | 0.2100  | 11.1   | 91.2051    |
| Cu 324.754 | -0.0055b    | ppb   | 0.0126  | 229.1  | 155.119    |
| Fe 271.441 | 68.4809b    | ppb   | 32.3055 | 47.2   | 1282.46    |
| K 766.491  | 31.9832b    | ppb   | 19.8821 | 62.2   | 1333.76    |
| Mg 279.078 | 76.5971b    | ppb   | 43.6695 | 57.0   | -241.808   |
| Mn 257.610 | 27252.3xb   | ppb   | 349.532 | 1.3    | 5937301    |
| Mo 202.032 | 0.0913b     | ppb   | 0.2327  | 254.7  | 9.5461     |
| Na 330.237 | 104905xb    | ppb   | 799.672 | 0.8    | 4834.88    |
| Ni 231.604 | 9908.46xb   | ppb   | 56.9292 | 0.6    | 25684.5    |
| Pb 220.353 | 20665.8xb   | ppb   | 123.601 | 0.6    | 30718.3    |
| Sb 206.834 | 15.2514b    | ppb   | 4.5621  | 29.9   | 9.7311     |
| Se 196.026 | 5.5301b     | ppb   | 3.5676  | 64.5   | 16.1775    |
| Sn 189.925 | 0.1531b     | ppb   | 2.2072  | 1441.3 | -12.6897   |
| Sr 216.596 | -5.5631b    | ppb   | 0.5894  | 10.6   | -200.824   |
| Ti 334.941 | 31975.5b    | ppb   | 213.553 | 0.7    | 8024354    |
| Tl 190.794 | -38.1666b   | ppb   | 5.4669  | 14.3   | -31.3820   |
| V 292.401  | -5.4911b    | ppb   | 0.1721  | 3.1    | 288.445    |
| Zn 206.200 | 2.0978b     | ppb   | 0.6473  | 30.9   | 7.9959     |

LRA2 (Samp)

5/28/2013, 1:57:44 PM

Rack S, Tube 8

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.1211u                 | -1.4247u | -0.9417u |
| Al 308.215 | 878742x                  | 882889x  | 868043x  |

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| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| As 188.980 | 31.6982                  | 11.5131   | 15.6263   |
| B 249.678  | 59.6666u                 | 56.5469u  | 55.9574u  |
| Ba 389.178 | 11.0746                  | 13.2454   | 10.5337   |
| Be 313.042 | -0.1721u                 | -0.1746u  | -0.1667u  |
| Ca 370.602 | 787769                   | 783535    | 777244    |
| Cd 226.502 | 6.2426                   | 6.5276    | 5.7674    |
| Co 228.615 | -8.2946u                 | -8.3905u  | -7.9753u  |
| Cr 267.716 | -1.8501                  | -2.3331   | -1.6303   |
| Cu 324.754 | 4.6187                   | 4.7933    | 4.8827    |
| Fe 271.441 | 922955                   | 929089    | 912705    |
| K 766.491  | 442983x                  | 444859x   | 438511x   |
| Mg 279.078 | 829727                   | 833039    | 821543    |
| Mn 257.610 | 2.7029                   | 2.9791    | 2.0899    |
| Mo 202.032 | 3.8610u                  | 6.8435    | 5.7355u   |
| Na 330.237 | -1072.64u                | -1169.29u | -829.322u |
| Ni 231.604 | -2.9784                  | -2.9944   | -2.4880   |
| Pb 220.353 | 20.8304                  | 28.1122   | 24.2786   |
| Sb 206.834 | -3.2480                  | 10.8996   | 17.5602   |
| Se 196.026 | -4.1983                  | -26.0224u | -3.9783   |
| Sn 189.925 | 1.5227                   | -0.3101   | 0.4159    |
| Sr 216.596 | 19.9919                  | 20.3217   | 20.7153   |
| Ti 334.941 | 3.7405                   | 3.7897    | 3.4250    |
| Tl 190.794 | -11.9179u                | -10.0798u | -2.4195u  |
| V 292.401  | 6.1769                   | 6.9996    | 6.3126    |
| Zn 206.200 | 27064.6                  | 27098.0   | 26831.0   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.1625b    | ppb   | 0.2442  | 21.0  | -142.338   |
| Al 308.215 | 876558xb    | ppb   | 7660.24 | 0.9   | 5171719    |
| As 188.980 | 19.6125b    | ppb   | 10.6667 | 54.4  | 7.0700     |
| B 249.678  | 57.3903b    | ppb   | 1.9933  | 3.5   | -847.833   |
| Ba 389.178 | 11.6179b    | ppb   | 1.4352  | 12.4  | 2933.55    |
| Be 313.042 | -0.1711b    | ppb   | 0.0040  | 2.4   | -288.827   |
| Ca 370.602 | 782849b     | ppb   | 5296    | 0.7   | 1530535    |
| Cd 226.502 | 6.1792b     | ppb   | 0.3840  | 6.2   | 2582.31    |
| Co 228.615 | -8.2201b    | ppb   | 0.2174  | 2.6   | -57.4017   |
| Cr 267.716 | -1.9379b    | ppb   | 0.3595  | 18.6  | 131.391    |
| Cu 324.754 | 4.7649b     | ppb   | 0.1343  | 2.8   | 701.289    |
| Fe 271.441 | 921583b     | ppb   | 8277.67 | 0.9   | 1408670    |
| K 766.491  | 442118xb    | ppb   | 3261.28 | 0.7   | 14341928   |
| Mg 279.078 | 828103b     | ppb   | 5917.19 | 0.7   | 1743445    |
| Mn 257.610 | 2.5907b     | ppb   | 0.4551  | 17.6  | 9358.65    |
| Mo 202.032 | 5.4800b     | ppb   | 1.5076  | 27.5  | 3.1048     |
| Na 330.237 | -1023.75b   | ppb   | 175.176 | 17.1  | -613.918   |
| Ni 231.604 | -2.8202b    | ppb   | 0.2879  | 10.2  | 9.9966     |
| Pb 220.353 | 24.4071b    | ppb   | 3.6426  | 14.9  | 103.461    |
| Sb 206.834 | 8.4039b     | ppb   | 10.6262 | 126.4 | 23.2568    |
| Se 196.026 | -11.3996b   | ppb   | 12.6642 | 111.1 | 4.8294     |
| Sn 189.925 | 0.5429b     | ppb   | 0.9230  | 170.0 | -12.1207   |
| Sr 216.596 | 20.3430b    | ppb   | 0.3622  | 1.8   | 1091.21    |
| Ti 334.941 | 3.6517b     | ppb   | 0.1979  | 5.4   | 4349.73    |
| Tl 190.794 | -8.1391b    | ppb   | 5.0379  | 61.9  | -68.7216   |
| V 292.401  | 6.4963b     | ppb   | 0.4411  | 6.8   | 141.736    |
| Zn 206.200 | 26997.9b    | ppb   | 145.499 | 0.5   | 35126.4    |



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RINSE (Samp) 5/28/2013, 2:02:20 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.1537                   | 0.1115    | 0.3741    |
| Al 308.215 | 25.6385                  | 26.5059   | 26.3199   |
| As 188.980 | 2.6909                   | 3.7955    | 3.6347    |
| B 249.678  | 26.8529                  | 26.0510   | 25.1751   |
| Ba 389.178 | 0.5325                   | 0.4488    | 1.2106    |
| Be 313.042 | 0.1118                   | 0.1024    | 0.1044    |
| Ca 370.602 | 28.05                    | 29.39     | 33.54     |
| Cd 226.502 | 0.2835                   | 0.1811    | 0.0519    |
| Co 228.615 | 0.5471                   | 0.6487    | 0.8921    |
| Cr 267.716 | 0.2067                   | 0.5065    | 0.3783    |
| Cu 324.754 | 0.0483                   | 0.7034    | 0.5793    |
| Fe 271.441 | 25.7324                  | 31.0931   | 27.3631   |
| K 766.491  | 16.4354                  | 17.3002   | 17.4606   |
| Mg 279.078 | 21.8771                  | 25.4016   | 24.2102   |
| Mn 257.610 | 0.5336                   | 0.5318    | 0.5502    |
| Mo 202.032 | 0.1212                   | 0.4757    | 0.4537    |
| Na 330.237 | -113.332u                | -37.4203u | -35.4958u |
| Ni 231.604 | 1.2931                   | 0.5880    | 0.4513    |
| Pb 220.353 | -2.2565u                 | 3.0296    | -3.6783u  |
| Sb 206.834 | 1.1153                   | 0.7715    | 3.3148    |
| Se 196.026 | -0.8179u                 | 7.6825    | -2.9594u  |
| Sn 189.925 | -0.9066u                 | -0.5655u  | 1.5698    |
| Sr 216.596 | 0.2623                   | 0.3903    | 0.2955    |
| Ti 334.941 | 0.3960                   | 0.3833    | 0.3264    |
| Tl 190.794 | 1.4455                   | 3.0305    | 3.6605    |
| V 292.401  | 0.3446                   | 0.2907    | 0.2661    |
| Zn 206.200 | 1.0328                   | -0.6006u  | 1.7720    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.2131      | ppb   | 0.1410  | 66.2   | -30.3245   |
| Al 308.215 | 26.1548     | ppb   | 0.4567  | 1.7    | 337.876    |
| As 188.980 | 3.3737      | ppb   | 0.5967  | 17.7   | -2.0543    |
| B 249.678  | 26.0263     | ppb   | 0.8392  | 3.2    | 455.742    |
| Ba 389.178 | 0.7306      | ppb   | 0.4178  | 57.2   | 2.9681     |
| Be 313.042 | 0.1062      | ppb   | 0.0050  | 4.7    | -58.7839   |
| Ca 370.602 | 30.33       | ppb   | 2.861   | 9.4    | 47.99      |
| Cd 226.502 | 0.1722      | ppb   | 0.1161  | 67.4   | 24.5627    |
| Co 228.615 | 0.6960      | ppb   | 0.1773  | 25.5   | 11.4007    |
| Cr 267.716 | 0.3638      | ppb   | 0.1505  | 41.4   | 22.7468    |
| Cu 324.754 | 0.4436      | ppb   | 0.3479  | 78.4   | 179.146    |
| Fe 271.441 | 28.0628     | ppb   | 2.7480  | 9.8    | 62.8754    |
| K 766.491  | 17.0654     | ppb   | 0.5514  | 3.2    | 849.852    |
| Mg 279.078 | 23.8296     | ppb   | 1.7928  | 7.5    | 83.0844    |
| Mn 257.610 | 0.5385      | ppb   | 0.0101  | 1.9    | 146.776    |
| Mo 202.032 | 0.3502      | ppb   | 0.1986  | 56.7   | 11.3000    |
| Na 330.237 | -62.0828    | ppb   | 44.3938 | 71.5   | 42.9872    |
| Ni 231.604 | 0.7775      | ppb   | 0.4518  | 58.1   | 0.0584     |
| Pb 220.353 | -0.9684     | ppb   | 3.5346  | 365.0  | 21.6147    |
| Sb 206.834 | 1.7339      | ppb   | 1.3799  | 79.6   | -3.2480    |
| Se 196.026 | 1.3017      | ppb   | 5.6287  | 432.4  | 7.7887     |
| Sn 189.925 | 0.0325      | ppb   | 1.3422  | 4125.4 | -12.8226   |
| Sr 216.596 | 0.3160      | ppb   | 0.0664  | 21.0   | 21.5616    |
| Ti 334.941 | 0.3686      | ppb   | 0.0371  | 10.1   | 36.2733    |
| Tl 190.794 | 2.7122      | ppb   | 1.1413  | 42.1   | -11.6373   |
| V 292.401  | 0.3005      | ppb   | 0.0401  | 13.4   | -8.3962    |
| Zn 206.200 | 0.7347      | ppb   | 1.2141  | 165.2  | 6.2208     |

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| IDL (Samp) | 5/28/2013, 2:16:01 PM    |           | Rack 1, Tube 3 |
|------------|--------------------------|-----------|----------------|
| Weight: 1  | Volume: 1                |           | Dilution: 1    |
| Label      | Replicates Concentration |           |                |
| Ag 328.068 | 0.2014                   | 0.0855    | -0.0394u       |
| Al 308.215 | 4.0685                   | 4.6382    | 3.9661         |
| As 188.980 | 3.1825                   | -0.4230u  | 2.5532         |
| B 249.678  | 12.6966                  | 11.9255   | 12.1276        |
| Ba 389.178 | -0.2284u                 | -0.0012u  | -0.6904u       |
| Be 313.042 | 0.0116                   | 0.0048    | 0.0144         |
| Ca 370.602 | 4.195                    | 4.267     | -1.140u        |
| Cd 226.502 | -0.1584u                 | -0.0622u  | -0.1082u       |
| Co 228.615 | -0.2232u                 | -0.5027u  | 0.2946         |
| Cr 267.716 | -0.1531u                 | -0.0229u  | 0.0874         |
| Cu 324.754 | 0.1579                   | -0.1383u  | 0.0848         |
| Fe 271.441 | 1.5699                   | 4.2654    | 4.5517         |
| K 766.491  | 1.3456                   | 1.7775    | 1.1914         |
| Mg 279.078 | -2.0008u                 | 2.8054    | 0.9552         |
| Mn 257.610 | 0.0337                   | -0.0117u  | 0.0693         |
| Mo 202.032 | -0.0966u                 | -0.1542u  | 0.0151         |
| Na 330.237 | -35.9663u                | -228.599u | -95.2349u      |
| Ni 231.604 | 0.8560                   | -0.5598u  | -0.6108u       |
| Pb 220.353 | 0.5251                   | -1.8085u  | -2.7754u       |
| Sb 206.834 | 2.5491                   | 1.7274    | -0.6509u       |
| Se 196.026 | 1.9011                   | 5.5332    | 0.6548         |
| Sn 189.925 | 0.7051                   | -0.9194u  | -1.3464u       |
| Sr 216.596 | -0.6528u                 | -0.1401u  | -1.1005u       |
| Ti 334.941 | 0.0452                   | 0.0260    | 0.0734         |
| Tl 190.794 | 1.6022                   | 4.1350    | 2.2306         |
| V 292.401  | 0.0821                   | 0.5234    | -0.0881u       |
| Zn 206.200 | 0.5710                   | -1.1368u  | 0.0553         |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0825      | ppb   | 0.1205  | 146.0 | -39.5114   |
| Al 308.215 | 4.2243      | ppb   | 0.3622  | 8.6   | 208.527    |
| As 188.980 | 1.7709      | ppb   | 1.9258  | 108.7 | -3.0005    |
| B 249.678  | 12.2499     | ppb   | 0.3998  | 3.3   | 270.758    |
| Ba 389.178 | -0.3067     | ppb   | 0.3512  | 114.5 | -15.9912   |
| Be 313.042 | 0.0102      | ppb   | 0.0049  | 48.0  | -228.163   |
| Ca 370.602 | 2.441       | ppb   | 3.101   | 127.1 | -6.966     |
| Cd 226.502 | -0.1096     | ppb   | 0.0481  | 43.9  | 15.1816    |
| Co 228.615 | -0.1438     | ppb   | 0.4045  | 281.4 | 1.9602     |
| Cr 267.716 | -0.0295     | ppb   | 0.1204  | 407.6 | 4.9343     |
| Cu 324.754 | 0.0348      | ppb   | 0.1543  | 443.9 | 157.312    |
| Fe 271.441 | 3.4623      | ppb   | 1.6452  | 47.5  | 25.1735    |
| K 766.491  | 1.4382      | ppb   | 0.3038  | 21.1  | 342.928    |
| Mg 279.078 | 0.5866      | ppb   | 2.4242  | 413.3 | 34.1580    |
| Mn 257.610 | 0.0304      | ppb   | 0.0406  | 133.3 | 35.8402    |
| Mo 202.032 | -0.0786     | ppb   | 0.0861  | 109.6 | 8.4943     |
| Na 330.237 | -119.933    | ppb   | 98.6629 | 82.3  | 40.3106    |
| Ni 231.604 | -0.1049     | ppb   | 0.8325  | 793.7 | -2.2297    |
| Pb 220.353 | -1.3529     | ppb   | 1.6967  | 125.4 | 21.0428    |
| Sb 206.834 | 1.2085      | ppb   | 1.6619  | 137.5 | -3.7510    |
| Se 196.026 | 2.6964      | ppb   | 2.5345  | 94.0  | 8.4435     |
| Sn 189.925 | -0.5202     | ppb   | 1.0824  | 208.1 | -13.2721   |
| Sr 216.596 | -0.6311     | ppb   | 0.4806  | 76.1  | 11.7355    |
| Ti 334.941 | 0.0482      | ppb   | 0.0239  | 49.5  | -44.2177   |
| Tl 190.794 | 2.6559      | ppb   | 1.3189  | 49.7  | -11.6834   |
| V 292.401  | 0.1725      | ppb   | 0.3156  | 183.0 | -11.3454   |
| Zn 206.200 | -0.1701     | ppb   | 0.8759  | 514.8 | 5.0450     |

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IDL (Samp) 5/28/2013, 2:20:36 PM Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.1780u                 | 0.4864    | 0.0960    |
| Al 308.215 | 3.4070                   | 4.6569    | 5.2120    |
| As 188.980 | 3.4466                   | 3.1987    | -5.6855u  |
| B 249.678  | 8.8597                   | 8.6091    | 8.6493    |
| Ba 389.178 | -1.1930u                 | -0.2647u  | -0.1621u  |
| Be 313.042 | 0.0112                   | 0.0076    | 0.0088    |
| Ca 370.602 | -0.3165u                 | 10.48     | 5.598     |
| Cd 226.502 | -0.0468u                 | 0.0628    | 0.1635    |
| Co 228.615 | -0.6402u                 | 0.2324    | 0.4343    |
| Cr 267.716 | -0.0057u                 | 0.1009    | 0.3210    |
| Cu 324.754 | 0.2755                   | -0.1502u  | -0.0583u  |
| Fe 271.441 | 4.1707                   | -1.7017u  | 4.5959    |
| K 766.491  | 0.8042                   | 1.3119    | 1.9973    |
| Mg 279.078 | 4.7431                   | 1.3726    | -2.9406u  |
| Mn 257.610 | -0.0151u                 | -0.0346u  | 0.0021    |
| Mo 202.032 | 0.2146                   | 0.1782    | 0.4193    |
| Na 330.237 | -110.166u                | -57.0779u | -71.0864u |
| Ni 231.604 | 0.1830                   | 0.6040    | 0.0532    |
| Pb 220.353 | 1.2584                   | -2.9437u  | -2.8365u  |
| Sb 206.834 | 3.2287                   | 1.2744    | 1.0592    |
| Se 196.026 | -2.1467u                 | 0.7427    | -0.0775u  |
| Sn 189.925 | -2.7987u                 | -2.0847u  | 2.7261    |
| Sr 216.596 | 0.1098                   | -0.1098u  | -0.4086u  |
| Ti 334.941 | 0.0240                   | 0.0547    | 0.0343    |
| Tl 190.794 | 5.7348                   | 2.6497    | -0.4789u  |
| V 292.401  | 0.1602                   | 0.0748    | 0.1695    |
| Zn 206.200 | -0.3001u                 | -0.9959u  | -1.4242u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1348      | ppb   | 0.3339  | 247.7  | -35.8382   |
| Al 308.215 | 4.4253      | ppb   | 0.9245  | 20.9   | 209.727    |
| As 188.980 | 0.3199      | ppb   | 5.2023  | 1626.0 | -3.8573    |
| B 249.678  | 8.7060      | ppb   | 0.1346  | 1.5    | 223.160    |
| Ba 389.178 | -0.5399     | ppb   | 0.5679  | 105.2  | -20.2339   |
| Be 313.042 | 0.0092      | ppb   | 0.0018  | 19.8   | -230.072   |
| Ca 370.602 | 5.253       | ppb   | 5.405   | 102.9  | -1.313     |
| Cd 226.502 | 0.0598      | ppb   | 0.1052  | 175.8  | 20.7825    |
| Co 228.615 | 0.0088      | ppb   | 0.5710  | 6474.8 | 3.6676     |
| Cr 267.716 | 0.1388      | ppb   | 0.1666  | 120.1  | 12.5527    |
| Cu 324.754 | 0.0223      | ppb   | 0.2240  | 1002.3 | 156.660    |
| Fe 271.441 | 2.3550      | ppb   | 3.5196  | 149.5  | 23.4996    |
| K 766.491  | 1.3711      | ppb   | 0.5987  | 43.7   | 340.753    |
| Mg 279.078 | 1.0584      | ppb   | 3.8515  | 363.9  | 35.1514    |
| Mn 257.610 | -0.0158     | ppb   | 0.0183  | 115.7  | 25.7615    |
| Mo 202.032 | 0.2707      | ppb   | 0.1300  | 48.0   | 10.7812    |
| Na 330.237 | -79.4436    | ppb   | 27.5132 | 34.6   | 42.2079    |
| Ni 231.604 | 0.2800      | ppb   | 0.2879  | 102.8  | -1.2314    |
| Pb 220.353 | -1.5073     | ppb   | 2.3957  | 158.9  | 20.8130    |
| Sb 206.834 | 1.8541      | ppb   | 1.1953  | 64.5   | -3.1355    |
| Se 196.026 | -0.4938     | ppb   | 1.4890  | 301.5  | 6.9452     |
| Sn 189.925 | -0.7191     | ppb   | 3.0049  | 417.9  | -13.4338   |
| Sr 216.596 | -0.1362     | ppb   | 0.2602  | 191.0  | 16.8546    |
| Ti 334.941 | 0.0377      | ppb   | 0.0156  | 41.4   | -46.8657   |
| Tl 190.794 | 2.6352      | ppb   | 3.1069  | 117.9  | -11.7000   |
| V 292.401  | 0.1348      | ppb   | 0.0522  | 38.7   | -12.2936   |
| Zn 206.200 | -0.9068     | ppb   | 0.5673  | 62.6   | -1.0864    |

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| IDL (Samp) | 5/28/2013, 2:25:10 PM    |           | Rack 1, Tube 5 |
|------------|--------------------------|-----------|----------------|
| Weight: 1  | Volume: 1                |           | Dilution: 1    |
| Label      | Replicates Concentration |           |                |
| Ag 328.068 | 0.1861                   | 0.2407    | 0.0570         |
| Al 308.215 | 6.3690                   | 3.5087    | 6.4310         |
| As 188.980 | -1.1714u                 | -1.6915u  | -3.0158u       |
| B 249.678  | 6.1898                   | 6.3636    | 6.1514         |
| Ba 389.178 | -0.0395u                 | -0.2040u  | 2.0097         |
| Be 313.042 | 0.0097                   | 0.0097    | 0.0092         |
| Ca 370.602 | 3.031                    | -2.215u   | -0.8684u       |
| Cd 226.502 | -0.1518u                 | -0.0883u  | 0.1320         |
| Co 228.615 | 0.0569                   | 0.0199    | 0.1344         |
| Cr 267.716 | 0.1925                   | 0.0056    | -0.1066u       |
| Cu 324.754 | -0.0990u                 | 0.1479    | -0.3010u       |
| Fe 271.441 | 1.2890                   | -0.2213u  | -1.5201u       |
| K 766.491  | 1.8484                   | 0.6724    | 1.2036         |
| Mg 279.078 | -2.4768u                 | 4.6804    | 0.5195         |
| Mn 257.610 | 0.0071                   | 0.0451    | 0.0557         |
| Mo 202.032 | 0.1853                   | 0.1629    | -0.1327u       |
| Na 330.237 | -14.0862u                | -81.5292u | -89.3291u      |
| Ni 231.604 | 1.9276                   | 0.3444    | -0.2718u       |
| Pb 220.353 | 2.6500                   | 1.8950    | -0.4304u       |
| Sb 206.834 | 0.3054                   | 1.8590    | 2.4631         |
| Se 196.026 | -0.0512u                 | -8.2083u  | -7.0818u       |
| Sn 189.925 | -2.1978u                 | -2.7664u  | -2.4075u       |
| Sr 216.596 | -0.4551u                 | -0.2785u  | -0.4297u       |
| Ti 334.941 | 0.0427                   | 0.0174    | 0.0149         |
| Tl 190.794 | -1.7722u                 | -2.3504u  | 2.3282         |
| V 292.401  | 0.1126                   | 0.0941    | 0.1994         |
| Zn 206.200 | 0.1867                   | -0.7690u  | -0.5105u       |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | 0.1612      | ppb   | 0.0944  | 58.5    | -33.9527   |
| Al 308.215 | 5.4362      | ppb   | 1.6696  | 30.7    | 215.676    |
| As 188.980 | -1.9596     | ppb   | 0.9510  | 48.5    | -5.2031    |
| B 249.678  | 6.2349      | ppb   | 0.1131  | 1.8     | 189.975    |
| Ba 389.178 | 0.5887      | ppb   | 1.2334  | 209.5   | 0.3052     |
| Be 313.042 | 0.0095      | ppb   | 0.0003  | 3.4     | -229.457   |
| Ca 370.602 | -0.0176     | ppb   | 2.724   | 15488.9 | -11.80     |
| Cd 226.502 | -0.0360     | ppb   | 0.1489  | 413.5   | 17.6067    |
| Co 228.615 | 0.0704      | ppb   | 0.0584  | 83.0    | 4.3656     |
| Cr 267.716 | 0.0305      | ppb   | 0.1511  | 495.4   | 7.6519     |
| Cu 324.754 | -0.0841     | ppb   | 0.2248  | 267.5   | 150.977    |
| Fe 271.441 | -0.1508     | ppb   | 1.4059  | 932.4   | 19.6769    |
| K 766.491  | 1.2415      | ppb   | 0.5889  | 47.4    | 336.548    |
| Mg 279.078 | 0.9077      | ppb   | 3.5944  | 396.0   | 34.8331    |
| Mn 257.610 | 0.0360      | ppb   | 0.0256  | 71.1    | 37.0447    |
| Mo 202.032 | 0.0718      | ppb   | 0.1775  | 247.1   | 9.4791     |
| Na 330.237 | -61.6482    | ppb   | 41.3741 | 67.1    | 43.0326    |
| Ni 231.604 | 0.6667      | ppb   | 1.1346  | 170.2   | -0.2283    |
| Pb 220.353 | 1.3715      | ppb   | 1.6055  | 117.1   | 25.0908    |
| Sb 206.834 | 1.5425      | ppb   | 1.1131  | 72.2    | -3.4328    |
| Se 196.026 | -5.1137     | ppb   | 4.4203  | 86.4    | 4.7754     |
| Sn 189.925 | -2.4572     | ppb   | 0.2876  | 11.7    | -14.8472   |
| Sr 216.596 | -0.3878     | ppb   | 0.0955  | 24.6    | 14.2454    |
| Ti 334.941 | 0.0250      | ppb   | 0.0154  | 61.5    | -50.0458   |
| Tl 190.794 | -0.5981     | ppb   | 2.5507  | 426.4   | -14.3319   |
| V 292.401  | 0.1354      | ppb   | 0.0563  | 41.6    | -12.2469   |
| Zn 206.200 | -0.3643     | ppb   | 0.4944  | 135.7   | -13.7923   |

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IDL (Samp) 5/28/2013, 2:29:56 PM Rack 1, Tube 6

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.0961u                 | -0.1082u  | -0.3889u  |
| Al 308.215 | 4.4841                   | 4.8504    | 6.0325    |
| As 188.980 | 0.8879                   | 0.6504    | -4.7443u  |
| B 249.678  | 5.2173                   | 4.3692    | 3.9055    |
| Ba 389.178 | -0.0998u                 | -0.8048u  | 0.4756    |
| Be 313.042 | 0.0039                   | 0.0041    | 0.0071    |
| Ca 370.602 | 1.130                    | -1.714u   | 2.403     |
| Cd 226.502 | 0.1023                   | 0.1184    | -0.0352u  |
| Co 228.615 | -0.0509u                 | -0.0485u  | -0.1439u  |
| Cr 267.716 | -0.1573u                 | -0.0752u  | 0.1416    |
| Cu 324.754 | -0.3144u                 | 0.0644    | -0.0519u  |
| Fe 271.441 | 1.5501                   | -1.3865u  | 1.2892    |
| K 766.491  | 0.3979                   | -0.5991u  | 0.9531    |
| Mg 279.078 | 0.4508                   | 2.9107    | 1.9272    |
| Mn 257.610 | -0.0032u                 | -0.0107u  | 0.0286    |
| Mo 202.032 | -0.7145u                 | -0.0648u  | -0.4572u  |
| Na 330.237 | 18.7465                  | -14.2743u | 21.6768   |
| Ni 231.604 | 1.2769                   | -0.5715u  | 0.3673    |
| Pb 220.353 | 0.4750                   | -0.7054u  | -1.5488u  |
| Sb 206.834 | 0.2328                   | -1.3864u  | 3.5706    |
| Se 196.026 | -1.7082u                 | -0.2030u  | -11.0228u |
| Sn 189.925 | -0.2687u                 | -1.0516u  | 1.4918    |
| Sr 216.596 | -0.4029u                 | -0.4002u  | -0.0598u  |
| Ti 334.941 | 0.0324                   | 0.0394    | 0.0399    |
| Tl 190.794 | 1.4234                   | 2.6404    | -0.6313u  |
| V 292.401  | 0.2738                   | 0.2665    | 0.1438    |
| Zn 206.200 | -0.9649u                 | -0.0605u  | -0.3883u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1977     | ppb   | 0.1657  | 83.8   | -59.2929   |
| Al 308.215 | 5.1223      | ppb   | 0.8092  | 15.8   | 213.793    |
| As 188.980 | -1.0687     | ppb   | 3.1854  | 298.1  | -4.6770    |
| B 249.678  | 4.4973      | ppb   | 0.6652  | 14.8   | 166.630    |
| Ba 389.178 | -0.1430     | ppb   | 0.6413  | 448.6  | -13.0102   |
| Be 313.042 | 0.0050      | ppb   | 0.0018  | 35.2   | -237.338   |
| Ca 370.602 | 0.6063      | ppb   | 2.108   | 347.7  | -10.70     |
| Cd 226.502 | 0.0618      | ppb   | 0.0844  | 136.5  | 20.8494    |
| Co 228.615 | -0.0811     | ppb   | 0.0544  | 67.1   | 2.6738     |
| Cr 267.716 | -0.0303     | ppb   | 0.1544  | 509.3  | 4.8998     |
| Cu 324.754 | -0.1006     | ppb   | 0.1940  | 192.8  | 150.078    |
| Fe 271.441 | 0.4843      | ppb   | 1.6254  | 335.6  | 20.6286    |
| K 766.491  | 0.2506      | ppb   | 0.7865  | 313.8  | 304.406    |
| Mg 279.078 | 1.7629      | ppb   | 1.2382  | 70.2   | 36.6350    |
| Mn 257.610 | 0.0049      | ppb   | 0.0209  | 424.1  | 30.2893    |
| Mo 202.032 | -0.4122     | ppb   | 0.3272  | 79.4   | 6.3100     |
| Na 330.237 | 8.7163      | ppb   | 19.9643 | 229.0  | 46.3165    |
| Ni 231.604 | 0.3576      | ppb   | 0.9242  | 258.5  | -1.0300    |
| Pb 220.353 | -0.5931     | ppb   | 1.0166  | 171.4  | 22.1723    |
| Sb 206.834 | 0.8057      | ppb   | 2.5277  | 313.7  | -4.1330    |
| Se 196.026 | -4.3114     | ppb   | 5.8608  | 135.9  | 5.1522     |
| Sn 189.925 | 0.0572      | ppb   | 1.3026  | 2278.6 | -12.8026   |
| Sr 216.596 | -0.2876     | ppb   | 0.1973  | 68.6   | 15.2944    |
| Ti 334.941 | 0.0372      | ppb   | 0.0042  | 11.2   | -46.9812   |
| Tl 190.794 | 1.1442      | ppb   | 1.6536  | 144.5  | -12.9138   |
| V 292.401  | 0.2281      | ppb   | 0.0730  | 32.0   | -9.9848    |
| Zn 206.200 | -0.4712     | ppb   | 0.4579  | 128.3  | -1.6534    |

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**IDL (Samp)** **5/28/2013, 2:34:43 PM** **Rack 1, Tube 7**  
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.2646                   | 0.0266    | 0.0446    |
| Al 308.215 | 3.4102                   | 6.6555    | 2.2310    |
| As 188.980 | -1.3975u                 | -10.2212u | 1.3601    |
| B 249.678  | 3.2406                   | 3.6024    | 3.3669    |
| Ba 389.178 | -0.0832u                 | 0.0030    | 0.6586    |
| Be 313.042 | 0.0157                   | 0.0166    | 0.0145    |
| Ca 370.602 | 4.190                    | -0.0518u  | 1.829     |
| Cd 226.502 | -0.0585u                 | -0.1192u  | 0.1029    |
| Co 228.615 | 0.2267                   | -0.1093u  | 0.3992    |
| Cr 267.716 | 0.0731                   | 0.0941    | 0.1534    |
| Cu 324.754 | -0.0257u                 | -0.0285u  | -0.1446u  |
| Fe 271.441 | 0.5091                   | -2.8539u  | 1.7695    |
| K 766.491  | 0.8691                   | 1.2919    | 1.2452    |
| Mg 279.078 | -0.2581u                 | 1.4299    | 0.8483    |
| Mn 257.610 | 0.0173                   | 0.0420    | -0.0169u  |
| Mo 202.032 | -0.1883u                 | -0.1726u  | -0.3348u  |
| Na 330.237 | -104.223u                | 2.9698    | -249.810u |
| Ni 231.604 | 0.4776                   | 1.0729    | 0.0658    |
| Pb 220.353 | -0.0590u                 | -5.1133u  | -2.8411u  |
| Sb 206.834 | 6.1071                   | 3.5519    | 5.7744    |
| Se 196.026 | -2.2156u                 | 1.9589    | 3.9893    |
| Sn 189.925 | 0.5895                   | 0.8298    | -1.5762u  |
| Sr 216.596 | -0.3933u                 | -0.3285u  | 0.0349    |
| Ti 334.941 | -0.0187u                 | 0.0891    | 0.0313    |
| Tl 190.794 | 2.9378                   | 1.5775    | -1.8421u  |
| V 292.401  | 0.0544                   | 0.1965    | -0.3808u  |
| Zn 206.200 | -0.1214u                 | 1.9335    | 0.6034    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1120      | ppb   | 0.1325  | 118.4  | -37.4451   |
| Al 308.215 | 4.0989      | ppb   | 2.2912  | 55.9   | 207.799    |
| As 188.980 | -3.4195     | ppb   | 6.0496  | 176.9  | -6.0651    |
| B 249.678  | 3.4033      | ppb   | 0.1836  | 5.4    | 151.944    |
| Ba 389.178 | 0.1928      | ppb   | 0.4057  | 210.4  | -6.9037    |
| Be 313.042 | 0.0156      | ppb   | 0.0010  | 6.6    | -218.674   |
| Ca 370.602 | 1.989       | ppb   | 2.125   | 106.9  | -7.745     |
| Cd 226.502 | -0.0249     | ppb   | 0.1148  | 460.5  | 17.9727    |
| Co 228.615 | 0.1722      | ppb   | 0.2586  | 150.2  | 5.5171     |
| Cr 267.716 | 0.1069      | ppb   | 0.0416  | 39.0   | 11.1101    |
| Cu 324.754 | -0.0663     | ppb   | 0.0679  | 102.4  | 151.918    |
| Fe 271.441 | -0.1918     | ppb   | 2.3900  | 1246.3 | 19.6250    |
| K 766.491  | 1.1354      | ppb   | 0.2318  | 20.4   | 333.106    |
| Mg 279.078 | 0.6733      | ppb   | 0.8575  | 127.3  | 34.3405    |
| Mn 257.610 | 0.0141      | ppb   | 0.0296  | 209.8  | 32.2755    |
| Mo 202.032 | -0.2319     | ppb   | 0.0894  | 38.6   | 7.4910     |
| Na 330.237 | -117.021    | ppb   | 126.875 | 108.4  | 40.4333    |
| Ni 231.604 | 0.5388      | ppb   | 0.5063  | 94.0   | -0.5605    |
| Pb 220.353 | -2.6711     | ppb   | 2.5314  | 94.8   | 19.0839    |
| Sb 206.834 | 5.1445      | ppb   | 1.3892  | 27.0   | 0.0231     |
| Se 196.026 | 1.2442      | ppb   | 3.1636  | 254.3  | 7.7615     |
| Sn 189.925 | -0.0523     | ppb   | 1.3252  | 2532.6 | -12.8916   |
| Sr 216.596 | -0.2290     | ppb   | 0.2308  | 100.8  | 15.8946    |
| Ti 334.941 | 0.0339      | ppb   | 0.0539  | 159.1  | -47.8167   |
| Tl 190.794 | 0.8911      | ppb   | 2.4628  | 276.4  | -13.1192   |
| V 292.401  | -0.0433     | ppb   | 0.3008  | 695.0  | -16.4278   |
| Zn 206.200 | 0.8052      | ppb   | 1.0422  | 129.4  | 6.3130     |

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**IDL (Samp)** **5/28/2013, 2:39:19 PM** **Rack 1, Tube 8**  
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2364                   | -0.3218u | -0.0708u |
| Al 308.215 | 4.7562                   | 5.5886   | 6.2335   |
| As 188.980 | 0.7757                   | -1.3874u | -0.2543u |
| B 249.678  | 3.0920                   | 3.4967   | 2.3340   |
| Ba 389.178 | -0.0410u                 | 0.5163   | -0.2442u |
| Be 313.042 | -0.0044u                 | 0.0004   | 0.0022   |
| Ca 370.602 | 6.870                    | 10.60    | 4.390    |
| Cd 226.502 | -0.1065u                 | -0.2187u | 0.0692   |
| Co 228.615 | 0.0197                   | -0.1884u | 0.1626   |
| Cr 267.716 | 0.0768                   | -0.0080u | -0.0615u |
| Cu 324.754 | -0.5074u                 | -0.4279u | 0.2161   |
| Fe 271.441 | -0.1134u                 | 1.0908   | -1.2476u |
| K 766.491  | -0.1415u                 | 0.3066   | 1.2159   |
| Mg 279.078 | 0.6315                   | 2.9794   | 1.2603   |
| Mn 257.610 | -0.0142u                 | 0.0001   | 0.0275   |
| Mo 202.032 | 0.0522                   | -0.0078u | 0.2426   |
| Na 330.237 | 0.5820                   | -5.7287u | 32.1615  |
| Ni 231.604 | -1.2242u                 | 1.1677   | 0.3006   |
| Pb 220.353 | 0.7615                   | -2.0984u | -0.2553u |
| Sb 206.834 | 1.2654                   | 5.1052   | 0.8047   |
| Se 196.026 | 5.4858                   | -2.1697u | -1.3505u |
| Sn 189.925 | -1.9172u                 | -5.2308u | -1.6277u |
| Sr 216.596 | -0.4424u                 | -0.5588u | -0.2907u |
| Ti 334.941 | 0.0623                   | 0.0301   | 0.0311   |
| Tl 190.794 | -3.2895u                 | 0.6089   | -2.5662u |
| V 292.401  | -0.0822u                 | 0.1380   | -0.0535u |
| Zn 206.200 | 0.9151                   | -0.3487u | -0.2645u |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.0521     | ppb   | 0.2796  | 536.9   | -49.0130   |
| Al 308.215 | 5.5261      | ppb   | 0.7406  | 13.4    | 216.236    |
| As 188.980 | -0.2887     | ppb   | 1.0819  | 374.8   | -4.2166    |
| B 249.678  | 2.9743      | ppb   | 0.5902  | 19.8    | 146.172    |
| Ba 389.178 | 0.0770      | ppb   | 0.3937  | 511.2   | -9.0033    |
| Be 313.042 | -0.0006     | ppb   | 0.0034  | 587.6   | -247.299   |
| Ca 370.602 | 7.287       | ppb   | 3.126   | 42.9    | 2.700      |
| Cd 226.502 | -0.0853     | ppb   | 0.1451  | 170.1   | 15.9869    |
| Co 228.615 | -0.0020     | ppb   | 0.1765  | 8614.5  | 3.5507     |
| Cr 267.716 | 0.0025      | ppb   | 0.0697  | 2828.8  | 6.3864     |
| Cu 324.754 | -0.2398     | ppb   | 0.3968  | 165.5   | 142.673    |
| Fe 271.441 | -0.0901     | ppb   | 1.1694  | 1298.1  | 19.7602    |
| K 766.491  | 0.4603      | ppb   | 0.6916  | 150.2   | 311.209    |
| Mg 279.078 | 1.6237      | ppb   | 1.2154  | 74.9    | 36.3419    |
| Mn 257.610 | 0.0045      | ppb   | 0.0212  | 473.9   | 30.1932    |
| Mo 202.032 | 0.0957      | ppb   | 0.1307  | 136.7   | 9.6353     |
| Na 330.237 | 9.0050      | ppb   | 20.3009 | 225.4   | 46.3217    |
| Ni 231.604 | 0.0814      | ppb   | 1.2109  | 1488.2  | -1.7468    |
| Pb 220.353 | -0.5307     | ppb   | 1.4497  | 273.2   | 22.2644    |
| Sb 206.834 | 2.3918      | ppb   | 2.3611  | 98.7    | -2.6198    |
| Se 196.026 | 0.6552      | ppb   | 4.2035  | 641.6   | 7.4848     |
| Sn 189.925 | -2.9252     | ppb   | 2.0019  | 68.4    | -15.2278   |
| Sr 216.596 | -0.4307     | ppb   | 0.1345  | 31.2    | 13.8169    |
| Ti 334.941 | 0.0412      | ppb   | 0.0183  | 44.5    | -45.9949   |
| Tl 190.794 | -1.7489     | ppb   | 2.0737  | 118.6   | -15.2692   |
| V 292.401  | 0.0008      | ppb   | 0.1197  | 15406.1 | -15.4297   |
| Zn 206.200 | 0.1006      | ppb   | 0.7066  | 702.5   | 5.3970     |

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**IDL (Samp)** **5/28/2013, 2:43:55 PM** **Rack 1, Tube 9**  
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0616                   | -0.0871u | -0.2760u |
| Al 308.215 | 3.8189                   | 4.2018   | 4.4425   |
| As 188.980 | -2.2220u                 | 0.1320   | -1.9703u |
| B 249.678  | 2.5959                   | 2.2305   | 1.7788   |
| Ba 389.178 | -0.0101u                 | -0.3423u | 0.6296   |
| Be 313.042 | 0.0041                   | 0.0045   | 0.0167   |
| Ca 370.602 | 4.569                    | 6.689    | 2.588    |
| Cd 226.502 | 0.0122                   | 0.0987   | -0.0273u |
| Co 228.615 | 0.3115                   | -0.0768u | -0.3888u |
| Cr 267.716 | 0.0885                   | 0.1069   | -0.1562u |
| Cu 324.754 | 0.1491                   | 0.0481   | 0.1725   |
| Fe 271.441 | 0.2879                   | 7.0405   | 1.8501   |
| K 766.491  | -0.5561u                 | -0.5342u | -0.1626u |
| Mg 279.078 | 2.1398                   | 1.9345   | 0.8920   |
| Mn 257.610 | 0.0563                   | 0.1134   | 0.0898   |
| Mo 202.032 | -0.0889u                 | 0.0978   | 0.5935   |
| Na 330.237 | 2.5490                   | 46.1211  | 99.5014  |
| Ni 231.604 | 1.2498                   | 0.3383   | 0.5717   |
| Pb 220.353 | -4.4396u                 | -2.0893u | -1.9836u |
| Sb 206.834 | -0.5500u                 | 5.5490   | 3.5301   |
| Se 196.026 | 0.9542                   | -8.5097u | -3.2617u |
| Sn 189.925 | -0.7731u                 | -1.0008u | -1.4081u |
| Sr 216.596 | -0.7203u                 | -0.6343u | -0.0483u |
| Ti 334.941 | -0.0096u                 | 0.0427   | -0.0002u |
| Tl 190.794 | 0.3359                   | -2.6407u | 2.1616   |
| V 292.401  | 0.1194                   | 0.1792   | -0.0146u |
| Zn 206.200 | 0.0373                   | -0.6386u | -0.1129u |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1005     | ppb   | 0.1692  | 168.3  | -52.4490   |
| Al 308.215 | 4.1544      | ppb   | 0.3145  | 7.6    | 208.133    |
| As 188.980 | -1.3534     | ppb   | 1.2926  | 95.5   | -4.8453    |
| B 249.678  | 2.2017      | ppb   | 0.4093  | 18.6   | 135.800    |
| Ba 389.178 | 0.0924      | ppb   | 0.4940  | 534.6  | -8.7234    |
| Be 313.042 | 0.0084      | ppb   | 0.0071  | 84.6   | -231.388   |
| Ca 370.602 | 4.615       | ppb   | 2.051   | 44.4   | -2.594     |
| Cd 226.502 | 0.0278      | ppb   | 0.0644  | 231.4  | 19.7235    |
| Co 228.615 | -0.0514     | ppb   | 0.3508  | 682.9  | 2.9914     |
| Cr 267.716 | 0.0131      | ppb   | 0.1469  | 1122.5 | 6.8661     |
| Cu 324.754 | 0.1232      | ppb   | 0.0661  | 53.7   | 162.040    |
| Fe 271.441 | 3.0595      | ppb   | 3.5350  | 115.5  | 24.5694    |
| K 766.491  | -0.4177     | ppb   | 0.2211  | 52.9   | 282.728    |
| Mg 279.078 | 1.6554      | ppb   | 0.6691  | 40.4   | 36.4075    |
| Mn 257.610 | 0.0865      | ppb   | 0.0287  | 33.2   | 48.0659    |
| Mo 202.032 | 0.2008      | ppb   | 0.3527  | 175.6  | 10.3236    |
| Na 330.237 | 49.3906     | ppb   | 48.5588 | 98.3   | 48.2111    |
| Ni 231.604 | 0.7199      | ppb   | 0.4735  | 65.8   | -0.0900    |
| Pb 220.353 | -2.8375     | ppb   | 1.3885  | 48.9   | 18.8364    |
| Sb 206.834 | 2.8430      | ppb   | 3.1070  | 109.3  | -2.1882    |
| Se 196.026 | -3.6058     | ppb   | 4.7413  | 131.5  | 5.4837     |
| Sn 189.925 | -1.0607     | ppb   | 0.3217  | 30.3   | -13.7116   |
| Sr 216.596 | -0.4676     | ppb   | 0.3657  | 78.2   | 13.4167    |
| Ti 334.941 | 0.0110      | ppb   | 0.0279  | 254.0  | -53.5756   |
| Tl 190.794 | -0.0477     | ppb   | 2.4240  | 5080.0 | -13.8843   |
| V 292.401  | 0.0947      | ppb   | 0.0992  | 104.8  | -13.2276   |
| Zn 206.200 | -0.2381     | ppb   | 0.3549  | 149.1  | -4.9565    |





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**mb 680-277984/1-a (Samp)**      **5/28/2013, 2:53:20 PM**      **Rack 1, Tube 11**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.0429                   | -0.1294u  | 0.0431    |
| Al 308.215 | 8.1642                   | 6.5849    | 5.5210    |
| As 188.980 | 1.6342                   | -5.0014u  | -0.7624u  |
| B 249.678  | 4.0762                   | 3.7432    | 3.3358    |
| Ba 389.178 | -0.3984u                 | -0.5725u  | 0.0793    |
| Be 313.042 | 0.0116                   | 0.0084    | 0.0046    |
| Ca 370.602 | 1.510                    | 2.693     | 4.585     |
| Cd 226.502 | -0.0002                  | 0.0091    | 0.1191    |
| Co 228.615 | 0.0883                   | 0.0081    | 0.6068    |
| Cr 267.716 | 0.0584                   | 0.0009    | 0.1759    |
| Cu 324.754 | -0.2761u                 | 0.4774    | 0.2267    |
| Fe 271.441 | -0.3214u                 | 5.9785    | 6.3149    |
| K 766.491  | 0.0772                   | 1.4131    | -0.2592u  |
| Mg 279.078 | 3.1033                   | 3.8724    | 4.1870    |
| Mn 257.610 | 0.0214                   | -0.0026u  | 0.0129    |
| Mo 202.032 | -0.4752u                 | -0.3833u  | 0.1415    |
| Na 330.237 | -55.3988u                | -27.6925u | -205.188u |
| Ni 231.604 | 1.7092                   | 0.4856    | -0.0356u  |
| Pb 220.353 | -4.0155u                 | 0.1482    | -3.0087u  |
| Sb 206.834 | -3.0533u                 | 1.0416    | 4.8586    |
| Se 196.026 | 5.1845                   | -0.2868u  | -3.0878u  |
| Sn 189.925 | -1.9626u                 | -2.3253u  | 1.2743    |
| Sr 216.596 | -0.0210u                 | -0.2513u  | -0.5429u  |
| Ti 334.941 | 0.0450                   | 0.0118    | -0.0081u  |
| Tl 190.794 | 1.8663                   | -4.6272u  | 2.5428    |
| V 292.401  | 0.2232                   | 0.1251    | -0.0986u  |
| Zn 206.200 | -0.0350u                 | 1.2939    | -0.0285u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0144     | ppb   | 0.0995  | 689.1  | -46.3776   |
| Al 308.215 | 6.7567      | ppb   | 1.3299  | 19.7   | 223.457    |
| As 188.980 | -1.3765     | ppb   | 3.3602  | 244.1  | -4.8588    |
| B 249.678  | 3.7184      | ppb   | 0.3708  | 10.0   | 156.167    |
| Ba 389.178 | -0.2972     | ppb   | 0.3375  | 113.5  | -15.8122   |
| Be 313.042 | 0.0082      | ppb   | 0.0035  | 43.1   | -231.786   |
| Ca 370.602 | 2.929       | ppb   | 1.551   | 52.9   | -6.087     |
| Cd 226.502 | 0.0427      | ppb   | 0.0664  | 155.6  | 20.2188    |
| Co 228.615 | 0.2344      | ppb   | 0.3250  | 138.6  | 6.2173     |
| Cr 267.716 | 0.0784      | ppb   | 0.0892  | 113.8  | 9.8224     |
| Cu 324.754 | 0.1427      | ppb   | 0.3837  | 268.9  | 163.067    |
| Fe 271.441 | 3.9907      | ppb   | 3.7382  | 93.7   | 26.0248    |
| K 766.491  | 0.4104      | ppb   | 0.8845  | 215.5  | 309.588    |
| Mg 279.078 | 3.7209      | ppb   | 0.5575  | 15.0   | 40.7568    |
| Mn 257.610 | 0.0106      | ppb   | 0.0122  | 115.2  | 31.5350    |
| Mo 202.032 | -0.2390     | ppb   | 0.3327  | 139.2  | 7.4442     |
| Na 330.237 | -96.0933    | ppb   | 95.4894 | 99.4   | 41.4145    |
| Ni 231.604 | 0.7198      | ppb   | 0.8957  | 124.4  | -0.0910    |
| Pb 220.353 | -2.2920     | ppb   | 2.1724  | 94.8   | 19.6475    |
| Sb 206.834 | 0.9490      | ppb   | 3.9567  | 417.0  | -3.9970    |
| Se 196.026 | 0.6033      | ppb   | 4.2074  | 697.4  | 7.4605     |
| Sn 189.925 | -1.0045     | ppb   | 1.9819  | 197.3  | -13.6659   |
| Sr 216.596 | -0.2717     | ppb   | 0.2615  | 96.2   | 15.4578    |
| Ti 334.941 | 0.0162      | ppb   | 0.0268  | 165.2  | -52.2438   |
| Tl 190.794 | -0.0727     | ppb   | 3.9588  | 5445.3 | -13.9039   |
| V 292.401  | 0.0833      | ppb   | 0.1649  | 198.1  | -13.4361   |
| Zn 206.200 | 0.4101      | ppb   | 0.7654  | 186.6  | 5.7993     |

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ics 680-277984/2-a (Samp)      5/28/2013, 2:57:56 PM      Rack 1, Tube 12  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 51.4816                  | 51.4450 | 51.8181 |
| Al 308.215 | 4985.31                  | 4926.59 | 4908.72 |
| As 188.980 | 104.660                  | 102.302 | 110.878 |
| B 249.678  | 199.953                  | 199.282 | 198.365 |
| Ba 389.178 | 100.203                  | 99.6555 | 98.7096 |
| Be 313.042 | 52.1658                  | 51.6802 | 51.5335 |
| Ca 370.602 | 5004                     | 4951    | 4935    |
| Cd 226.502 | 51.6684                  | 51.1463 | 50.9357 |
| Co 228.615 | 51.7058                  | 50.7772 | 51.0998 |
| Cr 267.716 | 102.891                  | 101.743 | 101.139 |
| Cu 324.754 | 101.591                  | 100.099 | 100.522 |
| Fe 271.441 | 4993.36                  | 4938.21 | 4919.92 |
| K 766.491  | 4885.78                  | 4859.69 | 4842.57 |
| Mg 279.078 | 5055.23                  | 5002.14 | 4985.58 |
| Mn 257.610 | 525.134                  | 520.938 | 518.549 |
| Mo 202.032 | 103.606                  | 103.396 | 102.256 |
| Na 330.237 | 5035.85                  | 4701.65 | 4579.09 |
| Ni 231.604 | 102.549                  | 101.991 | 101.210 |
| Pb 220.353 | 53.0397                  | 51.5194 | 52.7443 |
| Sb 206.834 | 48.0509                  | 52.8060 | 57.9207 |
| Se 196.026 | 102.057                  | 112.025 | 104.988 |
| Sn 189.925 | 205.204                  | 203.290 | 199.536 |
| Sr 216.596 | 100.688                  | 100.722 | 99.6765 |
| Ti 334.941 | 100.444                  | 99.5691 | 99.3340 |
| Tl 190.794 | 39.8862                  | 43.9701 | 43.9760 |
| V 292.401  | 102.202                  | 101.576 | 101.524 |
| Zn 206.200 | 103.498                  | 99.1787 | 101.718 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 51.5816     | ppb   | 0.2056  | 0.4  | 3594.53    |
| Al 308.215 | 4940.20     | ppb   | 40.0693 | 0.8  | 29316.5    |
| As 188.980 | 105.947     | ppb   | 4.4307  | 4.2  | 58.4821    |
| B 249.678  | 199.200     | ppb   | 0.7972  | 0.4  | 2772.45    |
| Ba 389.178 | 99.5227     | ppb   | 0.7556  | 0.8  | 1817.50    |
| Be 313.042 | 51.7932     | ppb   | 0.3309  | 0.6  | 91167.0    |
| Ca 370.602 | 4963        | ppb   | 36.21   | 0.7  | 9781       |
| Cd 226.502 | 51.2501     | ppb   | 0.3772  | 0.7  | 1725.68    |
| Co 228.615 | 51.1942     | ppb   | 0.4714  | 0.9  | 579.053    |
| Cr 267.716 | 101.924     | ppb   | 0.8900  | 0.9  | 4622.02    |
| Cu 324.754 | 100.737     | ppb   | 0.7693  | 0.8  | 5533.47    |
| Fe 271.441 | 4950.50     | ppb   | 38.2291 | 0.8  | 7593.64    |
| K 766.491  | 4862.68     | ppb   | 21.7591 | 0.4  | 158034     |
| Mg 279.078 | 5014.31     | ppb   | 36.3867 | 0.7  | 10581.3    |
| Mn 257.610 | 521.540     | ppb   | 3.3336  | 0.6  | 113705     |
| Mo 202.032 | 103.086     | ppb   | 0.7265  | 0.7  | 683.566    |
| Na 330.237 | 4772.20     | ppb   | 236.413 | 5.0  | 265.540    |
| Ni 231.604 | 101.917     | ppb   | 0.6724  | 0.7  | 262.460    |
| Pb 220.353 | 52.4345     | ppb   | 0.8061  | 1.5  | 101.116    |
| Sb 206.834 | 52.9259     | ppb   | 4.9360  | 9.3  | 45.9492    |
| Se 196.026 | 106.357     | ppb   | 5.1229  | 4.8  | 57.2669    |
| Sn 189.925 | 202.677     | ppb   | 2.8834  | 1.4  | 151.965    |
| Sr 216.596 | 100.362     | ppb   | 0.5940  | 0.6  | 1059.50    |
| Ti 334.941 | 99.7825     | ppb   | 0.5851  | 0.6  | 25005.3    |
| Tl 190.794 | 42.6108     | ppb   | 2.3595  | 5.5  | 20.5131    |
| V 292.401  | 101.767     | ppb   | 0.3773  | 0.4  | 2370.99    |
| Zn 206.200 | 101.465     | ppb   | 2.1707  | 2.1  | 136.947    |

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680-90643-a-1-a (Samp) 5/28/2013, 3:11:39 PM Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 5.3844                   | 5.2586   | 5.3217   |
| Al 308.215 | 557.546                  | 563.267  | 561.662  |
| As 188.980 | -3.5682u                 | -0.1938u | -0.5711u |
| B 249.678  | 2436.59                  | 2449.37  | 2467.09  |
| Ba 389.178 | 123.815                  | 123.918  | 124.605  |
| Be 313.042 | 0.0304                   | 0.0263   | 0.0292   |
| Ca 370.602 | 9726                     | 9717     | 9763     |
| Cd 226.502 | 33.2937                  | 33.5826  | 33.5047  |
| Co 228.615 | 21.3214                  | 21.2079  | 20.9041  |
| Cr 267.716 | 35.5174                  | 35.2557  | 35.8727  |
| Cu 324.754 | 252.959                  | 254.358  | 254.033  |
| Fe 271.441 | 4443.88                  | 4444.33  | 4466.53  |
| K 766.491  | 14396.0                  | 14479.5  | 14554.5  |
| Mg 279.078 | 6773.34                  | 6771.00  | 6794.79  |
| Mn 257.610 | 305.124                  | 304.894  | 306.298  |
| Mo 202.032 | 48.2757                  | 48.1332  | 48.1298  |
| Na 330.237 | 144775x                  | 145356x  | 146191x  |
| Ni 231.604 | 279.436                  | 279.768  | 282.093  |
| Pb 220.353 | 43.7547                  | 43.9157  | 46.2611  |
| Sb 206.834 | 7.3654                   | 7.3713   | 13.2995  |
| Se 196.026 | 4.3772                   | -3.1724u | 1.9203   |
| Sn 189.925 | 5.7941                   | 1.4431   | 2.3967   |
| Sr 216.596 | 50.3983                  | 51.2034  | 51.2575  |
| Ti 334.941 | 8.2521                   | 8.6043   | 8.5953   |
| Tl 190.794 | -0.2526u                 | 1.4919   | 0.3735u  |
| V 292.401  | 17.3470                  | 18.0452  | 18.0488  |
| Zn 206.200 | 546.847                  | 549.732  | 548.917  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 5.3216b     | ppb   | 0.0629  | 1.2   | 329.477    |
| Al 308.215 | 560.825b    | ppb   | 2.9511  | 0.5   | 3491.11    |
| As 188.980 | -1.4443b    | ppb   | 1.8489  | 128.0 | -4.9476    |
| B 249.678  | 2451.01b    | ppb   | 15.3167 | 0.6   | 33017.9    |
| Ba 389.178 | 124.113b    | ppb   | 0.4295  | 0.3   | 2267.80    |
| Be 313.042 | 0.0286b     | ppb   | 0.0021  | 7.4   | -216.821   |
| Ca 370.602 | 9735b       | ppb   | 24.44   | 0.3   | 19384      |
| Cd 226.502 | 33.4604b    | ppb   | 0.1495  | 0.4   | 1135.65    |
| Co 228.615 | 21.1445b    | ppb   | 0.2157  | 1.0   | 240.516    |
| Cr 267.716 | 35.5486b    | ppb   | 0.3096  | 0.9   | 1619.59    |
| Cu 324.754 | 253.783b    | ppb   | 0.7323  | 0.3   | 13697.8    |
| Fe 271.441 | 4451.58b    | ppb   | 12.9456 | 0.3   | 6826.85    |
| K 766.491  | 14476.7b    | ppb   | 79.2565 | 0.5   | 469898     |
| Mg 279.078 | 6779.71b    | ppb   | 13.1104 | 0.2   | 14302.8    |
| Mn 257.610 | 305.438b    | ppb   | 0.7530  | 0.2   | 66635.9    |
| Mo 202.032 | 48.1796b    | ppb   | 0.0833  | 0.2   | 324.232    |
| Na 330.237 | 145441xb    | ppb   | 711.835 | 0.5   | 6823.60    |
| Ni 231.604 | 280.432b    | ppb   | 1.4478  | 0.5   | 725.665    |
| Pb 220.353 | 44.6438b    | ppb   | 1.4029  | 3.1   | 89.6552    |
| Sb 206.834 | 9.3454b     | ppb   | 3.4243  | 36.6  | 3.8591     |
| Se 196.026 | 1.0417b     | ppb   | 3.8507  | 369.7 | 7.7526     |
| Sn 189.925 | 3.2113b     | ppb   | 2.2870  | 71.2  | -10.1838   |
| Sr 216.596 | 50.9531b    | ppb   | 0.4812  | 0.9   | 545.606    |
| Ti 334.941 | 8.4839b     | ppb   | 0.2008  | 2.4   | 2090.58    |
| Tl 190.794 | 0.5376b     | ppb   | 0.8837  | 164.4 | -13.7163   |
| V 292.401  | 17.8137b    | ppb   | 0.4041  | 2.3   | 396.070    |
| Zn 206.200 | 548.499b    | ppb   | 1.4872  | 0.3   | 518.558    |

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**680-90643-a-1-aSD^5 (Samp) 5/28/2013, 3:16:13 PM Rack 1, Tube 16****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.1182                   | 1.3143   | 0.9707   |
| Al 308.215 | 122.808                  | 124.028  | 120.942  |
| As 188.980 | -0.8981u                 | -9.8167u | -3.7998u |
| B 249.678  | 570.834                  | 567.167  | 558.238  |
| Ba 389.178 | 28.2514                  | 26.4467  | 27.3923  |
| Be 313.042 | 0.0196                   | 0.0139   | 0.0134   |
| Ca 370.602 | 2113                     | 2105     | 2075     |
| Cd 226.502 | 7.4326                   | 7.5299   | 7.2159   |
| Co 228.615 | 5.1340                   | 4.8942   | 4.2459   |
| Cr 267.716 | 7.7848                   | 7.6584   | 7.9456   |
| Cu 324.754 | 56.3431                  | 56.0460  | 54.8863  |
| Fe 271.441 | 994.713                  | 983.985  | 975.160  |
| K 766.491  | 2710.06                  | 2682.00  | 2634.54  |
| Mg 279.078 | 1507.99                  | 1496.60  | 1478.79  |
| Mn 257.610 | 66.9469                  | 66.5744  | 65.3876  |
| Mo 202.032 | 9.9343                   | 11.7229  | 10.3396  |
| Na 330.237 | 29369.5                  | 29193.2  | 28846.2  |
| Ni 231.604 | 62.1753                  | 59.8006  | 60.7477  |
| Pb 220.353 | 10.3423                  | 12.3375  | 6.4623   |
| Sb 206.834 | 1.1968                   | 1.6682   | 3.5490   |
| Se 196.026 | 8.0886                   | 8.8129   | -3.1782u |
| Sn 189.925 | 0.7161                   | 0.4192   | 2.7744   |
| Sr 216.596 | 11.2892                  | 11.0983  | 11.4574  |
| Ti 334.941 | 2.1898                   | 1.6319   | 1.6003   |
| Tl 190.794 | 0.8176                   | 2.5407   | 1.9520   |
| V 292.401  | 4.0354                   | 3.9173   | 4.0647   |
| Zn 206.200 | 123.221                  | 119.932  | 118.459  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 1.1344      | ppb   | 0.1724  | 15.2  | 34.5286    |
| Al 308.215 | 122.593     | ppb   | 1.5540  | 1.3   | 906.606    |
| As 188.980 | -4.8382     | ppb   | 4.5491  | 94.0  | -6.9136    |
| B 249.678  | 565.413     | ppb   | 6.4783  | 1.1   | 7698.54    |
| Ba 389.178 | 27.3635     | ppb   | 0.9027  | 3.3   | 491.870    |
| Be 313.042 | 0.0157      | ppb   | 0.0034  | 22.0  | -222.953   |
| Ca 370.602 | 2097        | ppb   | 20.20   | 1.0   | 4166       |
| Cd 226.502 | 7.3928      | ppb   | 0.1608  | 2.2   | 265.576    |
| Co 228.615 | 4.7580      | ppb   | 0.4594  | 9.7   | 56.8918    |
| Cr 267.716 | 7.7963      | ppb   | 0.1440  | 1.8   | 360.046    |
| Cu 324.754 | 55.7585     | ppb   | 0.7698  | 1.4   | 3130.84    |
| Fe 271.441 | 984.619     | ppb   | 9.7915  | 1.0   | 1525.50    |
| K 766.491  | 2675.53     | ppb   | 38.1729 | 1.4   | 87086.6    |
| Mg 279.078 | 1494.46     | ppb   | 14.7147 | 1.0   | 3178.47    |
| Mn 257.610 | 66.3030     | ppb   | 0.8144  | 1.2   | 14488.1    |
| Mo 202.032 | 10.6656     | ppb   | 0.9378  | 8.8   | 78.7906    |
| Na 330.237 | 29136.3     | ppb   | 266.248 | 0.9   | 1403.52    |
| Ni 231.604 | 60.9079     | ppb   | 1.1954  | 2.0   | 156.077    |
| Pb 220.353 | 9.7140      | ppb   | 2.9876  | 30.8  | 37.5456    |
| Sb 206.834 | 2.1380      | ppb   | 1.2445  | 58.2  | -2.9026    |
| Se 196.026 | 4.5744      | ppb   | 6.7237  | 147.0 | 9.3443     |
| Sn 189.925 | 1.3033      | ppb   | 1.2827  | 98.4  | -11.7784   |
| Sr 216.596 | 11.2816     | ppb   | 0.1797  | 1.6   | 135.036    |
| Ti 334.941 | 1.8073      | ppb   | 0.3316  | 18.3  | 401.354    |
| Tl 190.794 | 1.7701      | ppb   | 0.8758  | 49.5  | -12.4718   |
| V 292.401  | 4.0058      | ppb   | 0.0780  | 1.9   | 77.1567    |
| Zn 206.200 | 120.537     | ppb   | 2.4379  | 2.0   | 162.018    |

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**680-90643-a-1-aPDS (Samp) 5/28/2013, 3:20:47 PM Rack 1, Tube 17****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 56.9146                  | 57.4568 | 56.9215 |
| Al 308.215 | 2634.27                  | 2629.67 | 2635.66 |
| As 188.980 | 2310.17                  | 2295.51 | 2334.33 |
| B 249.678  | 3527.79                  | 3532.42 | 3553.98 |
| Ba 389.178 | 2233.73                  | 2236.42 | 2243.81 |
| Be 313.042 | 53.9182                  | 53.8602 | 54.0942 |
| Ca 370.602 | 15061                    | 15049   | 15032   |
| Cd 226.502 | 86.5461                  | 85.7909 | 86.3403 |
| Co 228.615 | 559.787                  | 562.678 | 562.907 |
| Cr 267.716 | 247.977                  | 247.002 | 248.476 |
| Cu 324.754 | 517.868                  | 518.573 | 519.860 |
| Fe 271.441 | 5453.84                  | 5460.25 | 5465.75 |
| K 766.491  | 20223.0                  | 20176.5 | 20184.0 |
| Mg 279.078 | 12173.9                  | 12142.7 | 12188.4 |
| Mn 257.610 | 845.763                  | 845.376 | 846.048 |
| Mo 202.032 | 613.619                  | 612.281 | 614.892 |
| Na 330.237 | 150832x                  | 150079x | 150246x |
| Ni 231.604 | 806.494                  | 808.211 | 805.040 |
| Pb 220.353 | 589.041                  | 584.874 | 584.693 |
| Sb 206.834 | 533.776                  | 519.071 | 526.092 |
| Se 196.026 | 2214.61                  | 2202.66 | 2216.35 |
| Sn 189.925 | 1102.86                  | 1101.02 | 1098.47 |
| Sr 216.596 | 599.952                  | 598.972 | 600.689 |
| Ti 334.941 | 1070.58                  | 1070.94 | 1075.90 |
| Tl 190.794 | 2215.59                  | 2195.28 | 2198.34 |
| V 292.401  | 546.432                  | 546.688 | 548.407 |
| Zn 206.200 | 1077.68                  | 1071.40 | 1074.26 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 57.0976b    | ppb   | 0.3111  | 0.5  | 3966.71    |
| Al 308.215 | 2633.20b    | ppb   | 3.1375  | 0.1  | 15637.8    |
| As 188.980 | 2313.34b    | ppb   | 19.6005 | 0.8  | 1361.65    |
| B 249.678  | 3538.06b    | ppb   | 13.9773 | 0.4  | 47616.2    |
| Ba 389.178 | 2237.99b    | ppb   | 5.2176  | 0.2  | 40759.9    |
| Be 313.042 | 53.9575b    | ppb   | 0.1219  | 0.2  | 94883.3    |
| Ca 370.602 | 15047b      | ppb   | 14.51   | 0.1  | 30410      |
| Cd 226.502 | 86.2258b    | ppb   | 0.3904  | 0.5  | 2882.67    |
| Co 228.615 | 561.791b    | ppb   | 1.7388  | 0.3  | 6328.56    |
| Cr 267.716 | 247.819b    | ppb   | 0.7495  | 0.3  | 11227.2    |
| Cu 324.754 | 518.767b    | ppb   | 1.0103  | 0.2  | 27846.5    |
| Fe 271.441 | 5459.95b    | ppb   | 5.9632  | 0.1  | 8434.98    |
| K 766.491  | 20194.5b    | ppb   | 24.9437 | 0.1  | 655375     |
| Mg 279.078 | 12168.3b    | ppb   | 23.3428 | 0.2  | 25639.0    |
| Mn 257.610 | 845.729b    | ppb   | 0.3372  | 0.0  | 184390     |
| Mo 202.032 | 613.597b    | ppb   | 1.3059  | 0.2  | 4025.35    |
| Na 330.237 | 150386xb    | ppb   | 395.412 | 0.3  | 7043.52    |
| Ni 231.604 | 806.582b    | ppb   | 1.5872  | 0.2  | 2089.65    |
| Pb 220.353 | 586.203b    | ppb   | 2.4598  | 0.4  | 893.172    |
| Sb 206.834 | 526.313b    | ppb   | 7.3552  | 1.4  | 494.751    |
| Se 196.026 | 2211.21b    | ppb   | 7.4563  | 0.3  | 1045.90    |
| Sn 189.925 | 1100.78b    | ppb   | 2.2080  | 0.2  | 882.331    |
| Sr 216.596 | 599.871b    | ppb   | 0.8617  | 0.1  | 6216.57    |
| Ti 334.941 | 1072.47b    | ppb   | 2.9731  | 0.3  | 269125     |
| Tl 190.794 | 2203.07b    | ppb   | 10.9535 | 0.5  | 1780.37    |
| V 292.401  | 547.176b    | ppb   | 1.0737  | 0.2  | 12827.3    |
| Zn 206.200 | 1074.45b    | ppb   | 3.1466  | 0.3  | 1491.92    |

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**680-90643-a-1-b ms (Samp) 5/28/2013, 3:25:22 PM Rack 1, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 60.2675                  | 60.7249 | 61.3436 |
| Al 308.215 | 5766.61                  | 5707.04 | 5738.86 |
| As 188.980 | 115.514                  | 108.304 | 118.469 |
| B 249.678  | 2707.81                  | 2705.74 | 2716.69 |
| Ba 389.178 | 226.789                  | 227.044 | 227.565 |
| Be 313.042 | 53.4909                  | 53.4119 | 53.5771 |
| Ca 370.602 | 14772                    | 14772   | 14850   |
| Cd 226.502 | 91.0611                  | 91.4595 | 91.2102 |
| Co 228.615 | 73.2761                  | 72.7518 | 73.0683 |
| Cr 267.716 | 142.084                  | 141.542 | 142.598 |
| Cu 324.754 | 468.485                  | 470.314 | 473.809 |
| Fe 271.441 | 9620.65                  | 9623.09 | 9642.96 |
| K 766.491  | 19856.7                  | 19858.7 | 19951.2 |
| Mg 279.078 | 11913.7                  | 11884.5 | 11933.9 |
| Mn 257.610 | 838.408                  | 837.968 | 840.745 |
| Mo 202.032 | 162.772                  | 160.371 | 161.932 |
| Na 330.237 | 150991x                  | 150690x | 150596x |
| Ni 231.604 | 385.620                  | 385.555 | 383.338 |
| Pb 220.353 | 101.460                  | 100.668 | 103.938 |
| Sb 206.834 | 59.9651                  | 60.0869 | 56.4361 |
| Se 196.026 | 107.185                  | 108.506 | 104.735 |
| Sn 189.925 | 210.143                  | 204.004 | 209.144 |
| Sr 216.596 | 155.332                  | 154.177 | 153.819 |
| Ti 334.941 | 112.601                  | 111.622 | 111.320 |
| Tl 190.794 | 43.5056                  | 38.6731 | 40.8401 |
| V 292.401  | 121.877                  | 121.610 | 122.000 |
| Zn 206.200 | 668.536                  | 670.327 | 673.451 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 60.7786b    | ppb   | 0.5401  | 0.9  | 4242.90    |
| Al 308.215 | 5737.50b    | ppb   | 29.8099 | 0.5  | 34019.3    |
| As 188.980 | 114.096b    | ppb   | 5.2285  | 4.6  | 63.2421    |
| B 249.678  | 2710.08b    | ppb   | 5.8151  | 0.2  | 36487.7    |
| Ba 389.178 | 227.132b    | ppb   | 0.3955  | 0.2  | 4159.90    |
| Be 313.042 | 53.4933b    | ppb   | 0.0826  | 0.2  | 94145.6    |
| Ca 370.602 | 14798b      | ppb   | 45.44   | 0.3  | 29367      |
| Cd 226.502 | 91.2436b    | ppb   | 0.2013  | 0.2  | 3059.07    |
| Co 228.615 | 73.0321b    | ppb   | 0.2640  | 0.4  | 823.609    |
| Cr 267.716 | 142.075b    | ppb   | 0.5285  | 0.4  | 6443.68    |
| Cu 324.754 | 470.870b    | ppb   | 2.7048  | 0.6  | 25283.6    |
| Fe 271.441 | 9628.90b    | ppb   | 12.2322 | 0.1  | 14747.4    |
| K 766.491  | 19888.8b    | ppb   | 53.9838 | 0.3  | 645460     |
| Mg 279.078 | 11910.7b    | ppb   | 24.8691 | 0.2  | 25096.5    |
| Mn 257.610 | 839.040b    | ppb   | 1.4926  | 0.2  | 182941     |
| Mo 202.032 | 161.692b    | ppb   | 1.2187  | 0.8  | 1067.04    |
| Na 330.237 | 150759xb    | ppb   | 206.490 | 0.1  | 7068.38    |
| Ni 231.604 | 384.837b    | ppb   | 1.2992  | 0.3  | 996.543    |
| Pb 220.353 | 102.022b    | ppb   | 1.7058  | 1.7  | 175.062    |
| Sb 206.834 | 58.8294b    | ppb   | 2.0735  | 3.5  | 51.3512    |
| Se 196.026 | 106.809b    | ppb   | 1.9137  | 1.8  | 57.5688    |
| Sn 189.925 | 207.764b    | ppb   | 3.2942  | 1.6  | 156.156    |
| Sr 216.596 | 154.443b    | ppb   | 0.7906  | 0.5  | 1619.25    |
| Ti 334.941 | 111.848b    | ppb   | 0.6696  | 0.6  | 28051.4    |
| Tl 190.794 | 41.0063b    | ppb   | 2.4205  | 5.9  | 18.8805    |
| V 292.401  | 121.829b    | ppb   | 0.1996  | 0.2  | 2833.93    |
| Zn 206.200 | 670.771b    | ppb   | 2.4876  | 0.4  | 877.288    |

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**680-90643-a-1-c msd (Samp) 5/28/2013, 3:29:56 PM Rack 1, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 60.0573                  | 59.8160 | 59.7219 |
| Al 308.215 | 5666.12                  | 5734.80 | 5643.47 |
| As 188.980 | 108.836                  | 108.481 | 112.954 |
| B 249.678  | 2632.14                  | 2654.49 | 2640.76 |
| Ba 389.178 | 222.561                  | 223.062 | 220.311 |
| Be 313.042 | 53.2671                  | 53.5653 | 53.0245 |
| Ca 370.602 | 14463                    | 14548   | 14477   |
| Cd 226.502 | 88.2496                  | 88.8023 | 88.5738 |
| Co 228.615 | 71.7044                  | 72.6519 | 72.4456 |
| Cr 267.716 | 139.597                  | 140.141 | 138.957 |
| Cu 324.754 | 433.520                  | 436.880 | 434.500 |
| Fe 271.441 | 9433.10                  | 9495.86 | 9415.14 |
| K 766.491  | 19449.9                  | 19474.6 | 19308.3 |
| Mg 279.078 | 11667.3                  | 11746.5 | 11631.1 |
| Mn 257.610 | 824.297                  | 829.629 | 823.578 |
| Mo 202.032 | 158.262                  | 159.029 | 157.188 |
| Na 330.237 | 146608x                  | 147138x | 145864x |
| Ni 231.604 | 373.099                  | 377.586 | 375.017 |
| Pb 220.353 | 99.2780                  | 96.2483 | 96.6062 |
| Sb 206.834 | 62.4167                  | 59.0048 | 57.2481 |
| Se 196.026 | 108.756                  | 109.899 | 103.688 |
| Sn 189.925 | 206.694                  | 207.232 | 203.827 |
| Sr 216.596 | 151.412                  | 153.402 | 151.847 |
| Ti 334.941 | 110.366                  | 110.536 | 109.580 |
| Tl 190.794 | 39.4256                  | 40.6491 | 42.8439 |
| V 292.401  | 121.381                  | 121.288 | 120.397 |
| Zn 206.200 | 645.545                  | 651.072 | 648.203 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 59.8651b    | ppb   | 0.1730  | 0.3  | 4178.42    |
| Al 308.215 | 5681.46b    | ppb   | 47.5572 | 0.8  | 33688.6    |
| As 188.980 | 110.091b    | ppb   | 2.4865  | 2.3  | 60.8795    |
| B 249.678  | 2642.46b    | ppb   | 11.2703 | 0.4  | 35579.9    |
| Ba 389.178 | 221.978b    | ppb   | 1.4654  | 0.7  | 4065.41    |
| Be 313.042 | 53.2856b    | ppb   | 0.2709  | 0.5  | 93779.9    |
| Ca 370.602 | 14496b      | ppb   | 45.63   | 0.3  | 28768      |
| Cd 226.502 | 88.5419b    | ppb   | 0.2777  | 0.3  | 2969.31    |
| Co 228.615 | 72.2673b    | ppb   | 0.4983  | 0.7  | 815.055    |
| Cr 267.716 | 139.565b    | ppb   | 0.5922  | 0.4  | 6329.95    |
| Cu 324.754 | 434.966b    | ppb   | 1.7281  | 0.4  | 23368.0    |
| Fe 271.441 | 9448.03b    | ppb   | 42.3799 | 0.4  | 14470.9    |
| K 766.491  | 19410.9b    | ppb   | 89.7300 | 0.5  | 629958     |
| Mg 279.078 | 11681.6b    | ppb   | 59.0468 | 0.5  | 24614.5    |
| Mn 257.610 | 825.835b    | ppb   | 3.3056  | 0.4  | 180062     |
| Mo 202.032 | 158.160b    | ppb   | 0.9249  | 0.6  | 1043.92    |
| Na 330.237 | 146537xb    | ppb   | 640.272 | 0.4  | 6871.72    |
| Ni 231.604 | 375.234b    | ppb   | 2.2512  | 0.6  | 971.625    |
| Pb 220.353 | 97.3775b    | ppb   | 1.6556  | 1.7  | 168.153    |
| Sb 206.834 | 59.5565b    | ppb   | 2.6281  | 4.4  | 52.0636    |
| Se 196.026 | 107.448b    | ppb   | 3.3059  | 3.1  | 57.8654    |
| Sn 189.925 | 205.918b    | ppb   | 1.8303  | 0.9  | 154.653    |
| Sr 216.596 | 152.220b    | ppb   | 1.0459  | 0.7  | 1596.26    |
| Ti 334.941 | 110.161b    | ppb   | 0.5098  | 0.5  | 27627.4    |
| Tl 190.794 | 40.9728b    | ppb   | 1.7320  | 4.2  | 18.8670    |
| V 292.401  | 121.022b    | ppb   | 0.5435  | 0.4  | 2815.50    |
| Zn 206.200 | 648.273b    | ppb   | 2.7643  | 0.4  | 848.034    |



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**680-90637-a-1-a (Samp)**                      **5/28/2013, 3:34:31 PM**                      **Rack 1, Tube 20**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0794u                 | 0.1382u  | 0.0057u  |
| Al 308.215 | 34.5371                  | 35.3548  | 33.3243  |
| As 188.980 | -0.7078u                 | 5.0691   | -2.2932u |
| B 249.678  | 144.173                  | 138.006  | 134.030  |
| Ba 389.178 | 64.9185                  | 65.7342  | 66.2255  |
| Be 313.042 | -0.0280u                 | -0.0227u | -0.0258u |
| Ca 370.602 | 148965                   | 148617   | 148748   |
| Cd 226.502 | -0.0024                  | 0.3461   | 0.1379   |
| Co 228.615 | 0.1742                   | -0.0070u | -0.4032u |
| Cr 267.716 | 0.0486                   | 0.4518   | 0.3357   |
| Cu 324.754 | 54.1411                  | 53.9719  | 54.0187  |
| Fe 271.441 | 1099.98                  | 1113.37  | 1103.66  |
| K 766.491  | 2778.50                  | 2776.53  | 2779.25  |
| Mg 279.078 | 45681.5                  | 45693.8  | 45544.8  |
| Mn 257.610 | 82.9998                  | 82.9368  | 83.0090  |
| Mo 202.032 | 1.4471                   | 0.2318   | 1.0360   |
| Na 330.237 | 82316.4                  | 82033.3  | 81908.9  |
| Ni 231.604 | 3.0969                   | 3.3181   | 3.3280   |
| Pb 220.353 | 2.2526                   | 4.4762   | 1.1590   |
| Sb 206.834 | -2.1435u                 | 8.0621   | -2.7559u |
| Se 196.026 | 9.3182                   | 5.1158   | 4.9883   |
| Sn 189.925 | 4.9424                   | 0.0416   | -0.4799u |
| Sr 216.596 | 551.020                  | 550.594  | 549.648  |
| Ti 334.941 | -0.0398                  | -0.0769  | -0.0631  |
| Tl 190.794 | 1.8074                   | 1.5010   | -0.5910u |
| V 292.401  | 0.0397                   | 0.2583   | 0.2119   |
| Zn 206.200 | 138.642                  | 139.436  | 140.241  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0215      | ppb   | 0.1097  | 509.2 | -67.7207   |
| Al 308.215 | 34.4054     | ppb   | 1.0216  | 3.0   | 386.627    |
| As 188.980 | 0.6894      | ppb   | 3.8749  | 562.1 | -3.6494    |
| B 249.678  | 138.736     | ppb   | 5.1111  | 3.7   | 1967.55    |
| Ba 389.178 | 65.6261     | ppb   | 0.6601  | 1.0   | 1279.07    |
| Be 313.042 | -0.0255     | ppb   | 0.0027  | 10.5  | -253.146   |
| Ca 370.602 | 148777      | ppb   | 175.5   | 0.1   | 299665     |
| Cd 226.502 | 0.1605      | ppb   | 0.1754  | 109.2 | 27.0318    |
| Co 228.615 | -0.0787     | ppb   | 0.2953  | 375.3 | 2.7175     |
| Cr 267.716 | 0.2787      | ppb   | 0.2076  | 74.5  | 20.8398    |
| Cu 324.754 | 54.0439     | ppb   | 0.0874  | 0.2   | 3039.16    |
| Fe 271.441 | 1105.67     | ppb   | 6.9203  | 0.6   | 1709.92    |
| K 766.491  | 2778.09     | ppb   | 1.4060  | 0.1   | 90413.4    |
| Mg 279.078 | 45640.1     | ppb   | 82.7033 | 0.2   | 96123.2    |
| Mn 257.610 | 82.9819     | ppb   | 0.0393  | 0.0   | 18462.8    |
| Mo 202.032 | 0.9049      | ppb   | 0.6182  | 68.3  | 14.8837    |
| Na 330.237 | 82086.2     | ppb   | 208.815 | 0.3   | 3873.89    |
| Ni 231.604 | 3.2476      | ppb   | 0.1307  | 4.0   | 6.4910     |
| Pb 220.353 | 2.6293      | ppb   | 1.6904  | 64.3  | 27.0443    |
| Sb 206.834 | 1.0542      | ppb   | 6.0767  | 576.4 | -3.8843    |
| Se 196.026 | 6.4741      | ppb   | 2.4639  | 38.1  | 10.2412    |
| Sn 189.925 | 1.5013      | ppb   | 2.9914  | 199.2 | -11.5382   |
| Sr 216.596 | 550.421     | ppb   | 0.7025  | 0.1   | 5734.66    |
| Ti 334.941 | -0.0599     | ppb   | 0.0187  | 31.2  | 107.654    |
| Tl 190.794 | 0.9058      | ppb   | 1.3053  | 144.1 | -13.1981   |
| V 292.401  | 0.1700      | ppb   | 0.1152  | 67.7  | -11.6341   |
| Zn 206.200 | 139.440     | ppb   | 0.7995  | 140.6 | 140.627    |

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**680-90563-c-1-a (Samp)**                      **5/28/2013, 3:39:07 PM**                      **Rack 1, Tube 21**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1213u                 | -0.2644u | 0.0313u  |
| Al 308.215 | 23.8770                  | 23.2755  | 22.5628  |
| As 188.980 | 1.3567                   | -1.6872u | -2.6987u |
| B 249.678  | 70.1284                  | 67.3407  | 65.7529  |
| Ba 389.178 | 124.101                  | 122.765  | 124.036  |
| Be 313.042 | -0.0031u                 | 0.0010   | 0.0058   |
| Ca 370.602 | 33851                    | 33730    | 33862    |
| Cd 226.502 | -0.0349u                 | -0.1583u | -0.1716u |
| Co 228.615 | 0.2480                   | -0.3983u | -0.2552u |
| Cr 267.716 | 0.0821                   | 0.2923   | 0.2805   |
| Cu 324.754 | 499.843                  | 495.498  | 497.046  |
| Fe 271.441 | 60.0241                  | 69.0506  | 65.7173  |
| K 766.491  | 11196.3                  | 11131.5  | 11156.0  |
| Mg 279.078 | 7336.74                  | 7272.49  | 7299.91  |
| Mn 257.610 | 17.0741                  | 16.9282  | 17.0311  |
| Mo 202.032 | 0.6007                   | 0.0487   | 0.4469   |
| Na 330.237 | 60026.5                  | 59884.3  | 60007.9  |
| Ni 231.604 | 0.4704                   | 0.4849   | 2.3813   |
| Pb 220.353 | -3.0928u                 | -0.2356u | 2.5057   |
| Sb 206.834 | -2.2672u                 | 8.0572   | 6.3578   |
| Se 196.026 | 3.5927                   | 3.7088   | 3.4069   |
| Sn 189.925 | -2.6806u                 | -0.2087u | -4.2481u |
| Sr 216.596 | 499.931                  | 497.129  | 500.031  |
| Ti 334.941 | 0.2213                   | 0.1661   | 0.2544   |
| Tl 190.794 | 3.1248                   | 5.4296   | -2.9697u |
| V 292.401  | 0.0106u                  | -0.4886u | -0.5246u |
| Zn 206.200 | 33.5025                  | 35.4441  | 33.4455  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1181     | ppb   | 0.1479  | 125.2  | -74.7850   |
| Al 308.215 | 23.2384     | ppb   | 0.6579  | 2.8    | 320.808    |
| As 188.980 | -1.0097     | ppb   | 2.1109  | 209.1  | -4.6428    |
| B 249.678  | 67.7407     | ppb   | 2.2150  | 3.3    | 1015.97    |
| Ba 389.178 | 123.634     | ppb   | 0.7530  | 0.6    | 2255.06    |
| Be 313.042 | 0.0012      | ppb   | 0.0044  | 357.1  | -240.253   |
| Ca 370.602 | 33814       | ppb   | 73.45   | 0.2    | 68109      |
| Cd 226.502 | -0.1216     | ppb   | 0.0754  | 62.0   | 14.7333    |
| Co 228.615 | -0.1351     | ppb   | 0.3395  | 251.2  | 2.0632     |
| Cr 267.716 | 0.2183      | ppb   | 0.1181  | 54.1   | 17.2404    |
| Cu 324.754 | 497.463     | ppb   | 2.2022  | 0.4    | 26695.9    |
| Fe 271.441 | 64.9307     | ppb   | 4.5644  | 7.0    | 119.129    |
| K 766.491  | 11161.3     | ppb   | 32.6982 | 0.3    | 362351     |
| Mg 279.078 | 7303.05     | ppb   | 32.2396 | 0.4    | 15408.6    |
| Mn 257.610 | 17.0112     | ppb   | 0.0749  | 0.4    | 3791.72    |
| Mo 202.032 | 0.3654      | ppb   | 0.2849  | 78.0   | 11.3993    |
| Na 330.237 | 59972.9     | ppb   | 77.3016 | 0.1    | 2843.77    |
| Ni 231.604 | 1.1122      | ppb   | 1.0991  | 98.8   | 0.9292     |
| Pb 220.353 | -0.2742     | ppb   | 2.7994  | 1020.8 | 22.6520    |
| Sb 206.834 | 4.0492      | ppb   | 5.5358  | 136.7  | -1.0322    |
| Se 196.026 | 3.5695      | ppb   | 0.1523  | 4.3    | 8.8578     |
| Sn 189.925 | -2.3791     | ppb   | 2.0365  | 85.6   | -14.7490   |
| Sr 216.596 | 499.030     | ppb   | 1.6470  | 0.3    | 5190.15    |
| Ti 334.941 | 0.2139      | ppb   | 0.0446  | 20.8   | 22.7782    |
| Tl 190.794 | 1.8616      | ppb   | 4.3398  | 233.1  | -12.3403   |
| V 292.401  | -0.3342     | ppb   | 0.2991  | 89.5   | -23.7206   |
| Zn 206.200 | 34.1307     | ppb   | 1.1378  | 3.3    | 49.6556    |

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680-90556-g-1-b (Samp) 5/28/2013, 3:43:43 PM Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1823                   | -0.1772u | -0.1363u |
| Al 308.215 | 319.691                  | 319.151  | 315.908  |
| As 188.980 | -6.4675u                 | -5.6828u | 0.8023   |
| B 249.678  | 82.9024                  | 81.4304  | 81.5625  |
| Ba 389.178 | 41.5851                  | 42.0687  | 40.8920  |
| Be 313.042 | 0.0147                   | 0.0097   | 0.0190   |
| Ca 370.602 | 21659                    | 21451    | 21541    |
| Cd 226.502 | 0.1759                   | 0.1086   | 0.2672   |
| Co 228.615 | 0.2606                   | 0.0055   | 0.2496   |
| Cr 267.716 | 0.7651                   | 1.0575   | 0.9643   |
| Cu 324.754 | 13.4625                  | 13.8868  | 13.1641  |
| Fe 271.441 | 1295.07                  | 1279.98  | 1285.54  |
| K 766.491  | 3431.57                  | 3400.21  | 3403.01  |
| Mg 279.078 | 3289.21                  | 3278.34  | 3278.00  |
| Mn 257.610 | 54.2867                  | 54.0784  | 54.2503  |
| Mo 202.032 | 4.1222                   | 4.6395   | 3.3794   |
| Na 330.237 | 11733.5                  | 11538.3  | 11480.7  |
| Ni 231.604 | 2.2349                   | 2.4254   | 1.7024   |
| Pb 220.353 | 11.1802                  | 10.1915  | 8.7292   |
| Sb 206.834 | 8.1045                   | 5.6362   | 2.5045   |
| Se 196.026 | -6.7781u                 | 1.5943   | 5.5448   |
| Sn 189.925 | 0.9587                   | -0.7482u | 0.3480   |
| Sr 216.596 | 100.859                  | 100.923  | 100.922  |
| Ti 334.941 | 5.5600                   | 5.9580   | 5.6363   |
| Tl 190.794 | 3.1689                   | 1.9697   | 6.1702   |
| V 292.401  | 1.4537                   | 2.0202   | 1.6362   |
| Zn 206.200 | 61.4004                  | 61.8739  | 61.5647  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0437     | ppb   | 0.1968  | 450.2  | -52.5589   |
| Al 308.215 | 318.250     | ppb   | 2.0462  | 0.6    | 2061.17    |
| As 188.980 | -3.7827     | ppb   | 3.9900  | 105.5  | -6.2896    |
| B 249.678  | 81.9651     | ppb   | 0.8144  | 1.0    | 1204.72    |
| Ba 389.178 | 41.5153     | ppb   | 0.5914  | 1.4    | 753.433    |
| Be 313.042 | 0.0145      | ppb   | 0.0046  | 32.2   | -215.832   |
| Ca 370.602 | 21551       | ppb   | 104.3   | 0.5    | 43343      |
| Cd 226.502 | 0.1839      | ppb   | 0.0796  | 43.3   | 28.1291    |
| Co 228.615 | 0.1719      | ppb   | 0.1442  | 83.9   | 5.5720     |
| Cr 267.716 | 0.9290      | ppb   | 0.1494  | 16.1   | 49.0169    |
| Cu 324.754 | 13.5045     | ppb   | 0.3632  | 2.7    | 876.452    |
| Fe 271.441 | 1286.86     | ppb   | 7.6294  | 0.6    | 1986.92    |
| K 766.491  | 3411.59     | ppb   | 17.3550 | 0.5    | 110963     |
| Mg 279.078 | 3281.85     | ppb   | 6.3754  | 0.2    | 6941.86    |
| Mn 257.610 | 54.2051     | ppb   | 0.1113  | 0.2    | 11867.2    |
| Mo 202.032 | 4.0470      | ppb   | 0.6334  | 15.7   | 35.4460    |
| Na 330.237 | 11584.2     | ppb   | 132.500 | 1.1    | 585.229    |
| Ni 231.604 | 2.1209      | ppb   | 0.3747  | 17.7   | 3.5707     |
| Pb 220.353 | 10.0336     | ppb   | 1.2331  | 12.3   | 38.0412    |
| Sb 206.834 | 5.4151      | ppb   | 2.8065  | 51.8   | 0.2653     |
| Se 196.026 | 0.1203      | ppb   | 6.2923  | 5228.6 | 7.2505     |
| Sn 189.925 | 0.1862      | ppb   | 0.8649  | 464.6  | -12.6848   |
| Sr 216.596 | 100.901     | ppb   | 0.0364  | 0.0    | 1066.47    |
| Ti 334.941 | 5.7181      | ppb   | 0.2112  | 3.7    | 1391.27    |
| Tl 190.794 | 3.7696      | ppb   | 2.1637  | 57.4   | -10.8645   |
| V 292.401  | 1.7034      | ppb   | 0.2891  | 17.0   | 24.2187    |
| Zn 206.200 | 61.6130     | ppb   | 0.2404  | 0.4    | 85.4072    |

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680-90567-a-3-b (Samp) 5/28/2013, 3:48:18 PM Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1395u                 | -0.0361u | 0.1052   |
| Al 308.215 | 7.8611                   | 9.2144   | 9.7394   |
| As 188.980 | 0.8371                   | -2.7396u | -5.8456u |
| B 249.678  | 18.6587                  | 17.5119  | 16.6235  |
| Ba 389.178 | 0.0859                   | -0.3865u | -0.9403u |
| Be 313.042 | 0.0075                   | 0.0094   | 0.0061   |
| Ca 370.602 | 10.25                    | 3.634    | 7.387    |
| Cd 226.502 | -0.1582u                 | 0.0645   | -0.2466u |
| Co 228.615 | 0.5413                   | 0.5149   | 0.1662   |
| Cr 267.716 | 0.2007                   | 0.0745   | 0.1756   |
| Cu 324.754 | 0.2486                   | 0.0190   | -0.0972u |
| Fe 271.441 | 4.4303                   | 7.7861   | 7.7981   |
| K 766.491  | 1.1784                   | 0.8646   | 1.9364   |
| Mg 279.078 | -2.1199u                 | 2.9679   | 2.4744   |
| Mn 257.610 | 0.0404                   | 0.0192   | 0.0425   |
| Mo 202.032 | 0.1258                   | 0.0061   | -0.0500u |
| Na 330.237 | -21.9715u                | 133.826  | 69.8487  |
| Ni 231.604 | 0.7475                   | -0.3879u | -0.2376u |
| Pb 220.353 | 0.0965                   | 1.8219   | -0.2345u |
| Sb 206.834 | 3.9838                   | 3.7927   | 0.5682   |
| Se 196.026 | 2.9414                   | -5.8413u | -2.0074u |
| Sn 189.925 | 0.5893                   | 1.2289   | -0.4800u |
| Sr 216.596 | -0.3811u                 | -0.0579u | -0.7022u |
| Ti 334.941 | 0.0721                   | 0.0363   | 0.0797   |
| Tl 190.794 | 1.3905                   | -2.2449u | -1.0436u |
| V 292.401  | -0.0830u                 | -0.2278u | 0.1122   |
| Zn 206.200 | 0.8438                   | 1.2679   | -0.1195u |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0235     | ppb   | 0.1229  | 523.7  | -47.0096   |
| Al 308.215 | 8.9383      | ppb   | 0.9691  | 10.8   | 236.358    |
| As 188.980 | -2.5827     | ppb   | 3.3441  | 129.5  | -5.5711    |
| B 249.678  | 17.5980     | ppb   | 1.0203  | 5.8    | 342.575    |
| Ba 389.178 | -0.4136     | ppb   | 0.5137  | 124.2  | -17.9282   |
| Be 313.042 | 0.0077      | ppb   | 0.0017  | 21.6   | -232.735   |
| Ca 370.602 | 7.091       | ppb   | 3.320   | 46.8   | 2.016      |
| Cd 226.502 | -0.1134     | ppb   | 0.1603  | 141.3  | 15.0730    |
| Co 228.615 | 0.4075      | ppb   | 0.2094  | 51.4   | 8.1566     |
| Cr 267.716 | 0.1503      | ppb   | 0.0668  | 44.5   | 13.0808    |
| Cu 324.754 | 0.0568      | ppb   | 0.1760  | 310.0  | 158.494    |
| Fe 271.441 | 6.6715      | ppb   | 1.9410  | 29.1   | 30.1423    |
| K 766.491  | 1.3265      | ppb   | 0.5510  | 41.5   | 339.305    |
| Mg 279.078 | 1.1075      | ppb   | 2.8059  | 253.4  | 35.2544    |
| Mn 257.610 | 0.0340      | ppb   | 0.0129  | 37.9   | 36.6429    |
| Mo 202.032 | 0.0273      | ppb   | 0.0898  | 328.6  | 9.1876     |
| Na 330.237 | 60.5677     | ppb   | 78.3123 | 129.3  | 48.7189    |
| Ni 231.604 | 0.0406      | ppb   | 0.6167  | 1517.7 | -1.8532    |
| Pb 220.353 | 0.5613      | ppb   | 1.1042  | 196.7  | 23.8874    |
| Sb 206.834 | 2.7816      | ppb   | 1.9192  | 69.0   | -2.2436    |
| Se 196.026 | -1.6358     | ppb   | 4.4031  | 269.2  | 6.4089     |
| Sn 189.925 | 0.4461      | ppb   | 0.8634  | 193.6  | -12.4863   |
| Sr 216.596 | -0.3804     | ppb   | 0.3221  | 84.7   | 14.3446    |
| Ti 334.941 | 0.0627      | ppb   | 0.0232  | 37.0   | -40.5982   |
| Tl 190.794 | -0.6327     | ppb   | 1.8522  | 292.8  | -14.3598   |
| V 292.401  | -0.0662     | ppb   | 0.1706  | 257.7  | -17.0095   |
| Zn 206.200 | 0.6641      | ppb   | 0.7110  | 107.1  | 6.1294     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**mb 680-277977/1-a (Samp)**      **5/28/2013, 3:52:55 PM**      **Rack 1, Tube 24**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -0.1038u                 | 0.3928    | 0.2642   |
| Al 308.215 | 6.1485                   | 5.2994    | 6.3494   |
| As 188.980 | -3.5316u                 | -2.5299u  | -4.4290u |
| B 249.678  | 13.9603                  | 13.8718   | 13.8068  |
| Ba 389.178 | 0.2178                   | -0.6099u  | -0.3593u |
| Be 313.042 | 0.0139                   | 0.0124    | 0.0220   |
| Ca 370.602 | 6.879                    | 8.349     | 11.98    |
| Cd 226.502 | 0.1142                   | -0.1785u  | -0.0361u |
| Co 228.615 | -0.0118u                 | -0.1977u  | 0.1084   |
| Cr 267.716 | 0.0970                   | 0.2491    | 0.1808   |
| Cu 324.754 | 0.1394                   | 0.1705    | 0.2467   |
| Fe 271.441 | -2.3329u                 | 5.1227    | -0.1081u |
| K 766.491  | 1.6213                   | 1.8071    | 2.2036   |
| Mg 279.078 | 4.3370                   | 2.1994    | 3.7229   |
| Mn 257.610 | 0.2438                   | 0.2548    | 0.2631   |
| Mo 202.032 | -0.1564u                 | -0.1640u  | -0.2625u |
| Na 330.237 | -192.995u                | -92.0773u | 29.3295  |
| Ni 231.604 | -0.4559u                 | 0.3360    | 0.2310   |
| Pb 220.353 | -1.2861u                 | -2.9045u  | 1.6723   |
| Sb 206.834 | -2.9710u                 | 5.6740    | 4.2640   |
| Se 196.026 | 6.0664                   | 3.7058    | -6.6248u |
| Sn 189.925 | -0.8148u                 | -0.6052u  | 1.1520   |
| Sr 216.596 | -0.2184u                 | -0.0542u  | 0.0587   |
| Ti 334.941 | 0.0329                   | 0.0237    | 0.0373   |
| Tl 190.794 | -0.3305u                 | 2.9047    | -1.2409u |
| V 292.401  | -0.0169u                 | 0.2047    | 0.0409   |
| Zn 206.200 | 2.3631                   | 0.2452    | 1.2587   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1844      | ppb   | 0.2577  | 139.7  | -32.3351   |
| Al 308.215 | 5.9324      | ppb   | 0.5573  | 9.4    | 218.609    |
| As 188.980 | -3.4969     | ppb   | 0.9500  | 27.2   | -6.1107    |
| B 249.678  | 13.8796     | ppb   | 0.0770  | 0.6    | 292.649    |
| Ba 389.178 | -0.2505     | ppb   | 0.4244  | 169.5  | -14.9643   |
| Be 313.042 | 0.0161      | ppb   | 0.0051  | 32.0   | -217.833   |
| Ca 370.602 | 9.069       | ppb   | 2.626   | 29.0   | 6.436      |
| Cd 226.502 | -0.0335     | ppb   | 0.1464  | 437.6  | 17.6956    |
| Co 228.615 | -0.0337     | ppb   | 0.1542  | 457.7  | 3.2015     |
| Cr 267.716 | 0.1756      | ppb   | 0.0762  | 43.4   | 14.2220    |
| Cu 324.754 | 0.1855      | ppb   | 0.0552  | 29.8   | 165.353    |
| Fe 271.441 | 0.8939      | ppb   | 3.8275  | 428.2  | 21.2619    |
| K 766.491  | 1.8774      | ppb   | 0.2974  | 15.8   | 357.175    |
| Mg 279.078 | 3.4198      | ppb   | 1.1006  | 32.2   | 40.1187    |
| Mn 257.610 | 0.2539      | ppb   | 0.0097  | 3.8    | 84.5437    |
| Mo 202.032 | -0.1943     | ppb   | 0.0592  | 30.5   | 7.7370     |
| Na 330.237 | -85.2474    | ppb   | 111.319 | 130.6  | 41.9099    |
| Ni 231.604 | 0.0370      | ppb   | 0.4301  | 1161.5 | -1.8618    |
| Pb 220.353 | -0.8395     | ppb   | 2.3209  | 276.5  | 21.8058    |
| Sb 206.834 | 2.3223      | ppb   | 4.6380  | 199.7  | -2.6808    |
| Se 196.026 | 1.0491      | ppb   | 6.7498  | 643.4  | 7.6699     |
| Sn 189.925 | -0.0893     | ppb   | 1.0801  | 1209.2 | -12.9217   |
| Sr 216.596 | -0.0713     | ppb   | 0.1393  | 195.4  | 17.5405    |
| Ti 334.941 | 0.0313      | ppb   | 0.0069  | 22.1   | -48.4606   |
| Tl 190.794 | 0.4444      | ppb   | 2.1788  | 490.2  | -13.4835   |
| V 292.401  | 0.0762      | ppb   | 0.1150  | 150.8  | -13.6123   |
| Zn 206.200 | 1.2890      | ppb   | 1.0593  | 82.2   | 6.9420     |

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ics 680-277977/2-a (Samp)      5/28/2013, 4:06:48 PM      Rack 1, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 52.2044                  | 52.4577 | 52.8344 |
| Al 308.215 | 4948.06                  | 4955.84 | 4980.81 |
| As 188.980 | 106.173                  | 106.102 | 108.185 |
| B 249.678  | 206.865                  | 208.550 | 209.734 |
| Ba 389.178 | 99.2007                  | 100.945 | 99.6116 |
| Be 313.042 | 51.4756                  | 51.3643 | 51.6415 |
| Ca 370.602 | 4933                     | 4972    | 4995    |
| Cd 226.502 | 52.1647                  | 51.9129 | 52.4573 |
| Co 228.615 | 51.6394                  | 51.3470 | 51.1755 |
| Cr 267.716 | 101.659                  | 101.973 | 102.344 |
| Cu 324.754 | 99.7404                  | 100.164 | 100.240 |
| Fe 271.441 | 4964.15                  | 4968.18 | 4999.88 |
| K 766.491  | 5077.01                  | 5067.76 | 5084.98 |
| Mg 279.078 | 5064.51                  | 5067.71 | 5087.71 |
| Mn 257.610 | 521.369                  | 522.374 | 524.879 |
| Mo 202.032 | 102.767                  | 103.151 | 103.871 |
| Na 330.237 | 5079.61                  | 4683.91 | 4938.95 |
| Ni 231.604 | 99.3747                  | 100.217 | 103.058 |
| Pb 220.353 | 51.1976                  | 48.1895 | 52.7382 |
| Sb 206.834 | 52.4386                  | 57.2786 | 50.6995 |
| Se 196.026 | 106.249                  | 106.422 | 100.100 |
| Sn 189.925 | 205.964                  | 199.996 | 203.899 |
| Sr 216.596 | 101.524                  | 100.501 | 101.978 |
| Ti 334.941 | 98.9124                  | 98.8458 | 99.3732 |
| Tl 190.794 | 41.2197                  | 49.9242 | 43.3723 |
| V 292.401  | 101.068                  | 101.172 | 102.233 |
| Zn 206.200 | 104.747                  | 104.425 | 104.917 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 52.4988     | ppb   | 0.3170  | 0.6  | 3659.27    |
| Al 308.215 | 4961.57     | ppb   | 17.1145 | 0.3  | 29442.6    |
| As 188.980 | 106.820     | ppb   | 1.1823  | 1.1  | 58.9975    |
| B 249.678  | 208.383     | ppb   | 1.4419  | 0.7  | 2895.73    |
| Ba 389.178 | 99.9190     | ppb   | 0.9117  | 0.9  | 1824.87    |
| Be 313.042 | 51.4938     | ppb   | 0.1395  | 0.3  | 90638.4    |
| Ca 370.602 | 4967        | ppb   | 31.04   | 0.6  | 9786       |
| Cd 226.502 | 52.1783     | ppb   | 0.2725  | 0.5  | 1756.44    |
| Co 228.615 | 51.3873     | ppb   | 0.2346  | 0.5  | 581.203    |
| Cr 267.716 | 101.992     | ppb   | 0.3428  | 0.3  | 4625.10    |
| Cu 324.754 | 100.048     | ppb   | 0.2690  | 0.3  | 5496.71    |
| Fe 271.441 | 4977.40     | ppb   | 19.5678 | 0.4  | 7634.79    |
| K 766.491  | 5076.58     | ppb   | 8.6160  | 0.2  | 164973     |
| Mg 279.078 | 5073.31     | ppb   | 12.5701 | 0.2  | 10705.4    |
| Mn 257.610 | 522.874     | ppb   | 1.8079  | 0.3  | 113996     |
| Mo 202.032 | 103.263     | ppb   | 0.5605  | 0.5  | 684.724    |
| Na 330.237 | 4900.83     | ppb   | 200.586 | 4.1  | 271.495    |
| Ni 231.604 | 100.883     | ppb   | 1.9300  | 1.9  | 259.778    |
| Pb 220.353 | 50.7084     | ppb   | 2.3135  | 4.6  | 98.5531    |
| Sb 206.834 | 53.4722     | ppb   | 3.4092  | 6.4  | 46.4693    |
| Se 196.026 | 104.257     | ppb   | 3.6010  | 3.5  | 56.2811    |
| Sn 189.925 | 203.286     | ppb   | 3.0307  | 1.5  | 152.461    |
| Sr 216.596 | 101.335     | ppb   | 0.7566  | 0.7  | 1069.61    |
| Ti 334.941 | 99.0438     | ppb   | 0.2872  | 0.3  | 24820.1    |
| Tl 190.794 | 44.8387     | ppb   | 4.5338  | 10.1 | 22.3251    |
| V 292.401  | 101.491     | ppb   | 0.6445  | 0.6  | 2364.42    |
| Zn 206.200 | 104.696     | ppb   | 0.2499  | 0.2  | 514.150    |

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680-90465-e-1-b (Samp) 5/28/2013, 4:11:23 PM Rack 1, Tube 28

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2872                   | 0.0987   | -0.2106u |
| Al 308.215 | 4043.52                  | 4028.09  | 4020.33  |
| As 188.980 | 1.4052                   | 2.7758   | 3.5751   |
| B 249.678  | 57.3431                  | 57.0079  | 56.1666  |
| Ba 389.178 | 12.4613                  | 12.9917  | 12.4986  |
| Be 313.042 | 0.0200                   | 0.0174   | 0.0325   |
| Ca 370.602 | 57424                    | 57078    | 56789    |
| Cd 226.502 | -0.0641                  | 0.0335   | 0.0129   |
| Co 228.615 | 0.4731                   | 0.7164   | 0.1989   |
| Cr 267.716 | 1.5442                   | 1.4448   | 1.3912   |
| Cu 324.754 | 33.4595                  | 33.6556  | 33.9093  |
| Fe 271.441 | 855.828                  | 840.476  | 844.695  |
| K 766.491  | 1844.04                  | 1845.29  | 1840.82  |
| Mg 279.078 | 24767.5                  | 24627.4  | 24586.5  |
| Mn 257.610 | 54.2556                  | 54.2067  | 54.0313  |
| Mo 202.032 | 46.4596                  | 46.2253  | 46.4446  |
| Na 330.237 | 8092.61                  | 8218.90  | 8235.72  |
| Ni 231.604 | 31.2944                  | 29.6092  | 28.7266  |
| Pb 220.353 | 2.1450                   | -1.5200u | 1.4822   |
| Sb 206.834 | 6.7887                   | 7.1217   | 5.9357   |
| Se 196.026 | 6.2404                   | -4.5670u | -7.5392u |
| Sn 189.925 | 1.1751                   | 0.1845   | 0.3047   |
| Sr 216.596 | 68.2786                  | 68.7355  | 68.5773  |
| Ti 334.941 | 0.1405                   | 0.1199   | 0.2092   |
| Tl 190.794 | 2.4620                   | 4.5229   | 5.9194   |
| V 292.401  | 0.8628                   | 0.4050   | 0.5881   |
| Zn 206.200 | 4.3486                   | 4.6371   | 5.5283   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0584      | ppb   | 0.2513  | 430.1 | -44.3391   |
| Al 308.215 | 4030.65     | ppb   | 11.8041 | 0.3   | 23966.0    |
| As 188.980 | 2.5854      | ppb   | 1.0974  | 42.4  | -2.5019    |
| B 249.678  | 56.8392     | ppb   | 0.6061  | 1.1   | 868.070    |
| Ba 389.178 | 12.6505     | ppb   | 0.2960  | 2.3   | 271.645    |
| Be 313.042 | 0.0233      | ppb   | 0.0081  | 34.5  | -194.650   |
| Ca 370.602 | 57097       | ppb   | 318.0   | 0.6   | 114976     |
| Cd 226.502 | -0.0059     | ppb   | 0.0514  | 869.1 | 20.9902    |
| Co 228.615 | 0.4628      | ppb   | 0.2589  | 55.9  | 7.5687     |
| Cr 267.716 | 1.4601      | ppb   | 0.0777  | 5.3   | 72.9474    |
| Cu 324.754 | 33.6748     | ppb   | 0.2255  | 0.7   | 1953.69    |
| Fe 271.441 | 847.000     | ppb   | 7.9312  | 0.9   | 1314.65    |
| K 766.491  | 1843.39     | ppb   | 2.3058  | 0.1   | 60092.9    |
| Mg 279.078 | 24660.4     | ppb   | 94.9117 | 0.4   | 51951.6    |
| Mn 257.610 | 54.1645     | ppb   | 0.1180  | 0.2   | 12022.0    |
| Mo 202.032 | 46.3765     | ppb   | 0.1312  | 0.3   | 312.619    |
| Na 330.237 | 8182.41     | ppb   | 78.2214 | 1.0   | 427.403    |
| Ni 231.604 | 29.8767     | ppb   | 1.3047  | 4.4   | 75.5745    |
| Pb 220.353 | 0.7024      | ppb   | 1.9530  | 278.1 | 24.0402    |
| Sb 206.834 | 6.6154      | ppb   | 0.6117  | 9.2   | 0.8982     |
| Se 196.026 | -1.9553     | ppb   | 7.2515  | 370.9 | 6.2745     |
| Sn 189.925 | 0.5548      | ppb   | 0.5406  | 97.4  | -12.3715   |
| Sr 216.596 | 68.5305     | ppb   | 0.2320  | 0.3   | 733.347    |
| Ti 334.941 | 0.1565      | ppb   | 0.0467  | 29.9  | 82.4364    |
| Tl 190.794 | 4.3014      | ppb   | 1.7393  | 40.4  | -10.4239   |
| V 292.401  | 0.6186      | ppb   | 0.2304  | 37.3  | -7.4343    |
| Zn 206.200 | 4.8380      | ppb   | 0.6150  | 12.7  | 51.5612    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

640-43698-a-1-a (Samp) 5/28/2013, 4:15:57 PM Rack 1, Tube 29

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1761u                 | 0.1092u  | 0.0255u  |
| Al 308.215 | 64.4163                  | 64.6630  | 64.4309  |
| As 188.980 | -2.4213u                 | -4.1800u | -6.8354u |
| B 249.678  | 61.6534                  | 61.2044  | 61.0205  |
| Ba 389.178 | 29.4425                  | 30.0646  | 29.7518  |
| Be 313.042 | 0.0219                   | 0.0128   | 0.0167   |
| Ca 370.602 | 13532                    | 13560    | 13485    |
| Cd 226.502 | -0.1198u                 | 0.0032   | 0.1105   |
| Co 228.615 | 0.1723                   | -0.0243u | -0.3389u |
| Cr 267.716 | 0.0072                   | 0.2461   | 0.1999   |
| Cu 324.754 | 0.7787                   | 0.6546   | 0.6730   |
| Fe 271.441 | 601.473                  | 595.392  | 594.093  |
| K 766.491  | 2996.91                  | 2994.17  | 2981.88  |
| Mg 279.078 | 7884.81                  | 7891.97  | 7850.03  |
| Mn 257.610 | 49.5016                  | 49.7238  | 49.4740  |
| Mo 202.032 | 0.7026                   | 0.3038   | -0.1545u |
| Na 330.237 | 161056x                  | 160421x  | 160416x  |
| Ni 231.604 | 2.0880                   | 0.8557   | 0.3575   |
| Pb 220.353 | -0.3650u                 | -1.2665u | -1.2141u |
| Sb 206.834 | 4.6576                   | 0.7936   | 1.5450   |
| Se 196.026 | 1.4234                   | -3.7546u | -2.8226u |
| Sn 189.925 | -1.4781u                 | -1.9887u | 1.0729   |
| Sr 216.596 | 971.457                  | 975.547  | 969.751  |
| Ti 334.941 | 0.7202                   | 0.6277   | 0.7374   |
| Tl 190.794 | -0.8788u                 | -1.0962u | -1.0182u |
| V 292.401  | 0.5851                   | 0.3747   | 0.1175   |
| Zn 206.200 | 1.5836                   | 0.7060   | 0.5966   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0138b    | ppb   | 0.1467  | 1064.2 | -87.1724   |
| Al 308.215 | 64.5034b    | ppb   | 0.1384  | 0.2    | 564.150    |
| As 188.980 | -4.4789b    | ppb   | 2.2222  | 49.6   | -6.6957    |
| B 249.678  | 61.2928b    | ppb   | 0.3256  | 0.5    | 928.349    |
| Ba 389.178 | 29.7529b    | ppb   | 0.3110  | 1.0    | 548.015    |
| Be 313.042 | 0.0172b     | ppb   | 0.0046  | 26.7   | -229.328   |
| Ca 370.602 | 13525b      | ppb   | 37.81   | 0.3    | 27208      |
| Cd 226.502 | -0.0020b    | ppb   | 0.1152  | 5682.0 | 19.5576    |
| Co 228.615 | -0.0636b    | ppb   | 0.2578  | 405.1  | 2.8901     |
| Cr 267.716 | 0.1511b     | ppb   | 0.1267  | 83.9   | 16.1197    |
| Cu 324.754 | 0.7021b     | ppb   | 0.0670  | 9.5    | 193.113    |
| Fe 271.441 | 596.986b    | ppb   | 3.9396  | 0.7    | 932.393    |
| K 766.491  | 2990.99b    | ppb   | 8.0068  | 0.3    | 97319.4    |
| Mg 279.078 | 7875.60b    | ppb   | 22.4325 | 0.3    | 16613.7    |
| Mn 257.610 | 49.5664b    | ppb   | 0.1370  | 0.3    | 10889.4    |
| Mo 202.032 | 0.2839b     | ppb   | 0.4289  | 151.1  | 10.8405    |
| Na 330.237 | 160631xb    | ppb   | 368.244 | 0.2    | 7540.79    |
| Ni 231.604 | 1.1004b     | ppb   | 0.8908  | 81.0   | 0.9095     |
| Pb 220.353 | -0.9485b    | ppb   | 0.5060  | 53.3   | 21.6892    |
| Sb 206.834 | 2.3320b     | ppb   | 2.0487  | 87.8   | -2.6645    |
| Se 196.026 | -1.7179b    | ppb   | 2.7601  | 160.7  | 6.3839     |
| Sn 189.925 | -0.7980b    | ppb   | 1.6402  | 205.5  | -13.4371   |
| Sr 216.596 | 972.252b    | ppb   | 2.9784  | 0.3    | 10089.8    |
| Ti 334.941 | 0.6951b     | ppb   | 0.0590  | 8.5    | 138.944    |
| Tl 190.794 | -0.9977b    | ppb   | 0.1102  | 11.0   | -14.7078   |
| V 292.401  | 0.3591b     | ppb   | 0.2342  | 65.2   | -7.9941    |
| Zn 206.200 | 0.9621b     | ppb   | 0.5411  | 56.2   | 6.5221     |



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640-43698-a-1-aSD^5 (Samp) 5/28/2013, 4:20:32 PM Rack 1, Tube 30

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0080u                 | 0.3588   | -0.1966u |
| Al 308.215 | 15.9519                  | 18.5054  | 14.9373  |
| As 188.980 | -3.6734u                 | -4.5350u | 2.6473   |
| B 249.678  | 16.3699                  | 15.8791  | 15.4021  |
| Ba 389.178 | 5.1150                   | 5.5980   | 5.8230   |
| Be 313.042 | 0.0077                   | 0.0091   | 0.0056   |
| Ca 370.602 | 2540                     | 2559     | 2593     |
| Cd 226.502 | -0.0754u                 | -0.0221u | 0.0854   |
| Co 228.615 | 0.1586                   | 0.3208   | -0.1807u |
| Cr 267.716 | 0.0990                   | 0.1126   | 0.2024   |
| Cu 324.754 | 0.4738                   | 0.3875   | 0.2448   |
| Fe 271.441 | 115.405                  | 124.876  | 115.425  |
| K 766.491  | 485.938                  | 488.726  | 491.578  |
| Mg 279.078 | 1511.46                  | 1514.39  | 1534.31  |
| Mn 257.610 | 9.4954                   | 9.5188   | 9.6396   |
| Mo 202.032 | 0.6949                   | -0.2101u | 0.4377   |
| Na 330.237 | 28286.5                  | 28324.8  | 28773.7  |
| Ni 231.604 | 0.8257                   | 0.0656   | 1.1666   |
| Pb 220.353 | -2.6364u                 | 0.0472   | 0.9192   |
| Sb 206.834 | 0.0835                   | 3.6571   | 8.7358   |
| Se 196.026 | 1.3360                   | 2.5277   | -6.8798u |
| Sn 189.925 | -2.1947u                 | -1.3778u | -2.0052u |
| Sr 216.596 | 185.748                  | 187.195  | 187.734  |
| Ti 334.941 | 0.2462                   | 0.0667   | 0.1461   |
| Tl 190.794 | 1.2337                   | 1.0679   | 2.3550   |
| V 292.401  | 0.1781                   | -0.1110u | -0.2513u |
| Zn 206.200 | -0.2621u                 | 0.9420   | 0.2373   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0514      | ppb   | 0.2824  | 549.4  | -49.6070   |
| Al 308.215 | 16.4649     | ppb   | 1.8385  | 11.2   | 280.788    |
| As 188.980 | -1.8537     | ppb   | 3.9217  | 211.6  | -5.1417    |
| B 249.678  | 15.8837     | ppb   | 0.4839  | 3.0    | 319.345    |
| Ba 389.178 | 5.5120      | ppb   | 0.3617  | 6.6    | 93.1719    |
| Be 313.042 | 0.0075      | ppb   | 0.0018  | 23.6   | -235.434   |
| Ca 370.602 | 2564        | ppb   | 26.74   | 1.0    | 5148       |
| Cd 226.502 | -0.0040     | ppb   | 0.0819  | 2029.4 | 18.8475    |
| Co 228.615 | 0.0995      | ppb   | 0.2559  | 257.1  | 4.6946     |
| Cr 267.716 | 0.1380      | ppb   | 0.0562  | 40.7   | 13.0613    |
| Cu 324.754 | 0.3687      | ppb   | 0.1156  | 31.4   | 175.177    |
| Fe 271.441 | 118.569     | ppb   | 5.4623  | 4.6    | 201.143    |
| K 766.491  | 488.747     | ppb   | 2.8205  | 0.6    | 16150.5    |
| Mg 279.078 | 1520.05     | ppb   | 12.4307 | 0.8    | 3233.13    |
| Mn 257.610 | 9.5513      | ppb   | 0.0774  | 0.8    | 2121.93    |
| Mo 202.032 | 0.3075      | ppb   | 0.4664  | 151.6  | 11.0173    |
| Na 330.237 | 28461.7     | ppb   | 270.915 | 1.0    | 1373.89    |
| Ni 231.604 | 0.6860      | ppb   | 0.5637  | 82.2   | -0.1759    |
| Pb 220.353 | -0.5567     | ppb   | 1.8531  | 332.9  | 22.2345    |
| Sb 206.834 | 4.1588      | ppb   | 4.3479  | 104.5  | -0.9257    |
| Se 196.026 | -1.0054     | ppb   | 5.1222  | 509.5  | 6.7076     |
| Sn 189.925 | -1.8592     | ppb   | 0.4275  | 23.0   | -14.3501   |
| Sr 216.596 | 186.892     | ppb   | 1.0267  | 0.5    | 1954.28    |
| Ti 334.941 | 0.1530      | ppb   | 0.0900  | 58.8   | -13.7469   |
| Tl 190.794 | 1.5522      | ppb   | 0.7002  | 45.1   | -12.5913   |
| V 292.401  | -0.0614     | ppb   | 0.2189  | 356.6  | -17.1116   |
| Zn 206.200 | 0.3057      | ppb   | 0.6950  | 197.9  | 5.6644     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**640-43698-a-1-aPDS (Samp) 5/28/2013, 4:25:06 PM Rack 1, Tube 31****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 64.1299                  | 58.9450 | 54.8903 |
| Al 308.215 | 2279.50                  | 2233.70 | 2187.74 |
| As 188.980 | 2479.36                  | 2446.24 | 2367.98 |
| B 249.678  | 1211.69                  | 1192.00 | 1171.03 |
| Ba 389.178 | 2272.99                  | 2227.54 | 2176.79 |
| Be 313.042 | 56.5403                  | 55.4161 | 54.1482 |
| Ca 370.602 | 19026                    | 18883   | 18807   |
| Cd 226.502 | 57.2172                  | 55.9336 | 54.0376 |
| Co 228.615 | 582.322                  | 564.399 | 557.075 |
| Cr 267.716 | 224.331                  | 220.221 | 214.956 |
| Cu 324.754 | 280.694                  | 275.202 | 269.146 |
| Fe 271.441 | 1690.06                  | 1666.09 | 1649.98 |
| K 766.491  | 10100.5                  | 9969.47 | 9837.46 |
| Mg 279.078 | 13607.1                  | 13477.3 | 13363.9 |
| Mn 257.610 | 625.745                  | 614.057 | 600.862 |
| Mo 202.032 | 602.905                  | 591.273 | 576.307 |
| Na 330.237 | 163829x                  | 163819x | 164110x |
| Ni 231.604 | 562.777                  | 551.435 | 536.187 |
| Pb 220.353 | 582.333                  | 565.245 | 547.454 |
| Sb 206.834 | 564.619                  | 544.995 | 536.089 |
| Se 196.026 | 2389.07                  | 2334.85 | 2279.55 |
| Sn 189.925 | 1166.68                  | 1154.86 | 1117.68 |
| Sr 216.596 | 1531.58                  | 1520.66 | 1510.47 |
| Ti 334.941 | 1128.12                  | 1105.45 | 1081.56 |
| Tl 190.794 | 2373.13                  | 2325.97 | 2253.99 |
| V 292.401  | 558.110                  | 546.758 | 534.917 |
| Zn 206.200 | 567.923                  | 560.632 | 544.457 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 59.3217b    | ppb   | 4.6313  | 7.8  | 4083.94    |
| Al 308.215 | 2233.65b    | ppb   | 45.8800 | 2.1  | 13279.2    |
| As 188.980 | 2431.20b    | ppb   | 57.1953 | 2.4  | 1431.27    |
| B 249.678  | 1191.57b    | ppb   | 20.3319 | 1.7  | 16107.2    |
| Ba 389.178 | 2225.78b    | ppb   | 48.1259 | 2.2  | 40536.0    |
| Be 313.042 | 55.3682b    | ppb   | 1.1968  | 2.2  | 97377.2    |
| Ca 370.602 | 18905b      | ppb   | 111.0   | 0.6  | 38381      |
| Cd 226.502 | 55.7295b    | ppb   | 1.5996  | 2.9  | 1864.81    |
| Co 228.615 | 567.932b    | ppb   | 12.9889 | 2.3  | 6398.70    |
| Cr 267.716 | 219.836b    | ppb   | 4.6996  | 2.1  | 9959.34    |
| Cu 324.754 | 275.014b    | ppb   | 5.7760  | 2.1  | 14840.0    |
| Fe 271.441 | 1668.71b    | ppb   | 20.1676 | 1.2  | 2640.69    |
| K 766.491  | 9969.13b    | ppb   | 131.497 | 1.3  | 323680     |
| Mg 279.078 | 13482.8b    | ppb   | 121.717 | 0.9  | 28409.6    |
| Mn 257.610 | 613.555b    | ppb   | 12.4493 | 2.0  | 133808     |
| Mo 202.032 | 590.162b    | ppb   | 13.3336 | 2.3  | 3872.08    |
| Na 330.237 | 163919xb    | ppb   | 165.010 | 0.1  | 7682.82    |
| Ni 231.604 | 550.133b    | ppb   | 13.3426 | 2.4  | 1424.21    |
| Pb 220.353 | 565.011b    | ppb   | 17.4403 | 3.1  | 861.415    |
| Sb 206.834 | 548.568b    | ppb   | 14.5969 | 2.7  | 516.057    |
| Se 196.026 | 2334.49b    | ppb   | 54.7613 | 2.3  | 1103.73    |
| Sn 189.925 | 1146.41b    | ppb   | 25.5723 | 2.2  | 919.439    |
| Sr 216.596 | 1520.90b    | ppb   | 10.5572 | 0.7  | 15757.4    |
| Ti 334.941 | 1105.04b    | ppb   | 23.2828 | 2.1  | 277304     |
| Tl 190.794 | 2317.70b    | ppb   | 59.9962 | 2.6  | 1874.00    |
| V 292.401  | 546.595b    | ppb   | 11.5971 | 2.1  | 12818.6    |
| Zn 206.200 | 557.671b    | ppb   | 12.0103 | 2.2  | 729.872    |

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**640-43698-a-1-b ms (Samp) 5/28/2013, 4:29:41 PM Rack 1, Tube 32****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.5902                  | 49.5842 | 53.5535 |
| Al 308.215 | 4874.47                  | 4758.29 | 5202.57 |
| As 188.980 | 103.629                  | 102.325 | 112.849 |
| B 249.678  | 257.585                  | 251.578 | 272.352 |
| Ba 389.178 | 119.421                  | 117.956 | 127.669 |
| Be 313.042 | 48.9207                  | 47.6917 | 52.1292 |
| Ca 370.602 | 16452                    | 16147   | 17619   |
| Cd 226.502 | 48.3762                  | 47.7462 | 51.7800 |
| Co 228.615 | 48.6303                  | 47.8881 | 52.0264 |
| Cr 267.716 | 96.3508                  | 94.3588 | 103.060 |
| Cu 324.754 | 98.3116                  | 92.6487 | 104.778 |
| Fe 271.441 | 5176.22                  | 5068.99 | 5521.62 |
| K 766.491  | 8296.14                  | 8027.83 | 8765.93 |
| Mg 279.078 | 11613.6                  | 11288.6 | 12348.9 |
| Mn 257.610 | 536.281                  | 523.428 | 571.576 |
| Mo 202.032 | 99.0610                  | 96.1506 | 104.040 |
| Na 330.237 | 144398x                  | 141404x | 152892x |
| Ni 231.604 | 96.3353                  | 93.9161 | 102.606 |
| Pb 220.353 | 46.8925                  | 44.0259 | 52.6910 |
| Sb 206.834 | 51.0368                  | 49.7156 | 57.4168 |
| Se 196.026 | 106.074                  | 95.8359 | 109.393 |
| Sn 189.925 | 185.117                  | 187.299 | 201.555 |
| Sr 216.596 | 942.219                  | 921.174 | 1005.84 |
| Ti 334.941 | 94.9983                  | 93.0172 | 101.464 |
| Tl 190.794 | 37.9233                  | 35.8484 | 43.4095 |
| V 292.401  | 96.9588                  | 95.0124 | 102.742 |
| Zn 206.200 | 96.4308                  | 96.1697 | 102.572 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 50.9093b    | ppb   | 2.2899  | 4.5  | 3510.96    |
| Al 308.215 | 4945.11b    | ppb   | 230.411 | 4.7  | 29345.9    |
| As 188.980 | 106.268b    | ppb   | 5.7367  | 5.4  | 58.6695    |
| B 249.678  | 260.505b    | ppb   | 10.6902 | 4.1  | 3595.29    |
| Ba 389.178 | 121.682b    | ppb   | 5.2360  | 4.3  | 2234.98    |
| Be 313.042 | 49.5806b    | ppb   | 2.2912  | 4.6  | 87249.9    |
| Ca 370.602 | 16740b      | ppb   | 777.0   | 4.6  | 33490      |
| Cd 226.502 | 49.3008b    | ppb   | 2.1700  | 4.4  | 1661.39    |
| Co 228.615 | 49.5149b    | ppb   | 2.2064  | 4.5  | 560.193    |
| Cr 267.716 | 97.9233b    | ppb   | 4.5590  | 4.7  | 4443.48    |
| Cu 324.754 | 98.5795b    | ppb   | 6.0692  | 6.2  | 5418.38    |
| Fe 271.441 | 5255.61b    | ppb   | 236.528 | 4.5  | 8059.79    |
| K 766.491  | 8363.30b    | ppb   | 373.606 | 4.5  | 271589     |
| Mg 279.078 | 11750.3b    | ppb   | 543.214 | 4.6  | 24763.1    |
| Mn 257.610 | 543.761b    | ppb   | 24.9302 | 4.6  | 118598     |
| Mo 202.032 | 99.7505b    | ppb   | 3.9895  | 4.0  | 661.719    |
| Na 330.237 | 146231xb    | ppb   | 5959.45 | 4.1  | 6866.01    |
| Ni 231.604 | 97.6191b    | ppb   | 4.4850  | 4.6  | 251.320    |
| Pb 220.353 | 47.8698b    | ppb   | 4.4144  | 9.2  | 94.3626    |
| Sb 206.834 | 52.7231b    | ppb   | 4.1182  | 7.8  | 45.7489    |
| Se 196.026 | 103.768b    | ppb   | 7.0667  | 6.8  | 56.0570    |
| Sn 189.925 | 191.323b    | ppb   | 8.9278  | 4.7  | 142.786    |
| Sr 216.596 | 956.411b    | ppb   | 44.0807 | 4.6  | 9927.22    |
| Ti 334.941 | 96.4931b    | ppb   | 4.4172  | 4.6  | 24197.2    |
| Tl 190.794 | 39.0604b    | ppb   | 3.9067  | 10.0 | 17.5943    |
| V 292.401  | 98.2377b    | ppb   | 4.0203  | 4.1  | 2287.32    |
| Zn 206.200 | 98.3907b    | ppb   | 3.6231  | 3.7  | 132.964    |

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**640-43698-a-1-c msd (Samp) 5/28/2013, 4:34:17 PM Rack 1, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 55.2258                  | 54.1394 | 54.5130 |
| Al 308.215 | 5334.32                  | 5255.89 | 5274.81 |
| As 188.980 | 113.173                  | 111.434 | 119.234 |
| B 249.678  | 274.101                  | 269.605 | 270.605 |
| Ba 389.178 | 131.862                  | 129.284 | 130.447 |
| Be 313.042 | 53.3007                  | 52.7287 | 52.6988 |
| Ca 370.602 | 18069                    | 17807   | 17833   |
| Cd 226.502 | 53.3681                  | 52.7173 | 53.0485 |
| Co 228.615 | 53.3791                  | 52.2373 | 52.5091 |
| Cr 267.716 | 104.604                  | 103.922 | 103.798 |
| Cu 324.754 | 105.111                  | 104.039 | 103.598 |
| Fe 271.441 | 5601.38                  | 5539.23 | 5538.37 |
| K 766.491  | 9321.36                  | 9207.77 | 9181.92 |
| Mg 279.078 | 12836.0                  | 12671.2 | 12716.4 |
| Mn 257.610 | 583.222                  | 575.630 | 576.950 |
| Mo 202.032 | 106.149                  | 104.802 | 104.268 |
| Na 330.237 | 160416x                  | 158257x | 158553x |
| Ni 231.604 | 105.664                  | 102.788 | 104.569 |
| Pb 220.353 | 54.0741                  | 49.8628 | 48.5567 |
| Sb 206.834 | 57.3131                  | 52.9214 | 56.2417 |
| Se 196.026 | 111.087                  | 109.809 | 101.357 |
| Sn 189.925 | 204.831                  | 203.829 | 206.295 |
| Sr 216.596 | 1034.18                  | 1019.72 | 1026.51 |
| Ti 334.941 | 102.883                  | 101.219 | 101.605 |
| Tl 190.794 | 47.6953                  | 40.8414 | 45.2233 |
| V 292.401  | 105.071                  | 104.161 | 103.928 |
| Zn 206.200 | 106.205                  | 104.543 | 105.049 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 54.6261b    | ppb   | 0.5519  | 1.0  | 3770.43    |
| Al 308.215 | 5288.34b    | ppb   | 40.9260 | 0.8  | 31370.1    |
| As 188.980 | 114.613b    | ppb   | 4.0945  | 3.6  | 63.5960    |
| B 249.678  | 271.437b    | ppb   | 2.3607  | 0.9  | 3741.54    |
| Ba 389.178 | 130.531b    | ppb   | 1.2912  | 1.0  | 2398.45    |
| Be 313.042 | 52.9094b    | ppb   | 0.3392  | 0.6  | 93124.3    |
| Ca 370.602 | 17903b      | ppb   | 144.6   | 0.8  | 35821      |
| Cd 226.502 | 53.0446b    | ppb   | 0.3254  | 0.6  | 1785.89    |
| Co 228.615 | 52.7085b    | ppb   | 0.5965  | 1.1  | 596.104    |
| Cr 267.716 | 104.108b    | ppb   | 0.4337  | 0.4  | 4723.77    |
| Cu 324.754 | 104.249b    | ppb   | 0.7780  | 0.7  | 5721.06    |
| Fe 271.441 | 5559.66b    | ppb   | 36.1363 | 0.6  | 8524.96    |
| K 766.491  | 9237.02b    | ppb   | 74.1752 | 0.8  | 299931     |
| Mg 279.078 | 12741.2b    | ppb   | 85.1256 | 0.7  | 26848.7    |
| Mn 257.610 | 578.601b    | ppb   | 4.0562  | 0.7  | 126197     |
| Mo 202.032 | 105.073b    | ppb   | 0.9697  | 0.9  | 696.544    |
| Na 330.237 | 159075xb    | ppb   | 1170.61 | 0.7  | 7465.11    |
| Ni 231.604 | 104.340b    | ppb   | 1.4512  | 1.4  | 268.758    |
| Pb 220.353 | 50.8312b    | ppb   | 2.8834  | 5.7  | 98.7739    |
| Sb 206.834 | 55.4920b    | ppb   | 2.2898  | 4.1  | 48.4241    |
| Se 196.026 | 107.418b    | ppb   | 5.2874  | 4.9  | 57.7804    |
| Sn 189.925 | 204.985b    | ppb   | 1.2404  | 0.6  | 153.900    |
| Sr 216.596 | 1026.80b    | ppb   | 7.2323  | 0.7  | 10656.5    |
| Ti 334.941 | 101.902b    | ppb   | 0.8706  | 0.9  | 25557.8    |
| Tl 190.794 | 44.5867b    | ppb   | 3.4710  | 7.8  | 22.0720    |
| V 292.401  | 104.387b    | ppb   | 0.6043  | 0.6  | 2431.56    |
| Zn 206.200 | 105.266b    | ppb   | 0.8516  | 0.8  | 514.889    |

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mb 680-277729/1-a (Samp) 5/28/2013, 4:38:53 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.2250                   | 0.0583    | -0.1672u  |
| Al 308.215 | 29.2483                  | 24.4146   | 25.7996   |
| As 188.980 | 0.1755                   | -7.8507u  | -4.0809u  |
| B 249.678  | 14.2551                  | 12.7090   | 13.0584   |
| Ba 389.178 | -0.3030u                 | -0.1471u  | -0.2478u  |
| Be 313.042 | 0.0112                   | 0.0159    | 0.0092    |
| Ca 370.602 | 40.00                    | 40.28     | 41.72     |
| Cd 226.502 | 0.0122                   | 0.0164    | 0.0123    |
| Co 228.615 | 0.4190                   | 0.0765    | 0.1992    |
| Cr 267.716 | 0.6144                   | 0.4972    | 0.6127    |
| Cu 324.754 | 0.6773                   | 0.3141    | -0.1930u  |
| Fe 271.441 | 14.2927                  | 15.3356   | 11.0862   |
| K 766.491  | 5.6496                   | 6.5521    | 6.4268    |
| Mg 279.078 | 99.0413                  | 97.7791   | 96.6561   |
| Mn 257.610 | 0.2997                   | 0.2754    | 0.2734    |
| Mo 202.032 | -0.0503u                 | 0.6436    | 0.4259    |
| Na 330.237 | 1.8776                   | -193.232u | -78.9587u |
| Ni 231.604 | 0.1021                   | -0.1436u  | 0.0680    |
| Pb 220.353 | 4.4329                   | 0.0318    | 0.6814    |
| Sb 206.834 | 3.4909                   | -0.1975u  | -0.1663u  |
| Se 196.026 | -0.3742u                 | 3.8479    | 0.4231    |
| Sn 189.925 | 7.5094                   | 6.8756    | 6.3598    |
| Sr 216.596 | -0.3015u                 | -0.2523u  | -0.3575u  |
| Ti 334.941 | 0.2886                   | 0.3699    | 0.2961    |
| Tl 190.794 | 4.0559                   | 0.0689    | 0.4932    |
| V 292.401  | 0.4049                   | 0.2106    | 0.1525    |
| Zn 206.200 | 0.2060                   | 1.6459    | -0.1417u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0387      | ppb   | 0.1968  | 508.8  | -42.6045   |
| Al 308.215 | 26.4875     | ppb   | 2.4892  | 9.4    | 339.867    |
| As 188.980 | -3.9187     | ppb   | 4.0156  | 102.5  | -6.3598    |
| B 249.678  | 13.3408     | ppb   | 0.8108  | 6.1    | 285.393    |
| Ba 389.178 | -0.2326     | ppb   | 0.0790  | 34.0   | -14.4331   |
| Be 313.042 | 0.0121      | ppb   | 0.0034  | 28.4   | -224.981   |
| Ca 370.602 | 40.67       | ppb   | 0.9231  | 2.3    | 69.67      |
| Cd 226.502 | 0.0136      | ppb   | 0.0024  | 17.5   | 19.2785    |
| Co 228.615 | 0.2316      | ppb   | 0.1735  | 74.9   | 6.1728     |
| Cr 267.716 | 0.5748      | ppb   | 0.0672  | 11.7   | 32.2922    |
| Cu 324.754 | 0.2661      | ppb   | 0.4371  | 164.2  | 169.671    |
| Fe 271.441 | 13.5715     | ppb   | 2.2146  | 16.3   | 40.6708    |
| K 766.491  | 6.2095      | ppb   | 0.4889  | 7.9    | 497.702    |
| Mg 279.078 | 97.8255     | ppb   | 1.1933  | 1.2    | 238.878    |
| Mn 257.610 | 0.2828      | ppb   | 0.0146  | 5.2    | 91.5896    |
| Mo 202.032 | 0.3397      | ppb   | 0.3549  | 104.5  | 11.2326    |
| Na 330.237 | -90.1042    | ppb   | 98.0309 | 108.8  | 41.6891    |
| Ni 231.604 | 0.0088      | ppb   | 0.1331  | 1510.6 | -1.9353    |
| Pb 220.353 | 1.7154      | ppb   | 2.3757  | 138.5  | 25.6017    |
| Sb 206.834 | 1.0423      | ppb   | 2.1205  | 203.4  | -3.9089    |
| Se 196.026 | 1.2989      | ppb   | 2.2432  | 172.7  | 7.7873     |
| Sn 189.925 | 6.9149      | ppb   | 0.5758  | 8.3    | -7.2261    |
| Sr 216.596 | -0.3038     | ppb   | 0.0527  | 17.3   | 15.1465    |
| Ti 334.941 | 0.3182      | ppb   | 0.0449  | 14.1   | 23.9149    |
| Tl 190.794 | 1.5393      | ppb   | 2.1897  | 142.3  | -12.5922   |
| V 292.401  | 0.2560      | ppb   | 0.1322  | 51.7   | -9.4558    |
| Zn 206.200 | 0.5700      | ppb   | 0.9478  | 166.3  | 6.0058     |

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ics 680-277729/2-a (Samp)      5/28/2013, 4:43:29 PM      Rack 1, Tube 35  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.3239                  | 49.0661 | 50.3859 |
| Al 308.215 | 4850.43                  | 4892.54 | 4966.18 |
| As 188.980 | 104.087                  | 104.936 | 110.177 |
| B 249.678  | 197.182                  | 198.339 | 201.780 |
| Ba 389.178 | 97.2324                  | 97.6296 | 98.9078 |
| Be 313.042 | 50.5258                  | 50.7072 | 51.3603 |
| Ca 370.602 | 4903                     | 4947    | 5021    |
| Cd 226.502 | 50.1151                  | 50.4097 | 51.2814 |
| Co 228.615 | 50.1763                  | 50.8140 | 50.9035 |
| Cr 267.716 | 100.958                  | 101.597 | 102.681 |
| Cu 324.754 | 100.099                  | 100.725 | 100.997 |
| Fe 271.441 | 4901.98                  | 4925.20 | 5004.77 |
| K 766.491  | 4837.07                  | 4854.97 | 4893.81 |
| Mg 279.078 | 4952.62                  | 4964.12 | 5044.20 |
| Mn 257.610 | 514.095                  | 517.061 | 524.385 |
| Mo 202.032 | 102.495                  | 102.141 | 103.593 |
| Na 330.237 | 4752.46                  | 4532.55 | 4704.63 |
| Ni 231.604 | 98.9628                  | 99.5545 | 101.927 |
| Pb 220.353 | 52.5214                  | 44.7937 | 50.8660 |
| Sb 206.834 | 51.1847                  | 54.7246 | 51.6322 |
| Se 196.026 | 111.197                  | 102.332 | 104.106 |
| Sn 189.925 | 203.127                  | 208.620 | 209.513 |
| Sr 216.596 | 98.5918                  | 99.0024 | 99.9948 |
| Ti 334.941 | 98.7616                  | 99.1062 | 100.837 |
| Tl 190.794 | 41.0123                  | 40.2306 | 42.7230 |
| V 292.401  | 99.4252                  | 100.032 | 101.415 |
| Zn 206.200 | 99.1941                  | 100.474 | 103.170 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.5919     | ppb   | 0.6996  | 1.4  | 3454.13    |
| Al 308.215 | 4903.05     | ppb   | 58.5867 | 1.2  | 29097.6    |
| As 188.980 | 106.400     | ppb   | 3.2985  | 3.1  | 58.7492    |
| B 249.678  | 199.100     | ppb   | 2.3916  | 1.2  | 2771.12    |
| Ba 389.178 | 97.9232     | ppb   | 0.8755  | 0.9  | 1788.31    |
| Be 313.042 | 50.8644     | ppb   | 0.4389  | 0.9  | 89527.6    |
| Ca 370.602 | 4957        | ppb   | 59.41   | 1.2  | 9768       |
| Cd 226.502 | 50.6021     | ppb   | 0.6065  | 1.2  | 1704.24    |
| Co 228.615 | 50.6313     | ppb   | 0.3965  | 0.8  | 572.721    |
| Cr 267.716 | 101.745     | ppb   | 0.8711  | 0.9  | 4613.92    |
| Cu 324.754 | 100.607     | ppb   | 0.4607  | 0.5  | 5526.53    |
| Fe 271.441 | 4943.99     | ppb   | 53.9110 | 1.1  | 7583.62    |
| K 766.491  | 4861.95     | ppb   | 29.0103 | 0.6  | 158011     |
| Mg 279.078 | 4986.98     | ppb   | 49.8875 | 1.0  | 10523.8    |
| Mn 257.610 | 518.514     | ppb   | 5.2966  | 1.0  | 113045     |
| Mo 202.032 | 102.743     | ppb   | 0.7570  | 0.7  | 681.322    |
| Na 330.237 | 4663.21     | ppb   | 115.660 | 2.5  | 260.463    |
| Ni 231.604 | 100.148     | ppb   | 1.5686  | 1.6  | 257.872    |
| Pb 220.353 | 49.3937     | ppb   | 4.0688  | 8.2  | 96.5979    |
| Sb 206.834 | 52.5138     | ppb   | 1.9276  | 3.7  | 45.5499    |
| Se 196.026 | 105.878     | ppb   | 4.6908  | 4.4  | 57.0412    |
| Sn 189.925 | 207.087     | ppb   | 3.4580  | 1.7  | 155.551    |
| Sr 216.596 | 99.1963     | ppb   | 0.7213  | 0.7  | 1047.45    |
| Ti 334.941 | 99.5681     | ppb   | 1.1120  | 1.1  | 24951.4    |
| Tl 190.794 | 41.3220     | ppb   | 1.2747  | 3.1  | 19.4637    |
| V 292.401  | 100.291     | ppb   | 1.0199  | 1.0  | 2336.16    |
| Zn 206.200 | 100.946     | ppb   | 2.0294  | 2.0  | 136.273    |

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680-90570-a-2-a (Samp) 5/28/2013, 4:48:05 PM Rack 1, Tube 36

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -2.9574u                 | -1.7728u  | -1.8462u |
| Al 308.215 | 335255                   | 334291    | 337166   |
| As 188.980 | 28.4832                  | 25.4048   | 11.2283  |
| B 249.678  | 18.2388u                 | 16.0982u  | 16.7423u |
| Ba 389.178 | 854.996                  | 850.776   | 857.748  |
| Be 313.042 | 10.9223                  | 10.8879   | 10.9812  |
| Ca 370.602 | 2719u                    | 2675u     | 2741u    |
| Cd 226.502 | -3.5824                  | -3.9070   | -3.3161  |
| Co 228.615 | 162.726                  | 160.596   | 161.407  |
| Cr 267.716 | 489.889                  | 486.975   | 491.684  |
| Cu 324.754 | 252.211                  | 250.203   | 253.389  |
| Fe 271.441 | 412738                   | 408916    | 413484   |
| K 766.491  | 25427.0                  | 25337.6   | 25523.3  |
| Mg 279.078 | 29957.7                  | 29789.7   | 30042.3  |
| Mn 257.610 | 3342.24                  | 3323.03   | 3349.41  |
| Mo 202.032 | 7.0230                   | 6.7413    | 7.2954   |
| Na 330.237 | 805.354u                 | 924.566u  | 1013.68u |
| Ni 231.604 | 146.717                  | 144.759   | 149.298  |
| Pb 220.353 | 149.999                  | 149.950   | 149.912  |
| Sb 206.834 | 1.8522                   | 9.6460    | 11.8407  |
| Se 196.026 | -0.1426                  | -11.4491u | 7.3088   |
| Sn 189.925 | 28.2430                  | 29.9954   | 28.4650  |
| Sr 216.596 | 31.2554                  | 30.6910   | 30.9172  |
| Ti 334.941 | 13069.3                  | 13017.1   | 13128.6  |
| Tl 190.794 | 6.5713u                  | 10.1272u  | 5.3528u  |
| V 292.401  | 1158.49                  | 1154.04   | 1161.91  |
| Zn 206.200 | 416.866                  | 412.565   | 416.716  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.1921     | ppb   | 0.6638  | 30.3  | -181.269   |
| Al 308.215 | 335571      | ppb   | 1463.50 | 0.4   | 1979793    |
| As 188.980 | 21.7054     | ppb   | 9.2031  | 42.4  | 8.0373     |
| B 249.678  | 17.0264     | ppb   | 1.0982  | 6.5   | -436.126   |
| Ba 389.178 | 854.507     | ppb   | 3.5118  | 0.4   | 16066.2    |
| Be 313.042 | 10.9305     | ppb   | 0.0472  | 0.4   | 19027.6    |
| Ca 370.602 | 2712        | ppb   | 33.24   | 1.2   | -10839     |
| Cd 226.502 | -3.6019     | ppb   | 0.2959  | 8.2   | 949.983    |
| Co 228.615 | 161.576     | ppb   | 1.0748  | 0.7   | 2122.06    |
| Cr 267.716 | 489.516     | ppb   | 2.3765  | 0.5   | 22285.7    |
| Cu 324.754 | 251.934     | ppb   | 1.6107  | 0.6   | 13714.5    |
| Fe 271.441 | 411713      | ppb   | 2450.19 | 0.6   | 629358     |
| K 766.491  | 25429.3     | ppb   | 92.8770 | 0.4   | 825184     |
| Mg 279.078 | 29929.9     | ppb   | 128.592 | 0.4   | 62970.4    |
| Mn 257.610 | 3338.23     | ppb   | 13.6389 | 0.4   | 728600     |
| Mo 202.032 | 7.0199      | ppb   | 0.2771  | 3.9   | 34.3228    |
| Na 330.237 | 914.535     | ppb   | 104.527 | 11.4  | -72.2785   |
| Ni 231.604 | 146.925     | ppb   | 2.2767  | 1.5   | 387.418    |
| Pb 220.353 | 149.954     | ppb   | 0.0433  | 0.0   | 260.784    |
| Sb 206.834 | 7.7796      | ppb   | 5.2493  | 67.5  | 15.7064    |
| Se 196.026 | -1.4276     | ppb   | 9.4447  | 661.6 | 8.6300     |
| Sn 189.925 | 28.9011     | ppb   | 0.9541  | 3.3   | 10.6407    |
| Sr 216.596 | 30.9545     | ppb   | 0.2841  | 0.9   | 688.134    |
| Ti 334.941 | 13071.7     | ppb   | 55.7875 | 0.4   | 3280524    |
| Tl 190.794 | 7.3504      | ppb   | 2.4807  | 33.7  | -29.7528   |
| V 292.401  | 1158.15     | ppb   | 3.9491  | 0.3   | 27503.6    |
| Zn 206.200 | 415.382     | ppb   | 2.4497  | 0.6   | 547.635    |

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**680-90570-a-2-aSD^5 (Samp) 5/28/2013, 5:01:48 PM Rack 1, Tube 39****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.5783u                 | -0.7181u | -0.3731u |
| Al 308.215 | 77418.4                  | 79242.2  | 71800.8  |
| As 188.980 | -0.3728u                 | -1.9407u | -4.7155u |
| B 249.678  | 8.7869u                  | 9.4287u  | 9.4686u  |
| Ba 389.178 | 196.680                  | 200.795  | 183.673  |
| Be 313.042 | 2.5463                   | 2.6044   | 2.3620   |
| Ca 370.602 | 842.2u                   | 815.8u   | 903.9u   |
| Cd 226.502 | -0.9166                  | -0.9796  | -1.7590  |
| Co 228.615 | 38.5982                  | 40.1722  | 35.8819  |
| Cr 267.716 | 114.523                  | 116.731  | 106.194  |
| Cu 324.754 | 57.1839                  | 57.8758  | 52.6723  |
| Fe 271.441 | 97907.6                  | 99953.6  | 90985.9  |
| K 766.491  | 5086.33                  | 5195.56  | 4770.88  |
| Mg 279.078 | 7046.84                  | 7228.21  | 6550.13  |
| Mn 257.610 | 795.765                  | 814.482  | 738.558  |
| Mo 202.032 | 1.2408                   | 1.7613   | 1.4284   |
| Na 330.237 | 43.6494u                 | 120.100u | 342.489u |
| Ni 231.604 | 35.6064                  | 32.5497  | 31.0979  |
| Pb 220.353 | 32.3615                  | 36.4581  | 33.2071  |
| Sb 206.834 | 5.7289                   | 11.2528  | 5.0038   |
| Se 196.026 | 1.4854                   | 6.1809   | 0.3094   |
| Sn 189.925 | 6.2554                   | 7.9339   | 8.0844   |
| Sr 216.596 | 6.8097                   | 7.7006   | 6.3299   |
| Ti 334.941 | 3038.22                  | 3104.27  | 2832.69  |
| Tl 190.794 | -2.6869u                 | 7.0918   | 2.8485u  |
| V 292.401  | 270.081                  | 274.703  | 250.936  |
| Zn 206.200 | 99.4657                  | 103.213  | 91.2330  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.5565     | ppb   | 0.1735  | 31.2  | -80.2469   |
| Al 308.215 | 76153.8     | ppb   | 3878.52 | 5.1   | 449432     |
| As 188.980 | -2.3430     | ppb   | 2.1991  | 93.9  | -5.6223    |
| B 249.678  | 9.2280      | ppb   | 0.3826  | 4.1   | 49.8819    |
| Ba 389.178 | 193.716     | ppb   | 8.9375  | 4.6   | 3637.75    |
| Be 313.042 | 2.5042      | ppb   | 0.1265  | 5.1   | 4169.63    |
| Ca 370.602 | 853.9       | ppb   | 45.22   | 5.3   | -2123      |
| Cd 226.502 | -1.2184     | ppb   | 0.4693  | 38.5  | 224.098    |
| Co 228.615 | 38.2174     | ppb   | 2.1704  | 5.7   | 502.395    |
| Cr 267.716 | 112.483     | ppb   | 5.5568  | 4.9   | 5126.13    |
| Cu 324.754 | 55.9107     | ppb   | 2.8258  | 5.1   | 3166.03    |
| Fe 271.441 | 96282.4     | ppb   | 4699.57 | 4.9   | 147196     |
| K 766.491  | 5017.59     | ppb   | 220.528 | 4.4   | 163059     |
| Mg 279.078 | 6941.73     | ppb   | 351.046 | 5.1   | 14630.7    |
| Mn 257.610 | 782.935     | ppb   | 39.5550 | 5.1   | 170904     |
| Mo 202.032 | 1.4768      | ppb   | 0.2636  | 17.9  | 13.8601    |
| Na 330.237 | 168.746     | ppb   | 155.245 | 92.0  | 16.3704    |
| Ni 231.604 | 33.0847     | ppb   | 2.3014  | 7.0   | 85.7915    |
| Pb 220.353 | 34.0089     | ppb   | 2.1628  | 6.4   | 77.1441    |
| Sb 206.834 | 7.3285      | ppb   | 3.4178  | 46.6  | 5.1743     |
| Se 196.026 | 2.6585      | ppb   | 3.1066  | 116.9 | 8.9227     |
| Sn 189.925 | 7.4246      | ppb   | 1.0153  | 13.7  | -6.8141    |
| Sr 216.596 | 6.9467      | ppb   | 0.6956  | 10.0  | 171.966    |
| Ti 334.941 | 2991.72     | ppb   | 141.637 | 4.7   | 750774     |
| Tl 190.794 | 2.4178      | ppb   | 4.9036  | 202.8 | -16.9980   |
| V 292.401  | 265.240     | ppb   | 12.6011 | 4.8   | 6286.96    |
| Zn 206.200 | 97.9705     | ppb   | 6.1283  | 6.3   | 513.189    |



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680-90570-a-2-aPDS (Samp) 5/28/2013, 5:08:16 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 46.3334                  | 47.1174 | 46.0586 |
| Al 308.215 | 332754                   | 334685  | 335041  |
| As 188.980 | 2179.42                  | 2198.88 | 2195.95 |
| B 249.678  | 1024.80                  | 1036.90 | 1038.09 |
| Ba 389.178 | 2782.47                  | 2798.16 | 2797.16 |
| Be 313.042 | 60.0849                  | 60.5503 | 60.4540 |
| Ca 370.602 | 7544u                    | 7614u   | 7602u   |
| Cd 226.502 | 43.8623                  | 44.8842 | 44.9444 |
| Co 228.615 | 641.343                  | 650.974 | 653.180 |
| Cr 267.716 | 674.103                  | 680.660 | 679.490 |
| Cu 324.754 | 496.736                  | 505.015 | 507.612 |
| Fe 271.441 | 405124                   | 408975  | 408811  |
| K 766.491  | 31338.9                  | 31513.8 | 31492.6 |
| Mg 279.078 | 34526.7                  | 34750.5 | 34794.5 |
| Mn 257.610 | 3767.29                  | 3796.97 | 3800.97 |
| Mo 202.032 | 527.866                  | 531.152 | 533.854 |
| Na 330.237 | 6383.19                  | 6232.21 | 6231.19 |
| Ni 231.604 | 626.053                  | 624.164 | 631.420 |
| Pb 220.353 | 646.095                  | 647.213 | 647.840 |
| Sb 206.834 | 488.868                  | 483.760 | 492.788 |
| Se 196.026 | 2069.61                  | 2102.32 | 2110.32 |
| Sn 189.925 | 1038.94                  | 1036.01 | 1044.65 |
| Sr 216.596 | 531.038                  | 533.751 | 535.405 |
| Ti 334.941 | 13815.7                  | 13920.2 | 13894.4 |
| Tl 190.794 | 1970.00                  | 1974.50 | 1985.58 |
| V 292.401  | 1620.93                  | 1632.53 | 1634.31 |
| Zn 206.200 | 891.643                  | 903.158 | 896.141 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 46.5032     | ppb   | 0.5494  | 1.2  | 3239.82    |
| Al 308.215 | 334160      | ppb   | 1230.40 | 0.4  | 1971399    |
| As 188.980 | 2191.42     | ppb   | 10.4923 | 0.5  | 1289.00    |
| B 249.678  | 1033.26     | ppb   | 7.3559  | 0.7  | 13220.7    |
| Ba 389.178 | 2792.60     | ppb   | 8.7850  | 0.3  | 51351.4    |
| Be 313.042 | 60.3630     | ppb   | 0.2457  | 0.4  | 106198     |
| Ca 370.602 | 7587        | ppb   | 37.26   | 0.5  | -526.4     |
| Cd 226.502 | 44.5636     | ppb   | 0.6081  | 1.4  | 2531.97    |
| Co 228.615 | 648.499     | ppb   | 6.2946  | 1.0  | 7601.26    |
| Cr 267.716 | 678.084     | ppb   | 3.4974  | 0.5  | 30819.0    |
| Cu 324.754 | 503.121     | ppb   | 5.6803  | 1.1  | 27124.9    |
| Fe 271.441 | 407637      | ppb   | 2177.35 | 0.5  | 623188     |
| K 766.491  | 31448.4     | ppb   | 95.4728 | 0.3  | 1020437    |
| Mg 279.078 | 34690.6     | ppb   | 143.616 | 0.4  | 72986.1    |
| Mn 257.610 | 3788.41     | ppb   | 18.4034 | 0.5  | 826704     |
| Mo 202.032 | 530.958     | ppb   | 2.9989  | 0.6  | 3464.18    |
| Na 330.237 | 6282.20     | ppb   | 87.4643 | 1.4  | 170.153    |
| Ni 231.604 | 627.212     | ppb   | 3.7645  | 0.6  | 1632.42    |
| Pb 220.353 | 647.050     | ppb   | 0.8841  | 0.1  | 998.137    |
| Sb 206.834 | 488.472     | ppb   | 4.5268  | 0.9  | 471.982    |
| Se 196.026 | 2094.09     | ppb   | 21.5710 | 1.0  | 992.894    |
| Sn 189.925 | 1039.87     | ppb   | 4.3934  | 0.4  | 832.730    |
| Sr 216.596 | 533.398     | ppb   | 2.2050  | 0.4  | 5874.66    |
| Ti 334.941 | 13876.7     | ppb   | 54.3982 | 0.4  | 3482583    |
| Tl 190.794 | 1976.69     | ppb   | 8.0166  | 0.4  | 1574.66    |
| V 292.401  | 1629.25     | ppb   | 7.2663  | 0.4  | 38561.9    |
| Zn 206.200 | 896.981     | ppb   | 5.8935  | 0.6  | 5173.35    |

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**680-90570-a-2-b ms (Samp)      5/28/2013, 5:12:50 PM      Rack 1, Tube 41**  
**Weight: 1      Volume: 1      Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 44.8923                  | 44.9511  | 45.7882  |
| Al 308.215 | 407798                   | 405653   | 406974   |
| As 188.980 | 114.533                  | 118.824  | 101.935  |
| B 249.678  | 199.136                  | 196.139  | 195.531  |
| Ba 389.178 | 1263.17                  | 1253.58  | 1257.35  |
| Be 313.042 | 59.1017                  | 58.6892  | 58.9468  |
| Ca 370.602 | 7931                     | 7900     | 7932     |
| Cd 226.502 | 44.0474                  | 42.8057  | 43.2599  |
| Co 228.615 | 288.456                  | 284.201  | 283.889  |
| Cr 267.716 | 568.475                  | 563.999  | 566.611  |
| Cu 324.754 | 362.769                  | 358.531  | 362.913  |
| Fe 271.441 | 388757                   | 383729   | 386134   |
| K 766.491  | 41278.8x                 | 41051.4x | 41160.2x |
| Mg 279.078 | 46701.4                  | 46392.0  | 46473.7  |
| Mn 257.610 | 4521.25                  | 4484.46  | 4505.70  |
| Mo 202.032 | 88.5365                  | 88.4906  | 88.7024  |
| Na 330.237 | 5838.75                  | 5925.12  | 5867.79  |
| Ni 231.604 | 266.589                  | 264.766  | 263.228  |
| Pb 220.353 | 176.930                  | 165.963  | 177.846  |
| Sb 206.834 | 26.9991                  | 26.8122  | 36.9303  |
| Se 196.026 | 91.6710                  | 91.4728  | 91.6120  |
| Sn 189.925 | 202.112                  | 204.153  | 200.053  |
| Sr 216.596 | 127.682                  | 126.942  | 125.314  |
| Ti 334.941 | 14339.2                  | 14195.6  | 14292.5  |
| Tl 190.794 | 41.6573                  | 42.3411  | 41.8124  |
| V 292.401  | 1181.24                  | 1170.61  | 1176.21  |
| Zn 206.200 | 601.580                  | 595.432  | 598.347  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 45.2105b    | ppb   | 0.5011  | 1.1  | 3166.45    |
| Al 308.215 | 406808b     | ppb   | 1082.18 | 0.3  | 2400077    |
| As 188.980 | 111.764b    | ppb   | 8.7783  | 7.9  | 62.0893    |
| B 249.678  | 196.936b    | ppb   | 1.9300  | 1.0  | 2028.05    |
| Ba 389.178 | 1258.03b    | ppb   | 4.8324  | 0.4  | 23416.9    |
| Be 313.042 | 58.9125b    | ppb   | 0.2084  | 0.4  | 103724     |
| Ca 370.602 | 7921b       | ppb   | 17.94   | 0.2  | 1379       |
| Cd 226.502 | 43.3710b    | ppb   | 0.6282  | 1.4  | 2437.94    |
| Co 228.615 | 285.515b    | ppb   | 2.5513  | 0.9  | 3539.33    |
| Cr 267.716 | 566.362b    | ppb   | 2.2484  | 0.4  | 25765.5    |
| Cu 324.754 | 361.405b    | ppb   | 2.4893  | 0.7  | 19549.1    |
| Fe 271.441 | 386206b     | ppb   | 2514.61 | 0.7  | 590386     |
| K 766.491  | 41163.5xb   | ppb   | 113.742 | 0.3  | 1335578    |
| Mg 279.078 | 46522.4b    | ppb   | 160.326 | 0.3  | 97860.3    |
| Mn 257.610 | 4503.81b    | ppb   | 18.4669 | 0.4  | 982597     |
| Mo 202.032 | 88.5765b    | ppb   | 0.1114  | 0.1  | 569.438    |
| Na 330.237 | 5877.22b    | ppb   | 43.9515 | 0.7  | 159.789    |
| Ni 231.604 | 264.861b    | ppb   | 1.6823  | 0.6  | 692.642    |
| Pb 220.353 | 173.580b    | ppb   | 6.6120  | 3.8  | 292.646    |
| Sb 206.834 | 30.2472b    | ppb   | 5.7885  | 19.1 | 36.7304    |
| Se 196.026 | 91.5853b    | ppb   | 0.1018  | 0.1  | 52.5048    |
| Sn 189.925 | 202.106b    | ppb   | 2.0502  | 1.0  | 151.490    |
| Sr 216.596 | 126.646b    | ppb   | 1.2113  | 1.0  | 1654.97    |
| Ti 334.941 | 14275.8b    | ppb   | 73.2511 | 0.5  | 3582765    |
| Tl 190.794 | 41.9369b    | ppb   | 0.3585  | 0.9  | -0.4256    |
| V 292.401  | 1176.02b    | ppb   | 5.3201  | 0.5  | 27926.6    |
| Zn 206.200 | 598.453b    | ppb   | 3.0755  | 0.5  | 519.257    |

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680-90570-a-2-c msd (Samp) 5/28/2013, 5:17:25 PM Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 45.0141                  | 45.6268  | 44.6685  |
| Al 308.215 | 377969                   | 383030   | 378763   |
| As 188.980 | 113.811                  | 106.597  | 104.123  |
| B 249.678  | 183.563                  | 183.455  | 182.331  |
| Ba 389.178 | 1235.64                  | 1263.08  | 1237.63  |
| Be 313.042 | 58.1763                  | 58.9956  | 58.1135  |
| Ca 370.602 | 7740                     | 7643     | 7610     |
| Cd 226.502 | 42.6588                  | 44.0535  | 42.1715  |
| Co 228.615 | 264.067                  | 269.943  | 263.993  |
| Cr 267.716 | 546.357                  | 554.284  | 546.526  |
| Cu 324.754 | 388.483                  | 396.887  | 385.643  |
| Fe 271.441 | 361672                   | 365918   | 361107   |
| K 766.491  | 39824.3x                 | 40403.6x | 39925.8x |
| Mg 279.078 | 45420.9                  | 46156.0  | 45510.9  |
| Mn 257.610 | 4488.39                  | 4559.10  | 4506.23  |
| Mo 202.032 | 88.2086                  | 90.0461  | 88.8654  |
| Na 330.237 | 5604.08                  | 5875.84  | 5485.65  |
| Ni 231.604 | 259.045                  | 266.807  | 262.232  |
| Pb 220.353 | 177.437                  | 177.005  | 175.636  |
| Sb 206.834 | 33.9621                  | 34.8245  | 30.8720  |
| Se 196.026 | 85.4323                  | 86.6578  | 90.5753  |
| Sn 189.925 | 201.462                  | 204.425  | 200.327  |
| Sr 216.596 | 128.101                  | 129.680  | 127.884  |
| Ti 334.941 | 13392.1                  | 13571.8  | 13376.4  |
| Tl 190.794 | 41.5280                  | 30.7585  | 41.3774  |
| V 292.401  | 1088.60                  | 1106.00  | 1088.42  |
| Zn 206.200 | 606.873                  | 623.124  | 609.494  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 45.1031b    | ppb   | 0.4853  | 1.1  | 3158.36    |
| Al 308.215 | 379921b     | ppb   | 2721.88 | 0.7  | 2241460    |
| As 188.980 | 108.177b    | ppb   | 5.0338  | 4.7  | 59.9399    |
| B 249.678  | 183.116b    | ppb   | 0.6818  | 0.4  | 1886.16    |
| Ba 389.178 | 1245.45b    | ppb   | 15.3023 | 1.2  | 23160.1    |
| Be 313.042 | 58.4285b    | ppb   | 0.4921  | 0.8  | 102871     |
| Ca 370.602 | 7664b       | ppb   | 67.61   | 0.9  | 1758       |
| Cd 226.502 | 42.9613b    | ppb   | 0.9768  | 2.3  | 2364.86    |
| Co 228.615 | 266.001b    | ppb   | 3.4140  | 1.3  | 3300.86    |
| Cr 267.716 | 549.056b    | ppb   | 4.5282  | 0.8  | 24976.0    |
| Cu 324.754 | 390.338b    | ppb   | 5.8467  | 1.5  | 21086.2    |
| Fe 271.441 | 362899b     | ppb   | 2629.73 | 0.7  | 554758     |
| K 766.491  | 40051.2xb   | ppb   | 309.344 | 0.8  | 1299498    |
| Mg 279.078 | 45695.9b    | ppb   | 400.959 | 0.9  | 96123.7    |
| Mn 257.610 | 4517.91b    | ppb   | 36.7734 | 0.8  | 985603     |
| Mo 202.032 | 89.0400b    | ppb   | 0.9311  | 1.0  | 573.671    |
| Na 330.237 | 5655.19b    | ppb   | 200.053 | 3.5  | 158.338    |
| Ni 231.604 | 262.694b    | ppb   | 3.9014  | 1.5  | 686.577    |
| Pb 220.353 | 176.693b    | ppb   | 0.9406  | 0.5  | 296.636    |
| Sb 206.834 | 33.2196b    | ppb   | 2.0782  | 6.3  | 38.9111    |
| Se 196.026 | 87.5551b    | ppb   | 2.6863  | 3.1  | 50.5394    |
| Sn 189.925 | 202.071b    | ppb   | 2.1160  | 1.0  | 151.462    |
| Sr 216.596 | 128.555b    | ppb   | 0.9800  | 0.8  | 1654.82    |
| Ti 334.941 | 13446.8b    | ppb   | 108.567 | 0.8  | 3374727    |
| Tl 190.794 | 37.8880b    | ppb   | 6.1748  | 16.3 | -2.5895    |
| V 292.401  | 1094.34b    | ppb   | 10.0968 | 0.9  | 25986.1    |
| Zn 206.200 | 613.164b    | ppb   | 8.7249  | 1.4  | 804.236    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90570-a-3-a (Samp)**      **5/28/2013, 5:22:00 PM**      **Rack 1, Tube 43****Weight: 1**      **Volume: 1**      **Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |          |          |
|--------------|---------------------------------|----------|----------|
| Ag 328.068   | -2.2753u                        | -1.8497u | -2.5739u |
| Al 308.215   | 346549                          | 343892   | 342307   |
| As 188.980   | 6.5647                          | -0.4709u | 9.2242   |
| B 249.678    | 19.3713u                        | 18.4513u | 18.1918u |
| Ba 389.178   | 1041.14                         | 1032.34  | 1026.72  |
| Be 313.042   | 10.3192                         | 10.2295  | 10.2263  |
| Ca 370.602   | 2590u                           | 2646u    | 2749u    |
| Cd 226.502   | -2.8676                         | -3.3886  | -2.9128  |
| Co 228.615   | 201.233                         | 201.204  | 200.686  |
| Cr 267.716   | 421.512                         | 417.646  | 415.706  |
| Cu 324.754   | 260.383                         | 257.498  | 253.323  |
| Fe 271.441   | 331352                          | 327802   | 327070   |
| K 766.491    | 28095.8                         | 27958.2  | 27857.8  |
| Mg 279.078   | 34815.4                         | 34404.3  | 34323.5  |
| Mn 257.610   | 3297.23                         | 3269.65  | 3258.48  |
| Mo 202.032   | 4.1073                          | 4.8480   | 5.5687   |
| Na 330.237   | 768.913u                        | 991.278u | 903.014u |
| Ni 231.604   | 157.700                         | 151.584  | 153.199  |
| Pb 220.353   | 117.684                         | 112.910  | 109.223  |
| Sb 206.834   | 11.7730                         | 7.1358   | 7.3425   |
| Se 196.026   | -3.9009                         | -0.1336  | -9.6040u |
| Sn 189.925   | 21.7759                         | 23.4860  | 28.1258  |
| Sr 216.596   | 29.4774                         | 29.6016  | 29.3290  |
| Ti 334.941   | 12603.1                         | 12508.5  | 12451.5  |
| Tl 190.794   | 2.2350u                         | 9.4254u  | 6.0297u  |
| V 292.401    | 933.897                         | 924.844  | 922.830  |
| Zn 206.200   | 437.034                         | 430.972  | 428.038  |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | -2.2330            | ppb          | 0.3639    | 16.3        | -185.274          |
| Al 308.215   | 344250             | ppb          | 2143.41   | 0.6         | 2031033           |
| As 188.980   | 5.1060             | ppb          | 5.0095    | 98.1        | -0.9072           |
| B 249.678    | 18.6715            | ppb          | 0.6198    | 3.3         | -258.588          |
| Ba 389.178   | 1033.40            | ppb          | 7.2682    | 0.7         | 19238.6           |
| Be 313.042   | 10.2583            | ppb          | 0.0527    | 0.5         | 17851.5           |
| Ca 370.602   | 2662               | ppb          | 80.67     | 3.0         | -6932             |
| Cd 226.502   | -3.0563            | ppb          | 0.2886    | 9.4         | 756.427           |
| Co 228.615   | 201.041            | ppb          | 0.3074    | 0.2         | 2550.87           |
| Cr 267.716   | 418.288            | ppb          | 2.9556    | 0.7         | 19044.0           |
| Cu 324.754   | 257.068            | ppb          | 3.5497    | 1.4         | 13964.6           |
| Fe 271.441   | 328741             | ppb          | 2290.23   | 0.7         | 502538            |
| K 766.491    | 27970.6            | ppb          | 119.473   | 0.4         | 907621            |
| Mg 279.078   | 34514.4            | ppb          | 263.778   | 0.8         | 72606.1           |
| Mn 257.610   | 3275.12            | ppb          | 19.9484   | 0.6         | 714671            |
| Mo 202.032   | 4.8414             | ppb          | 0.7307    | 15.1        | 24.2149           |
| Na 330.237   | 887.735            | ppb          | 111.967   | 12.6        | -49.3293          |
| Ni 231.604   | 154.161            | ppb          | 3.1696    | 2.1         | 404.413           |
| Pb 220.353   | 113.272            | ppb          | 4.2424    | 3.7         | 201.138           |
| Sb 206.834   | 8.7504             | ppb          | 2.6196    | 29.9        | 14.2369           |
| Se 196.026   | -4.5462            | ppb          | 4.7680    | 104.9       | 6.8805            |
| Sn 189.925   | 24.4626            | ppb          | 3.2857    | 13.4        | 7.0341            |
| Sr 216.596   | 29.4693            | ppb          | 0.1365    | 0.5         | 601.820           |
| Ti 334.941   | 12521.0            | ppb          | 76.5726   | 0.6         | 3142350           |
| Tl 190.794   | 5.8967             | ppb          | 3.5970    | 61.0        | -26.5717          |
| V 292.401    | 927.190            | ppb          | 5.8948    | 0.6         | 22042.2           |
| Zn 206.200   | 432.015            | ppb          | 4.5881    | 1.1         | 568.749           |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-4-a (Samp) 5/28/2013, 5:26:35 PM Rack 1, Tube 44

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.9995u                 | -1.3309u | -1.1172u |
| Al 308.215 | 251894                   | 251435   | 254020   |
| As 188.980 | 4.2007                   | 0.7020u  | -4.4728u |
| B 249.678  | 20.0100u                 | 21.0388u | 20.3422u |
| Ba 389.178 | 829.532                  | 827.743  | 834.034  |
| Be 313.042 | 35.3178                  | 35.1974  | 35.5549  |
| Ca 370.602 | 958.9u                   | 926.0u   | 862.7u   |
| Cd 226.502 | -3.5807                  | -3.6873  | -3.7242  |
| Co 228.615 | 201.367                  | 200.066  | 202.487  |
| Cr 267.716 | 486.931                  | 485.394  | 491.235  |
| Cu 324.754 | 906.073                  | 902.851  | 911.240  |
| Fe 271.441 | 353468                   | 351778   | 355190   |
| K 766.491  | 27199.0                  | 27108.8  | 27468.5  |
| Mg 279.078 | 82216.3                  | 81857.4  | 82583.0  |
| Mn 257.610 | 3543.74                  | 3522.04  | 3562.80  |
| Mo 202.032 | 3.4900                   | 1.6369u  | 2.1281u  |
| Na 330.237 | 2037.00u                 | 1816.13u | 1938.20u |
| Ni 231.604 | 102.630                  | 98.7153  | 105.841  |
| Pb 220.353 | 201.011                  | 192.224  | 206.920  |
| Sb 206.834 | 7.7181                   | 12.3391  | 4.4987   |
| Se 196.026 | -13.6425u                | 1.0339   | 2.7769   |
| Sn 189.925 | 17.3796                  | 21.9629  | 19.3167  |
| Sr 216.596 | 6.5105                   | 6.7209   | 6.1118   |
| Ti 334.941 | 9973.78                  | 9909.47  | 10028.4  |
| Tl 190.794 | 1.4272u                  | 5.5734u  | 0.0159u  |
| V 292.401  | 1902.69                  | 1894.48  | 1915.07  |
| Zn 206.200 | 475.392                  | 477.096  | 479.680  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.4825     | ppb   | 0.4603  | 31.0   | -125.855   |
| Al 308.215 | 252450      | ppb   | 1379.36 | 0.5    | 1489270    |
| As 188.980 | 0.1433      | ppb   | 4.3637  | 3045.3 | -4.9203    |
| B 249.678  | 20.4637     | ppb   | 0.5251  | 2.6    | -280.842   |
| Ba 389.178 | 830.437     | ppb   | 3.2416  | 0.4    | 15671.4    |
| Be 313.042 | 35.3567     | ppb   | 0.1819  | 0.5    | 62114.4    |
| Ca 370.602 | 915.9       | ppb   | 48.85   | 5.3    | -12562     |
| Cd 226.502 | -3.6641     | ppb   | 0.0745  | 2.0    | 799.934    |
| Co 228.615 | 201.307     | ppb   | 1.2116  | 0.6    | 2499.11    |
| Cr 267.716 | 487.853     | ppb   | 3.0275  | 0.6    | 22185.2    |
| Cu 324.754 | 906.721     | ppb   | 4.2317  | 0.5    | 48621.9    |
| Fe 271.441 | 353479      | ppb   | 1706.17 | 0.5    | 540355     |
| K 766.491  | 27258.7     | ppb   | 187.155 | 0.7    | 884529     |
| Mg 279.078 | 82218.9     | ppb   | 362.788 | 0.4    | 173071     |
| Mn 257.610 | 3542.86     | ppb   | 20.3961 | 0.6    | 773432     |
| Mo 202.032 | 2.4183      | ppb   | 0.9601  | 39.7   | 5.5672     |
| Na 330.237 | 1930.45     | ppb   | 110.640 | 5.7    | 0.3947     |
| Ni 231.604 | 102.395     | ppb   | 3.5684  | 3.5    | 270.592    |
| Pb 220.353 | 200.051     | ppb   | 7.3950  | 3.7    | 334.412    |
| Sb 206.834 | 8.1853      | ppb   | 3.9410  | 48.1   | 15.0419    |
| Se 196.026 | -3.2772     | ppb   | 9.0188  | 275.2  | 7.6201     |
| Sn 189.925 | 19.5531     | ppb   | 2.3008  | 11.8   | 3.0409     |
| Sr 216.596 | 6.4478      | ppb   | 0.3094  | 4.8    | 385.209    |
| Ti 334.941 | 9970.56     | ppb   | 59.5404 | 0.6    | 2502487    |
| Tl 190.794 | 2.3388      | ppb   | 2.8887  | 123.5  | -30.4770   |
| V 292.401  | 1904.08     | ppb   | 10.3661 | 0.5    | 45089.2    |
| Zn 206.200 | 477.390     | ppb   | 2.1587  | 0.5    | 627.763    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-5-a (Samp) 5/28/2013, 5:31:10 PM Rack 1, Tube 45

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.2363u                 | -0.9336u | -0.7030u |
| Al 308.215 | 247706                   | 248317   | 247736   |
| As 188.980 | 3.4519                   | 0.1652u  | 1.2603   |
| B 249.678  | 9.2846u                  | 8.7130u  | 8.1438u  |
| Ba 389.178 | 790.460                  | 791.387  | 787.098  |
| Be 313.042 | 30.6324                  | 30.7558  | 30.6386  |
| Ca 370.602 | 1521u                    | 1539u    | 1474u    |
| Cd 226.502 | -2.6952                  | -2.5671  | -2.8102  |
| Co 228.615 | 99.8434                  | 102.589  | 100.963  |
| Cr 267.716 | 425.520                  | 428.005  | 426.632  |
| Cu 324.754 | 533.159                  | 531.338  | 537.406  |
| Fe 271.441 | 306911                   | 308395   | 307357   |
| K 766.491  | 42634.3x                 | 42609.3x | 42290.7x |
| Mg 279.078 | 152443                   | 153052   | 152608   |
| Mn 257.610 | 3459.66                  | 3477.45  | 3470.08  |
| Mo 202.032 | 1.5187u                  | 3.0258   | 1.6284u  |
| Na 330.237 | 1907.01u                 | 1839.76u | 2151.23u |
| Ni 231.604 | 109.259                  | 110.698  | 111.016  |
| Pb 220.353 | 118.839                  | 117.022  | 118.480  |
| Sb 206.834 | 7.2415                   | 5.8907   | 10.1205  |
| Se 196.026 | 5.1028                   | -8.1905u | 0.8268   |
| Sn 189.925 | 17.4075                  | 18.9721  | 16.1191  |
| Sr 216.596 | 11.8820                  | 11.4795  | 11.6795  |
| Ti 334.941 | 11606.0                  | 11601.9  | 11519.2  |
| Tl 190.794 | 6.5994u                  | 5.8501u  | 12.0444u |
| V 292.401  | 1617.41                  | 1621.00  | 1617.57  |
| Zn 206.200 | 583.304                  | 583.145  | 581.558  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.9576b    | ppb   | 0.2674  | 27.9  | -91.7462   |
| Al 308.215 | 247920b     | ppb   | 344.601 | 0.1   | 1462595    |
| As 188.980 | 1.6258b     | ppb   | 1.6735  | 102.9 | -3.6564    |
| B 249.678  | 8.7138b     | ppb   | 0.5704  | 6.5   | -352.589   |
| Ba 389.178 | 789.648b    | ppb   | 2.2571  | 0.3   | 15021.3    |
| Be 313.042 | 30.6756b    | ppb   | 0.0695  | 0.2   | 53858.1    |
| Ca 370.602 | 1511b       | ppb   | 33.32   | 2.2   | -8491      |
| Cd 226.502 | -2.6908b    | ppb   | 0.1216  | 4.5   | 715.751    |
| Co 228.615 | 101.132b    | ppb   | 1.3804  | 1.4   | 1406.10    |
| Cr 267.716 | 426.719b    | ppb   | 1.2448  | 0.3   | 19412.9    |
| Cu 324.754 | 533.968b    | ppb   | 3.1136  | 0.6   | 28723.4    |
| Fe 271.441 | 307554b     | ppb   | 761.341 | 0.2   | 470146     |
| K 766.491  | 42511.5xb   | ppb   | 191.557 | 0.5   | 1379304    |
| Mg 279.078 | 152701b     | ppb   | 314.925 | 0.2   | 321460     |
| Mn 257.610 | 3469.06b    | ppb   | 8.9401  | 0.3   | 757774     |
| Mo 202.032 | 2.0576b     | ppb   | 0.8403  | 40.8  | 5.7713     |
| Na 330.237 | 1966.00b    | ppb   | 163.903 | 8.3   | 7.8439     |
| Ni 231.604 | 110.324b    | ppb   | 0.9363  | 0.8   | 290.421    |
| Pb 220.353 | 118.113b    | ppb   | 0.9624  | 0.8   | 209.063    |
| Sb 206.834 | 7.7509b     | ppb   | 2.1604  | 27.9  | 13.0725    |
| Se 196.026 | -0.7536b    | ppb   | 6.7862  | 900.5 | 8.6393     |
| Sn 189.925 | 17.4996b    | ppb   | 1.4288  | 8.2   | 1.3725     |
| Sr 216.596 | 11.6803b    | ppb   | 0.2013  | 1.7   | 400.113    |
| Ti 334.941 | 11575.7b    | ppb   | 48.9675 | 0.4   | 2905585    |
| Tl 190.794 | 8.1646b     | ppb   | 3.3808  | 41.4  | -23.6506   |
| V 292.401  | 1618.66b    | ppb   | 2.0301  | 0.1   | 38370.3    |
| Zn 206.200 | 582.669b    | ppb   | 0.9652  | 0.2   | 764.469    |

680-90570-a-6-a (Samp) 5/28/2013, 5:35:46 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.4353u                 | -0.7444u | -1.1405u |
| Al 308.215 | 254349                   | 255652   | 256706   |
| As 188.980 | 6.7808                   | 0.6706u  | 13.1564  |
| B 249.678  | 11.8600u                 | 10.7811u | 11.9258u |
| Ba 389.178 | 1078.27                  | 1082.65  | 1084.89  |
| Be 313.042 | 22.7291                  | 22.8296  | 22.8618  |
| Ca 370.602 | 4490u                    | 4473u    | 4439u    |
| Cd 226.502 | -2.6394                  | -2.7415  | -2.9794  |
| Co 228.615 | 172.301                  | 173.729  | 172.466  |
| Cr 267.716 | 432.217                  | 434.483  | 435.108  |
| Cu 324.754 | 543.250                  | 536.773  | 551.347  |
| Fe 271.441 | 304364                   | 305202   | 305467   |
| K 766.491  | 39620.1x                 | 39855.4x | 39998.6x |
| Mg 279.078 | 82364.7                  | 82560.3  | 82657.6  |
| Mn 257.610 | 4357.82                  | 4372.60  | 4372.91  |
| Mo 202.032 | 9.9705                   | 8.8472   | 9.8894   |
| Na 330.237 | 1845.60u                 | 2041.20u | 1796.19u |
| Ni 231.604 | 143.310                  | 143.857  | 144.002  |
| Pb 220.353 | 146.151                  | 144.908  | 143.886  |
| Sb 206.834 | 1.9034                   | 6.1013   | 5.9747   |
| Se 196.026 | -9.6275u                 | -6.6900u | 0.6859   |
| Sn 189.925 | 11.3937                  | 15.9555  | 18.8918  |
| Sr 216.596 | 29.5442                  | 29.2222  | 29.3147  |
| Ti 334.941 | 10536.1                  | 10602.6  | 10620.0  |
| Tl 190.794 | 6.7339u                  | -1.0369u | 1.1555u  |
| V 292.401  | 1215.01                  | 1218.74  | 1219.99  |
| Zn 206.200 | 554.713                  | 551.211  | 554.494  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.7734b    | ppb   | 0.3535  | 45.7  | -76.8680   |
| Al 308.215 | 255569b     | ppb   | 1180.45 | 0.5   | 1507788    |
| As 188.980 | 6.8693b     | ppb   | 6.2434  | 90.9  | -0.4695    |
| B 249.678  | 11.5223b    | ppb   | 0.6427  | 5.6   | -310.114   |
| Ba 389.178 | 1081.93b    | ppb   | 3.3686  | 0.3   | 20194.5    |
| Be 313.042 | 22.8068b    | ppb   | 0.0692  | 0.3   | 39983.6    |
| Ca 370.602 | 4467b       | ppb   | 25.75   | 0.6   | -2735      |
| Cd 226.502 | -2.7868b    | ppb   | 0.1744  | 6.3   | 705.321    |
| Co 228.615 | 172.832b    | ppb   | 0.7813  | 0.5   | 2190.33    |
| Cr 267.716 | 433.936b    | ppb   | 1.5206  | 0.4   | 19744.5    |
| Cu 324.754 | 543.790b    | ppb   | 7.3025  | 1.3   | 29251.2    |
| Fe 271.441 | 305011b     | ppb   | 576.110 | 0.2   | 466264     |
| K 766.491  | 39824.7xb   | ppb   | 191.067 | 0.5   | 1292150    |
| Mg 279.078 | 82527.5b    | ppb   | 149.206 | 0.2   | 173698     |
| Mn 257.610 | 4367.78b    | ppb   | 8.6232  | 0.2   | 953028     |
| Mo 202.032 | 9.5690b     | ppb   | 0.6264  | 6.5   | 55.7522    |
| Na 330.237 | 1894.33b    | ppb   | 129.568 | 6.8   | 8.8711     |
| Ni 231.604 | 143.723b    | ppb   | 0.3647  | 0.3   | 376.879    |
| Pb 220.353 | 144.982b    | ppb   | 1.1342  | 0.8   | 249.331    |
| Sb 206.834 | 4.6598b     | ppb   | 2.3879  | 51.2  | 9.9654     |
| Se 196.026 | -5.2105b    | ppb   | 5.3135  | 102.0 | 6.7479     |
| Sn 189.925 | 15.4137b    | ppb   | 3.7783  | 24.5  | -0.3223    |
| Sr 216.596 | 29.3604b    | ppb   | 0.1658  | 0.6   | 580.710    |
| Ti 334.941 | 10586.2b    | ppb   | 44.2809 | 0.4   | 2656991    |
| Tl 190.794 | 2.2842b     | ppb   | 4.0065  | 175.4 | -28.6448   |
| V 292.401  | 1217.91b    | ppb   | 2.5889  | 0.2   | 28885.1    |
| Zn 206.200 | 553.472b    | ppb   | 1.9615  | 0.4   | 726.451    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-7-a (Samp) 5/28/2013, 5:40:22 PM Rack 1, Tube 47

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.6234u                 | -0.9149u | -0.9136u |
| Al 308.215 | 222705                   | 223321   | 223870   |
| As 188.980 | 4.5916                   | 4.9966   | 10.6968  |
| B 249.678  | 10.8899u                 | 10.4669u | 11.1664u |
| Ba 389.178 | 1080.90                  | 1086.50  | 1089.90  |
| Be 313.042 | 26.0705                  | 26.1350  | 26.2138  |
| Ca 370.602 | 3792u                    | 3742u    | 3771u    |
| Cd 226.502 | -3.5082                  | -3.5279  | -3.2686  |
| Co 228.615 | 111.721                  | 112.848  | 111.166  |
| Cr 267.716 | 848.907                  | 851.632  | 853.513  |
| Cu 324.754 | 437.058                  | 439.115  | 433.760  |
| Fe 271.441 | 317267                   | 317735   | 318497   |
| K 766.491  | 26958.1                  | 27044.6  | 27118.9  |
| Mg 279.078 | 48505.9                  | 48659.6  | 48726.7  |
| Mn 257.610 | 2023.47                  | 2029.29  | 2032.82  |
| Mo 202.032 | 3.5285                   | 4.3889   | 4.9059   |
| Na 330.237 | 1017.04u                 | 907.865u | 1035.42u |
| Ni 231.604 | 210.220                  | 207.114  | 209.326  |
| Pb 220.353 | 159.999                  | 158.163  | 164.112  |
| Sb 206.834 | 13.4597                  | 11.7378  | 19.6123  |
| Se 196.026 | 2.9326                   | 1.6412   | -7.0692u |
| Sn 189.925 | 22.7305                  | 24.7267  | 23.4890  |
| Sr 216.596 | 32.0974                  | 33.2057  | 34.7689  |
| Ti 334.941 | 14388.3                  | 14461.1  | 14533.5  |
| Tl 190.794 | 7.2602u                  | 13.1061u | 7.4492u  |
| V 292.401  | 1371.46                  | 1373.59  | 1376.95  |
| Zn 206.200 | 593.542                  | 592.879  | 598.347  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.1507     | ppb   | 0.4094  | 35.6  | -112.555   |
| Al 308.215 | 223299      | ppb   | 582.561 | 0.3   | 1317375    |
| As 188.980 | 6.7616      | ppb   | 3.4139  | 50.5  | -0.9515    |
| B 249.678  | 10.8411     | ppb   | 0.3523  | 3.2   | -343.320   |
| Ba 389.178 | 1085.77     | ppb   | 4.5417  | 0.4   | 20209.5    |
| Be 313.042 | 26.1398     | ppb   | 0.0718  | 0.3   | 45862.0    |
| Ca 370.602 | 3768        | ppb   | 25.10   | 0.7   | -3510      |
| Cd 226.502 | -3.4349     | ppb   | 0.1444  | 4.2   | 716.238    |
| Co 228.615 | 111.912     | ppb   | 0.8575  | 0.8   | 1591.83    |
| Cr 267.716 | 851.351     | ppb   | 2.3156  | 0.3   | 38637.4    |
| Cu 324.754 | 436.644     | ppb   | 2.7012  | 0.6   | 23537.0    |
| Fe 271.441 | 317833      | ppb   | 620.744 | 0.2   | 485858     |
| K 766.491  | 27040.5     | ppb   | 80.4750 | 0.3   | 877451     |
| Mg 279.078 | 48630.7     | ppb   | 113.186 | 0.2   | 102380     |
| Mn 257.610 | 2028.53     | ppb   | 4.7216  | 0.2   | 443165     |
| Mo 202.032 | 4.2745      | ppb   | 0.6958  | 16.3  | 20.2365    |
| Na 330.237 | 986.775     | ppb   | 68.9536 | 7.0   | -50.2810   |
| Ni 231.604 | 208.887     | ppb   | 1.5991  | 0.8   | 546.306    |
| Pb 220.353 | 160.758     | ppb   | 3.0465  | 1.9   | 271.808    |
| Sb 206.834 | 14.9366     | ppb   | 4.1398  | 27.7  | 23.7031    |
| Se 196.026 | -0.8318     | ppb   | 5.4402  | 654.1 | 8.2969     |
| Sn 189.925 | 23.6487     | ppb   | 1.0077  | 4.3   | 6.3731     |
| Sr 216.596 | 33.3573     | ppb   | 1.3422  | 4.0   | 632.020    |
| Ti 334.941 | 14460.9     | ppb   | 72.6031 | 0.5   | 3629230    |
| Tl 190.794 | 9.2718      | ppb   | 3.3219  | 35.8  | -22.8008   |
| V 292.401  | 1374.00     | ppb   | 2.7664  | 0.2   | 32607.4    |
| Zn 206.200 | 594.923     | ppb   | 2.9843  | 0.5   | 579.140    |



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680-90570-a-8-a (Samp) 5/28/2013, 5:44:58 PM Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -2.9482u                 | -2.5143u  | -2.5254u  |
| Al 308.215 | 333502                   | 335345    | 335973    |
| As 188.980 | 1.1553                   | 7.5811    | 6.6651    |
| B 249.678  | 5.3078u                  | 5.9814u   | 5.6030u   |
| Ba 389.178 | 2353.39                  | 2360.52   | 2363.93   |
| Be 313.042 | 36.8710                  | 37.0121   | 37.0447   |
| Ca 370.602 | 2880u                    | 2953u     | 2995u     |
| Cd 226.502 | -3.5197                  | -2.9855   | -2.5580   |
| Co 228.615 | 184.559                  | 187.929   | 187.535   |
| Cr 267.716 | 1017.86                  | 1023.67   | 1025.47   |
| Cu 324.754 | 396.620                  | 402.402   | 400.985   |
| Fe 271.441 | 397442                   | 399793    | 400871    |
| K 766.491  | 85990.0x                 | 86662.4x  | 86248.2x  |
| Mg 279.078 | 136316                   | 137175    | 137572    |
| Mn 257.610 | 3588.61                  | 3608.32   | 3610.29   |
| Mo 202.032 | 8.0800                   | 8.4158    | 8.6002    |
| Na 330.237 | 2232.59u                 | 1985.59u  | 2116.00u  |
| Ni 231.604 | 386.379                  | 389.199   | 389.611   |
| Pb 220.353 | 149.264                  | 149.213   | 141.656   |
| Sb 206.834 | 14.3048                  | 10.9178   | 11.4901   |
| Se 196.026 | -6.8842u                 | -19.1436u | -11.2258u |
| Sn 189.925 | 23.8782                  | 19.7247   | 18.7668   |
| Sr 216.596 | 30.5353                  | 31.4170   | 31.6552   |
| Ti 334.941 | 19506.7                  | 20363.2   | 20343.0   |
| Tl 190.794 | 15.6829u                 | 9.4013u   | 7.8512u   |
| V 292.401  | 1354.29                  | 1363.14   | 1362.86   |
| Zn 206.200 | 875.001                  | 888.224   | 880.770   |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -2.6626b    | ppb   | 0.2473  | 9.3  | -213.648   |
| Al 308.215 | 334940b     | ppb   | 1284.45 | 0.4  | 1976037    |
| As 188.980 | 5.1338b     | ppb   | 3.4758  | 67.7 | -1.6395    |
| B 249.678  | 5.6307b     | ppb   | 0.3377  | 6.0  | -565.925   |
| Ba 389.178 | 2359.28b    | ppb   | 5.3803  | 0.2  | 43662.0    |
| Be 313.042 | 36.9759b    | ppb   | 0.0923  | 0.2  | 64991.6    |
| Ca 370.602 | 2943b       | ppb   | 58.33   | 2.0  | -7351      |
| Cd 226.502 | -3.0211b    | ppb   | 0.4818  | 15.9 | 938.898    |
| Co 228.615 | 186.674b    | ppb   | 1.8425  | 1.0  | 2558.79    |
| Cr 267.716 | 1022.33b    | ppb   | 3.9728  | 0.4  | 46412.7    |
| Cu 324.754 | 400.002b    | ppb   | 3.0136  | 0.8  | 21608.1    |
| Fe 271.441 | 399369b     | ppb   | 1753.16 | 0.4  | 610497     |
| K 766.491  | 86300.2xb   | ppb   | 339.214 | 0.4  | 2799746    |
| Mg 279.078 | 137021b     | ppb   | 641.837 | 0.5  | 288436     |
| Mn 257.610 | 3602.41b    | ppb   | 11.9916 | 0.3  | 786943     |
| Mo 202.032 | 8.3653b     | ppb   | 0.2637  | 3.2  | 43.3415    |
| Na 330.237 | 2111.39b    | ppb   | 123.567 | 5.9  | -42.3977   |
| Ni 231.604 | 388.396b    | ppb   | 1.7589  | 0.5  | 1013.58    |
| Pb 220.353 | 146.711b    | ppb   | 4.3782  | 3.0  | 251.863    |
| Sb 206.834 | 12.2376b    | ppb   | 1.8130  | 14.8 | 24.3811    |
| Se 196.026 | -12.4179b   | ppb   | 6.2160  | 50.1 | 3.4909     |
| Sn 189.925 | 20.7899b    | ppb   | 2.7171  | 13.1 | 4.0452     |
| Sr 216.596 | 31.2025b    | ppb   | 0.5899  | 1.9  | 676.146    |
| Ti 334.941 | 20071.0b    | ppb   | 488.781 | 2.4  | 5037464    |
| Tl 190.794 | 10.9785b    | ppb   | 4.1472  | 37.8 | -26.0789   |
| V 292.401  | 1360.10b    | ppb   | 5.0313  | 0.4  | 32346.9    |
| Zn 206.200 | 881.332b    | ppb   | 6.6294  | 0.8  | 5151.82    |

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680-90570-a-9-a (Samp) 5/28/2013, 5:58:41 PM Rack 1, Tube 51

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -1.0370u                 | -1.3737u  | -1.1744u  |
| Al 308.215 | 251390                   | 250693    | 250831    |
| As 188.980 | 10.7593                  | 6.4102    | 1.7751    |
| B 249.678  | 9.0106u                  | 9.6604u   | 8.9320u   |
| Ba 389.178 | 1618.90                  | 1619.64   | 1617.58   |
| Be 313.042 | 45.6947                  | 45.6487   | 45.5800   |
| Ca 370.602 | 5681u                    | 5690u     | 5776u     |
| Cd 226.502 | -3.5265                  | -3.3672   | -3.2330   |
| Co 228.615 | 273.497                  | 271.387   | 270.133   |
| Cr 267.716 | 855.364                  | 853.924   | 852.475   |
| Cu 324.754 | 497.389                  | 502.925   | 502.672   |
| Fe 271.441 | 358087                   | 351964    | 349984    |
| K 766.491  | 46195.2x                 | 46084.8x  | 46196.0x  |
| Mg 279.078 | 90906.4                  | 90659.6   | 90522.0   |
| Mn 257.610 | 6493.13                  | 6492.88   | 6467.37   |
| Mo 202.032 | 5.7488                   | 5.9323    | 5.9492    |
| Na 330.237 | 1510.39u                 | 1319.58u  | 1407.07u  |
| Ni 231.604 | 260.247                  | 256.648   | 257.776   |
| Pb 220.353 | 74.7664                  | 75.5996   | 78.3937   |
| Sb 206.834 | 15.3251                  | 14.6977   | 7.4671    |
| Se 196.026 | -4.2721                  | -14.0459u | -11.1580u |
| Sn 189.925 | 28.4939                  | 35.7522   | 28.3322   |
| Sr 216.596 | 29.4200                  | 31.1258   | 29.2963   |
| Ti 334.941 | 17553.1                  | 17381.6   | 17291.3   |
| Tl 190.794 | 9.6358u                  | 4.4062u   | 12.7739u  |
| V 292.401  | 1497.20                  | 1496.54   | 1493.73   |
| Zn 206.200 | 632.955                  | 628.400   | 617.380   |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -1.1951b    | ppb   | 0.1693  | 14.2 | -96.3078   |
| Al 308.215 | 250972b     | ppb   | 369.151 | 0.1  | 1480613    |
| As 188.980 | 6.3149b     | ppb   | 4.4929  | 71.1 | -1.2910    |
| B 249.678  | 9.2010b     | ppb   | 0.3998  | 4.3  | -431.895   |
| Ba 389.178 | 1618.70b    | ppb   | 1.0436  | 0.1  | 30036.0    |
| Be 313.042 | 45.6411b    | ppb   | 0.0578  | 0.1  | 80281.9    |
| Ca 370.602 | 5716b       | ppb   | 52.83   | 0.9  | -296.8     |
| Cd 226.502 | -3.3756b    | ppb   | 0.1469  | 4.4  | 809.336    |
| Co 228.615 | 271.672b    | ppb   | 1.7000  | 0.6  | 3454.20    |
| Cr 267.716 | 853.921b    | ppb   | 1.4444  | 0.2  | 38784.3    |
| Cu 324.754 | 500.995b    | ppb   | 3.1262  | 0.6  | 26980.2    |
| Fe 271.441 | 353345b     | ppb   | 4224.61 | 1.2  | 540159     |
| K 766.491  | 46158.6xb   | ppb   | 63.9822 | 0.1  | 1497613    |
| Mg 279.078 | 90696.0b    | ppb   | 194.732 | 0.2  | 190873     |
| Mn 257.610 | 6484.46b    | ppb   | 14.7974 | 0.2  | 1414362    |
| Mo 202.032 | 5.8768b     | ppb   | 0.1112  | 1.9  | 28.9047    |
| Na 330.237 | 1412.35b    | ppb   | 95.5148 | 6.8  | -50.2546   |
| Ni 231.604 | 258.224b    | ppb   | 1.8405  | 0.7  | 674.707    |
| Pb 220.353 | 76.2532b    | ppb   | 1.8999  | 2.5  | 147.429    |
| Sb 206.834 | 12.4967b    | ppb   | 4.3670  | 34.9 | 22.2997    |
| Se 196.026 | -9.8253b    | ppb   | 5.0214  | 51.1 | 5.2348     |
| Sn 189.925 | 30.8594b    | ppb   | 4.2381  | 13.7 | 12.2361    |
| Sr 216.596 | 29.9474b    | ppb   | 1.0224  | 3.4  | 626.369    |
| Ti 334.941 | 17408.7b    | ppb   | 132.989 | 0.8  | 4369158    |
| Tl 190.794 | 8.9386b     | ppb   | 4.2272  | 47.3 | -26.1785   |
| V 292.401  | 1495.82b    | ppb   | 1.8445  | 0.1  | 35525.9    |
| Zn 206.200 | 626.245b    | ppb   | 8.0078  | 1.3  | 820.187    |

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**680-90570-a-10-a (Samp)**      **5/28/2013, 6:03:15 PM**      **Rack 1, Tube 52****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.4171u                 | -1.3381u | -1.5581u |
| Al 308.215 | 204070                   | 202414   | 204857   |
| As 188.980 | 20.3489                  | 24.0856  | 26.2318  |
| B 249.678  | 10.6942u                 | 11.2638u | 10.6793u |
| Ba 389.178 | 731.169                  | 722.813  | 734.452  |
| Be 313.042 | 9.6821                   | 9.6215   | 9.7405   |
| Ca 370.602 | 1934u                    | 1959u    | 1895u    |
| Cd 226.502 | 1.4665                   | 1.2048   | 1.4618   |
| Co 228.615 | 64.7058                  | 64.6800  | 65.4240  |
| Cr 267.716 | 192.806                  | 191.359  | 192.835  |
| Cu 324.754 | 140.441                  | 138.828  | 141.675  |
| Fe 271.441 | 193498                   | 191952   | 194415   |
| K 766.491  | 15154.8                  | 15124.8  | 15280.6  |
| Mg 279.078 | 18124.5                  | 17952.8  | 18188.9  |
| Mn 257.610 | 7096.62                  | 7054.68  | 7133.89  |
| Mo 202.032 | 3.3464                   | 4.6606   | 4.0795   |
| Na 330.237 | 579.098u                 | 661.827u | 633.462u |
| Ni 231.604 | 65.5121                  | 61.3878  | 60.9623  |
| Pb 220.353 | 245.573                  | 248.604  | 246.222  |
| Sb 206.834 | 3.8319                   | -0.5958  | 2.7119   |
| Se 196.026 | 5.4065                   | -4.0808  | -2.7240  |
| Sn 189.925 | 22.5888                  | 20.2287  | 26.1148  |
| Sr 216.596 | 33.5570                  | 33.0436  | 33.4705  |
| Ti 334.941 | 5158.90                  | 5107.28  | 5177.90  |
| Tl 190.794 | -6.0766u                 | -3.2969u | 1.5629u  |
| V 292.401  | 373.918                  | 370.981  | 375.924  |
| Zn 206.200 | 395.669                  | 392.010  | 397.317  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.4378     | ppb   | 0.1115  | 7.8    | -115.800   |
| Al 308.215 | 203780      | ppb   | 1246.87 | 0.6    | 1202387    |
| As 188.980 | 23.5554     | ppb   | 2.9771  | 12.6   | 9.9461     |
| B 249.678  | 10.8791     | ppb   | 0.3333  | 3.1    | -109.569   |
| Ba 389.178 | 729.478     | ppb   | 6.0007  | 0.8    | 13520.8    |
| Be 313.042 | 9.6813      | ppb   | 0.0595  | 0.6    | 16842.3    |
| Ca 370.602 | 1929        | ppb   | 32.26   | 1.7    | -4013      |
| Cd 226.502 | 1.3777      | ppb   | 0.1497  | 10.9   | 557.377    |
| Co 228.615 | 64.9366     | ppb   | 0.4223  | 0.7    | 853.492    |
| Cr 267.716 | 192.333     | ppb   | 0.8442  | 0.4    | 8791.92    |
| Cu 324.754 | 140.315     | ppb   | 1.4277  | 1.0    | 7698.69    |
| Fe 271.441 | 193288      | ppb   | 1244.87 | 0.6    | 295475     |
| K 766.491  | 15186.7     | ppb   | 82.6770 | 0.5    | 492931     |
| Mg 279.078 | 18088.7     | ppb   | 122.003 | 0.7    | 37979.0    |
| Mn 257.610 | 7095.06     | ppb   | 39.6289 | 0.6    | 1546420    |
| Mo 202.032 | 4.0288      | ppb   | 0.6586  | 16.3   | 25.9861    |
| Na 330.237 | 624.796     | ppb   | 42.0402 | 6.7    | 0.1350     |
| Ni 231.604 | 62.6207     | ppb   | 2.5130  | 4.0    | 164.395    |
| Pb 220.353 | 246.800     | ppb   | 1.5958  | 0.6    | 397.589    |
| Sb 206.834 | 1.9827      | ppb   | 2.3022  | 116.1  | 2.8838     |
| Se 196.026 | -0.4661     | ppb   | 5.1309  | 1100.9 | 9.2520     |
| Sn 189.925 | 22.9774     | ppb   | 2.9623  | 12.9   | 5.8305     |
| Sr 216.596 | 33.3570     | ppb   | 0.2749  | 0.8    | 527.899    |
| Ti 334.941 | 5148.03     | ppb   | 36.5468 | 0.7    | 1291970    |
| Tl 190.794 | -2.6035     | ppb   | 3.8667  | 148.5  | -28.4363   |
| V 292.401  | 373.608     | ppb   | 2.4861  | 0.7    | 8872.23    |
| Zn 206.200 | 394.999     | ppb   | 2.7164  | 0.7    | 529.112    |

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**680-90570-a-11-a (Samp)**      **5/28/2013, 6:07:49 PM**      **Rack 1, Tube 53****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.4058u                 | -0.1261u | -0.5619u  |
| Al 308.215 | 54225.4                  | 54556.5  | 54334.8   |
| As 188.980 | 1.9499                   | 4.6128   | 3.7375    |
| B 249.678  | 6.8976                   | 7.8593   | 6.5230    |
| Ba 389.178 | 220.466                  | 221.741  | 221.588   |
| Be 313.042 | 2.6693                   | 2.6841   | 2.6721    |
| Ca 370.602 | 1476                     | 1483     | 1471      |
| Cd 226.502 | -0.1651                  | -0.2266  | -0.3347   |
| Co 228.615 | 15.7651                  | 15.1947  | 15.2070   |
| Cr 267.716 | 70.4414                  | 71.0636  | 70.7760   |
| Cu 324.754 | 36.8421                  | 37.4142  | 37.3319   |
| Fe 271.441 | 34429.4                  | 34591.6  | 34436.3   |
| K 766.491  | 4787.94                  | 4801.96  | 4782.23   |
| Mg 279.078 | 5760.69                  | 5809.35  | 5785.19   |
| Mn 257.610 | 944.412                  | 947.507  | 944.687   |
| Mo 202.032 | 1.7598                   | 1.7662   | 1.0334    |
| Na 330.237 | 108.161u                 | 324.893u | -68.2916u |
| Ni 231.604 | 20.5510                  | 21.0194  | 20.7771   |
| Pb 220.353 | 132.806                  | 136.431  | 130.300   |
| Sb 206.834 | 5.0703                   | 1.2033   | 1.2556    |
| Se 196.026 | -11.5099u                | 5.6979   | -4.7889u  |
| Sn 189.925 | 16.1225                  | 17.1024  | 12.2842   |
| Sr 216.596 | 15.6861                  | 15.3475  | 15.7193   |
| Ti 334.941 | 1983.11                  | 1995.35  | 1982.51   |
| Tl 190.794 | 1.8603u                  | 4.2742   | 4.9654    |
| V 292.401  | 116.668                  | 116.911  | 116.116   |
| Zn 206.200 | 113.891                  | 114.083  | 113.455   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.3646     | ppb   | 0.2208  | 60.6  | -67.0087   |
| Al 308.215 | 54372.2     | ppb   | 168.710 | 0.3   | 320950     |
| As 188.980 | 3.4334      | ppb   | 1.3572  | 39.5  | -1.8366    |
| B 249.678  | 7.0933      | ppb   | 0.6893  | 9.7   | 136.930    |
| Ba 389.178 | 221.265     | ppb   | 0.6959  | 0.3   | 4067.58    |
| Be 313.042 | 2.6752      | ppb   | 0.0078  | 0.3   | 4475.91    |
| Ca 370.602 | 1476        | ppb   | 5.972   | 0.4   | 1915       |
| Cd 226.502 | -0.2421     | ppb   | 0.0859  | 35.5  | 98.7965    |
| Co 228.615 | 15.3889     | ppb   | 0.3259  | 2.1   | 221.469    |
| Cr 267.716 | 70.7603     | ppb   | 0.3114  | 0.4   | 3223.80    |
| Cu 324.754 | 37.1961     | ppb   | 0.3093  | 0.8   | 2149.63    |
| Fe 271.441 | 34485.7     | ppb   | 91.7268 | 0.3   | 52734.9    |
| K 766.491  | 4790.71     | ppb   | 10.1538 | 0.2   | 155700     |
| Mg 279.078 | 5785.08     | ppb   | 24.3286 | 0.4   | 12188.1    |
| Mn 257.610 | 945.535     | ppb   | 1.7134  | 0.2   | 206160     |
| Mo 202.032 | 1.5198      | ppb   | 0.4212  | 27.7  | 17.1964    |
| Na 330.237 | 121.588     | ppb   | 196.936 | 162.0 | 34.1009    |
| Ni 231.604 | 20.7825     | ppb   | 0.2343  | 1.1   | 52.6493    |
| Pb 220.353 | 133.179     | ppb   | 3.0824  | 2.3   | 221.473    |
| Sb 206.834 | 2.5097      | ppb   | 2.2177  | 88.4  | -1.1465    |
| Se 196.026 | -3.5336     | ppb   | 8.6723  | 245.4 | 5.8516     |
| Sn 189.925 | 15.1697     | ppb   | 2.5465  | 16.8  | -0.5139    |
| Sr 216.596 | 15.5843     | ppb   | 0.2057  | 1.3   | 208.928    |
| Ti 334.941 | 1986.99     | ppb   | 7.2464  | 0.4   | 498618     |
| Tl 190.794 | 3.7000      | ppb   | 1.6303  | 44.1  | -12.9026   |
| V 292.401  | 116.565     | ppb   | 0.4071  | 0.3   | 2762.18    |
| Zn 206.200 | 113.809     | ppb   | 0.3217  | 0.3   | 513.367    |

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**680-90570-a-12-a (Samp)**      **5/28/2013, 6:12:24 PM**      **Rack 1, Tube 54****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.3553u                 | -1.5156u | -1.3448u |
| Al 308.215 | 82989.7                  | 83093.3  | 82642.2  |
| As 188.980 | 8.8584                   | 9.6848   | 6.2805   |
| B 249.678  | 3.3541u                  | 3.5804u  | 3.4367u  |
| Ba 389.178 | 580.971                  | 582.728  | 580.670  |
| Be 313.042 | 5.6200                   | 5.6583   | 5.6059   |
| Ca 370.602 | 567.0u                   | 553.3u   | 574.6u   |
| Cd 226.502 | -1.2167                  | -0.9254  | -1.0512  |
| Co 228.615 | 18.2281                  | 19.3049  | 17.9808  |
| Cr 267.716 | 93.0505                  | 93.3709  | 92.9603  |
| Cu 324.754 | 16.4581                  | 15.9449  | 15.9907  |
| Fe 271.441 | 75066.7                  | 75279.9  | 74733.3  |
| K 766.491  | 27700.5                  | 27715.5  | 27575.0  |
| Mg 279.078 | 16166.2                  | 16192.5  | 16087.1  |
| Mn 257.610 | 1438.75                  | 1442.88  | 1432.14  |
| Mo 202.032 | 0.3882u                  | 2.0802   | 1.6009   |
| Na 330.237 | 133.994u                 | 363.690u | 339.937u |
| Ni 231.604 | 19.8079                  | 22.2686  | 21.2208  |
| Pb 220.353 | 48.1659                  | 49.6662  | 47.4907  |
| Sb 206.834 | 10.2229                  | 5.8701   | 8.0826   |
| Se 196.026 | -5.9056u                 | 5.2638   | -2.8176u |
| Sn 189.925 | 19.6532                  | 20.3298  | 19.7762  |
| Sr 216.596 | 11.7423                  | 11.8502  | 12.1934  |
| Ti 334.941 | 7086.40                  | 7096.63  | 7070.07  |
| Tl 190.794 | 8.4578                   | 2.2242u  | 3.5431u  |
| V 292.401  | 263.455                  | 265.203  | 263.017  |
| Zn 206.200 | 248.484                  | 247.096  | 247.240  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.4052     | ppb   | 0.0957  | 6.8   | -137.537   |
| Al 308.215 | 82908.4     | ppb   | 236.293 | 0.3   | 489283     |
| As 188.980 | 8.2746      | ppb   | 1.7756  | 21.5  | 0.9072     |
| B 249.678  | 3.4570      | ppb   | 0.1145  | 3.3   | 12.2059    |
| Ba 389.178 | 581.456     | ppb   | 1.1111  | 0.2   | 10690.6    |
| Be 313.042 | 5.6281      | ppb   | 0.0271  | 0.5   | 9683.45    |
| Ca 370.602 | 565.0       | ppb   | 10.76   | 1.9   | -221.1     |
| Cd 226.502 | -1.0645     | ppb   | 0.1461  | 13.7  | 175.126    |
| Co 228.615 | 18.5046     | ppb   | 0.7040  | 3.8   | 369.449    |
| Cr 267.716 | 93.1272     | ppb   | 0.2158  | 0.2   | 4255.37    |
| Cu 324.754 | 16.1312     | ppb   | 0.2840  | 1.8   | 1037.00    |
| Fe 271.441 | 75026.6     | ppb   | 275.527 | 0.4   | 114705     |
| K 766.491  | 27663.7     | ppb   | 77.1834 | 0.3   | 897665     |
| Mg 279.078 | 16148.6     | ppb   | 54.8935 | 0.3   | 33998.7    |
| Mn 257.610 | 1437.92     | ppb   | 5.4144  | 0.4   | 313617     |
| Mo 202.032 | 1.3564      | ppb   | 0.8721  | 64.3  | 14.0327    |
| Na 330.237 | 279.207     | ppb   | 126.317 | 45.2  | 11.8141    |
| Ni 231.604 | 21.0991     | ppb   | 1.2349  | 5.9   | 54.2862    |
| Pb 220.353 | 48.4409     | ppb   | 1.1135  | 2.3   | 95.2984    |
| Sb 206.834 | 8.0585      | ppb   | 2.1765  | 27.0  | 5.2733     |
| Se 196.026 | -1.1531     | ppb   | 5.7677  | 500.2 | 7.2171     |
| Sn 189.925 | 19.9197     | ppb   | 0.3604  | 1.8   | 3.3469     |
| Sr 216.596 | 11.9286     | ppb   | 0.2356  | 2.0   | 205.591    |
| Ti 334.941 | 7084.37     | ppb   | 13.3954 | 0.2   | 1777879    |
| Tl 190.794 | 4.7417      | ppb   | 3.2851  | 69.3  | -14.2704   |
| V 292.401  | 263.892     | ppb   | 1.1566  | 0.4   | 6311.48    |
| Zn 206.200 | 247.607     | ppb   | 0.7635  | 0.3   | 327.673    |

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**680-90570-a-14-a (Samp)**                      **5/28/2013, 6:16:59 PM**                      **Rack 1, Tube 55**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.3670u                 | -1.5900u | -1.2486u |
| Al 308.215 | 61482.6                  | 61434.0  | 61585.7  |
| As 188.980 | 2.6739                   | 0.2230   | 5.7352   |
| B 249.678  | 2.7435u                  | 2.0803u  | 1.6230u  |
| Ba 389.178 | 517.475                  | 519.371  | 516.765  |
| Be 313.042 | 5.2033                   | 5.1892   | 5.2198   |
| Ca 370.602 | 403.3                    | 373.6    | 370.9    |
| Cd 226.502 | -0.8766                  | -0.8018  | -0.8016  |
| Co 228.615 | 17.8523                  | 17.7345  | 17.8416  |
| Cr 267.716 | 21.0476                  | 21.1863  | 21.3350  |
| Cu 324.754 | 4.4620                   | 4.3513   | 4.4697   |
| Fe 271.441 | 58401.1                  | 58263.5  | 58379.1  |
| K 766.491  | 25901.9                  | 25787.7  | 25794.0  |
| Mg 279.078 | 14955.8                  | 14937.1  | 14958.5  |
| Mn 257.610 | 1440.12                  | 1437.43  | 1441.16  |
| Mo 202.032 | 0.8566                   | 0.2583u  | 0.2269u  |
| Na 330.237 | 183.065u                 | 285.883u | 2.7857u  |
| Ni 231.604 | 13.3278                  | 12.8348  | 11.8199  |
| Pb 220.353 | 26.9891                  | 28.1697  | 26.0274  |
| Sb 206.834 | 4.8923                   | 5.7426   | 4.0311   |
| Se 196.026 | -3.5529u                 | -8.5508u | 3.2965   |
| Sn 189.925 | 14.6078                  | 11.7447  | 13.6776  |
| Sr 216.596 | 9.5452                   | 9.6056   | 9.7724   |
| Ti 334.941 | 6556.44                  | 6532.59  | 6556.92  |
| Tl 190.794 | 4.1573u                  | 8.1389   | 3.7713u  |
| V 292.401  | 100.824                  | 100.670  | 100.964  |
| Zn 206.200 | 221.190                  | 221.964  | 224.338  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.4019     | ppb   | 0.1734  | 12.4  | -138.145   |
| Al 308.215 | 61500.8     | ppb   | 77.4446 | 0.1   | 363009     |
| As 188.980 | 2.8774      | ppb   | 2.7617  | 96.0  | -2.3218    |
| B 249.678  | 2.1489      | ppb   | 0.5634  | 26.2  | 25.8856    |
| Ba 389.178 | 517.871     | ppb   | 1.3474  | 0.3   | 9511.74    |
| Be 313.042 | 5.2041      | ppb   | 0.0153  | 0.3   | 8939.14    |
| Ca 370.602 | 382.6       | ppb   | 18.02   | 4.7   | 72.15      |
| Cd 226.502 | -0.8266     | ppb   | 0.0432  | 5.2   | 140.420    |
| Co 228.615 | 17.8095     | ppb   | 0.0652  | 0.4   | 349.187    |
| Cr 267.716 | 21.1896     | ppb   | 0.1437  | 0.7   | 995.719    |
| Cu 324.754 | 4.4277      | ppb   | 0.0662  | 1.5   | 409.034    |
| Fe 271.441 | 58347.9     | ppb   | 73.9345 | 0.1   | 89209.6    |
| K 766.491  | 25827.8     | ppb   | 64.1937 | 0.2   | 838113     |
| Mg 279.078 | 14950.5     | ppb   | 11.6848 | 0.1   | 31479.4    |
| Mn 257.610 | 1439.57     | ppb   | 1.9235  | 0.1   | 313923     |
| Mo 202.032 | 0.4472      | ppb   | 0.3548  | 79.3  | 9.1143     |
| Na 330.237 | 157.245     | ppb   | 143.304 | 91.1  | 12.7648    |
| Ni 231.604 | 12.6608     | ppb   | 0.7689  | 6.1   | 32.0466    |
| Pb 220.353 | 27.0621     | ppb   | 1.0730  | 4.0   | 63.0783    |
| Sb 206.834 | 4.8887      | ppb   | 0.8557  | 17.5  | 1.2700     |
| Se 196.026 | -2.9357     | ppb   | 5.9478  | 202.6 | 6.3260     |
| Sn 189.925 | 13.3434     | ppb   | 1.4605  | 10.9  | -2.0004    |
| Sr 216.596 | 9.6411      | ppb   | 0.1177  | 1.2   | 167.781    |
| Ti 334.941 | 6548.65     | ppb   | 13.9130 | 0.2   | 1643431    |
| Tl 190.794 | 5.3558      | ppb   | 2.4179  | 45.1  | -12.9684   |
| V 292.401  | 100.819     | ppb   | 0.1471  | 0.1   | 2454.45    |
| Zn 206.200 | 222.497     | ppb   | 1.6406  | 0.7   | 295.096    |

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**680-90570-a-15-a (Samp)**      **5/28/2013, 6:21:34 PM**      **Rack 1, Tube 56****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.8527u                 | -2.0184u | -1.6291u |
| Al 308.215 | 207030                   | 207134   | 206114   |
| As 188.980 | 9.5272                   | 21.7909  | -2.5563u |
| B 249.678  | 8.9178u                  | 8.8990u  | 9.1814u  |
| Ba 389.178 | 848.346                  | 847.738  | 845.985  |
| Be 313.042 | 8.6943                   | 8.6976   | 8.6902   |
| Ca 370.602 | 7958                     | 7964     | 7960     |
| Cd 226.502 | -1.3495                  | -1.3643  | -1.4605  |
| Co 228.615 | 78.2138                  | 77.4480  | 77.3852  |
| Cr 267.716 | 196.134                  | 195.895  | 195.244  |
| Cu 324.754 | 154.026                  | 154.515  | 153.950  |
| Fe 271.441 | 160113                   | 159966   | 159667   |
| K 766.491  | 33848.5                  | 33828.6  | 33730.5  |
| Mg 279.078 | 31677.1                  | 31642.2  | 31558.6  |
| Mn 257.610 | 2708.93                  | 2707.37  | 2701.60  |
| Mo 202.032 | 3.0594                   | 3.7541   | 3.3618   |
| Na 330.237 | 667.483u                 | 807.625u | 828.088u |
| Ni 231.604 | 81.3163                  | 84.3343  | 80.3327  |
| Pb 220.353 | 127.494                  | 122.841  | 128.210  |
| Sb 206.834 | 4.3070                   | 15.7860  | 7.4644   |
| Se 196.026 | -7.4927u                 | -5.3766u | 13.7799  |
| Sn 189.925 | 22.3952                  | 16.7878  | 20.8616  |
| Sr 216.596 | 85.7486                  | 85.2177  | 85.5723  |
| Ti 334.941 | 8741.43                  | 8756.48  | 8718.89  |
| Tl 190.794 | 2.7865u                  | 6.8744u  | 1.4359u  |
| V 292.401  | 396.906                  | 396.365  | 395.306  |
| Zn 206.200 | 358.304                  | 354.957  | 358.152  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.8334     | ppb   | 0.1954  | 10.7   | -164.696   |
| Al 308.215 | 206759      | ppb   | 561.199 | 0.3    | 1219958    |
| As 188.980 | 9.5873      | ppb   | 12.1737 | 127.0  | 2.0386     |
| B 249.678  | 8.9994      | ppb   | 0.1579  | 1.8    | -72.2860   |
| Ba 389.178 | 847.356     | ppb   | 1.2257  | 0.1    | 15657.0    |
| Be 313.042 | 8.6940      | ppb   | 0.0037  | 0.0    | 15101.4    |
| Ca 370.602 | 7961        | ppb   | 3.250   | 0.0    | 10975      |
| Cd 226.502 | -1.3914     | ppb   | 0.0603  | 4.3    | 380.906    |
| Co 228.615 | 77.6823     | ppb   | 0.4613  | 0.6    | 1074.34    |
| Cr 267.716 | 195.758     | ppb   | 0.4607  | 0.2    | 8927.94    |
| Cu 324.754 | 154.164     | ppb   | 0.3066  | 0.2    | 8426.72    |
| Fe 271.441 | 159915      | ppb   | 227.188 | 0.1    | 244466     |
| K 766.491  | 33802.5     | ppb   | 63.1244 | 0.2    | 1096800    |
| Mg 279.078 | 31626.0     | ppb   | 60.8883 | 0.2    | 66543.8    |
| Mn 257.610 | 2705.97     | ppb   | 3.8644  | 0.1    | 590215     |
| Mo 202.032 | 3.3918      | ppb   | 0.3483  | 10.3   | 23.2853    |
| Na 330.237 | 767.732     | ppb   | 87.4188 | 11.4   | 4.5540     |
| Ni 231.604 | 81.9944     | ppb   | 2.0852  | 2.5    | 213.935    |
| Pb 220.353 | 126.182     | ppb   | 2.9152  | 2.3    | 213.617    |
| Sb 206.834 | 9.1858      | ppb   | 5.9300  | 64.6   | 9.0795     |
| Se 196.026 | 0.3035      | ppb   | 11.7187 | 3860.8 | 8.4751     |
| Sn 189.925 | 20.0149     | ppb   | 2.8980  | 14.5   | 3.4248     |
| Sr 216.596 | 85.5129     | ppb   | 0.2704  | 0.3    | 1039.88    |
| Ti 334.941 | 8738.93     | ppb   | 18.9201 | 0.2    | 2193178    |
| Tl 190.794 | 3.6989      | ppb   | 2.8317  | 76.6   | -19.8389   |
| V 292.401  | 396.192     | ppb   | 0.8139  | 0.2    | 9454.63    |
| Zn 206.200 | 357.138     | ppb   | 1.8992  | 0.5    | 479.561    |

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**680-90570-a-16-a (Samp)**                      **5/28/2013, 6:26:09 PM**                      **Rack 1, Tube 57**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.8872u                 | -1.1712u | -1.0665u |
| Al 308.215 | 186312                   | 185231   | 183910   |
| As 188.980 | -8.7081u                 | -2.1680u | 0.8969   |
| B 249.678  | 3.0062u                  | 2.9182u  | 4.6908u  |
| Ba 389.178 | 1543.47                  | 1534.82  | 1523.13  |
| Be 313.042 | 19.6021                  | 19.4539  | 19.3303  |
| Ca 370.602 | 2283                     | 2261     | 2245     |
| Cd 226.502 | -1.8162                  | -2.0578  | -2.2502  |
| Co 228.615 | 28.9301                  | 27.5965  | 27.7706  |
| Cr 267.716 | 5.6290                   | 5.6213   | 5.4273   |
| Cu 324.754 | 60.7251                  | 59.8242  | 59.1960  |
| Fe 271.441 | 159998                   | 159229   | 157956   |
| K 766.491  | 49619.9x                 | 49413.2x | 49188.2x |
| Mg 279.078 | 38633.5                  | 38317.7  | 38040.1  |
| Mn 257.610 | 3110.95                  | 3086.43  | 3056.68  |
| Mo 202.032 | 0.8005u                  | 1.4431   | 1.3049   |
| Na 330.237 | 602.838u                 | 880.192u | 718.337u |
| Ni 231.604 | 12.7698                  | 12.8219  | 12.5369  |
| Pb 220.353 | 37.5076                  | 35.8268  | 34.4474  |
| Sb 206.834 | 7.0218                   | 2.5211   | 0.1521   |
| Se 196.026 | -0.5419                  | 3.4359   | -1.6604  |
| Sn 189.925 | 22.2638                  | 15.5741  | 18.2761  |
| Sr 216.596 | 49.7585                  | 48.6581  | 47.9607  |
| Ti 334.941 | 11588.4                  | 11543.8  | 11468.9  |
| Tl 190.794 | 9.6352u                  | 7.8224u  | 13.1884  |
| V 292.401  | 179.360                  | 178.856  | 177.355  |
| Zn 206.200 | 371.800                  | 374.620  | 368.683  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.0417b    | ppb   | 0.1436  | 13.8  | -107.067   |
| Al 308.215 | 185151b     | ppb   | 1203.16 | 0.6   | 1092509    |
| As 188.980 | -3.3264b    | ppb   | 4.9062  | 147.5 | -5.7790    |
| B 249.678  | 3.5384b     | ppb   | 0.9990  | 28.2  | -143.977   |
| Ba 389.178 | 1533.80b    | ppb   | 10.2063 | 0.7   | 28164.1    |
| Be 313.042 | 19.4621b    | ppb   | 0.1361  | 0.7   | 34112.8    |
| Ca 370.602 | 2263b       | ppb   | 19.07   | 0.8   | 500.0      |
| Cd 226.502 | -2.0414b    | ppb   | 0.2175  | 10.7  | 357.290    |
| Co 228.615 | 28.0990b    | ppb   | 0.7249  | 2.6   | 577.254    |
| Cr 267.716 | 5.5592b     | ppb   | 0.1143  | 2.1   | 326.747    |
| Cu 324.754 | 59.9151b    | ppb   | 0.7686  | 1.3   | 3400.39    |
| Fe 271.441 | 159061b     | ppb   | 1031.27 | 0.6   | 243154     |
| K 766.491  | 49407.1xb   | ppb   | 215.903 | 0.4   | 1602990    |
| Mg 279.078 | 38330.4b    | ppb   | 296.924 | 0.8   | 80659.7    |
| Mn 257.610 | 3084.69b    | ppb   | 27.1798 | 0.9   | 672773     |
| Mo 202.032 | 1.1828b     | ppb   | 0.3383  | 28.6  | 9.2288     |
| Na 330.237 | 733.789b    | ppb   | 139.321 | 19.0  | -6.1956    |
| Ni 231.604 | 12.7095b    | ppb   | 0.1518  | 1.2   | 34.2427    |
| Pb 220.353 | 35.9273b    | ppb   | 1.5326  | 4.3   | 78.5415    |
| Sb 206.834 | 3.2316b     | ppb   | 3.4895  | 108.0 | 1.8593     |
| Se 196.026 | 0.4112b     | ppb   | 2.6785  | 651.4 | 8.6116     |
| Sn 189.925 | 18.7046b    | ppb   | 3.3654  | 18.0  | 2.3569     |
| Sr 216.596 | 48.7924b    | ppb   | 0.9064  | 1.9   | 659.410    |
| Ti 334.941 | 11533.7b    | ppb   | 60.4104 | 0.5   | 2894566    |
| Tl 190.794 | 10.2153b    | ppb   | 2.7296  | 26.7  | -14.8245   |
| V 292.401  | 178.524b    | ppb   | 1.0430  | 0.6   | 4358.29    |
| Zn 206.200 | 371.701b    | ppb   | 2.9698  | 0.8   | 499.102    |



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680-90570-a-17-a (Samp) 5/28/2013, 6:30:45 PM Rack 1, Tube 58

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.8189u                 | -0.8557u | -0.6323u |
| Al 308.215 | 98239.4                  | 97415.4  | 98705.2  |
| As 188.980 | 1.4188                   | 4.0325   | 0.2071   |
| B 249.678  | 1.9484u                  | 1.9358u  | 1.4813u  |
| Ba 389.178 | 616.888                  | 611.118  | 618.431  |
| Be 313.042 | 14.9720                  | 14.8290  | 15.0007  |
| Ca 370.602 | 1125u                    | 1128u    | 1113u    |
| Cd 226.502 | -0.6476                  | -0.8946  | -0.7783  |
| Co 228.615 | 36.4094                  | 36.2524  | 36.4416  |
| Cr 267.716 | 8.1408                   | 7.6248   | 7.5422   |
| Cu 324.754 | 144.362                  | 139.708  | 142.129  |
| Fe 271.441 | 87225.2                  | 86495.4  | 87535.3  |
| K 766.491  | 18259.4                  | 18093.6  | 18273.0  |
| Mg 279.078 | 14497.2                  | 14383.0  | 14587.4  |
| Mn 257.610 | 10343.1                  | 10240.9  | 10390.4  |
| Mo 202.032 | 2.4418                   | 2.0565   | 1.4048   |
| Na 330.237 | 362.129u                 | 527.805u | 354.909u |
| Ni 231.604 | 39.5729                  | 38.1812  | 39.7161  |
| Pb 220.353 | 97.5048                  | 99.2788  | 100.326  |
| Sb 206.834 | -2.4650u                 | 4.5313   | -5.0220u |
| Se 196.026 | 8.3544                   | -6.3377u | 2.2904   |
| Sn 189.925 | 16.4351                  | 13.7321  | 22.3463  |
| Sr 216.596 | 30.8850                  | 30.7105  | 30.3517  |
| Ti 334.941 | 4114.71                  | 4071.86  | 4114.98  |
| Tl 190.794 | 1.8889u                  | -3.4436u | -4.1192u |
| V 292.401  | 155.846                  | 153.611  | 156.424  |
| Zn 206.200 | 401.852                  | 402.166  | 407.445  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.7690     | ppb   | 0.1198  | 15.6  | -55.7590   |
| Al 308.215 | 98120.0     | ppb   | 653.134 | 0.7   | 579047     |
| As 188.980 | 1.8861      | ppb   | 1.9551  | 103.7 | -2.8358    |
| B 249.678  | 1.7885      | ppb   | 0.2661  | 14.9  | -32.7934   |
| Ba 389.178 | 615.479     | ppb   | 3.8550  | 0.6   | 11319.5    |
| Be 313.042 | 14.9339     | ppb   | 0.0920  | 0.6   | 26114.1    |
| Ca 370.602 | 1122        | ppb   | 7.619   | 0.7   | -568.5     |
| Cd 226.502 | -0.7735     | ppb   | 0.1235  | 16.0  | 215.449    |
| Co 228.615 | 36.3678     | ppb   | 0.1012  | 0.3   | 505.213    |
| Cr 267.716 | 7.7692      | ppb   | 0.3244  | 4.2   | 426.258    |
| Cu 324.754 | 142.066     | ppb   | 2.3280  | 1.6   | 7760.83    |
| Fe 271.441 | 87085.3     | ppb   | 533.878 | 0.6   | 133137     |
| K 766.491  | 18208.7     | ppb   | 99.8782 | 0.5   | 590958     |
| Mg 279.078 | 14489.2     | ppb   | 102.428 | 0.7   | 30360.6    |
| Mn 257.610 | 10324.8     | ppb   | 76.3687 | 0.7   | 2249757    |
| Mo 202.032 | 1.9677      | ppb   | 0.5242  | 26.6  | 17.6768    |
| Na 330.237 | 414.948     | ppb   | 97.8043 | 23.6  | 22.5907    |
| Ni 231.604 | 39.1567     | ppb   | 0.8478  | 2.2   | 101.364    |
| Pb 220.353 | 99.0366     | ppb   | 1.4262  | 1.4   | 174.145    |
| Sb 206.834 | -0.9852     | ppb   | 4.9456  | 502.0 | -3.7791    |
| Se 196.026 | 1.4357      | ppb   | 7.3833  | 514.3 | 10.5575    |
| Sn 189.925 | 17.5045     | ppb   | 4.4055  | 25.2  | 1.3829     |
| Sr 216.596 | 30.6491     | ppb   | 0.2719  | 0.9   | 409.512    |
| Ti 334.941 | 4100.51     | ppb   | 24.8188 | 0.6   | 1029061    |
| Tl 190.794 | -1.8913     | ppb   | 3.2911  | 174.0 | -23.6862   |
| V 292.401  | 155.294     | ppb   | 1.4860  | 1.0   | 3708.63    |
| Zn 206.200 | 403.821     | ppb   | 3.1426  | 0.8   | 531.221    |

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680-90570-a-18-a (Samp) 5/28/2013, 6:35:21 PM Rack 1, Tube 59

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.1520u                 | 0.1394   | -0.6602u  |
| Al 308.215 | 12762.4                  | 12752.9  | 12646.0   |
| As 188.980 | 2.1872                   | -0.7957u | -5.5121u  |
| B 249.678  | 0.6635                   | 1.3730   | 1.9456    |
| Ba 389.178 | 18.1604                  | 17.3001  | 17.0444   |
| Be 313.042 | 2.0443                   | 2.0533   | 2.0326    |
| Ca 370.602 | 314.6                    | 308.9    | 306.8     |
| Cd 226.502 | -0.0399                  | -0.0854  | 0.1843    |
| Co 228.615 | 1.0747                   | 1.4797   | 0.3438    |
| Cr 267.716 | 3.3641                   | 3.6184   | 3.4897    |
| Cu 324.754 | 17.3430                  | 17.8709  | 16.9282   |
| Fe 271.441 | 3344.29                  | 3339.73  | 3308.89   |
| K 766.491  | 369.284                  | 369.906  | 367.629   |
| Mg 279.078 | 194.503                  | 192.877  | 188.990   |
| Mn 257.610 | 126.515                  | 126.624  | 125.433   |
| Mo 202.032 | 0.7199                   | 1.0162   | 0.7410    |
| Na 330.237 | 308.849                  | 29.8638  | -21.9805u |
| Ni 231.604 | 3.5035                   | 1.4017   | 1.6122    |
| Pb 220.353 | 19.9022                  | 25.8731  | 21.6072   |
| Sb 206.834 | 2.2372                   | -0.7559u | 1.6919    |
| Se 196.026 | -7.7519u                 | 2.1619   | 2.3328    |
| Sn 189.925 | 9.5382                   | 12.3633  | 5.9843    |
| Sr 216.596 | 4.3822                   | 4.2957   | 3.9989    |
| Ti 334.941 | 10.4199                  | 10.4169  | 10.2825   |
| Tl 190.794 | 2.0789                   | -0.7992u | -2.1263u  |
| V 292.401  | 4.9363                   | 4.8635   | 4.8210    |
| Zn 206.200 | 14.2303                  | 15.2281  | 15.4739   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2243     | ppb   | 0.4047  | 180.4 | -60.7590   |
| Al 308.215 | 12720.4     | ppb   | 64.6559 | 0.5   | 75231.1    |
| As 188.980 | -1.3735     | ppb   | 3.8820  | 282.6 | -4.7704    |
| B 249.678  | 1.3274      | ppb   | 0.6422  | 48.4  | 117.820    |
| Ba 389.178 | 17.5016     | ppb   | 0.5846  | 3.3   | 312.272    |
| Be 313.042 | 2.0434      | ppb   | 0.0104  | 0.5   | 3361.80    |
| Ca 370.602 | 310.1       | ppb   | 4.024   | 1.3   | 450.2      |
| Cd 226.502 | 0.0196      | ppb   | 0.1444  | 735.1 | 27.9471    |
| Co 228.615 | 0.9661      | ppb   | 0.5757  | 59.6  | 14.7594    |
| Cr 267.716 | 3.4908      | ppb   | 0.1272  | 3.6   | 165.630    |
| Cu 324.754 | 17.3807     | ppb   | 0.4725  | 2.7   | 1083.77    |
| Fe 271.441 | 3330.97     | ppb   | 19.2600 | 0.6   | 5111.48    |
| K 766.491  | 368.940     | ppb   | 1.1769  | 0.3   | 12264.1    |
| Mg 279.078 | 192.123     | ppb   | 2.8327  | 1.5   | 432.275    |
| Mn 257.610 | 126.191     | ppb   | 0.6585  | 0.5   | 27531.6    |
| Mo 202.032 | 0.8257      | ppb   | 0.1653  | 20.0  | 14.2562    |
| Na 330.237 | 105.578     | ppb   | 177.937 | 168.5 | 49.6878    |
| Ni 231.604 | 2.1724      | ppb   | 1.1575  | 53.3  | 3.7494     |
| Pb 220.353 | 22.4608     | ppb   | 3.0756  | 13.7  | 56.4531    |
| Sb 206.834 | 1.0577      | ppb   | 1.5942  | 150.7 | -3.7866    |
| Se 196.026 | -1.0857     | ppb   | 5.7737  | 531.8 | 6.7076     |
| Sn 189.925 | 9.2952      | ppb   | 3.1964  | 34.4  | -5.2904    |
| Sr 216.596 | 4.2256      | ppb   | 0.2011  | 4.8   | 64.8823    |
| Ti 334.941 | 10.3731     | ppb   | 0.0785  | 0.8   | 2548.51    |
| Tl 190.794 | -0.2822     | ppb   | 2.1497  | 761.8 | -14.2930   |
| V 292.401  | 4.8736      | ppb   | 0.0583  | 1.2   | 99.5147    |
| Zn 206.200 | 14.9774     | ppb   | 0.6586  | 4.4   | 51.7642    |

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**680-90570-a-19-a (Samp)**      **5/28/2013, 6:39:57 PM**      **Rack 1, Tube 60****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.8314u                 | -1.7404u | -1.5826u |
| Al 308.215 | 296626                   | 299320   | 297727   |
| As 188.980 | 12.8148                  | 17.6316  | 16.9372  |
| B 249.678  | 8.3503u                  | 9.2287u  | 9.0121u  |
| Ba 389.178 | 1103.29                  | 1114.51  | 1109.19  |
| Be 313.042 | 9.7437                   | 9.8067   | 9.7701   |
| Ca 370.602 | 8883                     | 8917     | 8903     |
| Cd 226.502 | -0.9955                  | -1.1091  | -1.1579  |
| Co 228.615 | 108.271                  | 110.176  | 108.614  |
| Cr 267.716 | 255.285                  | 257.694  | 255.656  |
| Cu 324.754 | 256.117                  | 257.709  | 258.273  |
| Fe 271.441 | 227159                   | 229348   | 228406   |
| K 766.491  | 40648.4x                 | 41098.7x | 40931.6x |
| Mg 279.078 | 39089.6                  | 39394.5  | 39181.8  |
| Mn 257.610 | 3724.14                  | 3766.52  | 3746.65  |
| Mo 202.032 | 7.9387                   | 7.6325   | 6.9509   |
| Na 330.237 | 927.100u                 | 716.530u | 604.771u |
| Ni 231.604 | 116.562                  | 118.748  | 115.770  |
| Pb 220.353 | 238.261                  | 244.190  | 232.812  |
| Sb 206.834 | 7.3567                   | 2.2393   | 5.3645   |
| Se 196.026 | 6.0551                   | -9.8237u | -7.0014u |
| Sn 189.925 | 17.0633                  | 27.8119  | 21.4776  |
| Sr 216.596 | 80.6204                  | 81.7077  | 80.0763  |
| Ti 334.941 | 9829.83                  | 9951.40  | 9876.51  |
| Tl 190.794 | -3.0727u                 | -2.8639u | 17.4708  |
| V 292.401  | 580.622                  | 586.674  | 584.047  |
| Zn 206.200 | 509.284                  | 514.598  | 508.936  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.7182b    | ppb   | 0.1259  | 7.3   | -150.816   |
| Al 308.215 | 297891b     | ppb   | 1354.61 | 0.5   | 1757585    |
| As 188.980 | 15.7946b    | ppb   | 2.6038  | 16.5  | 5.9083     |
| B 249.678  | 8.8637b     | ppb   | 0.4576  | 5.2   | -202.146   |
| Ba 389.178 | 1109.00b    | ppb   | 5.6148  | 0.5   | 20511.5    |
| Be 313.042 | 9.7735b     | ppb   | 0.0317  | 0.3   | 17006.0    |
| Ca 370.602 | 8901b       | ppb   | 17.04   | 0.2   | 9822       |
| Cd 226.502 | -1.0875b    | ppb   | 0.0834  | 7.7   | 565.396    |
| Co 228.615 | 109.021b    | ppb   | 1.0152  | 0.9   | 1454.23    |
| Cr 267.716 | 256.212b    | ppb   | 1.2973  | 0.5   | 11685.0    |
| Cu 324.754 | 257.366b    | ppb   | 1.1183  | 0.4   | 13952.5    |
| Fe 271.441 | 228304b     | ppb   | 1097.89 | 0.5   | 349005     |
| K 766.491  | 40892.9xb   | ppb   | 227.637 | 0.6   | 1326800    |
| Mg 279.078 | 39222.0b    | ppb   | 156.393 | 0.4   | 82505.6    |
| Mn 257.610 | 3745.77b    | ppb   | 21.2005 | 0.6   | 816985     |
| Mo 202.032 | 7.5074b     | ppb   | 0.5056  | 6.7   | 46.8121    |
| Na 330.237 | 749.467b    | ppb   | 163.669 | 21.8  | -20.7669   |
| Ni 231.604 | 117.026b    | ppb   | 1.5423  | 1.3   | 306.191    |
| Pb 220.353 | 238.421b    | ppb   | 5.6909  | 2.4   | 382.892    |
| Sb 206.834 | 4.9868b     | ppb   | 2.5795  | 51.7  | 7.0252     |
| Se 196.026 | -3.5900b    | ppb   | 8.4713  | 236.0 | 7.1130     |
| Sn 189.925 | 22.1176b    | ppb   | 5.4028  | 24.4  | 5.1329     |
| Sr 216.596 | 80.8014b    | ppb   | 0.8306  | 1.0   | 1048.89    |
| Ti 334.941 | 9885.91b    | ppb   | 61.3271 | 0.6   | 2481060    |
| Tl 190.794 | 3.8447b     | ppb   | 11.8010 | 306.9 | -23.5370   |
| V 292.401  | 583.781b    | ppb   | 3.0348  | 0.5   | 13899.0    |
| Zn 206.200 | 510.939b    | ppb   | 3.1730  | 0.6   | 513.012    |

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**680-90570-a-20-a (Samp)**                      **5/28/2013, 6:53:42 PM**                      **Rack 2, Tube 3**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.2293u                 | -2.0895u | -2.9640u |
| Al 308.215 | 121653                   | 121650   | 121396   |
| As 188.980 | 25.4895                  | 17.4987  | 15.2932  |
| B 249.678  | 11.7917u                 | 11.7259u | 12.4336u |
| Ba 389.178 | 898.332                  | 896.875  | 896.693  |
| Be 313.042 | 4.9139                   | 4.9062   | 4.8888   |
| Ca 370.602 | 57450                    | 57619    | 57762    |
| Cd 226.502 | -0.5694                  | -0.2424  | -0.5453  |
| Co 228.615 | 45.4832                  | 45.2707  | 45.7395  |
| Cr 267.716 | 157.833                  | 157.353  | 157.234  |
| Cu 324.754 | 91.3199                  | 91.3144  | 90.9680  |
| Fe 271.441 | 122913                   | 122995   | 122767   |
| K 766.491  | 39291.1x                 | 39183.5x | 39058.2x |
| Mg 279.078 | 34481.5                  | 34473.7  | 34375.4  |
| Mn 257.610 | 3070.51                  | 3063.10  | 3063.27  |
| Mo 202.032 | 9.5295                   | 9.1084   | 9.8057   |
| Na 330.237 | 682.623u                 | 586.881u | 798.195u |
| Ni 231.604 | 90.8786                  | 88.8795  | 89.0424  |
| Pb 220.353 | 126.513                  | 129.010  | 124.395  |
| Sb 206.834 | 10.5348                  | 2.8675   | 8.1226   |
| Se 196.026 | 3.1162                   | 5.5878   | -3.0153u |
| Sn 189.925 | 19.6806                  | 23.0379  | 24.0655  |
| Sr 216.596 | 92.9430                  | 91.9902  | 92.0174  |
| Ti 334.941 | 7386.73                  | 7356.12  | 7348.72  |
| Tl 190.794 | 4.3993u                  | 7.8281u  | 0.3232u  |
| V 292.401  | 243.262                  | 243.562  | 242.615  |
| Zn 206.200 | 683.589                  | 687.036  | 686.942  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.4276b    | ppb   | 0.4698  | 19.4  | -206.630   |
| Al 308.215 | 121566b     | ppb   | 147.558 | 0.1   | 717361     |
| As 188.980 | 19.4271b    | ppb   | 5.3647  | 27.6  | 7.4028     |
| B 249.678  | 11.9837b    | ppb   | 0.3910  | 3.3   | 37.1587    |
| Ba 389.178 | 897.300b    | ppb   | 0.8986  | 0.1   | 16530.2    |
| Be 313.042 | 4.9030b     | ppb   | 0.0129  | 0.3   | 8422.51    |
| Ca 370.602 | 57611b      | ppb   | 156.2   | 0.3   | 112411     |
| Cd 226.502 | -0.4524b    | ppb   | 0.1822  | 40.3  | 317.556    |
| Co 228.615 | 45.4978b    | ppb   | 0.2347  | 0.5   | 680.816    |
| Cr 267.716 | 157.473b    | ppb   | 0.3171  | 0.2   | 7186.34    |
| Cu 324.754 | 91.2008b    | ppb   | 0.2016  | 0.2   | 5057.67    |
| Fe 271.441 | 122892b     | ppb   | 115.296 | 0.1   | 187870     |
| K 766.491  | 39177.6xb   | ppb   | 116.527 | 0.3   | 1271159    |
| Mg 279.078 | 34443.5b    | ppb   | 59.1492 | 0.2   | 72488.4    |
| Mn 257.610 | 3065.63b    | ppb   | 4.2278  | 0.1   | 668498     |
| Mo 202.032 | 9.4812b     | ppb   | 0.3512  | 3.7   | 65.0959    |
| Na 330.237 | 689.233b    | ppb   | 105.812 | 15.4  | 11.0857    |
| Ni 231.604 | 89.6001b    | ppb   | 1.1101  | 1.2   | 232.950    |
| Pb 220.353 | 126.639b    | ppb   | 2.3103  | 1.8   | 214.058    |
| Sb 206.834 | 7.1750b     | ppb   | 3.9205  | 54.6  | 5.9165     |
| Se 196.026 | 1.8962b     | ppb   | 4.4294  | 233.6 | 9.1871     |
| Sn 189.925 | 22.2614b    | ppb   | 2.2933  | 10.3  | 5.2736     |
| Sr 216.596 | 92.3169b    | ppb   | 0.5424  | 0.6   | 1083.51    |
| Ti 334.941 | 7363.85b    | ppb   | 20.1503 | 0.3   | 1848098    |
| Tl 190.794 | 4.1835b     | ppb   | 3.7571  | 89.8  | -17.7911   |
| V 292.401  | 243.146b    | ppb   | 0.4842  | 0.2   | 5820.98    |
| Zn 206.200 | 685.856b    | ppb   | 1.9639  | 0.3   | 897.874    |

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**mb 680-277729/23-a (Samp)**      **5/28/2013, 6:58:17 PM**      **Rack 2, Tube 4**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2793u                 | 0.7280   | 0.2302   |
| Al 308.215 | 71.7387                  | 68.9477  | 71.1901  |
| As 188.980 | -5.9730u                 | -7.0205u | -5.0004u |
| B 249.678  | 3.4919                   | 3.1895   | 3.9075   |
| Ba 389.178 | -1.5798u                 | -0.9636u | -0.2709u |
| Be 313.042 | 0.0102                   | 0.0099   | 0.0161   |
| Ca 370.602 | 38.36                    | 37.10    | 41.62    |
| Cd 226.502 | 0.0789                   | 0.1516   | 0.3408   |
| Co 228.615 | 0.1630                   | -0.2713u | 0.0766   |
| Cr 267.716 | 1.4885                   | 1.5553   | 1.6907   |
| Cu 324.754 | -0.2839u                 | 0.6995   | 0.3419   |
| Fe 271.441 | 77.0171                  | 76.2457  | 80.6446  |
| K 766.491  | 27.4005                  | 27.4899  | 27.5596  |
| Mg 279.078 | 28.5862                  | 25.1526  | 25.5891  |
| Mn 257.610 | 1.5699                   | 1.5118   | 1.5762   |
| Mo 202.032 | -0.1768u                 | 0.2396   | -0.4958u |
| Na 330.237 | 90.6425                  | 113.279  | 106.659  |
| Ni 231.604 | 0.9490                   | 0.4121   | -0.0447u |
| Pb 220.353 | 1.1628                   | -2.6351u | 3.0906   |
| Sb 206.834 | 7.8358                   | 6.1604   | 4.8011   |
| Se 196.026 | 6.4219                   | -9.1599u | 3.3004   |
| Sn 189.925 | 23.3753                  | 20.7883  | 22.9736  |
| Sr 216.596 | -0.0862u                 | -0.3002u | -0.1147u |
| Ti 334.941 | 3.7227                   | 3.4093   | 3.5994   |
| Tl 190.794 | -0.2290u                 | -1.8271u | 3.6679   |
| V 292.401  | 0.3989                   | 0.2656   | -0.0095u |
| Zn 206.200 | 3.4510                   | 4.0104   | 3.2262   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.2263      | ppb   | 0.5037  | 222.6  | -29.3704   |
| Al 308.215 | 70.6255     | ppb   | 1.4787  | 2.1    | 600.263    |
| As 188.980 | -5.9979     | ppb   | 1.0103  | 16.8   | -7.5876    |
| B 249.678  | 3.5297      | ppb   | 0.3605  | 10.2   | 153.486    |
| Ba 389.178 | -0.9381     | ppb   | 0.6548  | 69.8   | -27.3415   |
| Be 313.042 | 0.0121      | ppb   | 0.0035  | 28.9   | -224.936   |
| Ca 370.602 | 39.03       | ppb   | 2.328   | 6.0    | 63.94      |
| Cd 226.502 | 0.1904      | ppb   | 0.1352  | 71.0   | 25.3025    |
| Co 228.615 | -0.0105     | ppb   | 0.2299  | 2179.8 | 3.5297     |
| Cr 267.716 | 1.5782      | ppb   | 0.1030  | 6.5    | 77.7396    |
| Cu 324.754 | 0.2525      | ppb   | 0.4978  | 197.1  | 168.952    |
| Fe 271.441 | 77.9691     | ppb   | 2.3490  | 3.0    | 139.080    |
| K 766.491  | 27.4833     | ppb   | 0.0797  | 0.3    | 1187.79    |
| Mg 279.078 | 26.4426     | ppb   | 1.8692  | 7.1    | 88.5659    |
| Mn 257.610 | 1.5526      | ppb   | 0.0355  | 2.3    | 367.877    |
| Mo 202.032 | -0.1443     | ppb   | 0.3687  | 255.5  | 8.0602     |
| Na 330.237 | 103.527     | ppb   | 11.6387 | 11.2   | 50.6530    |
| Ni 231.604 | 0.4388      | ppb   | 0.4973  | 113.3  | -0.8178    |
| Pb 220.353 | 0.5394      | ppb   | 2.9133  | 540.1  | 23.8573    |
| Sb 206.834 | 6.2658      | ppb   | 1.5201  | 24.3   | 1.1144     |
| Se 196.026 | 0.1875      | ppb   | 8.2442  | 4398.0 | 7.2658     |
| Sn 189.925 | 22.3791     | ppb   | 1.3922  | 6.2    | 5.3490     |
| Sr 216.596 | -0.1670     | ppb   | 0.1162  | 69.6   | 16.6032    |
| Ti 334.941 | 3.5771      | ppb   | 0.1579  | 4.4    | 841.478    |
| Tl 190.794 | 0.5373      | ppb   | 2.8265  | 526.1  | -13.4125   |
| V 292.401  | 0.2184      | ppb   | 0.2083  | 95.4   | -10.2789   |
| Zn 206.200 | 3.5625      | ppb   | 0.4938  | 171.3  | 2.8952     |

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**lb 680-277690/4-b (Samp)**      **5/28/2013, 7:02:51 PM**      **Rack 2, Tube 5**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0198u                 | 0.3238   | 0.2679   |
| Al 308.215 | 49.7362                  | 50.1594  | 50.3772  |
| As 188.980 | -5.9081u                 | 0.0411   | -5.7344u |
| B 249.678  | 10.2436                  | 10.6514  | 10.4043  |
| Ba 389.178 | -0.5773u                 | -1.6182u | 0.2884   |
| Be 313.042 | 0.0137                   | 0.0125   | 0.0123   |
| Ca 370.602 | 139.0                    | 132.0    | 142.3    |
| Cd 226.502 | 0.0242                   | 0.1783   | 0.1146   |
| Co 228.615 | 0.0628                   | 0.0267   | 0.1813   |
| Cr 267.716 | 1.2796                   | 1.1924   | 1.2220   |
| Cu 324.754 | 0.7239                   | 0.1791   | 0.2038   |
| Fe 271.441 | 43.7721                  | 42.7699  | 50.4356  |
| K 766.491  | 41.9022                  | 41.2335  | 41.6783  |
| Mg 279.078 | 39.9201                  | 37.4242  | 40.8458  |
| Mn 257.610 | 2.1019                   | 2.1450   | 2.1715   |
| Mo 202.032 | 0.2864                   | 0.4659   | -0.0019u |
| Na 330.237 | 21310.4                  | 21030.4  | 21380.7  |
| Ni 231.604 | 0.1429                   | 1.2368   | 0.7167   |
| Pb 220.353 | -1.5841u                 | 1.0268   | 2.1004   |
| Sb 206.834 | 3.4605                   | 2.0209   | -0.2755u |
| Se 196.026 | -2.0142u                 | -3.4118u | 6.3405   |
| Sn 189.925 | 24.3484                  | 20.4882  | 26.2497  |
| Sr 216.596 | -0.1763u                 | 0.4493   | -0.1069u |
| Ti 334.941 | 2.2009                   | 2.1585   | 2.1791   |
| Tl 190.794 | -1.7977u                 | 0.1142   | 1.4410   |
| V 292.401  | 0.4155                   | 0.2931   | 0.2238   |
| Zn 206.200 | 1.9119                   | 2.7772   | 4.1308   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1906      | ppb   | 0.1844  | 96.7   | -31.8996   |
| Al 308.215 | 50.0909     | ppb   | 0.3260  | 0.7    | 479.115    |
| As 188.980 | -3.8671     | ppb   | 3.3858  | 87.6   | -6.3295    |
| B 249.678  | 10.4331     | ppb   | 0.2054  | 2.0    | 246.271    |
| Ba 389.178 | -0.6357     | ppb   | 0.9546  | 150.2  | -21.8495   |
| Be 313.042 | 0.0128      | ppb   | 0.0008  | 6.1    | -225.940   |
| Ca 370.602 | 137.8       | ppb   | 5.273   | 3.8    | 264.1      |
| Cd 226.502 | 0.1057      | ppb   | 0.0775  | 73.3   | 22.3111    |
| Co 228.615 | 0.0903      | ppb   | 0.0809  | 89.6   | 4.6189     |
| Cr 267.716 | 1.2313      | ppb   | 0.0444  | 3.6    | 62.3813    |
| Cu 324.754 | 0.3689      | ppb   | 0.3077  | 83.4   | 175.162    |
| Fe 271.441 | 45.6592     | ppb   | 4.1667  | 9.1    | 89.7033    |
| K 766.491  | 41.6046     | ppb   | 0.3404  | 0.8    | 1645.87    |
| Mg 279.078 | 39.3967     | ppb   | 1.7698  | 4.5    | 115.830    |
| Mn 257.610 | 2.1394      | ppb   | 0.0351  | 1.6    | 495.621    |
| Mo 202.032 | 0.2501      | ppb   | 0.2360  | 94.3   | 10.6442    |
| Na 330.237 | 21240.5     | ppb   | 185.325 | 0.9    | 1036.93    |
| Ni 231.604 | 0.6988      | ppb   | 0.5472  | 78.3   | -0.1442    |
| Pb 220.353 | 0.5144      | ppb   | 1.8950  | 368.4  | 23.8186    |
| Sb 206.834 | 1.7353      | ppb   | 1.8843  | 108.6  | -3.2345    |
| Se 196.026 | 0.3048      | ppb   | 5.2735  | 1730.0 | 7.3209     |
| Sn 189.925 | 23.6954     | ppb   | 2.9357  | 12.4   | 6.4267     |
| Sr 216.596 | 0.0554      | ppb   | 0.3429  | 619.2  | 18.8802    |
| Ti 334.941 | 2.1795      | ppb   | 0.0212  | 1.0    | 489.327    |
| Tl 190.794 | -0.0808     | ppb   | 1.6282  | 2014.3 | -13.9140   |
| V 292.401  | 0.3108      | ppb   | 0.0971  | 31.2   | -8.2973    |
| Zn 206.200 | 2.9400      | ppb   | 1.1184  | 38.0   | 9.0863     |

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680-90529-a-1-b (Samp)                      5/28/2013, 7:07:26 PM                      Rack 2, Tube 6  
 Weight: 1                                      Volume: 1                                      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.5497                   | -0.1063u | 0.3151   |
| Al 308.215 | 37.3702                  | 35.4036  | 36.5110  |
| As 188.980 | -3.4721u                 | -4.6576u | -1.2310u |
| B 249.678  | 256.455                  | 252.538  | 257.396  |
| Ba 389.178 | 1.0374                   | 0.3169   | 1.6101   |
| Be 313.042 | 0.0129                   | 0.0090   | 0.0009u  |
| Ca 370.602 | 931.6                    | 911.6    | 919.7    |
| Cd 226.502 | 0.1933                   | 0.4457   | 0.2163   |
| Co 228.615 | 0.0015u                  | 0.2161   | 0.5278   |
| Cr 267.716 | 2.2845                   | 2.1924   | 2.2820   |
| Cu 324.754 | 14.4043                  | 13.7633  | 14.4212  |
| Fe 271.441 | 318.695                  | 317.246  | 315.363  |
| K 766.491  | 141.499                  | 138.576  | 138.694  |
| Mg 279.078 | 89.7058                  | 90.3381  | 87.8315  |
| Mn 257.610 | 4.9858                   | 4.8896   | 4.9537   |
| Mo 202.032 | 30.8515                  | 30.2179  | 30.7827  |
| Na 330.237 | 4463.28                  | 4332.30  | 4288.50  |
| Ni 231.604 | 2.1145                   | 0.5394   | 0.9657   |
| Pb 220.353 | 8.0818                   | 7.2002   | 10.1628  |
| Sb 206.834 | 1.1681                   | 4.9852   | 4.2295   |
| Se 196.026 | 5.0164                   | 0.1427   | 4.2605   |
| Sn 189.925 | 26.2792                  | 25.3839  | 24.5040  |
| Sr 216.596 | 1.7102                   | 1.4167   | 2.1093   |
| Ti 334.941 | 1.5629                   | 1.5688   | 1.5571   |
| Tl 190.794 | -2.3595u                 | -3.5217u | -0.9117u |
| V 292.401  | 0.1029u                  | 0.5784   | 0.2441   |
| Zn 206.200 | 14.6979                  | 14.3037  | 15.6629  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.2528      | ppb   | 0.3324  | 131.5 | -27.5738   |
| Al 308.215 | 36.4283     | ppb   | 0.9859  | 2.7   | 400.073    |
| As 188.980 | -3.1202     | ppb   | 1.7402  | 55.8  | -5.8989    |
| B 249.678  | 255.463     | ppb   | 2.5763  | 1.0   | 3536.80    |
| Ba 389.178 | 0.9881      | ppb   | 0.6480  | 65.6  | 8.2307     |
| Be 313.042 | 0.0076      | ppb   | 0.0062  | 80.7  | -237.435   |
| Ca 370.602 | 921.0       | ppb   | 10.04   | 1.1   | 1828       |
| Cd 226.502 | 0.2851      | ppb   | 0.1396  | 49.0  | 29.0109    |
| Co 228.615 | 0.2485      | ppb   | 0.2646  | 106.5 | 5.5742     |
| Cr 267.716 | 2.2530      | ppb   | 0.0525  | 2.3   | 108.417    |
| Cu 324.754 | 14.1963     | ppb   | 0.3750  | 2.6   | 913.853    |
| Fe 271.441 | 317.101     | ppb   | 1.6708  | 0.5   | 504.653    |
| K 766.491  | 139.589     | ppb   | 1.6550  | 1.2   | 4824.35    |
| Mg 279.078 | 89.2918     | ppb   | 1.3036  | 1.5   | 220.888    |
| Mn 257.610 | 4.9430      | ppb   | 0.0490  | 1.0   | 1107.60    |
| Mo 202.032 | 30.6174     | ppb   | 0.3476  | 1.1   | 209.461    |
| Na 330.237 | 4361.36     | ppb   | 90.9407 | 2.1   | 249.116    |
| Ni 231.604 | 1.2065      | ppb   | 0.8147  | 67.5  | 1.1785     |
| Pb 220.353 | 8.4816      | ppb   | 1.5212  | 17.9  | 35.6393    |
| Sb 206.834 | 3.4610      | ppb   | 2.0213  | 58.4  | -1.9336    |
| Se 196.026 | 3.1399      | ppb   | 2.6230  | 83.5  | 8.6539     |
| Sn 189.925 | 25.3891     | ppb   | 0.8876  | 3.5   | 7.7984     |
| Sr 216.596 | 1.7454      | ppb   | 0.3476  | 19.9  | 36.3134    |
| Ti 334.941 | 1.5629      | ppb   | 0.0059  | 0.4   | 335.980    |
| Tl 190.794 | -2.2643     | ppb   | 1.3076  | 57.7  | -15.7172   |
| V 292.401  | 0.3085      | ppb   | 0.2442  | 79.2  | -12.7019   |
| Zn 206.200 | 14.8882     | ppb   | 0.6993  | 4.7   | 24.6250    |

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**680-90529-a-1-c ms (Samp)**      **5/28/2013, 7:12:01 PM**      **Rack 2, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 99.2531                  | 99.2281 | 100.318 |
| Al 308.215 | 9920.00                  | 9920.67 | 9943.26 |
| As 188.980 | 213.929                  | 218.629 | 217.052 |
| B 249.678  | 626.734                  | 627.690 | 629.481 |
| Ba 389.178 | 201.277                  | 202.539 | 201.601 |
| Be 313.042 | 105.760                  | 105.841 | 106.111 |
| Ca 370.602 | 11313                    | 11315   | 11324   |
| Cd 226.502 | 101.777                  | 101.336 | 101.381 |
| Co 228.615 | 102.464                  | 102.418 | 103.246 |
| Cr 267.716 | 205.546                  | 205.687 | 205.738 |
| Cu 324.754 | 234.356                  | 235.555 | 234.371 |
| Fe 271.441 | 10517.6                  | 10531.0 | 10571.0 |
| K 766.491  | 9784.26                  | 9794.64 | 9815.33 |
| Mg 279.078 | 10087.7                  | 10087.8 | 10083.9 |
| Mn 257.610 | 1063.89                  | 1064.11 | 1065.53 |
| Mo 202.032 | 260.816                  | 260.723 | 259.892 |
| Na 330.237 | 14252.6                  | 14254.8 | 14237.9 |
| Ni 231.604 | 201.419                  | 201.675 | 200.463 |
| Pb 220.353 | 120.583                  | 120.134 | 125.420 |
| Sb 206.834 | 102.033                  | 93.9794 | 97.5026 |
| Se 196.026 | 204.145                  | 204.063 | 206.143 |
| Sn 189.925 | 425.560                  | 419.656 | 430.093 |
| Sr 216.596 | 202.038                  | 203.804 | 203.628 |
| Ti 334.941 | 200.521                  | 200.873 | 201.363 |
| Tl 190.794 | 76.5027                  | 77.3511 | 81.5263 |
| V 292.401  | 203.506                  | 203.406 | 204.643 |
| Zn 206.200 | 230.438                  | 224.728 | 227.108 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 99.5999     | ppb   | 0.6224  | 0.6  | 6982.94    |
| Al 308.215 | 9927.98     | ppb   | 13.2371 | 0.1  | 58732.8    |
| As 188.980 | 216.536     | ppb   | 2.3918  | 1.1  | 123.732    |
| B 249.678  | 627.968     | ppb   | 1.3942  | 0.2  | 8520.84    |
| Ba 389.178 | 201.806     | ppb   | 0.6550  | 0.3  | 3696.64    |
| Be 313.042 | 105.904     | ppb   | 0.1836  | 0.2  | 186664     |
| Ca 370.602 | 11317       | ppb   | 5.805   | 0.1  | 22344      |
| Cd 226.502 | 101.498     | ppb   | 0.2426  | 0.2  | 3401.03    |
| Co 228.615 | 102.709     | ppb   | 0.4651  | 0.5  | 1156.71    |
| Cr 267.716 | 205.657     | ppb   | 0.0993  | 0.0  | 9319.96    |
| Cu 324.754 | 234.761     | ppb   | 0.6876  | 0.3  | 12689.1    |
| Fe 271.441 | 10539.9     | ppb   | 27.7862 | 0.3  | 16144.0    |
| K 766.491  | 9798.08     | ppb   | 15.8172 | 0.2  | 318131     |
| Mg 279.078 | 10086.5     | ppb   | 2.2113  | 0.0  | 21251.1    |
| Mn 257.610 | 1064.51     | ppb   | 0.8945  | 0.1  | 232051     |
| Mo 202.032 | 260.477     | ppb   | 0.5087  | 0.2  | 1713.65    |
| Na 330.237 | 14248.4     | ppb   | 9.1612  | 0.1  | 704.155    |
| Ni 231.604 | 201.186     | ppb   | 0.6391  | 0.3  | 520.021    |
| Pb 220.353 | 122.046     | ppb   | 2.9309  | 2.4  | 204.681    |
| Sb 206.834 | 97.8383     | ppb   | 4.0372  | 4.1  | 88.5210    |
| Se 196.026 | 204.784     | ppb   | 1.1781  | 0.6  | 103.639    |
| Sn 189.925 | 425.103     | ppb   | 5.2333  | 1.2  | 332.841    |
| Sr 216.596 | 203.157     | ppb   | 0.9727  | 0.5  | 2125.99    |
| Ti 334.941 | 200.919     | ppb   | 0.4225  | 0.2  | 50406.5    |
| Tl 190.794 | 78.4600     | ppb   | 2.6891  | 3.4  | 49.3070    |
| V 292.401  | 203.851     | ppb   | 0.6873  | 0.3  | 4756.91    |
| Zn 206.200 | 227.425     | ppb   | 2.8679  | 1.3  | 309.486    |



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**680-90529-a-1-d msd (Samp)      5/28/2013, 7:16:36 PM      Rack 2, Tube 8**  
**Weight: 1      Volume: 1      Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 99.0407                  | 99.7775 | 100.945 |
| Al 308.215 | 9912.99                  | 10019.1 | 10071.4 |
| As 188.980 | 212.121                  | 220.561 | 227.395 |
| B 249.678  | 623.276                  | 630.386 | 635.172 |
| Ba 389.178 | 200.573                  | 201.379 | 202.603 |
| Be 313.042 | 105.696                  | 106.492 | 107.221 |
| Ca 370.602 | 10752                    | 10873   | 10975   |
| Cd 226.502 | 102.142                  | 102.718 | 103.496 |
| Co 228.615 | 102.761                  | 103.159 | 105.943 |
| Cr 267.716 | 204.434                  | 206.660 | 208.526 |
| Cu 324.754 | 222.786                  | 224.106 | 223.482 |
| Fe 271.441 | 10248.3                  | 10315.8 | 10411.1 |
| K 766.491  | 9900.15                  | 9968.01 | 9992.07 |
| Mg 279.078 | 10092.4                  | 10190.3 | 10262.5 |
| Mn 257.610 | 1061.19                  | 1069.35 | 1076.94 |
| Mo 202.032 | 238.398                  | 242.930 | 241.847 |
| Na 330.237 | 13779.4                  | 14000.8 | 14153.7 |
| Ni 231.604 | 202.901                  | 204.376 | 206.028 |
| Pb 220.353 | 112.212                  | 116.744 | 115.964 |
| Sb 206.834 | 96.7760                  | 101.136 | 96.7311 |
| Se 196.026 | 210.340                  | 206.806 | 218.056 |
| Sn 189.925 | 421.970                  | 421.604 | 428.361 |
| Sr 216.596 | 202.728                  | 203.722 | 205.877 |
| Ti 334.941 | 199.381                  | 201.028 | 202.430 |
| Tl 190.794 | 79.0421                  | 76.2328 | 81.3099 |
| V 292.401  | 203.192                  | 204.577 | 206.019 |
| Zn 206.200 | 218.829                  | 219.199 | 219.405 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 99.9212     | ppb   | 0.9604  | 1.0  | 7005.58    |
| Al 308.215 | 10001.2     | ppb   | 80.7286 | 0.8  | 59163.4    |
| As 188.980 | 220.026     | ppb   | 7.6509  | 3.5  | 125.800    |
| B 249.678  | 629.611     | ppb   | 5.9857  | 1.0  | 8543.30    |
| Ba 389.178 | 201.518     | ppb   | 1.0219  | 0.5  | 3691.28    |
| Be 313.042 | 106.470     | ppb   | 0.7626  | 0.7  | 187665     |
| Ca 370.602 | 10866       | ppb   | 111.6   | 1.0  | 21447      |
| Cd 226.502 | 102.785     | ppb   | 0.6795  | 0.7  | 3443.04    |
| Co 228.615 | 103.954     | ppb   | 1.7340  | 1.7  | 1171.23    |
| Cr 267.716 | 206.540     | ppb   | 2.0489  | 1.0  | 9359.88    |
| Cu 324.754 | 223.458     | ppb   | 0.6604  | 0.3  | 12085.5    |
| Fe 271.441 | 10325.0     | ppb   | 81.8248 | 0.8  | 15815.8    |
| K 766.491  | 9953.41     | ppb   | 47.6692 | 0.5  | 323170     |
| Mg 279.078 | 10181.7     | ppb   | 85.3570 | 0.8  | 21451.6    |
| Mn 257.610 | 1069.16     | ppb   | 7.8766  | 0.7  | 233065     |
| Mo 202.032 | 241.059     | ppb   | 2.3666  | 1.0  | 1586.52    |
| Na 330.237 | 13978.0     | ppb   | 188.201 | 1.3  | 691.706    |
| Ni 231.604 | 204.435     | ppb   | 1.5643  | 0.8  | 528.444    |
| Pb 220.353 | 114.974     | ppb   | 2.4230  | 2.1  | 194.182    |
| Sb 206.834 | 98.2143     | ppb   | 2.5302  | 2.6  | 89.1221    |
| Se 196.026 | 211.734     | ppb   | 5.7530  | 2.7  | 106.904    |
| Sn 189.925 | 423.978     | ppb   | 3.8000  | 0.9  | 331.926    |
| Sr 216.596 | 204.109     | ppb   | 1.6096  | 0.8  | 2135.81    |
| Ti 334.941 | 200.946     | ppb   | 1.5263  | 0.8  | 50413.7    |
| Tl 190.794 | 78.8616     | ppb   | 2.5434  | 3.2  | 49.6536    |
| V 292.401  | 204.596     | ppb   | 1.4139  | 0.7  | 4777.29    |
| Zn 206.200 | 219.144     | ppb   | 0.2920  | 0.1  | 289.712    |

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680-90559-a-1-b (Samp)                      5/28/2013, 7:21:11 PM                      Rack 2, Tube 9  
 Weight: 1                                      Volume: 1                                      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.6704                   | 0.2740   | 0.7226   |
| Al 308.215 | 52.1699                  | 52.8347  | 51.7830  |
| As 188.980 | -6.5428u                 | 0.2365   | 2.6102   |
| B 249.678  | 25.6793                  | 24.2237  | 21.7610  |
| Ba 389.178 | 0.5679                   | 0.1829   | 0.8563   |
| Be 313.042 | 0.3571                   | 0.3569   | 0.3581   |
| Ca 370.602 | 223.5                    | 222.4    | 221.9    |
| Cd 226.502 | 0.4411                   | 0.3920   | 0.3586   |
| Co 228.615 | 0.6540                   | 0.3079   | 0.4962   |
| Cr 267.716 | 2.2407                   | 2.2178   | 2.4058   |
| Cu 324.754 | 1.4162                   | 0.9412   | 1.1501   |
| Fe 271.441 | 452.497                  | 453.026  | 442.466  |
| K 766.491  | 475.312                  | 471.469  | 466.832  |
| Mg 279.078 | 316.542                  | 316.323  | 312.069  |
| Mn 257.610 | 40.9887                  | 40.7524  | 40.2649  |
| Mo 202.032 | 1.8306                   | 1.4640   | 1.4698   |
| Na 330.237 | 2100.09                  | 1926.93  | 1839.78  |
| Ni 231.604 | 5.9922                   | 5.2961   | 6.2440   |
| Pb 220.353 | 0.7514                   | -1.4432u | 2.9595   |
| Sb 206.834 | 4.3991                   | -2.7825u | 3.2543   |
| Se 196.026 | -3.8445u                 | 4.8900   | 3.5907   |
| Sn 189.925 | 28.0863                  | 27.9433  | 23.2787  |
| Sr 216.596 | 1.3194                   | 1.1348   | 1.7286   |
| Ti 334.941 | 5.2852                   | 5.2040   | 5.1933   |
| Tl 190.794 | -1.7966u                 | 0.0094u  | -2.2721u |
| V 292.401  | 3.7756                   | 3.4121   | 3.4036   |
| Zn 206.200 | 6.8069                   | 5.7214   | 5.6899   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.5556      | ppb   | 0.2453  | 44.2  | -5.9879    |
| Al 308.215 | 52.2626     | ppb   | 0.5319  | 1.0   | 491.449    |
| As 188.980 | -1.2320     | ppb   | 4.7499  | 385.5 | -4.7777    |
| B 249.678  | 23.8880     | ppb   | 1.9806  | 8.3   | 426.227    |
| Ba 389.178 | 0.5357      | ppb   | 0.3378  | 63.1  | 0.5011     |
| Be 313.042 | 0.3574      | ppb   | 0.0006  | 0.2   | 384.048    |
| Ca 370.602 | 222.6       | ppb   | 0.8082  | 0.4   | 416.2      |
| Cd 226.502 | 0.3973      | ppb   | 0.0415  | 10.4  | 33.0806    |
| Co 228.615 | 0.4861      | ppb   | 0.1733  | 35.6  | 9.1161     |
| Cr 267.716 | 2.2881      | ppb   | 0.1026  | 4.5   | 110.117    |
| Cu 324.754 | 1.1692      | ppb   | 0.2381  | 20.4  | 217.990    |
| Fe 271.441 | 449.329     | ppb   | 5.9497  | 1.3   | 706.791    |
| K 766.491  | 471.204     | ppb   | 4.2462  | 0.9   | 15581.4    |
| Mg 279.078 | 314.978     | ppb   | 2.5216  | 0.8   | 695.501    |
| Mn 257.610 | 40.6687     | ppb   | 0.3691  | 0.9   | 8892.98    |
| Mo 202.032 | 1.5881      | ppb   | 0.2100  | 13.2  | 19.3809    |
| Na 330.237 | 1955.60     | ppb   | 132.502 | 6.8   | 136.929    |
| Ni 231.604 | 5.8441      | ppb   | 0.4910  | 8.4   | 13.2127    |
| Pb 220.353 | 0.7559      | ppb   | 2.2014  | 291.2 | 24.2073    |
| Sb 206.834 | 1.6236      | ppb   | 3.8585  | 237.6 | -3.3365    |
| Se 196.026 | 1.5454      | ppb   | 4.7128  | 305.0 | 7.9139     |
| Sn 189.925 | 26.4361     | ppb   | 2.7353  | 10.3  | 8.6487     |
| Sr 216.596 | 1.3943      | ppb   | 0.3039  | 21.8  | 33.0091    |
| Ti 334.941 | 5.2275      | ppb   | 0.0503  | 1.0   | 1256.73    |
| Tl 190.794 | -1.3531     | ppb   | 1.2037  | 89.0  | -14.9838   |
| V 292.401  | 3.5305      | ppb   | 0.2124  | 6.0   | 67.7138    |
| Zn 206.200 | 6.0727      | ppb   | 0.6360  | 10.5  | 13.1610    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

mb 680-277761/1-a (Samp) 5/28/2013, 7:25:47 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | 0.2726                   | 0.0759   | -0.2635u  |
| Al 308.215 | 10.6989                  | 9.6866   | 7.8683    |
| As 188.980 | -4.4912u                 | -3.7359u | -1.1590u  |
| B 249.678  | 8.5670                   | 8.2706   | 8.2365    |
| Ba 389.178 | -0.1730u                 | -1.1513u | -0.4096u  |
| Be 313.042 | -0.0000u                 | 0.0060   | 0.0046    |
| Ca 370.602 | 12.27                    | 23.80    | 21.16     |
| Cd 226.502 | -0.0761u                 | 0.0127   | -0.0757u  |
| Co 228.615 | -0.4943u                 | 0.1123   | 0.0045    |
| Cr 267.716 | 0.1508                   | 0.5631   | 0.2928    |
| Cu 324.754 | 0.1522                   | 0.1853   | 0.6847    |
| Fe 271.441 | 13.0513                  | 10.2050  | 13.0491   |
| K 766.491  | 5.2880                   | 4.6917   | 4.5430    |
| Mg 279.078 | 16.9234                  | 14.5416  | 15.1367   |
| Mn 257.610 | 0.0857                   | 0.1124   | 0.1137    |
| Mo 202.032 | 1.2302                   | 0.1783   | 0.6581    |
| Na 330.237 | 43.2834                  | 12.8880  | 0.0630u   |
| Ni 231.604 | 0.8771                   | -0.2750u | 0.3781    |
| Pb 220.353 | -0.9394u                 | -3.4454u | 2.8993    |
| Sb 206.834 | 2.1272                   | 1.1000   | -0.8385u  |
| Se 196.026 | 1.1865                   | -5.7963u | -10.0976u |
| Sn 189.925 | 5.7138                   | 6.9487   | 6.1195    |
| Sr 216.596 | -0.0433u                 | -0.8100u | -0.0897u  |
| Ti 334.941 | 0.2272                   | 0.2045   | 0.2376    |
| Tl 190.794 | -1.7667u                 | 2.0483   | -0.3240u  |
| V 292.401  | 0.1104                   | 0.1812   | 0.2052    |
| Zn 206.200 | 0.2991                   | 1.1849   | 1.4260    |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | 0.0284      | ppb   | 0.2712  | 956.5   | -43.3354   |
| Al 308.215 | 9.4179      | ppb   | 1.4343  | 15.2    | 239.210    |
| As 188.980 | -3.1287     | ppb   | 1.7471  | 55.8    | -5.8936    |
| B 249.678  | 8.3580      | ppb   | 0.1817  | 2.2     | 218.469    |
| Ba 389.178 | -0.5780     | ppb   | 0.5104  | 88.3    | -20.8865   |
| Be 313.042 | 0.0035      | ppb   | 0.0031  | 89.0    | -240.144   |
| Ca 370.602 | 19.08       | ppb   | 6.042   | 31.7    | 26.14      |
| Cd 226.502 | -0.0464     | ppb   | 0.0512  | 110.3   | 17.2942    |
| Co 228.615 | -0.1258     | ppb   | 0.3236  | 257.2   | 2.1424     |
| Cr 267.716 | 0.3356      | ppb   | 0.2094  | 62.4    | 21.4654    |
| Cu 324.754 | 0.3407      | ppb   | 0.2983  | 87.6    | 173.662    |
| Fe 271.441 | 12.1018     | ppb   | 1.6427  | 13.6    | 38.3820    |
| K 766.491  | 4.8409      | ppb   | 0.3943  | 8.1     | 453.308    |
| Mg 279.078 | 15.5339     | ppb   | 1.2396  | 8.0     | 65.6270    |
| Mn 257.610 | 0.1039      | ppb   | 0.0158  | 15.2    | 51.9842    |
| Mo 202.032 | 0.6889      | ppb   | 0.5266  | 76.4    | 13.5189    |
| Na 330.237 | 18.7448     | ppb   | 22.1975 | 118.4   | 46.7613    |
| Ni 231.604 | 0.3267      | ppb   | 0.5778  | 176.8   | -1.1097    |
| Pb 220.353 | -0.4952     | ppb   | 3.1956  | 645.4   | 22.3169    |
| Sb 206.834 | 0.7962      | ppb   | 1.5060  | 189.1   | -4.1509    |
| Se 196.026 | -4.9025     | ppb   | 5.6949  | 116.2   | 4.8747     |
| Sn 189.925 | 6.2607      | ppb   | 0.6294  | 10.1    | -7.7581    |
| Sr 216.596 | -0.3143     | ppb   | 0.4299  | 136.8   | 15.0146    |
| Ti 334.941 | 0.2231      | ppb   | 0.0169  | 7.6     | -0.2772    |
| Tl 190.794 | -0.0141     | ppb   | 1.9263  | 13623.9 | -13.8578   |
| V 292.401  | 0.1656      | ppb   | 0.0493  | 29.8    | -11.6343   |
| Zn 206.200 | 0.9700      | ppb   | 0.5934  | 61.2    | 6.5267     |

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ics 680-277761/2-a (Samp)      5/28/2013, 7:30:23 PM      Rack 2, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 51.3668                  | 51.0606 | 51.3520 |
| Al 308.215 | 5079.59                  | 5052.91 | 5101.14 |
| As 188.980 | 107.804                  | 107.617 | 115.896 |
| B 249.678  | 204.083                  | 202.124 | 205.659 |
| Ba 389.178 | 100.229                  | 99.4414 | 101.617 |
| Be 313.042 | 53.2286                  | 52.7872 | 53.2512 |
| Ca 370.602 | 5007                     | 4992    | 5041    |
| Cd 226.502 | 52.8825                  | 52.5501 | 53.1170 |
| Co 228.615 | 52.6306                  | 52.2113 | 52.4344 |
| Cr 267.716 | 105.249                  | 104.574 | 105.617 |
| Cu 324.754 | 105.098                  | 102.689 | 105.895 |
| Fe 271.441 | 5104.09                  | 5066.39 | 5119.41 |
| K 766.491  | 5043.28                  | 4994.79 | 5035.11 |
| Mg 279.078 | 5170.48                  | 5133.29 | 5189.19 |
| Mn 257.610 | 537.713                  | 535.450 | 539.426 |
| Mo 202.032 | 104.587                  | 106.177 | 105.837 |
| Na 330.237 | 4791.43                  | 4959.42 | 5036.55 |
| Ni 231.604 | 104.442                  | 102.692 | 104.558 |
| Pb 220.353 | 52.1878                  | 55.0456 | 55.1953 |
| Sb 206.834 | 51.6165                  | 53.7172 | 56.6732 |
| Se 196.026 | 101.137                  | 111.244 | 103.871 |
| Sn 189.925 | 216.038                  | 215.419 | 215.679 |
| Sr 216.596 | 102.435                  | 102.624 | 103.437 |
| Ti 334.941 | 102.354                  | 101.845 | 102.558 |
| Tl 190.794 | 40.5570                  | 39.2523 | 48.3972 |
| V 292.401  | 104.130                  | 103.335 | 104.633 |
| Zn 206.200 | 106.625                  | 108.522 | 110.933 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 51.2598     | ppb   | 0.1727  | 0.3  | 3571.81    |
| Al 308.215 | 5077.88     | ppb   | 24.1605 | 0.5  | 30128.5    |
| As 188.980 | 110.439     | ppb   | 4.7269  | 4.3  | 61.1338    |
| B 249.678  | 203.955     | ppb   | 1.7711  | 0.9  | 2836.04    |
| Ba 389.178 | 100.429     | ppb   | 1.1012  | 1.1  | 1834.44    |
| Be 313.042 | 53.0890     | ppb   | 0.2616  | 0.5  | 93454.1    |
| Ca 370.602 | 5013        | ppb   | 25.03   | 0.5  | 9875       |
| Cd 226.502 | 52.8499     | ppb   | 0.2849  | 0.5  | 1778.94    |
| Co 228.615 | 52.4254     | ppb   | 0.2098  | 0.4  | 592.891    |
| Cr 267.716 | 105.146     | ppb   | 0.5290  | 0.5  | 4767.96    |
| Cu 324.754 | 104.561     | ppb   | 1.6694  | 1.6  | 5737.55    |
| Fe 271.441 | 5096.63     | ppb   | 27.2866 | 0.5  | 7817.18    |
| K 766.491  | 5024.39     | ppb   | 25.9604 | 0.5  | 163280     |
| Mg 279.078 | 5164.32     | ppb   | 28.4558 | 0.6  | 10896.8    |
| Mn 257.610 | 537.530     | ppb   | 1.9942  | 0.4  | 117190     |
| Mo 202.032 | 105.534     | ppb   | 0.8375  | 0.8  | 699.581    |
| Na 330.237 | 4929.14     | ppb   | 125.334 | 2.5  | 272.713    |
| Ni 231.604 | 103.897     | ppb   | 1.0458  | 1.0  | 267.600    |
| Pb 220.353 | 54.1429     | ppb   | 1.6948  | 3.1  | 103.660    |
| Sb 206.834 | 54.0023     | ppb   | 2.5404  | 4.7  | 46.9914    |
| Se 196.026 | 105.417     | ppb   | 5.2275  | 5.0  | 56.8297    |
| Sn 189.925 | 215.712     | ppb   | 0.3110  | 0.1  | 162.565    |
| Sr 216.596 | 102.832     | ppb   | 0.5325  | 0.5  | 1085.16    |
| Ti 334.941 | 102.252     | ppb   | 0.3676  | 0.4  | 25625.6    |
| Tl 190.794 | 42.7355     | ppb   | 4.9463  | 11.6 | 20.6039    |
| V 292.401  | 104.033     | ppb   | 0.6545  | 0.6  | 2424.05    |
| Zn 206.200 | 108.693     | ppb   | 2.1591  | 2.0  | 146.339    |

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680-90570-a-21-b (Samp) 5/28/2013, 7:34:59 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -1.3906u                 | -1.4738u | -1.2696u  |
| Al 308.215 | 100463                   | 101138   | 96769.3   |
| As 188.980 | 7.9641                   | 8.0724   | 14.0197   |
| B 249.678  | 10.1472                  | 10.2080  | 9.2315    |
| Ba 389.178 | 407.700                  | 408.360  | 394.666   |
| Be 313.042 | 2.9215                   | 2.9200   | 2.8190    |
| Ca 370.602 | 554.7u                   | 569.6u   | 588.9u    |
| Cd 226.502 | -0.4013                  | -0.4929  | -0.4836   |
| Co 228.615 | 29.0436                  | 29.3429  | 27.1094   |
| Cr 267.716 | 52.7371                  | 52.9705  | 51.0646   |
| Cu 324.754 | 44.7456                  | 45.4829  | 43.8084   |
| Fe 271.441 | 57416.0                  | 57660.9  | 55407.3   |
| K 766.491  | 6344.85                  | 6364.91  | 6194.60   |
| Mg 279.078 | 6758.22                  | 6780.50  | 6529.61   |
| Mn 257.610 | 2240.44                  | 2247.15  | 2164.17   |
| Mo 202.032 | 1.6366                   | 1.0360   | 1.1059    |
| Na 330.237 | 98.8878u                 | 122.418u | -12.4554u |
| Ni 231.604 | 20.7895                  | 20.8193  | 21.1079   |
| Pb 220.353 | 93.0048                  | 91.3393  | 91.7332   |
| Sb 206.834 | 7.0792                   | 3.9184   | 6.7893    |
| Se 196.026 | -0.0423                  | -4.4713u | 2.6740    |
| Sn 189.925 | 14.7422                  | 14.9825  | 10.6302   |
| Sr 216.596 | 13.0402                  | 13.6304  | 13.0333   |
| Ti 334.941 | 2406.68                  | 2422.10  | 2330.19   |
| Tl 190.794 | -1.2173u                 | -1.6550u | -0.5367u  |
| V 292.401  | 125.356                  | 125.480  | 121.145   |
| Zn 206.200 | 123.352                  | 125.154  | 122.569   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.3780     | ppb   | 0.1027  | 7.5   | -132.844   |
| Al 308.215 | 99456.9     | ppb   | 2351.86 | 2.4   | 586940     |
| As 188.980 | 10.0187     | ppb   | 3.4654  | 34.6  | 2.2616     |
| B 249.678  | 9.8622      | ppb   | 0.5471  | 5.5   | 132.285    |
| Ba 389.178 | 403.575     | ppb   | 7.7229  | 1.9   | 7412.73    |
| Be 313.042 | 2.8868      | ppb   | 0.0587  | 2.0   | 4852.11    |
| Ca 370.602 | 571.1       | ppb   | 17.18   | 3.0   | -879.5     |
| Cd 226.502 | -0.4593     | ppb   | 0.0504  | 11.0  | 148.594    |
| Co 228.615 | 28.4987     | ppb   | 1.2124  | 4.3   | 378.338    |
| Cr 267.716 | 52.2574     | ppb   | 1.0396  | 2.0   | 2397.48    |
| Cu 324.754 | 44.6790     | ppb   | 0.8392  | 1.9   | 2555.83    |
| Fe 271.441 | 56828.0     | ppb   | 1236.51 | 2.2   | 86887.0    |
| K 766.491  | 6301.46     | ppb   | 93.0826 | 1.5   | 204706     |
| Mg 279.078 | 6689.44     | ppb   | 138.865 | 2.1   | 14062.6    |
| Mn 257.610 | 2217.25     | ppb   | 46.0958 | 2.1   | 483285     |
| Mo 202.032 | 1.2595      | ppb   | 0.3285  | 26.1  | 14.4664    |
| Na 330.237 | 69.6170     | ppb   | 72.0439 | 103.5 | 24.1399    |
| Ni 231.604 | 20.9056     | ppb   | 0.1759  | 0.8   | 53.4146    |
| Pb 220.353 | 92.0258     | ppb   | 0.8704  | 0.9   | 161.058    |
| Sb 206.834 | 5.9290      | ppb   | 1.7472  | 29.5  | 2.4686     |
| Se 196.026 | -0.6132     | ppb   | 3.6067  | 588.2 | 7.5943     |
| Sn 189.925 | 13.4516     | ppb   | 2.4463  | 18.2  | -1.9121    |
| Sr 216.596 | 13.2346     | ppb   | 0.3428  | 2.6   | 203.578    |
| Ti 334.941 | 2386.32     | ppb   | 49.2187 | 2.1   | 598841     |
| Tl 190.794 | -1.1364     | ppb   | 0.5635  | 49.6  | -18.4545   |
| V 292.401  | 123.994     | ppb   | 2.4676  | 2.0   | 2943.77    |
| Zn 206.200 | 123.692     | ppb   | 1.3253  | 1.1   | 166.479    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-21-bSD^5 (Samp) 5/28/2013, 7:48:56 PM Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.4168u                 | -0.1221u  | -0.3416u  |
| Al 308.215 | 21829.1                  | 21599.7   | 21456.9   |
| As 188.980 | -0.9652u                 | 3.5677    | 1.3748    |
| B 249.678  | 6.2473                   | 6.8812    | 6.1699    |
| Ba 389.178 | 89.9249                  | 88.3672   | 88.8713   |
| Be 313.042 | 0.6251                   | 0.6225    | 0.6165    |
| Ca 370.602 | 139.9u                   | 137.3u    | 130.5u    |
| Cd 226.502 | -0.0014                  | -0.1695   | -0.1696   |
| Co 228.615 | 6.2316                   | 6.1554    | 6.8121    |
| Cr 267.716 | 11.6826                  | 11.6914   | 11.3411   |
| Cu 324.754 | 9.2015                   | 10.3606   | 10.0835   |
| Fe 271.441 | 12789.2                  | 12668.9   | 12565.1   |
| K 766.491  | 1308.93                  | 1298.73   | 1293.22   |
| Mg 279.078 | 1514.56                  | 1498.75   | 1492.17   |
| Mn 257.610 | 490.734                  | 486.560   | 481.964   |
| Mo 202.032 | 0.6711                   | 0.5764    | 0.2239    |
| Na 330.237 | -188.181u                | -15.1645u | -218.235u |
| Ni 231.604 | 3.3514                   | 5.2564    | 5.0464    |
| Pb 220.353 | 17.8904                  | 18.9370   | 18.1559   |
| Sb 206.834 | 3.5926                   | 3.3045    | 3.1954    |
| Se 196.026 | -4.0743u                 | 4.0470    | -9.6276u  |
| Sn 189.925 | 4.9079                   | -0.3431u  | 3.7131    |
| Sr 216.596 | 2.5974                   | 2.6500    | 2.9032    |
| Ti 334.941 | 538.185                  | 533.974   | 530.470   |
| Tl 190.794 | -1.0716u                 | 3.3267    | -1.3926u  |
| V 292.401  | 28.1084                  | 27.6164   | 27.5327   |
| Zn 206.200 | 28.6642                  | 29.4947   | 27.0103   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2935     | ppb   | 0.1531  | 52.2  | -63.9254   |
| Al 308.215 | 21628.5     | ppb   | 187.766 | 0.9   | 127783     |
| As 188.980 | 1.3258      | ppb   | 2.2668  | 171.0 | -3.1810    |
| B 249.678  | 6.4328      | ppb   | 0.3903  | 6.1   | 168.905    |
| Ba 389.178 | 89.0544     | ppb   | 0.7948  | 0.9   | 1627.81    |
| Be 313.042 | 0.6214      | ppb   | 0.0044  | 0.7   | 851.117    |
| Ca 370.602 | 135.9       | ppb   | 4.863   | 3.6   | -187.4     |
| Cd 226.502 | -0.1135     | ppb   | 0.0971  | 85.5  | 47.3722    |
| Co 228.615 | 6.3997      | ppb   | 0.3592  | 5.6   | 87.6889    |
| Cr 267.716 | 11.5717     | ppb   | 0.1998  | 1.7   | 535.779    |
| Cu 324.754 | 9.8819      | ppb   | 0.6053  | 6.1   | 686.397    |
| Fe 271.441 | 12674.4     | ppb   | 112.143 | 0.9   | 19394.0    |
| K 766.491  | 1300.29     | ppb   | 7.9685  | 0.6   | 42475.8    |
| Mg 279.078 | 1501.83     | ppb   | 11.5097 | 0.8   | 3183.06    |
| Mn 257.610 | 486.419     | ppb   | 4.3868  | 0.9   | 106046     |
| Mo 202.032 | 0.4905      | ppb   | 0.2357  | 48.0  | 11.5984    |
| Na 330.237 | -140.527    | ppb   | 109.602 | 78.0  | 33.7501    |
| Ni 231.604 | 4.5514      | ppb   | 1.0445  | 23.0  | 10.1030    |
| Pb 220.353 | 18.3278     | ppb   | 0.5441  | 3.0   | 50.5738    |
| Sb 206.834 | 3.3642      | ppb   | 0.2052  | 6.1   | -1.3115    |
| Se 196.026 | -3.2183     | ppb   | 6.8774  | 213.7 | 5.8210     |
| Sn 189.925 | 2.7593      | ppb   | 2.7524  | 99.7  | -10.6056   |
| Sr 216.596 | 2.7169      | ppb   | 0.1635  | 6.0   | 57.1710    |
| Ti 334.941 | 534.209     | ppb   | 3.8630  | 0.7   | 134015     |
| Tl 190.794 | 0.2875      | ppb   | 2.6369  | 917.1 | -14.4295   |
| V 292.401  | 27.7525     | ppb   | 0.3110  | 1.1   | 646.884    |
| Zn 206.200 | 28.3897     | ppb   | 1.2647  | 4.5   | 42.2658    |

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**680-90570-a-21-bPDS (Samp) 5/28/2013, 7:53:31 PM Rack 2, Tube 16****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 46.9846                  | 47.8200 | 48.3762 |
| Al 308.215 | 102769                   | 102990  | 101787  |
| As 188.980 | 2174.53                  | 2176.59 | 2196.98 |
| B 249.678  | 1015.81                  | 1019.39 | 1028.98 |
| Ba 389.178 | 2360.89                  | 2367.26 | 2374.05 |
| Be 313.042 | 53.2777                  | 53.4322 | 53.5075 |
| Ca 370.602 | 5492                     | 5511    | 5517    |
| Cd 226.502 | 49.6959                  | 50.0862 | 49.4940 |
| Co 228.615 | 537.377                  | 537.789 | 540.653 |
| Cr 267.716 | 252.571                  | 252.604 | 253.430 |
| Cu 324.754 | 296.604                  | 296.657 | 296.170 |
| Fe 271.441 | 57977.7                  | 58134.0 | 58282.7 |
| K 766.491  | 11954.0                  | 11945.6 | 11968.5 |
| Mg 279.078 | 11886.0                  | 11939.7 | 11940.7 |
| Mn 257.610 | 2711.28                  | 2739.73 | 2703.96 |
| Mo 202.032 | 528.851                  | 530.165 | 531.047 |
| Na 330.237 | 5165.03                  | 5246.75 | 5260.21 |
| Ni 231.604 | 519.286                  | 520.035 | 521.152 |
| Pb 220.353 | 603.899                  | 601.498 | 602.268 |
| Sb 206.834 | 485.446                  | 482.508 | 491.151 |
| Se 196.026 | 2081.16                  | 2103.06 | 2112.27 |
| Sn 189.925 | 1042.76                  | 1050.60 | 1041.79 |
| Sr 216.596 | 519.601                  | 520.041 | 520.820 |
| Ti 334.941 | 3361.39                  | 3373.65 | 3381.88 |
| Tl 190.794 | 2080.78                  | 2071.17 | 2081.20 |
| V 292.401  | 620.068                  | 619.129 | 620.966 |
| Zn 206.200 | 624.188                  | 623.369 | 626.488 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 47.7269     | ppb   | 0.7005  | 1.5  | 3317.35    |
| Al 308.215 | 102515      | ppb   | 640.432 | 0.6  | 604908     |
| As 188.980 | 2182.70     | ppb   | 12.4133 | 0.6  | 1284.97    |
| B 249.678  | 1021.40     | ppb   | 6.8097  | 0.7  | 13715.9    |
| Ba 389.178 | 2367.40     | ppb   | 6.5812  | 0.3  | 43173.5    |
| Be 313.042 | 53.4058     | ppb   | 0.1171  | 0.2  | 93939.1    |
| Ca 370.602 | 5507        | ppb   | 12.98   | 0.2  | 9345       |
| Cd 226.502 | 49.7587     | ppb   | 0.3011  | 0.6  | 1812.15    |
| Co 228.615 | 538.607     | ppb   | 1.7846  | 0.3  | 6122.22    |
| Cr 267.716 | 252.868     | ppb   | 0.4871  | 0.2  | 11477.4    |
| Cu 324.754 | 296.477     | ppb   | 0.2670  | 0.1  | 16000.4    |
| Fe 271.441 | 58131.5     | ppb   | 152.492 | 0.3  | 88942.4    |
| K 766.491  | 11956.1     | ppb   | 11.5898 | 0.1  | 388133     |
| Mg 279.078 | 11922.1     | ppb   | 31.3149 | 0.3  | 25071.0    |
| Mn 257.610 | 2718.32     | ppb   | 18.8957 | 0.7  | 592493     |
| Mo 202.032 | 530.021     | ppb   | 1.1054  | 0.2  | 3475.62    |
| Na 330.237 | 5223.99     | ppb   | 51.5081 | 1.0  | 254.307    |
| Ni 231.604 | 520.157     | ppb   | 0.9391  | 0.2  | 1347.68    |
| Pb 220.353 | 602.555     | ppb   | 1.2264  | 0.2  | 918.553    |
| Sb 206.834 | 486.368     | ppb   | 4.3945  | 0.9  | 458.676    |
| Se 196.026 | 2098.83     | ppb   | 15.9790 | 0.8  | 993.732    |
| Sn 189.925 | 1045.05     | ppb   | 4.8295  | 0.5  | 836.956    |
| Sr 216.596 | 520.154     | ppb   | 0.6172  | 0.1  | 5440.68    |
| Ti 334.941 | 3372.30     | ppb   | 10.3116 | 0.3  | 846300     |
| Tl 190.794 | 2077.72     | ppb   | 5.6721  | 0.3  | 1674.88    |
| V 292.401  | 620.055     | ppb   | 0.9184  | 0.1  | 14592.9    |
| Zn 206.200 | 624.682     | ppb   | 1.6172  | 0.3  | 517.426    |

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**680-90570-a-21-c ms (Samp) 5/28/2013, 7:58:06 PM Rack 2, Tube 17****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 48.4759                  | 48.9845 | 49.1552 |
| Al 308.215 | 100731                   | 101059  | 101419  |
| As 188.980 | 121.501                  | 115.031 | 120.746 |
| B 249.678  | 203.087                  | 202.090 | 202.951 |
| Ba 389.178 | 437.624                  | 436.297 | 437.959 |
| Be 313.042 | 54.9998                  | 55.1740 | 55.3851 |
| Ca 370.602 | 5375                     | 5369    | 5413    |
| Cd 226.502 | 51.2463                  | 50.8758 | 51.3496 |
| Co 228.615 | 81.2051                  | 81.4067 | 81.4535 |
| Cr 267.716 | 143.664                  | 144.276 | 145.019 |
| Cu 324.754 | 139.259                  | 139.587 | 140.991 |
| Fe 271.441 | 54052.1                  | 53663.5 | 54325.6 |
| K 766.491  | 8695.41                  | 8699.79 | 8703.46 |
| Mg 279.078 | 8810.91                  | 8849.91 | 8889.15 |
| Mn 257.610 | 3021.78                  | 3042.13 | 3055.10 |
| Mo 202.032 | 93.3108                  | 93.0065 | 93.0609 |
| Na 330.237 | 5154.54                  | 5194.56 | 5215.89 |
| Ni 231.604 | 120.508                  | 122.483 | 124.305 |
| Pb 220.353 | 142.615                  | 142.974 | 145.131 |
| Sb 206.834 | 28.9457                  | 29.6834 | 30.0625 |
| Se 196.026 | 98.9518                  | 99.1386 | 101.801 |
| Sn 189.925 | 210.180                  | 210.430 | 205.419 |
| Sr 216.596 | 113.261                  | 112.773 | 113.724 |
| Ti 334.941 | 1830.30                  | 1829.87 | 1837.52 |
| Tl 190.794 | 40.6968                  | 36.6102 | 39.9909 |
| V 292.401  | 208.901                  | 208.970 | 210.782 |
| Zn 206.200 | 209.984                  | 211.154 | 211.587 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 48.8718     | ppb   | 0.3534  | 0.7  | 3414.33    |
| Al 308.215 | 101070      | ppb   | 344.212 | 0.3  | 596444     |
| As 188.980 | 119.093     | ppb   | 3.5376  | 3.0  | 66.6812    |
| B 249.678  | 202.710     | ppb   | 0.5407  | 0.3  | 2727.72    |
| Ba 389.178 | 437.294     | ppb   | 0.8793  | 0.2  | 8028.23    |
| Be 313.042 | 55.1863     | ppb   | 0.1930  | 0.3  | 97161.3    |
| Ca 370.602 | 5386        | ppb   | 23.47   | 0.4  | 8789       |
| Cd 226.502 | 51.1572     | ppb   | 0.2491  | 0.5  | 1847.75    |
| Co 228.615 | 81.3551     | ppb   | 0.1320  | 0.2  | 958.236    |
| Cr 267.716 | 144.320     | ppb   | 0.6785  | 0.5  | 6565.27    |
| Cu 324.754 | 139.946     | ppb   | 0.9202  | 0.7  | 7639.36    |
| Fe 271.441 | 54013.7     | ppb   | 332.754 | 0.6  | 82592.0    |
| K 766.491  | 8699.55     | ppb   | 4.0281  | 0.0  | 282497     |
| Mg 279.078 | 8849.99     | ppb   | 39.1197 | 0.4  | 18597.3    |
| Mn 257.610 | 3039.67     | ppb   | 16.7923 | 0.6  | 662468     |
| Mo 202.032 | 93.1260     | ppb   | 0.1623  | 0.2  | 615.944    |
| Na 330.237 | 5188.33     | ppb   | 31.1448 | 0.6  | 264.406    |
| Ni 231.604 | 122.432     | ppb   | 1.8987  | 1.6  | 316.659    |
| Pb 220.353 | 143.573     | ppb   | 1.3613  | 0.9  | 237.751    |
| Sb 206.834 | 29.5639     | ppb   | 0.5679  | 1.9  | 25.1472    |
| Se 196.026 | 99.9639     | ppb   | 1.5939  | 1.6  | 55.0149    |
| Sn 189.925 | 208.676     | ppb   | 2.8239  | 1.4  | 156.842    |
| Sr 216.596 | 113.253     | ppb   | 0.4754  | 0.4  | 1234.75    |
| Ti 334.941 | 1832.56     | ppb   | 4.2996  | 0.2  | 459880     |
| Tl 190.794 | 39.0993     | ppb   | 2.1844  | 5.6  | 14.2607    |
| V 292.401  | 209.551     | ppb   | 1.0668  | 0.5  | 4940.36    |
| Zn 206.200 | 210.908     | ppb   | 0.8297  | 0.4  | 279.592    |



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**680-90570-a-21-d msd (Samp) 5/28/2013, 8:02:40 PM Rack 2, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.5377                  | 49.4818 | 49.1020 |
| Al 308.215 | 90849.8                  | 90998.6 | 90883.1 |
| As 188.980 | 114.987                  | 121.455 | 120.314 |
| B 249.678  | 191.764                  | 192.508 | 191.887 |
| Ba 389.178 | 425.282                  | 425.766 | 425.081 |
| Be 313.042 | 55.2389                  | 55.3522 | 55.3557 |
| Ca 370.602 | 5408                     | 5409    | 5445    |
| Cd 226.502 | 51.4597                  | 51.4724 | 51.3604 |
| Co 228.615 | 79.1280                  | 79.7617 | 79.2732 |
| Cr 267.716 | 143.601                  | 144.101 | 143.587 |
| Cu 324.754 | 134.454                  | 134.120 | 136.335 |
| Fe 271.441 | 48720.5                  | 48730.1 | 48771.5 |
| K 766.491  | 7943.08                  | 7951.15 | 7982.10 |
| Mg 279.078 | 8216.32                  | 8241.50 | 8209.82 |
| Mn 257.610 | 2874.01                  | 2874.98 | 2880.36 |
| Mo 202.032 | 93.7105                  | 94.6188 | 93.1374 |
| Na 330.237 | 4998.21                  | 4952.30 | 5065.53 |
| Ni 231.604 | 121.334                  | 122.930 | 118.714 |
| Pb 220.353 | 141.662                  | 141.982 | 144.230 |
| Sb 206.834 | 26.3005                  | 33.3518 | 30.0712 |
| Se 196.026 | 95.0929                  | 110.203 | 109.411 |
| Sn 189.925 | 210.096                  | 207.457 | 208.117 |
| Sr 216.596 | 113.169                  | 113.410 | 113.515 |
| Ti 334.941 | 1609.92                  | 1613.63 | 1617.06 |
| Tl 190.794 | 38.3029                  | 39.3923 | 39.0862 |
| V 292.401  | 200.562                  | 200.833 | 201.077 |
| Zn 206.200 | 202.040                  | 202.494 | 202.787 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.3738     | ppb   | 0.2371  | 0.5  | 3449.02    |
| Al 308.215 | 90910.5     | ppb   | 78.1116 | 0.1  | 536508     |
| As 188.980 | 118.919     | ppb   | 3.4522  | 2.9  | 66.5327    |
| B 249.678  | 192.053     | ppb   | 0.3986  | 0.2  | 2594.47    |
| Ba 389.178 | 425.377     | ppb   | 0.3519  | 0.1  | 7804.19    |
| Be 313.042 | 55.3156     | ppb   | 0.0665  | 0.1  | 97389.1    |
| Ca 370.602 | 5421        | ppb   | 20.72   | 0.4  | 9048       |
| Cd 226.502 | 51.4308     | ppb   | 0.0613  | 0.1  | 1843.33    |
| Co 228.615 | 79.3876     | ppb   | 0.3320  | 0.4  | 931.095    |
| Cr 267.716 | 143.763     | ppb   | 0.2930  | 0.2  | 6537.82    |
| Cu 324.754 | 134.970     | ppb   | 1.1936  | 0.9  | 7372.34    |
| Fe 271.441 | 48740.7     | ppb   | 27.1386 | 0.1  | 74531.8    |
| K 766.491  | 7958.78     | ppb   | 20.5997 | 0.3  | 258467     |
| Mg 279.078 | 8222.55     | ppb   | 16.7353 | 0.2  | 17280.9    |
| Mn 257.610 | 2876.45     | ppb   | 3.4198  | 0.1  | 626891     |
| Mo 202.032 | 93.8222     | ppb   | 0.7470  | 0.8  | 620.756    |
| Na 330.237 | 5005.35     | ppb   | 56.9527 | 1.1  | 258.142    |
| Ni 231.604 | 120.993     | ppb   | 2.1288  | 1.8  | 312.818    |
| Pb 220.353 | 142.625     | ppb   | 1.3992  | 1.0  | 236.247    |
| Sb 206.834 | 29.9078     | ppb   | 3.5285  | 11.8 | 25.3489    |
| Se 196.026 | 104.903     | ppb   | 8.5046  | 8.1  | 57.2788    |
| Sn 189.925 | 208.556     | ppb   | 1.3734  | 0.7  | 156.745    |
| Sr 216.596 | 113.365     | ppb   | 0.1773  | 0.2  | 1231.43    |
| Ti 334.941 | 1613.54     | ppb   | 3.5748  | 0.2  | 404911     |
| Tl 190.794 | 38.9271     | ppb   | 0.5619  | 1.4  | 14.4491    |
| V 292.401  | 200.824     | ppb   | 0.2578  | 0.1  | 4731.15    |
| Zn 206.200 | 202.440     | ppb   | 0.3763  | 0.2  | 268.533    |

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680-90570-a-22-a (Samp) 5/28/2013, 8:07:26 PM Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.8602u                 | -0.9709u | -1.6098u |
| Al 308.215 | 166360                   | 167618   | 169751   |
| As 188.980 | 15.7913                  | 23.2905  | 13.4890  |
| B 249.678  | 16.6370                  | 16.4866  | 15.8837  |
| Ba 389.178 | 442.594                  | 446.451  | 451.892  |
| Be 313.042 | 3.3050                   | 3.3109   | 3.3454   |
| Ca 370.602 | 1057u                    | 1030u    | 1027u    |
| Cd 226.502 | -1.2663                  | -1.0906  | -0.8473  |
| Co 228.615 | 32.2120                  | 33.1992  | 32.9900  |
| Cr 267.716 | 114.067                  | 114.658  | 115.955  |
| Cu 324.754 | 76.0717                  | 75.4114  | 77.1181  |
| Fe 271.441 | 111705                   | 112562   | 114010   |
| K 766.491  | 6809.15                  | 6852.46  | 6937.09  |
| Mg 279.078 | 7490.12                  | 7535.69  | 7635.51  |
| Mn 257.610 | 1049.34                  | 1057.26  | 1069.47  |
| Mo 202.032 | 2.4947                   | 3.8781   | 4.4528   |
| Na 330.237 | 407.664u                 | 100.870u | 289.139u |
| Ni 231.604 | 40.7266                  | 39.5304  | 39.2678  |
| Pb 220.353 | 90.0309                  | 84.6782  | 88.6595  |
| Sb 206.834 | 1.1959                   | -0.7872  | 10.2615  |
| Se 196.026 | -6.8748u                 | -2.1550u | 0.9514   |
| Sn 189.925 | 12.0545                  | 19.8357  | 11.4312  |
| Sr 216.596 | 23.3365                  | 23.0493  | 23.7188  |
| Ti 334.941 | 3212.24                  | 3242.82  | 3278.22  |
| Tl 190.794 | 4.0361u                  | 6.8776u  | 3.2613u  |
| V 292.401  | 258.052                  | 260.453  | 262.879  |
| Zn 206.200 | 169.565                  | 173.934  | 178.316  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.1469     | ppb   | 0.4046  | 35.3  | -121.095   |
| Al 308.215 | 167910      | ppb   | 1714.44 | 1.0   | 990778     |
| As 188.980 | 17.5236     | ppb   | 5.1252  | 29.2  | 6.8049     |
| B 249.678  | 16.3357     | ppb   | 0.3986  | 2.4   | 114.505    |
| Ba 389.178 | 446.979     | ppb   | 4.6716  | 1.0   | 8267.21    |
| Be 313.042 | 3.3205      | ppb   | 0.0218  | 0.7   | 5617.96    |
| Ca 370.602 | 1038        | ppb   | 16.77   | 1.6   | -2494      |
| Cd 226.502 | -1.0680     | ppb   | 0.2104  | 19.7  | 271.075    |
| Co 228.615 | 32.8004     | ppb   | 0.5202  | 1.6   | 447.500    |
| Cr 267.716 | 114.894     | ppb   | 0.9657  | 0.8   | 5241.40    |
| Cu 324.754 | 76.2004     | ppb   | 0.8606  | 1.1   | 4253.84    |
| Fe 271.441 | 112759      | ppb   | 1165.32 | 1.0   | 172380     |
| K 766.491  | 6866.23     | ppb   | 65.0688 | 0.9   | 223027     |
| Mg 279.078 | 7553.77     | ppb   | 74.3636 | 1.0   | 15890.9    |
| Mn 257.610 | 1058.69     | ppb   | 10.1401 | 1.0   | 231028     |
| Mo 202.032 | 3.6085      | ppb   | 1.0065  | 27.9  | 27.0784    |
| Na 330.237 | 265.891     | ppb   | 154.713 | 58.2  | 14.5642    |
| Ni 231.604 | 39.8416     | ppb   | 0.7776  | 2.0   | 103.704    |
| Pb 220.353 | 87.7895     | ppb   | 2.7804  | 3.2   | 156.557    |
| Sb 206.834 | 3.5567      | ppb   | 5.8906  | 165.6 | 1.9238     |
| Se 196.026 | -2.6928     | ppb   | 3.9407  | 146.3 | 6.5277     |
| Sn 189.925 | 14.4404     | ppb   | 4.6828  | 32.4  | -1.1095    |
| Sr 216.596 | 23.3682     | ppb   | 0.3359  | 1.4   | 355.973    |
| Ti 334.941 | 3244.42     | ppb   | 33.0196 | 1.0   | 814198     |
| Tl 190.794 | 4.7250      | ppb   | 1.9040  | 40.3  | -16.1004   |
| V 292.401  | 260.461     | ppb   | 2.4133  | 0.9   | 6176.51    |
| Zn 206.200 | 173.938     | ppb   | 4.3755  | 2.5   | 533.131    |

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680-90570-a-23-a (Samp)      5/28/2013, 8:12:01 PM      Rack 2, Tube 20  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -3.2833u                 | -2.4543u | -3.4135u  |
| Al 308.215 | 435674                   | 436750   | 436996    |
| As 188.980 | 13.2855                  | 5.7124   | 1.3098    |
| B 249.678  | 9.8940u                  | 11.5760u | 9.1668u   |
| Ba 389.178 | 4058.12                  | 4066.09  | 4058.32   |
| Be 313.042 | 97.3110                  | 97.4964  | 97.3371   |
| Ca 370.602 | 8431                     | 8487     | 8511      |
| Cd 226.502 | -3.2624                  | -3.0516  | -3.3262   |
| Co 228.615 | 236.621                  | 241.236  | 240.224   |
| Cr 267.716 | 1260.06                  | 1263.85  | 1261.79   |
| Cu 324.754 | 415.899                  | 416.836  | 422.486   |
| Fe 271.441 | 441224                   | 443925   | 441669    |
| K 766.491  | 156686x                  | 156746x  | 156066x   |
| Mg 279.078 | 196397                   | 197095   | 197366    |
| Mn 257.610 | 7695.02                  | 7731.61  | 7708.00   |
| Mo 202.032 | 6.9309                   | 7.8793   | 8.5014    |
| Na 330.237 | 4534.05u                 | 4084.16u | 4051.59u  |
| Ni 231.604 | 415.890                  | 412.328  | 420.274   |
| Pb 220.353 | 103.116                  | 103.136  | 104.821   |
| Sb 206.834 | 23.1278                  | 10.9752  | 20.2202   |
| Se 196.026 | -21.3963u                | -1.9951  | -22.7917u |
| Sn 189.925 | 35.3737                  | 28.7699  | 32.0495   |
| Sr 216.596 | 99.7037                  | 100.746  | 101.309   |
| Ti 334.941 | 28900.3                  | 28835.9  | 28760.1   |
| Tl 190.794 | 8.3700u                  | 3.3655u  | 3.5694u   |
| V 292.401  | 1429.77                  | 1433.43  | 1429.37   |
| Zn 206.200 | 1407.30                  | 1405.55  | 1415.23   |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -3.0504b    | ppb   | 0.5203  | 17.1 | -226.393   |
| Al 308.215 | 436473b     | ppb   | 702.691 | 0.2  | 2575050    |
| As 188.980 | 6.7692b     | ppb   | 6.0574  | 89.5 | -0.1303    |
| B 249.678  | 10.2123b    | ppb   | 1.2357  | 12.1 | -584.519   |
| Ba 389.178 | 4060.85b    | ppb   | 4.5455  | 0.1  | 74804.3    |
| Be 313.042 | 97.3815b    | ppb   | 0.1004  | 0.1  | 171626     |
| Ca 370.602 | 8477b       | ppb   | 40.95   | 0.5  | 4703       |
| Cd 226.502 | -3.2134b    | ppb   | 0.1437  | 4.5  | 1042.53    |
| Co 228.615 | 239.361b    | ppb   | 2.4254  | 1.0  | 3345.58    |
| Cr 267.716 | 1261.90b    | ppb   | 1.8967  | 0.2  | 57299.2    |
| Cu 324.754 | 418.407b    | ppb   | 3.5636  | 0.9  | 22602.8    |
| Fe 271.441 | 442273b     | ppb   | 1448.04 | 0.3  | 676085     |
| K 766.491  | 156499xb    | ppb   | 376.533 | 0.2  | 5076902    |
| Mg 279.078 | 196953b     | ppb   | 500.116 | 0.3  | 414530     |
| Mn 257.610 | 7711.54b    | ppb   | 18.5517 | 0.2  | 1682742    |
| Mo 202.032 | 7.7705b     | ppb   | 0.7909  | 10.2 | 37.3746    |
| Na 330.237 | 4223.27b    | ppb   | 269.640 | 6.4  | 8.4423     |
| Ni 231.604 | 416.164b    | ppb   | 3.9798  | 1.0  | 1086.39    |
| Pb 220.353 | 103.691b    | ppb   | 0.9787  | 0.9  | 185.559    |
| Sb 206.834 | 18.1077b    | ppb   | 6.3457  | 35.0 | 33.4321    |
| Se 196.026 | -15.3944b   | ppb   | 11.6250 | 75.5 | 3.1974     |
| Sn 189.925 | 32.0644b    | ppb   | 3.3019  | 10.3 | 13.2142    |
| Sr 216.596 | 100.586b    | ppb   | 0.8143  | 0.8  | 1431.38    |
| Ti 334.941 | 28832.1b    | ppb   | 70.1918 | 0.2  | 7236376    |
| Tl 190.794 | 5.1016b     | ppb   | 2.8323  | 55.5 | -34.4680   |
| V 292.401  | 1430.86b    | ppb   | 2.2416  | 0.2  | 34127.0    |
| Zn 206.200 | 1409.36b    | ppb   | 5.1591  | 0.4  | 1838.18    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-24-a (Samp)      5/28/2013, 8:16:47 PM      Rack 2, Tube 21  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.4017u                 | -1.8978u | -2.0672u |
| Al 308.215 | 288373                   | 290185   | 288031   |
| As 188.980 | 12.7893                  | 16.4826  | 20.7969  |
| B 249.678  | 12.5173u                 | 12.2761u | 12.2781u |
| Ba 389.178 | 859.187                  | 864.369  | 857.627  |
| Be 313.042 | 8.7537                   | 8.8217   | 8.7481   |
| Ca 370.602 | 5804                     | 5797     | 5772     |
| Cd 226.502 | -1.0148                  | -1.0546  | -1.2387  |
| Co 228.615 | 145.543                  | 145.417  | 143.995  |
| Cr 267.716 | 220.467                  | 222.101  | 220.093  |
| Cu 324.754 | 156.946                  | 157.638  | 158.432  |
| Fe 271.441 | 182111                   | 183590   | 181965   |
| K 766.491  | 33768.7                  | 33963.9  | 33794.6  |
| Mg 279.078 | 31791.0                  | 31976.4  | 31735.6  |
| Mn 257.610 | 4325.06                  | 4336.04  | 4313.42  |
| Mo 202.032 | 5.3705                   | 6.6738   | 5.1998   |
| Na 330.237 | 462.956u                 | 262.377u | 705.178u |
| Ni 231.604 | 88.4201                  | 90.9412  | 91.4937  |
| Pb 220.353 | 181.833                  | 179.765  | 186.043  |
| Sb 206.834 | 5.9057                   | 3.3957   | 5.1299   |
| Se 196.026 | -0.4170                  | 0.0399   | 3.4590   |
| Sn 189.925 | 20.7301                  | 19.4336  | 20.9714  |
| Sr 216.596 | 36.0087                  | 37.0101  | 37.2132  |
| Ti 334.941 | 8326.86                  | 8399.38  | 8331.17  |
| Tl 190.794 | 0.0700u                  | 8.7001u  | 7.3253u  |
| V 292.401  | 433.340                  | 435.775  | 432.865  |
| Zn 206.200 | 417.243                  | 411.472  | 413.730  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.1222     | ppb   | 0.2564  | 12.1  | -175.585   |
| Al 308.215 | 288863      | ppb   | 1157.24 | 0.4   | 1704345    |
| As 188.980 | 16.6896     | ppb   | 4.0078  | 24.0  | 6.7820     |
| B 249.678  | 12.3572     | ppb   | 0.1387  | 1.1   | -69.5829   |
| Ba 389.178 | 860.394     | ppb   | 3.5293  | 0.4   | 15920.0    |
| Be 313.042 | 8.7745      | ppb   | 0.0410  | 0.5   | 15247.5    |
| Ca 370.602 | 5791        | ppb   | 16.63   | 0.3   | 5356       |
| Cd 226.502 | -1.1027     | ppb   | 0.1194  | 10.8  | 448.181    |
| Co 228.615 | 144.985     | ppb   | 0.8596  | 0.6   | 1823.56    |
| Cr 267.716 | 220.887     | ppb   | 1.0674  | 0.5   | 10076.8    |
| Cu 324.754 | 157.672     | ppb   | 0.7435  | 0.5   | 8620.74    |
| Fe 271.441 | 182555      | ppb   | 899.163 | 0.5   | 279080     |
| K 766.491  | 33842.4     | ppb   | 105.988 | 0.3   | 1098093    |
| Mg 279.078 | 31834.3     | ppb   | 126.106 | 0.4   | 66936.6    |
| Mn 257.610 | 4324.84     | ppb   | 11.3095 | 0.3   | 942968     |
| Mo 202.032 | 5.7480      | ppb   | 0.8062  | 14.0  | 37.6229    |
| Na 330.237 | 476.837     | ppb   | 221.727 | 46.5  | -14.6823   |
| Ni 231.604 | 90.2850     | ppb   | 1.6385  | 1.8   | 235.801    |
| Pb 220.353 | 182.547     | ppb   | 3.1992  | 1.8   | 297.961    |
| Sb 206.834 | 4.8104      | ppb   | 1.2851  | 26.7  | 5.5692     |
| Se 196.026 | 1.0273      | ppb   | 2.1183  | 206.2 | 9.2686     |
| Sn 189.925 | 20.3784     | ppb   | 0.8270  | 4.1   | 3.7187     |
| Sr 216.596 | 36.7440     | ppb   | 0.6448  | 1.8   | 553.697    |
| Ti 334.941 | 8352.47     | ppb   | 40.6840 | 0.5   | 2096200    |
| Tl 190.794 | 5.3651      | ppb   | 4.6370  | 86.4  | -20.1078   |
| V 292.401  | 433.993     | ppb   | 1.5611  | 0.4   | 10340.7    |
| Zn 206.200 | 414.148     | ppb   | 2.9983  | 0.7   | 544.830    |

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680-90570-a-26-a (Samp) 5/28/2013, 8:21:24 PM Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -3.3958u                 | -1.8958u | -2.1602u  |
| Al 308.215 | 498521                   | 498514   | 494177    |
| As 188.980 | 11.6818                  | 10.0952  | 3.9998    |
| B 249.678  | 11.8244u                 | 9.4301u  | 10.0270u  |
| Ba 389.178 | 1864.66                  | 1868.32  | 1858.60   |
| Be 313.042 | 9.1967                   | 9.2156   | 9.1398    |
| Ca 370.602 | 2320u                    | 2250u    | 2274u     |
| Cd 226.502 | -1.1956                  | -1.1681  | -1.6401   |
| Co 228.615 | 98.0518                  | 99.1681  | 98.0596   |
| Cr 267.716 | 311.640                  | 312.500  | 309.684   |
| Cu 324.754 | 268.328                  | 266.471  | 262.225   |
| Fe 271.441 | 231286                   | 232336   | 229974    |
| K 766.491  | 70102.6x                 | 70321.3x | 69940.9x  |
| Mg 279.078 | 74685.0                  | 74754.4  | 74169.0   |
| Mn 257.610 | 3090.16                  | 3092.92  | 3067.61   |
| Mo 202.032 | 4.2230                   | 4.1015   | 2.8391    |
| Na 330.237 | 869.345u                 | 827.111u | 739.633u  |
| Ni 231.604 | 162.120                  | 162.314  | 160.019   |
| Pb 220.353 | 146.447                  | 149.570  | 153.426   |
| Sb 206.834 | 5.7069                   | 3.0275   | 2.3034    |
| Se 196.026 | -9.3642u                 | 4.3296   | -18.3599u |
| Sn 189.925 | 19.6819                  | 21.6977  | 17.8076   |
| Sr 216.596 | 33.7336                  | 33.3465  | 33.8153   |
| Ti 334.941 | 16266.3                  | 16309.3  | 16171.8   |
| Tl 190.794 | 8.8676u                  | 10.5245u | 8.2719u   |
| V 292.401  | 562.493                  | 564.723  | 559.269   |
| Zn 206.200 | 552.140                  | 556.790  | 544.426   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.4839b    | ppb   | 0.8007  | 32.2  | -205.414   |
| Al 308.215 | 497071b     | ppb   | 2505.77 | 0.5   | 2932714    |
| As 188.980 | 8.5923b     | ppb   | 4.0555  | 47.2  | 3.4765     |
| B 249.678  | 10.4272b    | ppb   | 1.2463  | 12.0  | -186.502   |
| Ba 389.178 | 1863.86b    | ppb   | 4.9097  | 0.3   | 34327.0    |
| Be 313.042 | 9.1840b     | ppb   | 0.0395  | 0.4   | 15979.3    |
| Ca 370.602 | 2281b       | ppb   | 35.60   | 1.6   | -1497      |
| Cd 226.502 | -1.3346b    | ppb   | 0.2649  | 19.9  | 565.008    |
| Co 228.615 | 98.4265b    | ppb   | 0.6422  | 0.7   | 1474.77    |
| Cr 267.716 | 311.275b    | ppb   | 1.4433  | 0.5   | 14188.9    |
| Cu 324.754 | 265.675b    | ppb   | 3.1283  | 1.2   | 14396.8    |
| Fe 271.441 | 231199b     | ppb   | 1183.36 | 0.5   | 353429     |
| K 766.491  | 70121.6xb   | ppb   | 190.903 | 0.3   | 2274935    |
| Mg 279.078 | 74536.1b    | ppb   | 319.842 | 0.4   | 156809     |
| Mn 257.610 | 3083.56b    | ppb   | 13.8838 | 0.5   | 672992     |
| Mo 202.032 | 3.7212b     | ppb   | 0.7663  | 20.6  | 21.9214    |
| Na 330.237 | 812.030b    | ppb   | 66.1585 | 8.1   | -40.1638   |
| Ni 231.604 | 161.484b    | ppb   | 1.2728  | 0.8   | 421.664    |
| Pb 220.353 | 149.814b    | ppb   | 3.4959  | 2.3   | 245.024    |
| Sb 206.834 | 3.6793b     | ppb   | 1.7929  | 48.7  | 6.3417     |
| Se 196.026 | -7.7982b    | ppb   | 11.4255 | 146.5 | 4.9908     |
| Sn 189.925 | 19.7291b    | ppb   | 1.9454  | 9.9   | 3.1874     |
| Sr 216.596 | 33.6318b    | ppb   | 0.2504  | 0.7   | 561.461    |
| Ti 334.941 | 16249.1b    | ppb   | 70.3175 | 0.4   | 4078094    |
| Tl 190.794 | 9.2213b     | ppb   | 1.1672  | 12.7  | -19.0623   |
| V 292.401  | 562.162b    | ppb   | 2.7420  | 0.5   | 13471.7    |
| Zn 206.200 | 551.118b    | ppb   | 6.2446  | 1.1   | 573.117    |

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680-90570-a-27-a (Samp) 5/28/2013, 8:26:00 PM Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.6445u                 | -1.2073u | -1.0393u |
| Al 308.215 | 263034                   | 264718   | 262400   |
| As 188.980 | 2.1999                   | 10.6944  | -1.9213  |
| B 249.678  | 6.3207u                  | 6.5452u  | 6.1050u  |
| Ba 389.178 | 784.058                  | 791.533  | 782.525  |
| Be 313.042 | 6.3572                   | 6.3689   | 6.2919   |
| Ca 370.602 | 1267u                    | 1257u    | 1231u    |
| Cd 226.502 | -0.5491                  | -0.6321  | -0.7052  |
| Co 228.615 | 35.7395                  | 35.7620  | 35.3101  |
| Cr 267.716 | 120.855                  | 120.887  | 119.854  |
| Cu 324.754 | 104.921                  | 105.889  | 103.353  |
| Fe 271.441 | 112203                   | 112902   | 111876   |
| K 766.491  | 34515.8                  | 34748.3  | 34351.7  |
| Mg 279.078 | 27334.9                  | 27488.1  | 27261.4  |
| Mn 257.610 | 1414.54                  | 1422.85  | 1411.22  |
| Mo 202.032 | 10.2299                  | 12.1085  | 10.7929  |
| Na 330.237 | 692.987u                 | 561.593u | 906.149u |
| Ni 231.604 | 43.2779                  | 44.6762  | 46.6390  |
| Pb 220.353 | 119.694                  | 122.752  | 121.610  |
| Sb 206.834 | 2.0545                   | 1.6307   | 4.2547   |
| Se 196.026 | 6.5457                   | -3.8947u | -5.7498u |
| Sn 189.925 | 16.3258                  | 19.8531  | 10.5481  |
| Sr 216.596 | 24.4347                  | 24.6102  | 25.2021  |
| Ti 334.941 | 8436.09                  | 8477.55  | 8372.94  |
| Tl 190.794 | -1.3067u                 | 13.7144  | -2.3390u |
| V 292.401  | 228.217                  | 229.902  | 226.355  |
| Zn 206.200 | 326.370                  | 332.275  | 335.299  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.9637     | ppb   | 0.2889  | 30.0  | -106.685   |
| Al 308.215 | 263384      | ppb   | 1197.72 | 0.5   | 1554062    |
| As 188.980 | 3.6576      | ppb   | 6.4329  | 175.9 | -0.4928    |
| B 249.678  | 6.3236      | ppb   | 0.2201  | 3.5   | -19.1044   |
| Ba 389.178 | 786.039     | ppb   | 4.8197  | 0.6   | 14478.7    |
| Be 313.042 | 6.3393      | ppb   | 0.0415  | 0.7   | 10953.5    |
| Ca 370.602 | 1251        | ppb   | 18.85   | 1.5   | -262.8     |
| Cd 226.502 | -0.6288     | ppb   | 0.0781  | 12.4  | 284.727    |
| Co 228.615 | 35.6039     | ppb   | 0.2547  | 0.7   | 592.402    |
| Cr 267.716 | 120.532     | ppb   | 0.5875  | 0.5   | 5508.48    |
| Cu 324.754 | 104.721     | ppb   | 1.2794  | 1.2   | 5775.85    |
| Fe 271.441 | 112327      | ppb   | 524.104 | 0.5   | 171721     |
| K 766.491  | 34538.6     | ppb   | 199.284 | 0.6   | 1120677    |
| Mg 279.078 | 27361.5     | ppb   | 115.646 | 0.4   | 57560.5    |
| Mn 257.610 | 1416.20     | ppb   | 5.9911  | 0.4   | 309067     |
| Mo 202.032 | 11.0438     | ppb   | 0.9641  | 8.7   | 75.8300    |
| Na 330.237 | 720.243     | ppb   | 173.887 | 24.1  | 16.6545    |
| Ni 231.604 | 44.8644     | ppb   | 1.6884  | 3.8   | 116.734    |
| Pb 220.353 | 121.352     | ppb   | 1.5455  | 1.3   | 202.423    |
| Sb 206.834 | 2.6467      | ppb   | 1.4087  | 53.2  | 1.0243     |
| Se 196.026 | -1.0329     | ppb   | 6.6285  | 641.7 | 7.3899     |
| Sn 189.925 | 15.5757     | ppb   | 4.6976  | 30.2  | -0.1864    |
| Sr 216.596 | 24.7490     | ppb   | 0.4021  | 1.6   | 369.728    |
| Ti 334.941 | 8428.86     | ppb   | 52.6804 | 0.6   | 2115344    |
| Tl 190.794 | 3.3562      | ppb   | 8.9852  | 267.7 | -17.3120   |
| V 292.401  | 228.158     | ppb   | 1.7744  | 0.8   | 5481.83    |
| Zn 206.200 | 331.315     | ppb   | 4.5418  | 1.4   | 436.789    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-28-a (Samp) 5/28/2013, 8:30:36 PM Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.1711u                 | -0.9393u | -1.1123u |
| Al 308.215 | 194339                   | 194535   | 193500   |
| As 188.980 | -0.2613                  | 0.3566   | 5.6601   |
| B 249.678  | 4.1802u                  | 3.4076u  | 3.8767u  |
| Ba 389.178 | 795.410                  | 796.130  | 794.028  |
| Be 313.042 | 5.5686                   | 5.5553   | 5.5450   |
| Ca 370.602 | 647.8u                   | 662.8u   | 676.2u   |
| Cd 226.502 | -0.7013                  | -0.7979  | -0.7539  |
| Co 228.615 | 34.1548                  | 34.6193  | 34.5892  |
| Cr 267.716 | 45.0389                  | 44.9796  | 44.5559  |
| Cu 324.754 | 79.2916                  | 78.6521  | 77.8347  |
| Fe 271.441 | 85240.1                  | 85176.5  | 84635.9  |
| K 766.491  | 29601.6                  | 29439.7  | 29408.5  |
| Mg 279.078 | 19489.8                  | 19434.9  | 19353.4  |
| Mn 257.610 | 1323.04                  | 1319.99  | 1312.79  |
| Mo 202.032 | 3.3111                   | 2.1456   | 3.0818   |
| Na 330.237 | 616.050u                 | 470.358u | 342.838u |
| Ni 231.604 | 25.2389                  | 23.9269  | 25.6348  |
| Pb 220.353 | 71.9233                  | 82.5349  | 73.5848  |
| Sb 206.834 | 1.8051                   | -3.3837u | 1.8023   |
| Se 196.026 | 7.9620                   | 0.7699   | 3.6074   |
| Sn 189.925 | 13.3928                  | 18.0226  | 18.7547  |
| Sr 216.596 | 37.1603                  | 36.7734  | 37.5372  |
| Ti 334.941 | 7131.83                  | 7144.65  | 7102.32  |
| Tl 190.794 | -1.6717u                 | 0.4554u  | 0.2900u  |
| V 292.401  | 173.502                  | 172.863  | 172.815  |
| Zn 206.200 | 362.231                  | 368.435  | 363.995  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.0742     | ppb   | 0.1205  | 11.2   | -115.839   |
| Al 308.215 | 194125      | ppb   | 549.587 | 0.3    | 1145455    |
| As 188.980 | 1.9185      | ppb   | 3.2551  | 169.7  | -1.9063    |
| B 249.678  | 3.8215      | ppb   | 0.3892  | 10.2   | -1.5872    |
| Ba 389.178 | 795.189     | ppb   | 1.0686  | 0.1    | 14598.5    |
| Be 313.042 | 5.5563      | ppb   | 0.0118  | 0.2    | 9569.09    |
| Ca 370.602 | 662.3       | ppb   | 14.19   | 2.1    | -517.3     |
| Cd 226.502 | -0.7510     | ppb   | 0.0483  | 6.4    | 210.974    |
| Co 228.615 | 34.4544     | ppb   | 0.2599  | 0.8    | 549.946    |
| Cr 267.716 | 44.8581     | ppb   | 0.2634  | 0.6    | 2074.13    |
| Cu 324.754 | 78.5928     | ppb   | 0.7303  | 0.9    | 4373.59    |
| Fe 271.441 | 85017.5     | ppb   | 331.993 | 0.4    | 129977     |
| K 766.491  | 29483.3     | ppb   | 103.648 | 0.4    | 956690     |
| Mg 279.078 | 19426.0     | ppb   | 68.6185 | 0.4    | 40870.1    |
| Mn 257.610 | 1318.61     | ppb   | 5.2648  | 0.4    | 287673     |
| Mo 202.032 | 2.8462      | ppb   | 0.6175  | 21.7   | 23.4889    |
| Na 330.237 | 476.415     | ppb   | 136.707 | 28.7   | 16.5708    |
| Ni 231.604 | 24.9336     | ppb   | 0.8940  | 3.6    | 64.4467    |
| Pb 220.353 | 76.0143     | ppb   | 5.7078  | 7.5    | 135.063    |
| Sb 206.834 | 0.0745      | ppb   | 2.9950  | 4017.5 | -2.5835    |
| Se 196.026 | 4.1131      | ppb   | 3.6226  | 88.1   | 9.6949     |
| Sn 189.925 | 16.7234     | ppb   | 2.9075  | 17.4   | 0.7474     |
| Sr 216.596 | 37.1570     | ppb   | 0.3819  | 1.0    | 475.320    |
| Ti 334.941 | 7126.27     | ppb   | 21.7106 | 0.3    | 1788414    |
| Tl 190.794 | -0.3088     | ppb   | 1.1832  | 383.2  | -18.8584   |
| V 292.401  | 173.060     | ppb   | 0.3836  | 0.2    | 4167.16    |
| Zn 206.200 | 364.887     | ppb   | 3.1970  | 0.8    | 489.449    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-29-a (Samp)      5/28/2013, 8:44:22 PM      Rack 2, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.7877u                 | -1.2130u | -1.5694u |
| Al 308.215 | 248134                   | 247159   | 245419   |
| As 188.980 | 3.9036                   | 1.1373   | 0.4505   |
| B 249.678  | 10.5207u                 | 9.8438u  | 10.2775u |
| Ba 389.178 | 595.920                  | 595.661  | 593.989  |
| Be 313.042 | 4.6651                   | 4.6501   | 4.6267   |
| Ca 370.602 | 3114                     | 3118     | 3117     |
| Cd 226.502 | -0.3877                  | -0.4434  | -0.4078  |
| Co 228.615 | 43.2805                  | 44.3644  | 44.4144  |
| Cr 267.716 | 60.4503                  | 60.3360  | 60.0453  |
| Cu 324.754 | 96.7617                  | 96.2025  | 94.5863  |
| Fe 271.441 | 89767.8                  | 89462.7  | 88903.6  |
| K 766.491  | 28867.9                  | 28791.5  | 28621.6  |
| Mg 279.078 | 20779.4                  | 20662.1  | 20552.3  |
| Mn 257.610 | 1442.63                  | 1436.26  | 1427.60  |
| Mo 202.032 | 2.5072                   | 3.3266   | 1.4993   |
| Na 330.237 | 333.674u                 | 167.215u | 397.859u |
| Ni 231.604 | 39.3954                  | 37.7326  | 39.4159  |
| Pb 220.353 | 106.917                  | 101.474  | 106.742  |
| Sb 206.834 | 9.5303                   | 6.3996   | 2.8022   |
| Se 196.026 | -5.3678u                 | 0.7237   | -8.4448u |
| Sn 189.925 | 15.6689                  | 21.7300  | 14.3255  |
| Sr 216.596 | 28.3988                  | 28.4468  | 28.3687  |
| Ti 334.941 | 6194.14                  | 6189.86  | 6156.55  |
| Tl 190.794 | 3.4557u                  | 2.5064u  | 8.0369   |
| V 292.401  | 181.407                  | 181.247  | 180.169  |
| Zn 206.200 | 288.935                  | 283.542  | 284.588  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.1901     | ppb   | 0.3914  | 32.9  | -122.896   |
| Al 308.215 | 246904      | ppb   | 1375.64 | 0.6   | 1456841    |
| As 188.980 | 1.8304      | ppb   | 1.8279  | 99.9  | -1.5097    |
| B 249.678  | 10.2140     | ppb   | 0.3429  | 3.4   | 76.1143    |
| Ba 389.178 | 595.190     | ppb   | 1.0484  | 0.2   | 10965.6    |
| Be 313.042 | 4.6473      | ppb   | 0.0193  | 0.4   | 7969.64    |
| Ca 370.602 | 3116        | ppb   | 1.867   | 0.1   | 3885       |
| Cd 226.502 | -0.4130     | ppb   | 0.0282  | 6.8   | 233.267    |
| Co 228.615 | 44.0198     | ppb   | 0.6407  | 1.5   | 637.007    |
| Cr 267.716 | 60.2772     | ppb   | 0.2088  | 0.3   | 2772.23    |
| Cu 324.754 | 95.8502     | ppb   | 1.1297  | 1.2   | 5295.59    |
| Fe 271.441 | 89378.0     | ppb   | 438.286 | 0.5   | 136643     |
| K 766.491  | 28760.3     | ppb   | 126.055 | 0.4   | 933238     |
| Mg 279.078 | 20664.6     | ppb   | 113.548 | 0.5   | 43461.2    |
| Mn 257.610 | 1435.50     | ppb   | 7.5433  | 0.5   | 313161     |
| Mo 202.032 | 2.4444      | ppb   | 0.9153  | 37.4  | 20.6483    |
| Na 330.237 | 299.583     | ppb   | 119.041 | 39.7  | 11.3182    |
| Ni 231.604 | 38.8480     | ppb   | 0.9660  | 2.5   | 100.640    |
| Pb 220.353 | 105.044     | ppb   | 3.0931  | 2.9   | 178.106    |
| Sb 206.834 | 6.2440      | ppb   | 3.3667  | 53.9  | 3.5509     |
| Se 196.026 | -4.3630     | ppb   | 4.6661  | 106.9 | 5.7557     |
| Sn 189.925 | 17.2415     | ppb   | 3.9448  | 22.9  | 1.1696     |
| Sr 216.596 | 28.4048     | ppb   | 0.0394  | 0.1   | 388.421    |
| Ti 334.941 | 6180.19     | ppb   | 20.5793 | 0.3   | 1550997    |
| Tl 190.794 | 4.6663      | ppb   | 2.9573  | 63.4  | -15.0590   |
| V 292.401  | 180.941     | ppb   | 0.6730  | 0.4   | 4339.59    |
| Zn 206.200 | 285.688     | ppb   | 2.8690  | 1.0   | 377.435    |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-30-a (Samp) 5/28/2013, 8:48:57 PM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.4011u                 | -1.5843u | -1.7032u |
| Al 308.215 | 351725                   | 352781   | 354073   |
| As 188.980 | 10.2677                  | 4.8164   | 10.6975  |
| B 249.678  | 10.4536u                 | 10.6866u | 9.9336u  |
| Ba 389.178 | 1199.44                  | 1199.22  | 1206.67  |
| Be 313.042 | 7.7862                   | 7.7975   | 7.8323   |
| Ca 370.602 | 3461                     | 3449     | 3431     |
| Cd 226.502 | -0.8671                  | -0.8993  | -0.8543  |
| Co 228.615 | 73.9831                  | 72.9247  | 73.3888  |
| Cr 267.716 | 116.193                  | 115.753  | 116.597  |
| Cu 324.754 | 132.267                  | 133.923  | 134.799  |
| Fe 271.441 | 160437                   | 160553   | 161453   |
| K 766.491  | 53230.4x                 | 53475.0x | 53862.2x |
| Mg 279.078 | 41362.7                  | 41381.2  | 41519.2  |
| Mn 257.610 | 2217.16                  | 2219.07  | 2230.44  |
| Mo 202.032 | 3.8974                   | 2.5728   | 3.8798   |
| Na 330.237 | 389.834u                 | 689.060u | 632.264u |
| Ni 231.604 | 66.2094                  | 66.1049  | 68.0372  |
| Pb 220.353 | 178.044                  | 173.732  | 176.162  |
| Sb 206.834 | 14.6071                  | 5.2329   | 2.9154   |
| Se 196.026 | -3.2365u                 | -8.1860u | 1.3496   |
| Sn 189.925 | 19.0898                  | 14.6890  | 20.6459  |
| Sr 216.596 | 35.7591                  | 36.1692  | 35.7359  |
| Ti 334.941 | 11186.6                  | 11206.1  | 11282.3  |
| Tl 190.794 | 4.3803u                  | 2.0456u  | 4.5225u  |
| V 292.401  | 326.837                  | 326.662  | 328.911  |
| Zn 206.200 | 466.382                  | 466.638  | 466.232  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.5629b    | ppb   | 0.1522  | 9.7   | -145.425   |
| Al 308.215 | 352860b     | ppb   | 1176.32 | 0.3   | 2081935    |
| As 188.980 | 8.5939b     | ppb   | 3.2784  | 38.1  | 2.7995     |
| B 249.678  | 10.3579b    | ppb   | 0.3855  | 3.7   | -55.6728   |
| Ba 389.178 | 1201.78b    | ppb   | 4.2366  | 0.4   | 22129.0    |
| Be 313.042 | 7.8053b     | ppb   | 0.0240  | 0.3   | 13545.1    |
| Ca 370.602 | 3447b       | ppb   | 15.15   | 0.4   | 2678       |
| Cd 226.502 | -0.8736b    | ppb   | 0.0232  | 2.7   | 400.424    |
| Co 228.615 | 73.4322b    | ppb   | 0.5305  | 0.7   | 1080.80    |
| Cr 267.716 | 116.181b    | ppb   | 0.4225  | 0.4   | 5330.55    |
| Cu 324.754 | 133.663b    | ppb   | 1.2858  | 1.0   | 7333.99    |
| Fe 271.441 | 160814b     | ppb   | 556.231 | 0.3   | 245840     |
| K 766.491  | 53522.5xb   | ppb   | 318.545 | 0.6   | 1736487    |
| Mg 279.078 | 41421.0b    | ppb   | 85.4965 | 0.2   | 87131.4    |
| Mn 257.610 | 2222.22b    | ppb   | 7.1776  | 0.3   | 484902     |
| Mo 202.032 | 3.4500b     | ppb   | 0.7597  | 22.0  | 23.7403    |
| Na 330.237 | 570.386b    | ppb   | 158.921 | 27.9  | -14.5739   |
| Ni 231.604 | 66.7839b    | ppb   | 1.0867  | 1.6   | 174.542    |
| Pb 220.353 | 175.979b    | ppb   | 2.1618  | 1.2   | 284.032    |
| Sb 206.834 | 7.5851b     | ppb   | 6.1906  | 81.6  | 6.8866     |
| Se 196.026 | -3.3576b    | ppb   | 4.7690  | 142.0 | 6.6451     |
| Sn 189.925 | 18.1415b    | ppb   | 3.0896  | 17.0  | 1.8993     |
| Sr 216.596 | 35.8881b    | ppb   | 0.2437  | 0.7   | 526.446    |
| Ti 334.941 | 11225.0b    | ppb   | 50.5657 | 0.5   | 2817114    |
| Tl 190.794 | 3.6495b     | ppb   | 1.3908  | 38.1  | -19.7688   |
| V 292.401  | 327.470b    | ppb   | 1.2511  | 0.4   | 7867.36    |
| Zn 206.200 | 466.417b    | ppb   | 0.2951  | 0.6   | 612.950    |

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**680-90570-a-31-a (Samp)**      **5/28/2013, 8:53:33 PM**      **Rack 2, Tube 29****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -1.9867u                 | -1.7846u  | -2.3872u  |
| Al 308.215 | 298533                   | 302449    | 296828    |
| As 188.980 | 9.2141                   | 10.3090   | 20.6129   |
| B 249.678  | 8.0914u                  | 8.1545u   | 8.2236u   |
| Ba 389.178 | 922.705                  | 932.115   | 914.024   |
| Be 313.042 | 8.5037                   | 8.6310    | 8.4586    |
| Ca 370.602 | 1237u                    | 1244u     | 1260u     |
| Cd 226.502 | -0.5390                  | -0.4697   | -0.5702   |
| Co 228.615 | 70.1972                  | 72.8501   | 71.0776   |
| Cr 267.716 | 114.517                  | 116.572   | 114.251   |
| Cu 324.754 | 93.0873                  | 92.0107   | 92.1663   |
| Fe 271.441 | 129058                   | 131000    | 128319    |
| K 766.491  | 42633.1x                 | 43085.1x  | 42336.9x  |
| Mg 279.078 | 36590.4                  | 37096.3   | 36402.0   |
| Mn 257.610 | 2586.93                  | 2625.97   | 2575.73   |
| Mo 202.032 | 1.9323                   | 3.4741    | 1.4471    |
| Na 330.237 | 169.058u                 | 574.155u  | 546.310u  |
| Ni 231.604 | 52.6293                  | 54.4108   | 52.7046   |
| Pb 220.353 | 153.954                  | 156.948   | 149.205   |
| Sb 206.834 | 1.3074                   | 15.4655   | 1.3946    |
| Se 196.026 | -0.7305                  | -16.9733u | -16.0192u |
| Sn 189.925 | 19.3880                  | 20.4074   | 16.6278   |
| Sr 216.596 | 32.1068                  | 33.1096   | 32.1479   |
| Ti 334.941 | 7977.96                  | 8095.12   | 7923.38   |
| Tl 190.794 | 1.3509u                  | 4.2142u   | 2.7447u   |
| V 292.401  | 231.558                  | 234.902   | 229.963   |
| Zn 206.200 | 323.368                  | 327.228   | 325.014   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.0529b    | ppb   | 0.3067  | 14.9  | -178.847   |
| Al 308.215 | 299270b     | ppb   | 2881.81 | 1.0   | 1765780    |
| As 188.980 | 13.3787b    | ppb   | 6.2889  | 47.0  | 5.4228     |
| B 249.678  | 8.1565b     | ppb   | 0.0661  | 0.8   | -26.5385   |
| Ba 389.178 | 922.948b    | ppb   | 9.0479  | 1.0   | 17008.9    |
| Be 313.042 | 8.5311b     | ppb   | 0.0894  | 1.0   | 14825.6    |
| Ca 370.602 | 1247b       | ppb   | 11.71   | 0.9   | -1264      |
| Cd 226.502 | -0.5263b    | ppb   | 0.0514  | 9.8   | 331.888    |
| Co 228.615 | 71.3750b    | ppb   | 1.3512  | 1.9   | 986.085    |
| Cr 267.716 | 115.114b    | ppb   | 1.2705  | 1.1   | 5271.35    |
| Cu 324.754 | 92.4215b    | ppb   | 0.5819  | 0.6   | 5124.77    |
| Fe 271.441 | 129459b     | ppb   | 1384.69 | 1.1   | 197912     |
| K 766.491  | 42685.0xb   | ppb   | 376.828 | 0.9   | 1384935    |
| Mg 279.078 | 36696.2b    | ppb   | 359.087 | 1.0   | 77187.8    |
| Mn 257.610 | 2596.21b    | ppb   | 26.3755 | 1.0   | 566262     |
| Mo 202.032 | 2.2845b     | ppb   | 1.0584  | 46.3  | 17.6962    |
| Na 330.237 | 429.841b    | ppb   | 226.273 | 52.6  | -0.0636    |
| Ni 231.604 | 53.2482b    | ppb   | 1.0075  | 1.9   | 138.778    |
| Pb 220.353 | 153.369b    | ppb   | 3.9047  | 2.5   | 250.938    |
| Sb 206.834 | 6.0558b     | ppb   | 8.1491  | 134.6 | 4.7447     |
| Se 196.026 | -11.2410b   | ppb   | 9.1148  | 81.1  | 2.9284     |
| Sn 189.925 | 18.8077b    | ppb   | 1.9555  | 10.4  | 2.4413     |
| Sr 216.596 | 32.4547b    | ppb   | 0.5675  | 1.7   | 464.152    |
| Ti 334.941 | 7998.82b    | ppb   | 87.7509 | 1.1   | 2007464    |
| Tl 190.794 | 2.7699b     | ppb   | 1.4318  | 51.7  | -19.0450   |
| V 292.401  | 232.141b    | ppb   | 2.5207  | 1.1   | 5571.54    |
| Zn 206.200 | 325.203b    | ppb   | 1.9368  | 0.6   | 429.011    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90570-a-32-a (Samp) 5/28/2013, 8:58:08 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -2.4226u                 | -1.6065u  | -2.5523u |
| Al 308.215 | 255022                   | 254853    | 256167   |
| As 188.980 | 1.7384                   | 8.0215    | 3.9658   |
| B 249.678  | 4.9155u                  | 5.8185u   | 5.7266u  |
| Ba 389.178 | 1155.62                  | 1154.28   | 1158.31  |
| Be 313.042 | 6.4278                   | 6.4324    | 6.4617   |
| Ca 370.602 | 4394                     | 4410      | 4442     |
| Cd 226.502 | -1.5400                  | -1.6495   | -1.5882  |
| Co 228.615 | 72.3683                  | 71.1907   | 71.2916  |
| Cr 267.716 | 161.566                  | 161.307   | 162.430  |
| Cu 324.754 | 249.388                  | 249.850   | 251.768  |
| Fe 271.441 | 160858                   | 160802    | 161506   |
| K 766.491  | 68821.2x                 | 69033.8x  | 69440.4x |
| Mg 279.078 | 53966.1                  | 53915.6   | 54256.8  |
| Mn 257.610 | 2399.76                  | 2396.98   | 2409.05  |
| Mo 202.032 | 4.1972                   | 3.6218    | 3.2749   |
| Na 330.237 | 624.485u                 | 849.724u  | 577.829u |
| Ni 231.604 | 60.8229                  | 60.8115   | 61.0061  |
| Pb 220.353 | 92.6692                  | 95.7210   | 95.3281  |
| Sb 206.834 | 9.1143                   | 2.7868    | 8.7703   |
| Se 196.026 | 4.6624                   | -11.6253u | -1.7391  |
| Sn 189.925 | 16.1859                  | 18.3210   | 18.0481  |
| Sr 216.596 | 44.2494                  | 45.0021   | 44.3506  |
| Ti 334.941 | 13935.0                  | 13968.1   | 14053.8  |
| Tl 190.794 | 5.0148u                  | 11.3509   | 2.1332u  |
| V 292.401  | 376.096                  | 376.568   | 377.718  |
| Zn 206.200 | 556.298                  | 558.419   | 562.445  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.1938b    | ppb   | 0.5127  | 23.4  | -189.916   |
| Al 308.215 | 255347b     | ppb   | 714.853 | 0.3   | 1506621    |
| As 188.980 | 4.5752b     | ppb   | 3.1856  | 69.6  | -0.4804    |
| B 249.678  | 5.4869b     | ppb   | 0.4969  | 9.1   | -121.517   |
| Ba 389.178 | 1156.07b    | ppb   | 2.0541  | 0.2   | 21323.3    |
| Be 313.042 | 6.4406b     | ppb   | 0.0184  | 0.3   | 11124.6    |
| Ca 370.602 | 4415b       | ppb   | 24.31   | 0.6   | 5563       |
| Cd 226.502 | -1.5926b    | ppb   | 0.0549  | 3.4   | 377.419    |
| Co 228.615 | 71.6169b    | ppb   | 0.6527  | 0.9   | 1120.93    |
| Cr 267.716 | 161.768b    | ppb   | 0.5882  | 0.4   | 7398.47    |
| Cu 324.754 | 250.335b    | ppb   | 1.2621  | 0.5   | 13558.2    |
| Fe 271.441 | 161055b     | ppb   | 391.461 | 0.2   | 246209     |
| K 766.491  | 69098.5xb   | ppb   | 314.639 | 0.5   | 2241747    |
| Mg 279.078 | 54046.2b    | ppb   | 184.142 | 0.3   | 113738     |
| Mn 257.610 | 2401.93b    | ppb   | 6.3212  | 0.3   | 524151     |
| Mo 202.032 | 3.6980b     | ppb   | 0.4659  | 12.6  | 25.2657    |
| Na 330.237 | 684.013b    | ppb   | 145.394 | 21.3  | -19.6881   |
| Ni 231.604 | 60.8801b    | ppb   | 0.1092  | 0.2   | 159.187    |
| Pb 220.353 | 94.5727b    | ppb   | 1.6602  | 1.8   | 163.350    |
| Sb 206.834 | 6.8905b     | ppb   | 3.5581  | 51.6  | 6.5976     |
| Se 196.026 | -2.9007b    | ppb   | 8.2057  | 282.9 | 6.9027     |
| Sn 189.925 | 17.5183b    | ppb   | 1.1620  | 6.6   | 1.3929     |
| Sr 216.596 | 44.5340b    | ppb   | 0.4085  | 0.9   | 616.400    |
| Ti 334.941 | 13985.7b    | ppb   | 61.3121 | 0.4   | 3509963    |
| Tl 190.794 | 6.1663b     | ppb   | 4.7155  | 76.5  | -17.7717   |
| V 292.401  | 376.794b    | ppb   | 0.8346  | 0.2   | 9068.87    |
| Zn 206.200 | 559.054b    | ppb   | 3.1227  | 0.6   | 733.286    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-1-a (Samp) 5/28/2013, 9:02:43 PM Rack 2, Tube 31

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.4126u                 | -2.4911u | -1.9508u |
| Al 308.215 | 101192                   | 100038   | 100039   |
| As 188.980 | 54.1907                  | 56.8500  | 53.0483  |
| B 249.678  | 9.5767u                  | 9.4664u  | 9.7945u  |
| Ba 389.178 | 431.231                  | 430.774  | 429.009  |
| Be 313.042 | 2.5999                   | 2.5936   | 2.5993   |
| Ca 370.602 | 6028                     | 6033     | 6021     |
| Cd 226.502 | -2.0701                  | -2.0838  | -2.0545  |
| Co 228.615 | 14.3752                  | 14.0203  | 14.4341  |
| Cr 267.716 | 159.205                  | 159.149  | 158.684  |
| Cu 324.754 | 60.5192                  | 61.0988  | 60.6247  |
| Fe 271.441 | 159908                   | 159650   | 159431   |
| K 766.491  | 2332.86                  | 2322.60  | 2326.18  |
| Mg 279.078 | 6236.55                  | 6244.84  | 6209.48  |
| Mn 257.610 | 240.335                  | 240.405  | 240.179  |
| Mo 202.032 | 5.4637                   | 5.6101   | 5.8343   |
| Na 330.237 | 1010.15u                 | 1134.51  | 1095.61  |
| Ni 231.604 | 43.1301                  | 43.3711  | 43.1980  |
| Pb 220.353 | 75.5149                  | 79.7091  | 81.8395  |
| Sb 206.834 | 3.8566                   | 4.4878   | -1.8901  |
| Se 196.026 | -4.0540u                 | -3.4262u | 2.1984   |
| Sn 189.925 | 12.7948                  | 14.6478  | 14.7148  |
| Sr 216.596 | 64.9084                  | 63.8753  | 64.5447  |
| Ti 334.941 | 1014.26                  | 1014.71  | 1011.88  |
| Tl 190.794 | 5.5505u                  | 0.8055u  | 1.1639u  |
| V 292.401  | 296.227                  | 295.548  | 295.592  |
| Zn 206.200 | 88.0848                  | 86.4448  | 86.8475  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.9515     | ppb   | 0.5392  | 27.6  | -183.486   |
| Al 308.215 | 100423      | ppb   | 665.687 | 0.7   | 592612     |
| As 188.980 | 54.6963     | ppb   | 1.9506  | 3.6   | 27.6880    |
| B 249.678  | 9.6125      | ppb   | 0.1669  | 1.7   | -63.6254   |
| Ba 389.178 | 430.338     | ppb   | 1.1736  | 0.3   | 8014.04    |
| Be 313.042 | 2.5976      | ppb   | 0.0035  | 0.1   | 4335.43    |
| Ca 370.602 | 6027        | ppb   | 6.072   | 0.1   | 4408       |
| Cd 226.502 | -2.0695     | ppb   | 0.0147  | 0.7   | 357.523    |
| Co 228.615 | 14.2765     | ppb   | 0.2238  | 1.6   | 192.009    |
| Cr 267.716 | 159.013     | ppb   | 0.2862  | 0.2   | 7240.64    |
| Cu 324.754 | 60.7476     | ppb   | 0.3087  | 0.5   | 3443.94    |
| Fe 271.441 | 159663      | ppb   | 238.990 | 0.1   | 244071     |
| K 766.491  | 2327.21     | ppb   | 5.2033  | 0.2   | 75787.6    |
| Mg 279.078 | 6230.29     | ppb   | 18.4955 | 0.3   | 13145.8    |
| Mn 257.610 | 240.306     | ppb   | 0.1158  | 0.0   | 52843.5    |
| Mo 202.032 | 5.6360      | ppb   | 0.1867  | 3.3   | 38.1705    |
| Na 330.237 | 1080.09     | ppb   | 63.6149 | 5.9   | 48.3042    |
| Ni 231.604 | 43.2331     | ppb   | 0.1242  | 0.3   | 113.488    |
| Pb 220.353 | 79.0212     | ppb   | 3.2179  | 4.1   | 148.497    |
| Sb 206.834 | 2.1514      | ppb   | 3.5143  | 163.3 | 1.9464     |
| Se 196.026 | -1.7606     | ppb   | 3.4429  | 195.6 | 6.9261     |
| Sn 189.925 | 14.0525     | ppb   | 1.0897  | 7.8   | -1.4238    |
| Sr 216.596 | 64.4428     | ppb   | 0.5240  | 0.8   | 821.878    |
| Ti 334.941 | 1013.62     | ppb   | 1.5236  | 0.2   | 254362     |
| Tl 190.794 | 2.5067      | ppb   | 2.6421  | 105.4 | -20.0910   |
| V 292.401  | 295.789     | ppb   | 0.3795  | 0.1   | 6979.15    |
| Zn 206.200 | 87.1257     | ppb   | 0.8546  | 1.0   | 519.506    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-2-a (Samp) 5/28/2013, 9:07:18 PM Rack 2, Tube 32

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.0052u                 | -1.9322u | -1.6563u |
| Al 308.215 | 114459                   | 114210   | 114555   |
| As 188.980 | 82.0017                  | 73.1621  | 81.3490  |
| B 249.678  | 8.9395u                  | 9.1782u  | 10.4066u |
| Ba 389.178 | 435.230                  | 432.966  | 435.819  |
| Be 313.042 | 4.1039                   | 4.1130   | 4.1033   |
| Ca 370.602 | 5470u                    | 5501u    | 5475u    |
| Cd 226.502 | -2.9809                  | -2.8286  | -2.6384  |
| Co 228.615 | 46.7613                  | 45.8315  | 46.2971  |
| Cr 267.716 | 203.552                  | 203.406  | 204.004  |
| Cu 324.754 | 75.3245                  | 74.3671  | 74.5491  |
| Fe 271.441 | 235740                   | 235178   | 236053   |
| K 766.491  | 2348.11                  | 2343.75  | 2342.41  |
| Mg 279.078 | 6849.99                  | 6826.49  | 6838.74  |
| Mn 257.610 | 484.829                  | 483.327  | 484.994  |
| Mo 202.032 | 6.8362                   | 7.4091   | 6.8662   |
| Na 330.237 | 1013.34u                 | 1156.50u | 929.661u |
| Ni 231.604 | 40.9216                  | 38.4004  | 39.9834  |
| Pb 220.353 | 122.816                  | 127.490  | 120.646  |
| Sb 206.834 | 7.8077                   | 2.7337   | 2.1329   |
| Se 196.026 | -9.3269u                 | -2.9551u | -2.8900u |
| Sn 189.925 | 15.3184                  | 16.5671  | 20.2901  |
| Sr 216.596 | 66.9887                  | 66.0729  | 65.3704  |
| Ti 334.941 | 1028.96                  | 1026.39  | 1027.32  |
| Tl 190.794 | 3.6655u                  | -0.5815u | 6.0041u  |
| V 292.401  | 415.929                  | 414.832  | 415.853  |
| Zn 206.200 | 96.6373                  | 96.2641  | 97.7986  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.8646     | ppb   | 0.1840  | 9.9   | -176.021   |
| Al 308.215 | 114408      | ppb   | 177.917 | 0.2   | 675100     |
| As 188.980 | 78.8376     | ppb   | 4.9260  | 6.2   | 41.3627    |
| B 249.678  | 9.5081      | ppb   | 0.7872  | 8.3   | -207.339   |
| Ba 389.178 | 434.672     | ppb   | 1.5061  | 0.3   | 8179.16    |
| Be 313.042 | 4.1067      | ppb   | 0.0054  | 0.1   | 6994.69    |
| Ca 370.602 | 5482        | ppb   | 16.66   | 0.3   | -523.8     |
| Cd 226.502 | -2.8160     | ppb   | 0.1716  | 6.1   | 526.621    |
| Co 228.615 | 46.2966     | ppb   | 0.4649  | 1.0   | 555.078    |
| Cr 267.716 | 203.654     | ppb   | 0.3119  | 0.2   | 9278.32    |
| Cu 324.754 | 74.7469     | ppb   | 0.5084  | 0.7   | 4213.62    |
| Fe 271.441 | 235657      | ppb   | 443.621 | 0.2   | 360233     |
| K 766.491  | 2344.76     | ppb   | 2.9785  | 0.1   | 76356.7    |
| Mg 279.078 | 6838.41     | ppb   | 11.7531 | 0.2   | 14431.9    |
| Mn 257.610 | 484.384     | ppb   | 0.9190  | 0.2   | 106220     |
| Mo 202.032 | 7.0371      | ppb   | 0.3225  | 4.6   | 43.6958    |
| Na 330.237 | 1033.17     | ppb   | 114.714 | 11.1  | 25.2380    |
| Ni 231.604 | 39.7685     | ppb   | 1.2743  | 3.2   | 105.997    |
| Pb 220.353 | 123.650     | ppb   | 3.4975  | 2.8   | 219.418    |
| Sb 206.834 | 4.2248      | ppb   | 3.1174  | 73.8  | 5.9702     |
| Se 196.026 | -5.0573     | ppb   | 3.6977  | 73.1  | 5.6823     |
| Sn 189.925 | 17.3919     | ppb   | 2.5864  | 14.9  | 1.2892     |
| Sr 216.596 | 66.1440     | ppb   | 0.8115  | 1.2   | 904.353    |
| Ti 334.941 | 1027.56     | ppb   | 1.3023  | 0.1   | 257872     |
| Tl 190.794 | 3.0293      | ppb   | 3.3386  | 110.2 | -23.6095   |
| V 292.401  | 415.538     | ppb   | 0.6130  | 0.1   | 9806.70    |
| Zn 206.200 | 96.9000     | ppb   | 0.8993  | 0.8   | 132.758    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-3-a (Samp) 5/28/2013, 9:12:04 PM Rack 2, Tube 33

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.9000u                 | -1.5599u | -1.4700u |
| Al 308.215 | 101750                   | 101906   | 101430   |
| As 188.980 | 83.1820                  | 93.0743  | 91.1300  |
| B 249.678  | 7.7975u                  | 7.4917u  | 6.5596u  |
| Ba 389.178 | 291.166                  | 291.506  | 289.836  |
| Be 313.042 | 2.6467                   | 2.6455   | 2.6344   |
| Ca 370.602 | 4980                     | 4969     | 4983     |
| Cd 226.502 | -2.6714                  | -2.3701  | -2.5435  |
| Co 228.615 | 10.0817                  | 10.1415  | 9.2723   |
| Cr 267.716 | 208.237                  | 207.476  | 207.440  |
| Cu 324.754 | 70.2478                  | 70.1509  | 71.6552  |
| Fe 271.441 | 195869                   | 195387   | 195354   |
| K 766.491  | 1649.49                  | 1651.33  | 1654.52  |
| Mg 279.078 | 5978.63                  | 5947.68  | 5940.57  |
| Mn 257.610 | 116.043                  | 115.445  | 115.560  |
| Mo 202.032 | 8.0510                   | 7.0331   | 7.8716   |
| Na 330.237 | 1004.26u                 | 857.244u | 972.930u |
| Ni 231.604 | 27.2940                  | 28.3895  | 25.6235  |
| Pb 220.353 | 58.1090                  | 62.9576  | 58.4084  |
| Sb 206.834 | 0.2801                   | 5.0423   | 1.7120   |
| Se 196.026 | 0.3172                   | -8.0371u | -7.1979u |
| Sn 189.925 | 16.7488                  | 10.6927  | 17.7750  |
| Sr 216.596 | 60.1858                  | 60.2619  | 58.9647  |
| Ti 334.941 | 839.663                  | 838.521  | 838.493  |
| Tl 190.794 | 2.6662u                  | 1.7502u  | 6.9209u  |
| V 292.401  | 400.932                  | 399.208  | 399.056  |
| Zn 206.200 | 77.2648                  | 77.8666  | 77.4417  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.6433     | ppb   | 0.2268  | 13.8  | -161.676   |
| Al 308.215 | 101695      | ppb   | 242.326 | 0.2   | 600102     |
| As 188.980 | 89.1288     | ppb   | 5.2410  | 5.9   | 47.6949    |
| B 249.678  | 7.2829      | ppb   | 0.6448  | 8.9   | -162.093   |
| Ba 389.178 | 290.836     | ppb   | 0.8825  | 0.3   | 5514.48    |
| Be 313.042 | 2.6422      | ppb   | 0.0068  | 0.3   | 4409.56    |
| Ca 370.602 | 4977        | ppb   | 7.072   | 0.1   | 417.6      |
| Cd 226.502 | -2.5283     | ppb   | 0.1512  | 6.0   | 433.818    |
| Co 228.615 | 9.8318      | ppb   | 0.4855  | 4.9   | 139.510    |
| Cr 267.716 | 207.718     | ppb   | 0.4505  | 0.2   | 9451.51    |
| Cu 324.754 | 70.6846     | ppb   | 0.8419  | 1.2   | 3984.39    |
| Fe 271.441 | 195537      | ppb   | 287.954 | 0.1   | 298905     |
| K 766.491  | 1651.78     | ppb   | 2.5472  | 0.2   | 53877.5    |
| Mg 279.078 | 5955.63     | ppb   | 20.2354 | 0.3   | 12575.7    |
| Mn 257.610 | 115.683     | ppb   | 0.3172  | 0.3   | 25783.2    |
| Mo 202.032 | 7.6519      | ppb   | 0.5434  | 7.1   | 49.5667    |
| Na 330.237 | 944.811     | ppb   | 77.4358 | 8.2   | 32.9287    |
| Ni 231.604 | 27.1023     | ppb   | 1.3929  | 5.1   | 72.3835    |
| Pb 220.353 | 59.8250     | ppb   | 2.7171  | 4.5   | 122.277    |
| Sb 206.834 | 2.3448      | ppb   | 2.4433  | 104.2 | 3.3046     |
| Se 196.026 | -4.9726     | ppb   | 4.6003  | 92.5  | 5.5050     |
| Sn 189.925 | 15.0722     | ppb   | 3.8273  | 25.4  | -0.5962    |
| Sr 216.596 | 59.8041     | ppb   | 0.7279  | 1.2   | 804.585    |
| Ti 334.941 | 838.893     | ppb   | 0.6674  | 0.1   | 210517     |
| Tl 190.794 | 3.7791      | ppb   | 2.7591  | 73.0  | -20.8546   |
| V 292.401  | 399.732     | ppb   | 1.0423  | 0.3   | 9430.40    |
| Zn 206.200 | 77.5244     | ppb   | 0.3993  | 0.4   | 517.185    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-4-a (Samp) 5/28/2013, 9:16:41 PM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.3636u                 | -0.3806u | -0.8661u |
| Al 308.215 | 73080.4                  | 73154.2  | 73370.6  |
| As 188.980 | 2643.83                  | 2623.74  | 2633.89  |
| B 249.678  | 103.111                  | 104.443  | 103.976  |
| Ba 389.178 | 395.486                  | 397.539  | 397.158  |
| Be 313.042 | 2.3067                   | 2.3176   | 2.3051   |
| Ca 370.602 | 50347                    | 50556    | 50497    |
| Cd 226.502 | -0.0285                  | -0.0417  | 0.0971   |
| Co 228.615 | 19.6390                  | 19.2722  | 19.3821  |
| Cr 267.716 | 2197.61                  | 2199.03  | 2203.46  |
| Cu 324.754 | 1802.17                  | 1819.74  | 1810.95  |
| Fe 271.441 | 127183                   | 127493   | 127424   |
| K 766.491  | 2802.68                  | 2804.38  | 2808.04  |
| Mg 279.078 | 9642.66                  | 9658.08  | 9682.13  |
| Mn 257.610 | 1049.30                  | 1051.80  | 1052.01  |
| Mo 202.032 | 11.7704                  | 11.7500  | 10.6704  |
| Na 330.237 | 544.314u                 | 694.653u | 799.675u |
| Ni 231.604 | 42.1092                  | 44.6560  | 43.3434  |
| Pb 220.353 | 133.981                  | 130.803  | 132.831  |
| Sb 206.834 | 27.7413                  | 17.7785  | 27.1330  |
| Se 196.026 | -0.2506                  | 4.2265   | -2.1730u |
| Sn 189.925 | 22.5730                  | 16.9122  | 18.9210  |
| Sr 216.596 | 183.261                  | 183.573  | 184.258  |
| Ti 334.941 | 1047.71                  | 1047.36  | 1051.17  |
| Tl 190.794 | 2.8267u                  | 4.3807u  | 0.0541u  |
| V 292.401  | 223.677                  | 225.110  | 224.246  |
| Zn 206.200 | 585.290                  | 576.410  | 580.401  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.8701     | ppb   | 0.4915  | 56.5  | -109.252   |
| Al 308.215 | 73201.7     | ppb   | 150.780 | 0.2   | 432024     |
| As 188.980 | 2633.82     | ppb   | 10.0413 | 0.4   | 1550.54    |
| B 249.678  | 103.843     | ppb   | 0.6759  | 0.7   | 1262.48    |
| Ba 389.178 | 396.728     | ppb   | 1.0920  | 0.3   | 7373.12    |
| Be 313.042 | 2.3098      | ppb   | 0.0068  | 0.3   | 3841.66    |
| Ca 370.602 | 50467       | ppb   | 107.8   | 0.2   | 95597      |
| Cd 226.502 | 0.0090      | ppb   | 0.0766  | 852.9 | 343.922    |
| Co 228.615 | 19.4311     | ppb   | 0.1882  | 1.0   | 255.941    |
| Cr 267.716 | 2200.03     | ppb   | 3.0473  | 0.1   | 99624.1    |
| Cu 324.754 | 1810.95     | ppb   | 8.7819  | 0.5   | 96811.0    |
| Fe 271.441 | 127367      | ppb   | 163.002 | 0.1   | 194709     |
| K 766.491  | 2805.03     | ppb   | 2.7406  | 0.1   | 91287.4    |
| Mg 279.078 | 9660.95     | ppb   | 19.8921 | 0.2   | 20358.0    |
| Mn 257.610 | 1051.03     | ppb   | 1.5083  | 0.1   | 229414     |
| Mo 202.032 | 11.3969     | ppb   | 0.6293  | 5.5   | 77.4821    |
| Na 330.237 | 679.547     | ppb   | 128.349 | 18.9  | 31.7314    |
| Ni 231.604 | 43.3695     | ppb   | 1.2736  | 2.9   | 113.159    |
| Pb 220.353 | 132.538     | ppb   | 1.6093  | 1.2   | 226.547    |
| Sb 206.834 | 24.2176     | ppb   | 5.5847  | 23.1  | 39.5229    |
| Se 196.026 | 0.6010      | ppb   | 3.2836  | 546.4 | 8.1204     |
| Sn 189.925 | 19.4687     | ppb   | 2.8699  | 14.7  | 3.0000     |
| Sr 216.596 | 183.697     | ppb   | 0.5099  | 0.3   | 2033.81    |
| Ti 334.941 | 1048.74     | ppb   | 2.1054  | 0.2   | 263187     |
| Tl 190.794 | 2.4205      | ppb   | 2.1917  | 90.5  | -18.7978   |
| V 292.401  | 224.344     | ppb   | 0.7215  | 0.3   | 5197.17    |
| Zn 206.200 | 580.700     | ppb   | 4.4480  | 0.8   | 754.615    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-5-a (Samp) 5/28/2013, 9:21:16 PM Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.6261u                 | -2.0879u | -1.9683u |
| Al 308.215 | 110236                   | 110321   | 110144   |
| As 188.980 | 213.608                  | 221.479  | 215.489  |
| B 249.678  | 100.418                  | 101.005  | 102.500  |
| Ba 389.178 | 291.478                  | 291.843  | 290.481  |
| Be 313.042 | 3.2404                   | 3.2675   | 3.2419   |
| Ca 370.602 | 6183                     | 6198     | 6178     |
| Cd 226.502 | -2.1409                  | -2.2859  | -2.0523  |
| Co 228.615 | 19.7370                  | 19.0036  | 19.8253  |
| Cr 267.716 | 340.188                  | 339.677  | 340.681  |
| Cu 324.754 | 139.316                  | 140.627  | 139.320  |
| Fe 271.441 | 187992                   | 187974   | 188184   |
| K 766.491  | 2177.47                  | 2175.86  | 2197.34  |
| Mg 279.078 | 5848.57                  | 5856.91  | 5862.50  |
| Mn 257.610 | 282.890                  | 282.912  | 283.314  |
| Mo 202.032 | 6.1619                   | 6.9601   | 7.2623   |
| Na 330.237 | 813.864u                 | 1200.31  | 909.732u |
| Ni 231.604 | 36.8538                  | 36.1264  | 36.9666  |
| Pb 220.353 | 96.5607                  | 98.4690  | 91.9715  |
| Sb 206.834 | 3.4694                   | 6.0979   | 10.9267  |
| Se 196.026 | 0.6146                   | -3.1269u | -1.0658  |
| Sn 189.925 | 59.3196                  | 57.7941  | 57.9290  |
| Sr 216.596 | 62.6703                  | 62.2850  | 62.0853  |
| Ti 334.941 | 1017.81                  | 1016.57  | 1013.89  |
| Tl 190.794 | 8.6610u                  | -0.6118u | 1.4281u  |
| V 292.401  | 349.767                  | 349.988  | 349.925  |
| Zn 206.200 | 94.6248                  | 94.3025  | 95.0520  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.8941     | ppb   | 0.2397  | 12.7  | -178.967   |
| Al 308.215 | 110234      | ppb   | 88.6789 | 0.1   | 650485     |
| As 188.980 | 216.858     | ppb   | 4.1103  | 1.9   | 123.261    |
| B 249.678  | 101.308     | ppb   | 1.0735  | 1.1   | 1114.79    |
| Ba 389.178 | 291.267     | ppb   | 0.7049  | 0.2   | 5513.65    |
| Be 313.042 | 3.2499      | ppb   | 0.0152  | 0.5   | 5485.41    |
| Ca 370.602 | 6187        | ppb   | 10.32   | 0.2   | 3296       |
| Cd 226.502 | -2.1597     | ppb   | 0.1179  | 5.5   | 426.908    |
| Co 228.615 | 19.5220     | ppb   | 0.4511  | 2.3   | 252.534    |
| Cr 267.716 | 340.182     | ppb   | 0.5020  | 0.1   | 15447.4    |
| Cu 324.754 | 139.754     | ppb   | 0.7560  | 0.5   | 7667.51    |
| Fe 271.441 | 188050      | ppb   | 116.533 | 0.1   | 287462     |
| K 766.491  | 2183.56     | ppb   | 11.9657 | 0.5   | 71127.7    |
| Mg 279.078 | 5855.99     | ppb   | 7.0069  | 0.1   | 12359.3    |
| Mn 257.610 | 283.039     | ppb   | 0.2389  | 0.1   | 62223.7    |
| Mo 202.032 | 6.7948      | ppb   | 0.5685  | 8.4   | 44.3792    |
| Na 330.237 | 974.636     | ppb   | 201.233 | 20.6  | 35.5459    |
| Ni 231.604 | 36.6490     | ppb   | 0.4560  | 1.2   | 96.9807    |
| Pb 220.353 | 95.6671     | ppb   | 3.3396  | 3.5   | 174.869    |
| Sb 206.834 | 6.8313      | ppb   | 3.7824  | 55.4  | 8.5798     |
| Se 196.026 | -1.1927     | ppb   | 1.8740  | 157.1 | 7.2952     |
| Sn 189.925 | 58.3476     | ppb   | 0.8445  | 1.4   | 34.5948    |
| Sr 216.596 | 62.3469     | ppb   | 0.2974  | 0.5   | 824.507    |
| Ti 334.941 | 1016.09     | ppb   | 2.0050  | 0.2   | 254984     |
| Tl 190.794 | 3.1591      | ppb   | 4.8727  | 154.2 | -21.0271   |
| V 292.401  | 349.893     | ppb   | 0.1137  | 0.0   | 8249.13    |
| Zn 206.200 | 94.6598     | ppb   | 0.3760  | 0.4   | 128.980    |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-6-a (Samp) 5/28/2013, 9:25:53 PM Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.3435u                 | -2.1730u | -2.2618u |
| Al 308.215 | 128689                   | 128954   | 129958   |
| As 188.980 | 78.2194                  | 70.9112  | 83.9754  |
| B 249.678  | 58.6802                  | 59.2550  | 58.2453  |
| Ba 389.178 | 298.576                  | 299.160  | 301.259  |
| Be 313.042 | 3.2209                   | 3.2252   | 3.2579   |
| Ca 370.602 | 3395u                    | 3400u    | 3373u    |
| Cd 226.502 | -3.3396                  | -3.4680  | -3.5663  |
| Co 228.615 | 12.0572                  | 12.3889  | 12.9124  |
| Cr 267.716 | 235.580                  | 236.291  | 238.756  |
| Cu 324.754 | 70.8058                  | 70.3493  | 71.2646  |
| Fe 271.441 | 273140                   | 273263   | 275562   |
| K 766.491  | 1214.32                  | 1214.47  | 1222.27  |
| Mg 279.078 | 6256.09                  | 6269.90  | 6310.94  |
| Mn 257.610 | 121.703                  | 121.793  | 122.690  |
| Mo 202.032 | 6.8865                   | 8.2379   | 7.7492   |
| Na 330.237 | 1466.69u                 | 1434.31u | 1494.22u |
| Ni 231.604 | 29.7728                  | 29.8152  | 29.2470  |
| Pb 220.353 | 76.3070                  | 80.3088  | 79.7331  |
| Sb 206.834 | -3.5903                  | -4.8586  | -0.2661  |
| Se 196.026 | -4.3684u                 | 1.7269   | -0.1780  |
| Sn 189.925 | 16.5039                  | 15.6187  | 14.6427  |
| Sr 216.596 | 60.8575                  | 61.8215  | 61.1404  |
| Ti 334.941 | 924.486                  | 924.738  | 934.791  |
| Tl 190.794 | 3.8595u                  | 2.6305u  | 1.3342u  |
| V 292.401  | 588.570                  | 587.978  | 592.899  |
| Zn 206.200 | 40.2974                  | 42.8115  | 43.2429  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.2594     | ppb   | 0.0853  | 3.8   | -204.372   |
| Al 308.215 | 129200      | ppb   | 669.455 | 0.5   | 762346     |
| As 188.980 | 77.7020     | ppb   | 6.5475  | 8.4   | 40.4707    |
| B 249.678  | 58.7268     | ppb   | 0.5065  | 0.9   | 381.933    |
| Ba 389.178 | 299.665     | ppb   | 1.4112  | 0.5   | 5763.72    |
| Be 313.042 | 3.2346      | ppb   | 0.0202  | 0.6   | 5449.18    |
| Ca 370.602 | 3389        | ppb   | 14.08   | 0.4   | -6719      |
| Cd 226.502 | -3.4580     | ppb   | 0.1137  | 3.3   | 603.135    |
| Co 228.615 | 12.4528     | ppb   | 0.4312  | 3.5   | 173.665    |
| Cr 267.716 | 236.876     | ppb   | 1.6667  | 0.7   | 10787.6    |
| Cu 324.754 | 70.8066     | ppb   | 0.4577  | 0.6   | 4013.68    |
| Fe 271.441 | 273988      | ppb   | 1363.98 | 0.5   | 418820     |
| K 766.491  | 1217.02     | ppb   | 4.5474  | 0.4   | 39774.6    |
| Mg 279.078 | 6278.98     | ppb   | 28.5307 | 0.5   | 13262.5    |
| Mn 257.610 | 122.062     | ppb   | 0.5458  | 0.4   | 27378.2    |
| Mo 202.032 | 7.6245      | ppb   | 0.6843  | 9.0   | 45.5074    |
| Na 330.237 | 1465.07     | ppb   | 29.9892 | 2.0   | 36.0133    |
| Ni 231.604 | 29.6117     | ppb   | 0.3165  | 1.1   | 80.5080    |
| Pb 220.353 | 78.7830     | ppb   | 2.1635  | 2.7   | 154.921    |
| Sb 206.834 | -2.9050     | ppb   | 2.3717  | 81.6  | 0.2453     |
| Se 196.026 | -0.9399     | ppb   | 3.1182  | 331.8 | 7.6558     |
| Sn 189.925 | 15.5885     | ppb   | 0.9310  | 6.0   | -0.1792    |
| Sr 216.596 | 61.2731     | ppb   | 0.4955  | 0.8   | 886.584    |
| Ti 334.941 | 928.005     | ppb   | 5.8780  | 0.6   | 232890     |
| Tl 190.794 | 2.6081      | ppb   | 1.2628  | 48.4  | -25.8310   |
| V 292.401  | 589.816     | ppb   | 2.6863  | 0.5   | 13921.8    |
| Zn 206.200 | 42.1173     | ppb   | 1.5908  | 3.8   | 6137472    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-7-a (Samp) 5/28/2013, 9:39:40 PM Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.5523u                 | -0.3337u | -0.5514u |
| Al 308.215 | 30749.6                  | 30845.4  | 31009.6  |
| As 188.980 | 5689.45                  | 5727.80  | 5748.81  |
| B 249.678  | 79.1974                  | 79.7443  | 80.5350  |
| Ba 389.178 | 278.475                  | 280.056  | 281.162  |
| Be 313.042 | 1.0607                   | 1.0738   | 1.0699   |
| Ca 370.602 | 39407                    | 39553    | 39676    |
| Cd 226.502 | 0.8331                   | 0.5018   | 0.7867   |
| Co 228.615 | 11.6189                  | 11.6612  | 11.5881  |
| Cr 267.716 | 4438.12                  | 4459.71  | 4473.42  |
| Cu 324.754 | 2303.53                  | 2357.55  | 2334.12  |
| Fe 271.441 | 63651.1                  | 63979.7  | 64205.0  |
| K 766.491  | 1818.09                  | 1819.65  | 1830.62  |
| Mg 279.078 | 3132.76                  | 3138.56  | 3148.26  |
| Mn 257.610 | 814.635                  | 818.489  | 820.721  |
| Mo 202.032 | 17.1718                  | 17.6521  | 17.0687  |
| Na 330.237 | 278.884u                 | 261.415u | 296.399u |
| Ni 231.604 | 31.9715                  | 33.6649  | 31.4702  |
| Pb 220.353 | 101.461                  | 100.709  | 103.694  |
| Sb 206.834 | 45.3062                  | 56.3658  | 52.4496  |
| Se 196.026 | 0.4501                   | -7.9093u | 1.2093   |
| Sn 189.925 | 17.1338                  | 14.0687  | 14.4851  |
| Sr 216.596 | 133.017                  | 132.504  | 133.250  |
| Ti 334.941 | 567.110                  | 570.034  | 572.366  |
| Tl 190.794 | 1.1533u                  | 1.6839u  | 4.0163u  |
| V 292.401  | 102.991                  | 103.864  | 104.173  |
| Zn 206.200 | 809.713                  | 818.689  | 822.048  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.4792     | ppb   | 0.1259  | 26.3  | -80.9982   |
| Al 308.215 | 30868.2     | ppb   | 131.457 | 0.4   | 182285     |
| As 188.980 | 5722.02     | ppb   | 30.1004 | 0.5   | 3374.12    |
| B 249.678  | 79.8256     | ppb   | 0.6725  | 0.8   | 1058.63    |
| Ba 389.178 | 279.897     | ppb   | 1.3507  | 0.5   | 5162.29    |
| Be 313.042 | 1.0681      | ppb   | 0.0067  | 0.6   | 1647.01    |
| Ca 370.602 | 39545       | ppb   | 134.6   | 0.3   | 76633      |
| Cd 226.502 | 0.7072      | ppb   | 0.1794  | 25.4  | 205.267    |
| Co 228.615 | 11.6228     | ppb   | 0.0367  | 0.3   | 162.468    |
| Cr 267.716 | 4457.08     | ppb   | 17.7932 | 0.4   | 201774     |
| Cu 324.754 | 2331.73     | ppb   | 27.0873 | 1.2   | 124577     |
| Fe 271.441 | 63945.3     | ppb   | 278.543 | 0.4   | 97771.2    |
| K 766.491  | 1822.79     | ppb   | 6.8297  | 0.4   | 59424.8    |
| Mg 279.078 | 3139.86     | ppb   | 7.8323  | 0.2   | 6633.07    |
| Mn 257.610 | 817.948     | ppb   | 3.0788  | 0.4   | 178420     |
| Mo 202.032 | 17.2976     | ppb   | 0.3113  | 1.8   | 119.204    |
| Na 330.237 | 278.899     | ppb   | 17.4920 | 6.3   | 28.8056    |
| Ni 231.604 | 32.3689     | ppb   | 1.1501  | 3.6   | 83.3207    |
| Pb 220.353 | 101.955     | ppb   | 1.5524  | 1.5   | 177.956    |
| Sb 206.834 | 51.3738     | ppb   | 5.6077  | 10.9  | 83.1039    |
| Se 196.026 | -2.0833     | ppb   | 5.0597  | 242.9 | 6.5987     |
| Sn 189.925 | 15.2292     | ppb   | 1.6625  | 10.9  | -0.4503    |
| Sr 216.596 | 132.923     | ppb   | 0.3816  | 0.3   | 1452.81    |
| Ti 334.941 | 569.837     | ppb   | 2.6340  | 0.5   | 142968     |
| Tl 190.794 | 2.2845      | ppb   | 1.5231  | 66.7  | -15.5752   |
| V 292.401  | 103.676     | ppb   | 0.6128  | 0.6   | 2235.12    |
| Zn 206.200 | 816.817     | ppb   | 6.3770  | 0.8   | 1053.91    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-8-a (Samp) 5/28/2013, 9:44:15 PM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.7953u                 | -0.7695u | -0.2048u |
| Al 308.215 | 13518.7                  | 13835.2  | 13798.0  |
| As 188.980 | 159.118                  | 163.613  | 162.731  |
| B 249.678  | 24.2886                  | 25.1955  | 24.8241  |
| Ba 389.178 | 54.3780                  | 56.0354  | 55.0235  |
| Be 313.042 | 0.4281                   | 0.4379   | 0.4370   |
| Ca 370.602 | 1951                     | 1974     | 1971     |
| Cd 226.502 | -0.4146                  | -0.1411  | -0.0464  |
| Co 228.615 | 3.2410                   | 3.0645   | 3.0464   |
| Cr 267.716 | 146.137                  | 148.969  | 149.119  |
| Cu 324.754 | 89.0070                  | 90.6912  | 89.9173  |
| Fe 271.441 | 23375.3                  | 23950.1  | 23873.7  |
| K 766.491  | 571.891                  | 581.851  | 578.792  |
| Mg 279.078 | 660.207                  | 678.236  | 674.567  |
| Mn 257.610 | 133.648                  | 136.843  | 136.504  |
| Mo 202.032 | 1.9944                   | 2.0546   | 0.5369   |
| Na 330.237 | 102.681u                 | 35.0031u | 279.022  |
| Ni 231.604 | 6.4877                   | 7.0528   | 7.7720   |
| Pb 220.353 | 23.1304                  | 25.0758  | 20.9077  |
| Sb 206.834 | 7.3337                   | 3.1381   | 6.5940   |
| Se 196.026 | -0.0131                  | -2.5601u | 2.5195   |
| Sn 189.925 | 11.3588                  | 11.3111  | 10.3152  |
| Sr 216.596 | 13.0897                  | 12.3294  | 12.2914  |
| Ti 334.941 | 302.922                  | 312.106  | 309.096  |
| Tl 190.794 | 6.0111                   | -0.4525u | 2.5640   |
| V 292.401  | 48.2633                  | 49.2331  | 49.3286  |
| Zn 206.200 | 72.8249                  | 74.2872  | 73.4095  |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.5899     | ppb   | 0.3338  | 56.6    | -86.7254   |
| Al 308.215 | 13717.3     | ppb   | 173.013 | 1.3     | 81105.2    |
| As 188.980 | 161.821     | ppb   | 2.3818  | 1.5     | 91.4039    |
| B 249.678  | 24.7694     | ppb   | 0.4559  | 1.8     | 394.475    |
| Ba 389.178 | 55.1456     | ppb   | 0.8354  | 1.5     | 1021.29    |
| Be 313.042 | 0.4343      | ppb   | 0.0054  | 1.3     | 519.876    |
| Ca 370.602 | 1965        | ppb   | 12.67   | 0.6     | 2855       |
| Cd 226.502 | -0.2007     | ppb   | 0.1912  | 95.3    | 72.6771    |
| Co 228.615 | 3.1173      | ppb   | 0.1075  | 3.4     | 46.5900    |
| Cr 267.716 | 148.075     | ppb   | 1.6800  | 1.1     | 6714.98    |
| Cu 324.754 | 89.8718     | ppb   | 0.8430  | 0.9     | 4957.29    |
| Fe 271.441 | 23733.0     | ppb   | 312.172 | 1.3     | 36297.2    |
| K 766.491  | 577.511     | ppb   | 5.1023  | 0.9     | 19029.9    |
| Mg 279.078 | 671.003     | ppb   | 9.5281  | 1.4     | 1443.76    |
| Mn 257.610 | 135.665     | ppb   | 1.7553  | 1.3     | 29652.1    |
| Mo 202.032 | 1.5286      | ppb   | 0.8594  | 56.2    | 17.8591    |
| Na 330.237 | 138.902     | ppb   | 125.977 | 90.7    | 43.9211    |
| Ni 231.604 | 7.1042      | ppb   | 0.6437  | 9.1     | 16.9580    |
| Pb 220.353 | 23.0380     | ppb   | 2.0856  | 9.1     | 58.4401    |
| Sb 206.834 | 5.6886      | ppb   | 2.2395  | 39.4    | 2.2963     |
| Se 196.026 | -0.0179     | ppb   | 2.5398  | 14185.7 | 7.2777     |
| Sn 189.925 | 10.9950     | ppb   | 0.5893  | 5.4     | -3.9080    |
| Sr 216.596 | 12.5701     | ppb   | 0.4504  | 3.6     | 168.793    |
| Ti 334.941 | 308.041     | ppb   | 4.6817  | 1.5     | 77254.0    |
| Tl 190.794 | 2.7075      | ppb   | 3.2342  | 119.5   | -12.9056   |
| V 292.401  | 48.9417     | ppb   | 0.5894  | 1.2     | 1138.14    |
| Zn 206.200 | 73.5072     | ppb   | 0.7360  | 1.0     | 109.607    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-9-a (Samp) 5/28/2013, 9:48:51 PM Rack 2, Tube 41

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -1.0712u                 | -1.3996u | -1.3660u  |
| Al 308.215 | 23963.4                  | 24105.5  | 24118.7   |
| As 188.980 | 50.4655                  | 51.8159  | 54.2087   |
| B 249.678  | 35.7782                  | 36.5103  | 36.8822   |
| Ba 389.178 | 82.6447                  | 82.5689  | 83.0482   |
| Be 313.042 | 1.1658                   | 1.1886   | 1.1795    |
| Ca 370.602 | 3037                     | 3044     | 3038      |
| Cd 226.502 | -0.6062                  | -0.4862  | -0.3571   |
| Co 228.615 | 5.9929                   | 7.1792   | 6.6091    |
| Cr 267.716 | 64.8324                  | 65.2827  | 64.9600   |
| Cu 324.754 | 79.3087                  | 78.9663  | 80.9139   |
| Fe 271.441 | 39338.4                  | 39642.8  | 39611.5   |
| K 766.491  | 858.251                  | 862.498  | 857.797   |
| Mg 279.078 | 929.844                  | 941.792  | 942.973   |
| Mn 257.610 | 175.645                  | 176.919  | 177.033   |
| Mo 202.032 | 1.6269                   | 2.4341   | 1.7063    |
| Na 330.237 | 139.974u                 | 238.577u | -113.741u |
| Ni 231.604 | 8.9591                   | 9.3362   | 9.8721    |
| Pb 220.353 | 27.1638                  | 26.5740  | 33.8840   |
| Sb 206.834 | 4.4360                   | 4.7980   | 1.8362    |
| Se 196.026 | -0.3188                  | -5.8785u | 0.2411    |
| Sn 189.925 | 12.3657                  | 8.9567   | 9.7052    |
| Sr 216.596 | 18.6027                  | 18.8596  | 18.2631   |
| Ti 334.941 | 402.996                  | 405.897  | 405.688   |
| Tl 190.794 | -0.7038u                 | 1.9879u  | 5.0742    |
| V 292.401  | 92.9100                  | 93.6442  | 93.4867   |
| Zn 206.200 | 31.9246                  | 33.4265  | 32.3984   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.2789     | ppb   | 0.1807  | 14.1  | -135.221   |
| Al 308.215 | 24062.5     | ppb   | 86.0883 | 0.4   | 142133     |
| As 188.980 | 52.1634     | ppb   | 1.8956  | 3.6   | 26.6069    |
| B 249.678  | 36.3902     | ppb   | 0.5617  | 1.5   | 520.974    |
| Ba 389.178 | 82.7539     | ppb   | 0.2577  | 0.3   | 1542.07    |
| Be 313.042 | 1.1780      | ppb   | 0.0115  | 1.0   | 1831.97    |
| Ca 370.602 | 3040        | ppb   | 3.372   | 0.1   | 4255       |
| Cd 226.502 | -0.4832     | ppb   | 0.1246  | 25.8  | 103.623    |
| Co 228.615 | 6.5937      | ppb   | 0.5933  | 9.0   | 88.0670    |
| Cr 267.716 | 65.0250     | ppb   | 0.2321  | 0.4   | 2959.27    |
| Cu 324.754 | 79.7296     | ppb   | 1.0398  | 1.3   | 4420.72    |
| Fe 271.441 | 39530.9     | ppb   | 167.421 | 0.4   | 60445.0    |
| K 766.491  | 859.515     | ppb   | 2.5928  | 0.3   | 28177.7    |
| Mg 279.078 | 938.203     | ppb   | 7.2631  | 0.8   | 2005.49    |
| Mn 257.610 | 176.532     | ppb   | 0.7701  | 0.4   | 38598.4    |
| Mo 202.032 | 1.9225      | ppb   | 0.4449  | 23.1  | 19.6454    |
| Na 330.237 | 88.2701     | ppb   | 181.761 | 205.9 | 37.4850    |
| Ni 231.604 | 9.3891      | ppb   | 0.4588  | 4.9   | 23.2065    |
| Pb 220.353 | 29.2073     | ppb   | 4.0609  | 13.9  | 68.3988    |
| Sb 206.834 | 3.6901      | ppb   | 1.6156  | 43.8  | 0.0283     |
| Se 196.026 | -1.9854     | ppb   | 3.3831  | 170.4 | 6.4147     |
| Sn 189.925 | 10.3425     | ppb   | 1.7916  | 17.3  | -4.4387    |
| Sr 216.596 | 18.5751     | ppb   | 0.2992  | 1.6   | 244.546    |
| Ti 334.941 | 404.860     | ppb   | 1.6181  | 0.4   | 101554     |
| Tl 190.794 | 2.1194      | ppb   | 2.8912  | 136.4 | -14.1997   |
| V 292.401  | 93.3469     | ppb   | 0.3866  | 0.4   | 2192.44    |
| Zn 206.200 | 32.5831     | ppb   | 0.7678  | 2.4   | 4737901    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

mb 680-277795/1-a (Samp) 5/28/2013, 9:53:37 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.5028u                 | 0.0036   | -0.0753u |
| Al 308.215 | 12.5348                  | 12.8899  | 13.2279  |
| As 188.980 | -9.8729u                 | -2.3612u | -7.4490u |
| B 249.678  | 2.9113                   | 3.3190   | 3.6585   |
| Ba 389.178 | -0.4597u                 | -1.5180u | -0.2642u |
| Be 313.042 | 0.0005                   | -0.0007u | 0.0068   |
| Ca 370.602 | 30.43                    | 30.48    | 31.14    |
| Cd 226.502 | -0.2081u                 | 0.0756   | 0.1246   |
| Co 228.615 | -0.0742u                 | 0.2313   | 0.2457   |
| Cr 267.716 | 0.9524                   | 0.8063   | 1.0542   |
| Cu 324.754 | 0.5908                   | 0.5293   | 0.2057   |
| Fe 271.441 | 16.3149                  | 16.3404  | 17.9056  |
| K 766.491  | 9.3036                   | 9.5125   | 9.7776   |
| Mg 279.078 | 23.2375                  | 23.2998  | 25.1865  |
| Mn 257.610 | 0.2551                   | 0.1934   | 0.2073   |
| Mo 202.032 | 0.3289                   | -0.2768u | 0.1212   |
| Na 330.237 | -83.2907u                | 146.810  | 69.3339  |
| Ni 231.604 | -0.0114u                 | 0.0379   | 0.7590   |
| Pb 220.353 | -5.8570u                 | -2.2197u | 3.7662   |
| Sb 206.834 | 4.8162                   | -1.8173u | 4.4954   |
| Se 196.026 | 3.9866                   | 0.6787   | -1.2017u |
| Sn 189.925 | 12.2377                  | 11.2028  | 14.6975  |
| Sr 216.596 | -0.2914u                 | -0.5370u | -0.4041u |
| Ti 334.941 | 0.3545                   | 0.3158   | 0.2626   |
| Tl 190.794 | 3.7682                   | 1.1189   | 0.0301   |
| V 292.401  | -0.0196u                 | 0.1838   | 0.1442   |
| Zn 206.200 | 3.5088                   | 3.1780   | 4.3873   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1915     | ppb   | 0.2724  | 142.3  | -58.8636   |
| Al 308.215 | 12.8842     | ppb   | 0.3466  | 2.7    | 259.625    |
| As 188.980 | -6.5610     | ppb   | 3.8338  | 58.4   | -7.9200    |
| B 249.678  | 3.2963      | ppb   | 0.3741  | 11.3   | 150.475    |
| Ba 389.178 | -0.7473     | ppb   | 0.6746  | 90.3   | -23.9486   |
| Be 313.042 | 0.0022      | ppb   | 0.0041  | 183.5  | -242.363   |
| Ca 370.602 | 30.68       | ppb   | 0.3953  | 1.3    | 49.34      |
| Cd 226.502 | -0.0026     | ppb   | 0.1796  | 6848.9 | 18.7516    |
| Co 228.615 | 0.1342      | ppb   | 0.1807  | 134.6  | 5.0839     |
| Cr 267.716 | 0.9377      | ppb   | 0.1246  | 13.3   | 48.7202    |
| Cu 324.754 | 0.4419      | ppb   | 0.2069  | 46.8   | 179.043    |
| Fe 271.441 | 16.8536     | ppb   | 0.9111  | 5.4    | 45.6766    |
| K 766.491  | 9.5312      | ppb   | 0.2375  | 2.5    | 605.455    |
| Mg 279.078 | 23.9079     | ppb   | 1.1077  | 4.6    | 83.2557    |
| Mn 257.610 | 0.2186      | ppb   | 0.0324  | 14.8   | 77.0431    |
| Mo 202.032 | 0.0578      | ppb   | 0.3078  | 532.8  | 9.3865     |
| Na 330.237 | 44.2846     | ppb   | 117.078 | 264.4  | 47.9157    |
| Ni 231.604 | 0.2618      | ppb   | 0.4313  | 164.7  | -1.2787    |
| Pb 220.353 | -1.4368     | ppb   | 4.8591  | 338.2  | 20.9185    |
| Sb 206.834 | 2.4981      | ppb   | 3.7407  | 149.7  | -2.5067    |
| Se 196.026 | 1.1545      | ppb   | 2.6267  | 227.5  | 7.7194     |
| Sn 189.925 | 12.7127     | ppb   | 1.7951  | 14.1   | -2.5115    |
| Sr 216.596 | -0.4108     | ppb   | 0.1229  | 29.9   | 14.0281    |
| Ti 334.941 | 0.3109      | ppb   | 0.0462  | 14.8   | 21.7998    |
| Tl 190.794 | 1.6391      | ppb   | 1.9226  | 117.3  | -12.5114   |
| V 292.401  | 0.1028      | ppb   | 0.1078  | 104.9  | -13.0534   |
| Zn 206.200 | 3.6913      | ppb   | 0.6250  | 16.9   | 10.0642    |

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ics 680-277795/2-a (Samp)      5/28/2013, 9:58:13 PM      Rack 2, Tube 43  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 53.1765                  | 53.4220 | 52.7802 |
| Al 308.215 | 4939.40                  | 4924.50 | 4919.93 |
| As 188.980 | 102.617                  | 101.715 | 105.180 |
| B 249.678  | 193.122                  | 194.831 | 195.164 |
| Ba 389.178 | 97.6921                  | 96.6339 | 98.3733 |
| Be 313.042 | 51.4286                  | 51.2874 | 51.4420 |
| Ca 370.602 | 4868                     | 4867    | 4886    |
| Cd 226.502 | 51.0839                  | 51.0145 | 51.2494 |
| Co 228.615 | 50.2619                  | 51.6398 | 51.5017 |
| Cr 267.716 | 102.090                  | 102.084 | 102.176 |
| Cu 324.754 | 100.599                  | 101.557 | 100.999 |
| Fe 271.441 | 4957.14                  | 4937.07 | 4945.50 |
| K 766.491  | 5044.38                  | 4992.81 | 4997.36 |
| Mg 279.078 | 5029.53                  | 5016.18 | 5030.51 |
| Mn 257.610 | 522.037                  | 520.500 | 521.301 |
| Mo 202.032 | 102.257                  | 101.491 | 101.785 |
| Na 330.237 | 5006.51                  | 4953.27 | 4833.01 |
| Ni 231.604 | 99.7613                  | 100.544 | 100.240 |
| Pb 220.353 | 47.5164                  | 50.2303 | 47.5887 |
| Sb 206.834 | 51.2828                  | 49.2139 | 50.1643 |
| Se 196.026 | 113.624                  | 103.438 | 95.6496 |
| Sn 189.925 | 211.083                  | 208.959 | 210.503 |
| Sr 216.596 | 99.3047                  | 99.0145 | 99.0130 |
| Ti 334.941 | 98.9074                  | 98.4857 | 98.8669 |
| Tl 190.794 | 41.2753                  | 38.4309 | 44.0139 |
| V 292.401  | 100.698                  | 99.4060 | 100.446 |
| Zn 206.200 | 104.385                  | 107.038 | 104.348 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 53.1262     | ppb   | 0.3239  | 0.6  | 3703.65    |
| Al 308.215 | 4927.94     | ppb   | 10.1804 | 0.2  | 29244.4    |
| As 188.980 | 103.171     | ppb   | 1.7978  | 1.7  | 56.8432    |
| B 249.678  | 194.372     | ppb   | 1.0958  | 0.6  | 2707.61    |
| Ba 389.178 | 97.5664     | ppb   | 0.8765  | 0.9  | 1781.86    |
| Be 313.042 | 51.3860     | ppb   | 0.0857  | 0.2  | 90448.4    |
| Ca 370.602 | 4873        | ppb   | 10.58   | 0.2  | 9600       |
| Cd 226.502 | 51.1159     | ppb   | 0.1207  | 0.2  | 1721.23    |
| Co 228.615 | 51.1345     | ppb   | 0.7588  | 1.5  | 578.385    |
| Cr 267.716 | 102.116     | ppb   | 0.0516  | 0.1  | 4630.74    |
| Cu 324.754 | 101.052     | ppb   | 0.4808  | 0.5  | 5550.23    |
| Fe 271.441 | 4946.57     | ppb   | 10.0776 | 0.2  | 7587.63    |
| K 766.491  | 5011.52     | ppb   | 28.5501 | 0.6  | 162862     |
| Mg 279.078 | 5025.41     | ppb   | 8.0086  | 0.2  | 10604.6    |
| Mn 257.610 | 521.279     | ppb   | 0.7686  | 0.1  | 113648     |
| Mo 202.032 | 101.844     | ppb   | 0.3867  | 0.4  | 675.438    |
| Na 330.237 | 4930.93     | ppb   | 88.8801 | 1.8  | 272.897    |
| Ni 231.604 | 100.182     | ppb   | 0.3948  | 0.4  | 257.959    |
| Pb 220.353 | 48.4451     | ppb   | 1.5464  | 3.2  | 95.1900    |
| Sb 206.834 | 50.2203     | ppb   | 1.0356  | 2.1  | 43.3705    |
| Se 196.026 | 104.237     | ppb   | 9.0140  | 8.6  | 56.2712    |
| Sn 189.925 | 210.182     | ppb   | 1.0977  | 0.5  | 158.068    |
| Sr 216.596 | 99.1108     | ppb   | 0.1680  | 0.2  | 1046.58    |
| Ti 334.941 | 98.7534     | ppb   | 0.2327  | 0.2  | 24746.9    |
| Tl 190.794 | 41.2400     | ppb   | 2.7917  | 6.8  | 19.3973    |
| V 292.401  | 100.183     | ppb   | 0.6848  | 0.7  | 2333.71    |
| Zn 206.200 | 105.257     | ppb   | 1.5427  | 1.5  | 141.879    |

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**680-90592-a-10-a (Samp) 5/28/2013, 10:02:48 PM Rack 2, Tube 44****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -1.0610u                 | -1.1016u | -0.9986u  |
| Al 308.215 | 34604.4                  | 34693.4  | 34807.0   |
| As 188.980 | 578.184                  | 583.836  | 579.572   |
| B 249.678  | 21.0224                  | 21.2270  | 20.9057   |
| Ba 389.178 | 166.506                  | 165.745  | 166.268   |
| Be 313.042 | 0.7929                   | 0.8016   | 0.8001    |
| Ca 370.602 | 11556                    | 11586    | 11594     |
| Cd 226.502 | -0.5622                  | -0.5013  | -0.5048   |
| Co 228.615 | 5.0391                   | 5.3837   | 4.3687    |
| Cr 267.716 | 504.195                  | 506.663  | 507.973   |
| Cu 324.754 | 352.874                  | 356.519  | 356.806   |
| Fe 271.441 | 56652.2                  | 56860.1  | 57107.2   |
| K 766.491  | 1138.47                  | 1144.40  | 1145.70   |
| Mg 279.078 | 1863.87                  | 1874.40  | 1874.16   |
| Mn 257.610 | 225.987                  | 226.802  | 227.785   |
| Mo 202.032 | 3.4807                   | 3.4632   | 3.7012    |
| Na 330.237 | 172.161u                 | 186.279u | 78.3272u  |
| Ni 231.604 | 18.8374                  | 16.4396  | 18.1044   |
| Pb 220.353 | 43.6037                  | 45.4090  | 42.1150   |
| Sb 206.834 | 9.6864                   | 10.2997  | 8.9199    |
| Se 196.026 | -2.3665u                 | -4.2401u | -11.2195u |
| Sn 189.925 | 11.5574                  | 8.3868   | 12.4241   |
| Sr 216.596 | 80.1034                  | 80.3753  | 80.7799   |
| Ti 334.941 | 440.067                  | 441.866  | 442.416   |
| Tl 190.794 | 0.6200u                  | 6.3717   | 6.1785    |
| V 292.401  | 92.8349                  | 91.9109  | 92.5597   |
| Zn 206.200 | 114.500                  | 116.271  | 114.730   |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -1.0537     | ppb   | 0.0519  | 4.9  | -121.813   |
| Al 308.215 | 34701.6     | ppb   | 101.522 | 0.3  | 204902     |
| As 188.980 | 580.531     | ppb   | 2.9456  | 0.5  | 338.510    |
| B 249.678  | 21.0517     | ppb   | 0.1626  | 0.8  | 282.484    |
| Ba 389.178 | 166.173     | ppb   | 0.3894  | 0.2  | 3081.72    |
| Be 313.042 | 0.7982      | ppb   | 0.0046  | 0.6  | 1164.70    |
| Ca 370.602 | 11579       | ppb   | 19.95   | 0.2  | 20594      |
| Cd 226.502 | -0.5228     | ppb   | 0.0342  | 6.5  | 146.544    |
| Co 228.615 | 4.9305      | ppb   | 0.5162  | 10.5 | 72.0935    |
| Cr 267.716 | 506.277     | ppb   | 1.9186  | 0.4  | 22936.8    |
| Cu 324.754 | 355.399     | ppb   | 2.1920  | 0.6  | 19133.7    |
| Fe 271.441 | 56873.2     | ppb   | 227.784 | 0.4  | 86953.4    |
| K 766.491  | 1142.86     | ppb   | 3.8523  | 0.3  | 37368.9    |
| Mg 279.078 | 1870.81     | ppb   | 6.0123  | 0.3  | 3968.22    |
| Mn 257.610 | 226.858     | ppb   | 0.9007  | 0.4  | 49614.6    |
| Mo 202.032 | 3.5483      | ppb   | 0.1326  | 3.7  | 29.5080    |
| Na 330.237 | 145.589     | ppb   | 58.6766 | 40.3 | 34.2173    |
| Ni 231.604 | 17.7938     | ppb   | 1.2287  | 6.9  | 45.3753    |
| Pb 220.353 | 43.7092     | ppb   | 1.6495  | 3.8  | 90.8633    |
| Sb 206.834 | 9.6353      | ppb   | 0.6913  | 7.2  | 9.8031     |
| Se 196.026 | -5.9420     | ppb   | 4.6654  | 78.5 | 4.6247     |
| Sn 189.925 | 10.7894     | ppb   | 2.1254  | 19.7 | -4.0722    |
| Sr 216.596 | 80.4195     | ppb   | 0.3404  | 0.4  | 900.590    |
| Ti 334.941 | 441.450     | ppb   | 1.2289  | 0.3  | 110743     |
| Tl 190.794 | 4.3901      | ppb   | 3.2664  | 74.4 | -13.2825   |
| V 292.401  | 92.4352     | ppb   | 0.4744  | 0.5  | 2150.88    |
| Zn 206.200 | 115.167     | ppb   | 0.9631  | 0.8  | 153.941    |

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**680-90592-a-10-aSD^5 (Samp) 5/28/2013, 10:07:24 PM Rack 2, Tube 45****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |          |
|------------|--------------------------|---------|----------|
| Ag 328.068 | 0.0458                   | 0.1348  | 0.1440   |
| Al 308.215 | 7905.11                  | 7780.36 | 7599.23  |
| As 188.980 | 134.149                  | 131.624 | 127.391  |
| B 249.678  | 6.2503                   | 6.5371  | 5.6911   |
| Ba 389.178 | 37.2766                  | 37.0125 | 36.5055  |
| Be 313.042 | 0.1713                   | 0.1778  | 0.1644   |
| Ca 370.602 | 2636                     | 2605    | 2562     |
| Cd 226.502 | -0.1520                  | -0.3073 | -0.2702  |
| Co 228.615 | 0.3857                   | 1.5359  | 0.8374   |
| Cr 267.716 | 115.741                  | 114.171 | 111.324  |
| Cu 324.754 | 80.6987                  | 79.9354 | 76.8578  |
| Fe 271.441 | 13054.3                  | 12879.0 | 12607.8  |
| K 766.491  | 246.395                  | 241.316 | 238.059  |
| Mg 279.078 | 432.149                  | 423.598 | 416.907  |
| Mn 257.610 | 51.5157                  | 50.8233 | 49.6517  |
| Mo 202.032 | 1.2075                   | 0.4832  | 0.7330   |
| Na 330.237 | 94.0967                  | 5.8753u | 5.4531u  |
| Ni 231.604 | 3.9445                   | 6.4337  | 3.4193   |
| Pb 220.353 | 6.4363                   | 9.5977  | 8.9572   |
| Sb 206.834 | -0.2165                  | 7.8823  | 4.1739   |
| Se 196.026 | -5.2662u                 | 0.0869  | -2.2166u |
| Sn 189.925 | 2.3797                   | 3.5864  | 4.0416   |
| Sr 216.596 | 17.6405                  | 18.1800 | 17.2633  |
| Ti 334.941 | 101.382                  | 99.8647 | 97.5175  |
| Tl 190.794 | 0.1891u                  | 3.5536  | 3.5533   |
| V 292.401  | 21.1824                  | 20.8528 | 20.7300  |
| Zn 206.200 | 27.6380                  | 26.0430 | 26.2321  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1082      | ppb   | 0.0543  | 50.1  | -38.1695   |
| Al 308.215 | 7761.57     | ppb   | 153.804 | 2.0   | 45972.1    |
| As 188.980 | 131.055     | ppb   | 3.4151  | 2.6   | 73.2851    |
| B 249.678  | 6.1595      | ppb   | 0.4302  | 7.0   | 164.913    |
| Ba 389.178 | 36.9315     | ppb   | 0.3919  | 1.1   | 677.052    |
| Be 313.042 | 0.1711      | ppb   | 0.0067  | 3.9   | 56.2426    |
| Ca 370.602 | 2601        | ppb   | 37.47   | 1.4   | 4614       |
| Cd 226.502 | -0.2432     | ppb   | 0.0811  | 33.3  | 43.5083    |
| Co 228.615 | 0.9197      | ppb   | 0.5795  | 63.0  | 16.8630    |
| Cr 267.716 | 113.745     | ppb   | 2.2393  | 2.0   | 5158.09    |
| Cu 324.754 | 79.1640     | ppb   | 2.0333  | 2.6   | 4382.85    |
| Fe 271.441 | 12847.0     | ppb   | 224.941 | 1.8   | 19657.2    |
| K 766.491  | 241.924     | ppb   | 4.2011  | 1.7   | 8143.92    |
| Mg 279.078 | 424.218     | ppb   | 7.6398  | 1.8   | 925.312    |
| Mn 257.610 | 50.6636     | ppb   | 0.9422  | 1.9   | 11103.4    |
| Mo 202.032 | 0.8079      | ppb   | 0.3679  | 45.5  | 13.6815    |
| Na 330.237 | 35.1416     | ppb   | 51.0569 | 145.3 | 43.3628    |
| Ni 231.604 | 4.5992      | ppb   | 1.6103  | 35.0  | 10.2385    |
| Pb 220.353 | 8.3304      | ppb   | 1.6713  | 20.1  | 36.0787    |
| Sb 206.834 | 3.9466      | ppb   | 4.0542  | 102.7 | 0.1044     |
| Se 196.026 | -2.4653     | ppb   | 2.6852  | 108.9 | 6.0729     |
| Sn 189.925 | 3.3359      | ppb   | 0.8588  | 25.7  | -10.1357   |
| Sr 216.596 | 17.6946     | ppb   | 0.4607  | 2.6   | 212.686    |
| Ti 334.941 | 99.5881     | ppb   | 1.9471  | 2.0   | 24939.2    |
| Tl 190.794 | 2.4320      | ppb   | 1.9424  | 79.9  | -12.5455   |
| V 292.401  | 20.9218     | ppb   | 0.2339  | 1.1   | 474.923    |
| Zn 206.200 | 26.6377     | ppb   | 0.8714  | 3.3   | 30.6619    |



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**680-90592-a-10-aPDS (Samp) 5/28/2013, 10:12:00 PM Rack 2, Tube 46****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 48.1441                  | 47.0232 | 47.3210 |
| Al 308.215 | 36285.7                  | 35673.6 | 35649.6 |
| As 188.980 | 2755.89                  | 2713.36 | 2713.07 |
| B 249.678  | 1038.76                  | 1028.14 | 1027.14 |
| Ba 389.178 | 2117.08                  | 2082.29 | 2084.25 |
| Be 313.042 | 51.2870                  | 50.3353 | 50.2379 |
| Ca 370.602 | 16382                    | 16153   | 16134   |
| Cd 226.502 | 49.9108                  | 48.7377 | 48.8667 |
| Co 228.615 | 520.686                  | 507.697 | 506.695 |
| Cr 267.716 | 697.935                  | 685.227 | 684.112 |
| Cu 324.754 | 600.985                  | 587.267 | 587.139 |
| Fe 271.441 | 57081.5                  | 56017.4 | 55950.8 |
| K 766.491  | 6554.86                  | 6473.78 | 6430.89 |
| Mg 279.078 | 7011.55                  | 6871.71 | 6871.57 |
| Mn 257.610 | 738.816                  | 726.448 | 726.174 |
| Mo 202.032 | 531.877                  | 523.471 | 524.696 |
| Na 330.237 | 5131.41                  | 5220.76 | 5187.51 |
| Ni 231.604 | 511.109                  | 510.436 | 503.157 |
| Pb 220.353 | 554.115                  | 546.842 | 547.979 |
| Sb 206.834 | 489.695                  | 487.115 | 481.198 |
| Se 196.026 | 2088.31                  | 2068.86 | 2057.24 |
| Sn 189.925 | 1040.07                  | 1017.63 | 1021.09 |
| Sr 216.596 | 590.975                  | 579.206 | 579.339 |
| Ti 334.941 | 1434.01                  | 1410.03 | 1408.83 |
| Tl 190.794 | 2095.58                  | 2049.44 | 2050.56 |
| V 292.401  | 585.302                  | 576.120 | 574.587 |
| Zn 206.200 | 618.371                  | 604.626 | 602.822 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 47.4961     | ppb   | 0.5806  | 1.2  | 3289.27    |
| Al 308.215 | 35869.6     | ppb   | 360.532 | 1.0  | 211719     |
| As 188.980 | 2727.44     | ppb   | 24.6389 | 0.9  | 1606.01    |
| B 249.678  | 1031.35     | ppb   | 6.4363  | 0.6  | 13852.8    |
| Ba 389.178 | 2094.54     | ppb   | 19.5459 | 0.9  | 38194.6    |
| Be 313.042 | 50.6200     | ppb   | 0.5796  | 1.1  | 89022.1    |
| Ca 370.602 | 16223       | ppb   | 138.2   | 0.9  | 30322      |
| Cd 226.502 | 49.1717     | ppb   | 0.6433  | 1.3  | 1788.11    |
| Co 228.615 | 511.692     | ppb   | 7.8046  | 1.5  | 5778.19    |
| Cr 267.716 | 689.091     | ppb   | 7.6789  | 1.1  | 31210.9    |
| Cu 324.754 | 591.797     | ppb   | 7.9569  | 1.3  | 31756.0    |
| Fe 271.441 | 56349.9     | ppb   | 634.429 | 1.1  | 86216.1    |
| K 766.491  | 6486.51     | ppb   | 62.9604 | 1.0  | 210709     |
| Mg 279.078 | 6918.27     | ppb   | 80.7786 | 1.2  | 14586.8    |
| Mn 257.610 | 730.479     | ppb   | 7.2211  | 1.0  | 159373     |
| Mo 202.032 | 526.681     | ppb   | 4.5410  | 0.9  | 3453.91    |
| Na 330.237 | 5179.89     | ppb   | 45.1598 | 0.9  | 259.414    |
| Ni 231.604 | 508.234     | ppb   | 4.4095  | 0.9  | 1316.75    |
| Pb 220.353 | 549.645     | ppb   | 3.9124  | 0.7  | 841.460    |
| Sb 206.834 | 486.003     | ppb   | 4.3565  | 0.9  | 461.978    |
| Se 196.026 | 2071.47     | ppb   | 15.6994 | 0.8  | 980.412    |
| Sn 189.925 | 1026.26     | ppb   | 12.0826 | 1.2  | 821.683    |
| Sr 216.596 | 583.173     | ppb   | 6.7572  | 1.2  | 6093.15    |
| Ti 334.941 | 1417.63     | ppb   | 14.2057 | 1.0  | 355739     |
| Tl 190.794 | 2065.19     | ppb   | 26.3228 | 1.3  | 1665.44    |
| V 292.401  | 578.670     | ppb   | 5.7948  | 1.0  | 13569.3    |
| Zn 206.200 | 608.606     | ppb   | 8.5042  | 1.4  | 795.108    |

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**680-90592-a-10-b ms (Samp) 5/28/2013, 10:16:35 PM Rack 2, Tube 47****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 54.7890                  | 54.3649 | 54.3847 |
| Al 308.215 | 48406.9                  | 48163.3 | 48241.6 |
| As 188.980 | 742.020                  | 753.275 | 757.681 |
| B 249.678  | 217.399                  | 215.951 | 214.648 |
| Ba 389.178 | 246.467                  | 245.546 | 246.708 |
| Be 313.042 | 54.4312                  | 54.2063 | 54.3451 |
| Ca 370.602 | 15701                    | 15557   | 15586   |
| Cd 226.502 | 52.3863                  | 51.9515 | 52.1985 |
| Co 228.615 | 58.9797                  | 57.6273 | 57.5358 |
| Cr 267.716 | 713.963                  | 709.539 | 711.319 |
| Cu 324.754 | 510.678                  | 510.533 | 507.360 |
| Fe 271.441 | 64192.0                  | 63998.3 | 64099.8 |
| K 766.491  | 6563.14                  | 6558.73 | 6579.46 |
| Mg 279.078 | 7139.73                  | 7097.86 | 7128.42 |
| Mn 257.610 | 780.580                  | 777.601 | 779.011 |
| Mo 202.032 | 100.687                  | 100.112 | 100.835 |
| Na 330.237 | 4939.57                  | 4995.95 | 5263.65 |
| Ni 231.604 | 126.571                  | 124.609 | 123.880 |
| Pb 220.353 | 94.0371                  | 94.7475 | 96.6891 |
| Sb 206.834 | 32.5056                  | 35.0163 | 34.2373 |
| Se 196.026 | 108.727                  | 105.138 | 109.544 |
| Sn 189.925 | 211.890                  | 209.237 | 209.414 |
| Sr 216.596 | 175.066                  | 172.261 | 172.102 |
| Ti 334.941 | 571.434                  | 569.259 | 570.739 |
| Tl 190.794 | 40.0633                  | 44.7651 | 44.6252 |
| V 292.401  | 195.905                  | 196.339 | 195.618 |
| Zn 206.200 | 251.529                  | 247.297 | 246.936 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 54.5129     | ppb   | 0.2394  | 0.4  | 3799.90    |
| Al 308.215 | 48270.6     | ppb   | 124.374 | 0.3  | 284942     |
| As 188.980 | 750.992     | ppb   | 8.0764  | 1.1  | 439.190    |
| B 249.678  | 215.999     | ppb   | 1.3763  | 0.6  | 2887.32    |
| Ba 389.178 | 246.240     | ppb   | 0.6129  | 0.2  | 4558.48    |
| Be 313.042 | 54.3275     | ppb   | 0.1135  | 0.2  | 95644.0    |
| Ca 370.602 | 15615       | ppb   | 75.97   | 0.5  | 28414      |
| Cd 226.502 | 52.1787     | ppb   | 0.2181  | 0.4  | 1907.21    |
| Co 228.615 | 58.0476     | ppb   | 0.8085  | 1.4  | 670.407    |
| Cr 267.716 | 711.607     | ppb   | 2.2259  | 0.3  | 32234.0    |
| Cu 324.754 | 509.524     | ppb   | 1.8754  | 0.4  | 27360.5    |
| Fe 271.441 | 64096.7     | ppb   | 96.8856 | 0.2  | 98002.0    |
| K 766.491  | 6567.11     | ppb   | 10.9186 | 0.2  | 213323     |
| Mg 279.078 | 7122.00     | ppb   | 21.6612 | 0.3  | 15012.7    |
| Mn 257.610 | 779.064     | ppb   | 1.4899  | 0.2  | 169979     |
| Mo 202.032 | 100.544     | ppb   | 0.3819  | 0.4  | 664.085    |
| Na 330.237 | 5066.39     | ppb   | 173.143 | 3.4  | 259.645    |
| Ni 231.604 | 125.020     | ppb   | 1.3920  | 1.1  | 323.615    |
| Pb 220.353 | 95.1579     | ppb   | 1.3728  | 1.4  | 167.465    |
| Sb 206.834 | 33.9197     | ppb   | 1.2852  | 3.8  | 34.2272    |
| Se 196.026 | 107.803     | ppb   | 2.3439  | 2.2  | 58.1990    |
| Sn 189.925 | 210.180     | ppb   | 1.4831  | 0.7  | 158.069    |
| Sr 216.596 | 173.143     | ppb   | 1.6672  | 1.0  | 1864.55    |
| Ti 334.941 | 570.478     | ppb   | 1.1109  | 0.2  | 143145     |
| Tl 190.794 | 43.1512     | ppb   | 2.6751  | 6.2  | 17.8188    |
| V 292.401  | 195.954     | ppb   | 0.3626  | 0.2  | 4575.19    |
| Zn 206.200 | 248.587     | ppb   | 2.5543  | 1.0  | 326.872    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90592-a-10-c msd (Samp) 5/28/2013, 10:21:12 PM Rack 2, Tube 48****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 53.1481                  | 53.7102 | 53.1406 |
| Al 308.215 | 49209.8                  | 49200.8 | 49215.2 |
| As 188.980 | 585.087                  | 587.158 | 580.547 |
| B 249.678  | 204.966                  | 206.350 | 206.188 |
| Ba 389.178 | 258.126                  | 256.485 | 259.060 |
| Be 313.042 | 53.1897                  | 53.1873 | 53.3136 |
| Ca 370.602 | 24822                    | 24738   | 24808   |
| Cd 226.502 | 51.1545                  | 51.4444 | 51.7853 |
| Co 228.615 | 57.3016                  | 57.8918 | 57.5705 |
| Cr 267.716 | 564.517                  | 563.722 | 564.995 |
| Cu 324.754 | 390.658                  | 393.338 | 394.610 |
| Fe 271.441 | 61918.5                  | 61786.9 | 62013.3 |
| K 766.491  | 6563.26                  | 6543.60 | 6530.79 |
| Mg 279.078 | 7255.84                  | 7256.98 | 7250.55 |
| Mn 257.610 | 756.258                  | 755.361 | 756.958 |
| Mo 202.032 | 101.832                  | 102.133 | 100.315 |
| Na 330.237 | 5132.57                  | 5141.07 | 5137.97 |
| Ni 231.604 | 151.908                  | 152.142 | 151.176 |
| Pb 220.353 | 95.0912                  | 91.2840 | 91.9816 |
| Sb 206.834 | 27.8793                  | 33.4107 | 32.2504 |
| Se 196.026 | 102.584                  | 100.601 | 97.7461 |
| Sn 189.925 | 208.821                  | 210.741 | 210.023 |
| Sr 216.596 | 180.875                  | 182.227 | 181.777 |
| Ti 334.941 | 542.858                  | 542.708 | 544.506 |
| Tl 190.794 | 37.7461                  | 38.1105 | 43.3199 |
| V 292.401  | 196.265                  | 196.391 | 198.076 |
| Zn 206.200 | 212.897                  | 214.454 | 213.852 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 53.3329     | ppb   | 0.3267  | 0.6  | 3716.17    |
| Al 308.215 | 49208.6     | ppb   | 7.3111  | 0.0  | 290476     |
| As 188.980 | 584.264     | ppb   | 3.3814  | 0.6  | 340.777    |
| B 249.678  | 205.835     | ppb   | 0.7568  | 0.4  | 2754.90    |
| Ba 389.178 | 257.890     | ppb   | 1.3035  | 0.5  | 4768.37    |
| Be 313.042 | 53.2302     | ppb   | 0.0723  | 0.1  | 93709.9    |
| Ca 370.602 | 24790       | ppb   | 45.06   | 0.2  | 46999      |
| Cd 226.502 | 51.4614     | ppb   | 0.3158  | 0.6  | 1877.91    |
| Co 228.615 | 57.5880     | ppb   | 0.2955  | 0.5  | 664.080    |
| Cr 267.716 | 564.411     | ppb   | 0.6430  | 0.1  | 25570.5    |
| Cu 324.754 | 392.869     | ppb   | 2.0171  | 0.5  | 21136.1    |
| Fe 271.441 | 61906.2     | ppb   | 113.671 | 0.2  | 94653.5    |
| K 766.491  | 6545.88     | ppb   | 16.3515 | 0.2  | 212635     |
| Mg 279.078 | 7254.46     | ppb   | 3.4283  | 0.0  | 15291.2    |
| Mn 257.610 | 756.192     | ppb   | 0.8001  | 0.1  | 164991     |
| Mo 202.032 | 101.427     | ppb   | 0.9743  | 1.0  | 669.959    |
| Na 330.237 | 5137.20     | ppb   | 4.3021  | 0.1  | 264.098    |
| Ni 231.604 | 151.742     | ppb   | 0.5037  | 0.3  | 392.900    |
| Pb 220.353 | 92.7856     | ppb   | 2.0269  | 2.2  | 163.794    |
| Sb 206.834 | 31.1801     | ppb   | 2.9169  | 9.4  | 30.2944    |
| Se 196.026 | 100.310     | ppb   | 2.4320  | 2.4  | 54.6674    |
| Sn 189.925 | 209.862     | ppb   | 0.9702  | 0.5  | 157.814    |
| Sr 216.596 | 181.627     | ppb   | 0.6884  | 0.4  | 1951.01    |
| Ti 334.941 | 543.357     | ppb   | 0.9977  | 0.2  | 136339     |
| Tl 190.794 | 39.7255     | ppb   | 3.1182  | 7.8  | 15.1522    |
| V 292.401  | 196.911     | ppb   | 1.0114  | 0.5  | 4604.04    |
| Zn 206.200 | 213.734     | ppb   | 0.7852  | 0.4  | 281.994    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-11-a (Samp) 5/28/2013, 10:34:59 PM Rack 2, Tube 51

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1709                   | -0.1321u | -0.6876u |
| Al 308.215 | 19617.2                  | 19735.7  | 19429.1  |
| As 188.980 | 269.929                  | 276.419  | 267.248  |
| B 249.678  | 18.0306                  | 17.4413  | 16.4388  |
| Ba 389.178 | 135.512                  | 135.597  | 134.459  |
| Be 313.042 | 0.6751                   | 0.6779   | 0.6558   |
| Ca 370.602 | 3658                     | 3671     | 3638     |
| Cd 226.502 | -0.3358                  | -0.1488  | -0.1458  |
| Co 228.615 | 6.8916                   | 6.9824   | 6.8168   |
| Cr 267.716 | 289.496                  | 290.456  | 286.758  |
| Cu 324.754 | 154.558                  | 155.087  | 151.849  |
| Fe 271.441 | 41984.0                  | 42119.6  | 41550.3  |
| K 766.491  | 802.619                  | 804.758  | 799.010  |
| Mg 279.078 | 1181.80                  | 1181.19  | 1175.71  |
| Mn 257.610 | 896.937                  | 900.356  | 888.435  |
| Mo 202.032 | 3.0649                   | 2.5709   | 2.3363   |
| Na 330.237 | 217.304u                 | 8.3042u  | 357.960  |
| Ni 231.604 | 13.6511                  | 14.3170  | 14.5485  |
| Pb 220.353 | 74.1970                  | 73.4191  | 72.4736  |
| Sb 206.834 | 7.8798                   | 5.9151   | 4.3857   |
| Se 196.026 | -0.1847                  | -9.5151u | 7.9415   |
| Sn 189.925 | 31.7249                  | 28.4606  | 25.5533  |
| Sr 216.596 | 28.7434                  | 29.9115  | 28.7287  |
| Ti 334.941 | 394.061                  | 395.872  | 390.911  |
| Tl 190.794 | 1.1624u                  | 4.0996   | 0.5971u  |
| V 292.401  | 66.5810                  | 66.5962  | 66.1175  |
| Zn 206.200 | 184.243                  | 180.852  | 176.856  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2163     | ppb   | 0.4354  | 201.3  | -57.7552   |
| Al 308.215 | 19594.0     | ppb   | 154.609 | 0.8    | 115774     |
| As 188.980 | 271.199     | ppb   | 4.7153  | 1.7    | 155.870    |
| B 249.678  | 17.3036     | ppb   | 0.8048  | 4.7    | 260.213    |
| Ba 389.178 | 135.190     | ppb   | 0.6339  | 0.5    | 2499.57    |
| Be 313.042 | 0.6696      | ppb   | 0.0120  | 1.8    | 934.866    |
| Ca 370.602 | 3655        | ppb   | 16.81   | 0.5    | 5385       |
| Cd 226.502 | -0.2102     | ppb   | 0.1089  | 51.8   | 118.649    |
| Co 228.615 | 6.8969      | ppb   | 0.0829  | 1.2    | 91.9832    |
| Cr 267.716 | 288.903     | ppb   | 1.9189  | 0.7    | 13096.8    |
| Cu 324.754 | 153.831     | ppb   | 1.7371  | 1.1    | 8375.21    |
| Fe 271.441 | 41884.6     | ppb   | 297.357 | 0.7    | 64042.9    |
| K 766.491  | 802.129     | ppb   | 2.9050  | 0.4    | 26316.1    |
| Mg 279.078 | 1179.57     | ppb   | 3.3527  | 0.3    | 2503.90    |
| Mn 257.610 | 895.243     | ppb   | 6.1383  | 0.7    | 195187     |
| Mo 202.032 | 2.6574      | ppb   | 0.3719  | 14.0   | 24.3974    |
| Na 330.237 | 194.523     | ppb   | 175.938 | 90.4   | 39.8567    |
| Ni 231.604 | 14.1722     | ppb   | 0.4659  | 3.3    | 35.6622    |
| Pb 220.353 | 73.3632     | ppb   | 0.8630  | 1.2    | 134.376    |
| Sb 206.834 | 6.0602      | ppb   | 1.7516  | 28.9   | 4.2299     |
| Se 196.026 | -0.5861     | ppb   | 8.7352  | 1490.5 | 7.2482     |
| Sn 189.925 | 28.5796     | ppb   | 3.0876  | 10.8   | 10.3914    |
| Sr 216.596 | 29.1278     | ppb   | 0.6787  | 2.3    | 355.826    |
| Ti 334.941 | 393.615     | ppb   | 2.5102  | 0.6    | 98733.2    |
| Tl 190.794 | 1.9530      | ppb   | 1.8804  | 96.3   | -14.7414   |
| V 292.401  | 66.4316     | ppb   | 0.2721  | 0.4    | 1545.95    |
| Zn 206.200 | 180.650     | ppb   | 3.6976  | 2.0    | 239.667    |

680-90592-a-12-a (Samp) 5/28/2013, 10:39:34 PM Rack 2, Tube 52

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -10.7409u                | -11.3511u | -10.7148u |
| Al 308.215 | 63854.6                  | 64520.9   | 63510.7   |
| As 188.980 | 30.6839                  | 25.7778   | 26.6633   |
| B 249.678  | 10.6388                  | 10.8022   | 10.1397   |
| Ba 389.178 | 155.596                  | 157.324   | 155.199   |
| Be 313.042 | 3.8466                   | 3.8940    | 3.8233    |
| Ca 370.602 | 3096                     | 3110      | 3089      |
| Cd 226.502 | -0.4264                  | -0.4509   | -0.5209   |
| Co 228.615 | 44.5271                  | 45.7278   | 44.8006   |
| Cr 267.716 | 64.7092                  | 65.2090   | 64.1442   |
| Cu 324.754 | 28.1763                  | 29.2276   | 28.4242   |
| Fe 271.441 | 58763.0                  | 59398.6   | 58435.5   |
| K 766.491  | 1406.12                  | 1416.01   | 1402.78   |
| Mg 279.078 | 2503.20                  | 2518.87   | 2491.88   |
| Mn 257.610 | 300.722                  | 304.413   | 299.456   |
| Mo 202.032 | 3.0903                   | 2.5977    | 3.3265    |
| Na 330.237 | 100.931u                 | 138.048u  | 103.729u  |
| Ni 231.604 | 17.3557                  | 15.9375   | 16.9299   |
| Pb 220.353 | 75.3792                  | 74.2027   | 74.5568   |
| Sb 206.834 | 3.6446                   | -1.4781   | -1.2602   |
| Se 196.026 | -5.5003u                 | -3.4884u  | -7.0277u  |
| Sn 189.925 | 17.7456                  | 12.3534   | 12.8654   |
| Sr 216.596 | 28.7431                  | 27.8081   | 27.4138   |
| Ti 334.941 | 543.549                  | 548.583   | 540.093   |
| Tl 190.794 | 3.5040u                  | 6.1196    | 4.8046    |
| V 292.401  | 169.845                  | 171.063   | 168.310   |
| Zn 206.200 | 32.6977                  | 31.7274   | 32.0079   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -10.9356    | ppb   | 0.3601  | 3.3   | -816.307   |
| Al 308.215 | 63962.1     | ppb   | 513.631 | 0.8   | 377519     |
| As 188.980 | 27.7084     | ppb   | 2.6147  | 9.4   | 12.3580    |
| B 249.678  | 10.5269     | ppb   | 0.3451  | 3.3   | 137.425    |
| Ba 389.178 | 156.039     | ppb   | 1.1300  | 0.7   | 2900.90    |
| Be 313.042 | 3.8546      | ppb   | 0.0360  | 0.9   | 6557.42    |
| Ca 370.602 | 3099        | ppb   | 10.91   | 0.4   | 3447       |
| Cd 226.502 | -0.4661     | ppb   | 0.0490  | 10.5  | 153.464    |
| Co 228.615 | 45.0185     | ppb   | 0.6293  | 1.4   | 523.859    |
| Cr 267.716 | 64.6875     | ppb   | 0.5328  | 0.8   | 2948.73    |
| Cu 324.754 | 28.6094     | ppb   | 0.5496  | 1.9   | 1698.70    |
| Fe 271.441 | 58865.7     | ppb   | 489.703 | 0.8   | 90003.4    |
| K 766.491  | 1408.30     | ppb   | 6.8801  | 0.5   | 45979.5    |
| Mg 279.078 | 2504.65     | ppb   | 13.5499 | 0.5   | 5293.27    |
| Mn 257.610 | 301.531     | ppb   | 2.5754  | 0.9   | 65892.8    |
| Mo 202.032 | 3.0049      | ppb   | 0.3719  | 12.4  | 25.7265    |
| Na 330.237 | 114.236     | ppb   | 20.6690 | 18.1  | 32.9785    |
| Ni 231.604 | 16.7410     | ppb   | 0.7277  | 4.3   | 42.6115    |
| Pb 220.353 | 74.7129     | ppb   | 0.6036  | 0.8   | 136.541    |
| Sb 206.834 | 0.3021      | ppb   | 2.8968  | 958.8 | -2.7892    |
| Se 196.026 | -5.3388     | ppb   | 1.7752  | 33.3  | 4.9319     |
| Sn 189.925 | 14.3215     | ppb   | 2.9764  | 20.8  | -1.2037    |
| Sr 216.596 | 27.9883     | ppb   | 0.6827  | 2.4   | 358.413    |
| Ti 334.941 | 544.075     | ppb   | 4.2693  | 0.8   | 136501     |
| Tl 190.794 | 4.8094      | ppb   | 1.3078  | 27.2  | -12.9451   |
| V 292.401  | 169.740     | ppb   | 1.3795  | 0.8   | 3999.11    |
| Zn 206.200 | 32.1443     | ppb   | 0.4993  | 1.6   | 5133941    |

680-90592-a-13-a (Samp) 5/28/2013, 10:44:10 PM Rack 2, Tube 53

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.5285u                 | -0.8731u | -1.1801u |
| Al 308.215 | 37301.0                  | 37359.4  | 37259.9  |
| As 188.980 | 35.5695                  | 41.4690  | 36.9306  |
| B 249.678  | 7.1333u                  | 6.9378u  | 7.2384u  |
| Ba 389.178 | 107.137                  | 109.588  | 107.321  |
| Be 313.042 | 1.2121                   | 1.2139   | 1.2068   |
| Ca 370.602 | 3150                     | 3168     | 3150     |
| Cd 226.502 | -0.8090                  | -1.0797  | -0.9209  |
| Co 228.615 | 13.9279                  | 13.3759  | 12.4904  |
| Cr 267.716 | 56.2025                  | 56.4627  | 55.8093  |
| Cu 324.754 | 20.1605                  | 19.9555  | 19.2070  |
| Fe 271.441 | 66281.0                  | 66440.9  | 66253.2  |
| K 766.491  | 1099.55                  | 1104.76  | 1097.60  |
| Mg 279.078 | 1516.19                  | 1511.49  | 1507.39  |
| Mn 257.610 | 320.725                  | 321.190  | 320.003  |
| Mo 202.032 | 2.8063                   | 1.6064   | 2.3440   |
| Na 330.237 | 338.710u                 | 248.791u | 209.247u |
| Ni 231.604 | 23.7619                  | 24.3628  | 23.0537  |
| Pb 220.353 | 52.5997                  | 50.1509  | 51.7564  |
| Sb 206.834 | 5.5564                   | -1.8617  | 3.7105   |
| Se 196.026 | -4.1886u                 | -5.6130u | -0.9218u |
| Sn 189.925 | 11.7089                  | 15.0829  | 12.3486  |
| Sr 216.596 | 31.1819                  | 31.0561  | 31.0153  |
| Ti 334.941 | 427.947                  | 428.856  | 427.475  |
| Tl 190.794 | 4.1657u                  | 5.4943   | 9.0147   |
| V 292.401  | 124.788                  | 124.724  | 124.338  |
| Zn 206.200 | 31.2072                  | 33.7539  | 32.5191  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.1939     | ppb   | 0.3279  | 27.5  | -129.050   |
| Al 308.215 | 37306.8     | ppb   | 50.0121 | 0.1   | 220266     |
| As 188.980 | 37.9897     | ppb   | 3.0891  | 8.1   | 18.1110    |
| B 249.678  | 7.1032      | ppb   | 0.1526  | 2.1   | 77.4297    |
| Ba 389.178 | 108.015     | ppb   | 1.3650  | 1.3   | 2033.01    |
| Be 313.042 | 1.2109      | ppb   | 0.0037  | 0.3   | 1889.61    |
| Ca 370.602 | 3156        | ppb   | 10.21   | 0.3   | 3145       |
| Cd 226.502 | -0.9365     | ppb   | 0.1360  | 14.5  | 156.975    |
| Co 228.615 | 13.2647     | ppb   | 0.7252  | 5.5   | 164.460    |
| Cr 267.716 | 56.1582     | ppb   | 0.3290  | 0.6   | 2564.35    |
| Cu 324.754 | 19.7743     | ppb   | 0.5019  | 2.5   | 1230.16    |
| Fe 271.441 | 66325.0     | ppb   | 101.290 | 0.2   | 101401     |
| K 766.491  | 1100.64     | ppb   | 3.7034  | 0.3   | 35999.3    |
| Mg 279.078 | 1511.69     | ppb   | 4.4008  | 0.3   | 3211.57    |
| Mn 257.610 | 320.639     | ppb   | 0.5979  | 0.2   | 70067.7    |
| Mo 202.032 | 2.2522      | ppb   | 0.6052  | 26.9  | 20.5367    |
| Na 330.237 | 265.582     | ppb   | 66.3451 | 25.0  | 38.3801    |
| Ni 231.604 | 23.7261     | ppb   | 0.6553  | 2.8   | 60.9441    |
| Pb 220.353 | 51.5023     | ppb   | 1.2440  | 2.4   | 103.023    |
| Sb 206.834 | 2.4684      | ppb   | 3.8619  | 156.5 | -0.6327    |
| Se 196.026 | -3.5745     | ppb   | 2.4052  | 67.3  | 5.7894     |
| Sn 189.925 | 13.0468     | ppb   | 1.7921  | 13.7  | -2.2403    |
| Sr 216.596 | 31.0844     | ppb   | 0.0868  | 0.3   | 396.768    |
| Ti 334.941 | 428.093     | ppb   | 0.7017  | 0.2   | 107390     |
| Tl 190.794 | 6.2249      | ppb   | 2.5057  | 40.3  | -12.2857   |
| V 292.401  | 124.616     | ppb   | 0.2435  | 0.2   | 2931.95    |
| Zn 206.200 | 32.4934     | ppb   | 1.2736  | 217.3 | 47.9426    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-14-a (Samp) 5/28/2013, 10:48:45 PM Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.0683u                 | -1.9752u | -1.6756u |
| Al 308.215 | 88480.6                  | 88654.9  | 88936.3  |
| As 188.980 | 52.4709                  | 40.9282  | 51.8290  |
| B 249.678  | 8.3049u                  | 8.4840u  | 8.9370u  |
| Ba 389.178 | 268.056                  | 268.319  | 271.618  |
| Be 313.042 | 2.6015                   | 2.6155   | 2.6035   |
| Ca 370.602 | 11878                    | 11915    | 11947    |
| Cd 226.502 | -1.5891                  | -1.5492  | -1.6276  |
| Co 228.615 | 20.9540                  | 22.0668  | 22.5419  |
| Cr 267.716 | 132.553                  | 132.898  | 132.948  |
| Cu 324.754 | 46.6119                  | 46.4290  | 47.5455  |
| Fe 271.441 | 134659                   | 135271   | 135717   |
| K 766.491  | 2165.12                  | 2175.42  | 2185.72  |
| Mg 279.078 | 4092.45                  | 4111.48  | 4125.51  |
| Mn 257.610 | 382.928                  | 388.048  | 387.040  |
| Mo 202.032 | 6.5469                   | 5.5946   | 6.7849   |
| Na 330.237 | 474.559u                 | 442.513u | 430.093u |
| Ni 231.604 | 30.6580                  | 28.6584  | 29.5218  |
| Pb 220.353 | 70.9954                  | 74.6456  | 75.4121  |
| Sb 206.834 | 1.5706                   | 0.8613   | 4.1645   |
| Se 196.026 | -14.6161u                | -8.9918u | -7.5429u |
| Sn 189.925 | 16.6864                  | 16.9584  | 17.1519  |
| Sr 216.596 | 62.6113                  | 63.5870  | 63.3531  |
| Ti 334.941 | 920.422                  | 923.672  | 926.841  |
| Tl 190.794 | 1.4057u                  | 2.1623u  | 1.2695u  |
| V 292.401  | 264.287                  | 265.334  | 266.145  |
| Zn 206.200 | 61.3224                  | 63.2627  | 61.4032  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -1.9063     | ppb   | 0.2052  | 10.8 | -179.738   |
| Al 308.215 | 88690.6     | ppb   | 229.965 | 0.3  | 523398     |
| As 188.980 | 48.4093     | ppb   | 6.4868  | 13.4 | 24.0962    |
| B 249.678  | 8.5753      | ppb   | 0.3258  | 3.8  | -31.7731   |
| Ba 389.178 | 269.331     | ppb   | 1.9848  | 0.7  | 5051.71    |
| Be 313.042 | 2.6068      | ppb   | 0.0076  | 0.3  | 4354.32    |
| Ca 370.602 | 11913       | ppb   | 34.34   | 0.3  | 17475      |
| Cd 226.502 | -1.5886     | ppb   | 0.0392  | 2.5  | 311.060    |
| Co 228.615 | 21.8542     | ppb   | 0.8150  | 3.7  | 274.353    |
| Cr 267.716 | 132.800     | ppb   | 0.2153  | 0.2  | 6049.24    |
| Cu 324.754 | 46.8622     | ppb   | 0.5988  | 1.3  | 2695.74    |
| Fe 271.441 | 135216      | ppb   | 531.246 | 0.4  | 206704     |
| K 766.491  | 2175.42     | ppb   | 10.3002 | 0.5  | 70863.7    |
| Mg 279.078 | 4109.81     | ppb   | 16.5951 | 0.4  | 8678.01    |
| Mn 257.610 | 386.005     | ppb   | 2.7118  | 0.7  | 84506.5    |
| Mo 202.032 | 6.3088      | ppb   | 0.6299  | 10.0 | 43.7357    |
| Na 330.237 | 449.055     | ppb   | 22.9433 | 5.1  | 26.1499    |
| Ni 231.604 | 29.6127     | ppb   | 1.0029  | 3.4  | 77.6290    |
| Pb 220.353 | 73.6843     | ppb   | 2.3600  | 3.2  | 139.276    |
| Sb 206.834 | 2.1988      | ppb   | 1.7389  | 79.1 | 1.2274     |
| Se 196.026 | -10.3836    | ppb   | 3.7363  | 36.0 | 2.8309     |
| Sn 189.925 | 16.9322     | ppb   | 0.2338  | 1.4  | 0.9209     |
| Sr 216.596 | 63.1838     | ppb   | 0.5094  | 0.8  | 788.777    |
| Ti 334.941 | 923.645     | ppb   | 3.2096  | 0.3  | 231772     |
| Tl 190.794 | 1.6125      | ppb   | 0.4810  | 29.8 | -19.5902   |
| V 292.401  | 265.255     | ppb   | 0.9314  | 0.4  | 6257.57    |
| Zn 206.200 | 61.9961     | ppb   | 1.0977  | 1.8  | 866868     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-15-a (Samp) 5/28/2013, 10:53:21 PM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0458u                 | -0.2597u | -0.6116u |
| Al 308.215 | 46095.0                  | 46120.2  | 46279.3  |
| As 188.980 | 44.9536                  | 29.2980  | 31.8579  |
| B 249.678  | 15.7191                  | 15.2330  | 15.8057  |
| Ba 389.178 | 239.260                  | 239.279  | 239.128  |
| Be 313.042 | 1.5777                   | 1.5678   | 1.5682   |
| Ca 370.602 | 84526                    | 84904    | 85231    |
| Cd 226.502 | -0.7773                  | -0.5168  | -0.6252  |
| Co 228.615 | 35.5327                  | 35.9225  | 35.7179  |
| Cr 267.716 | 78.4899                  | 78.6700  | 78.6336  |
| Cu 324.754 | 34.7536                  | 34.5312  | 35.0424  |
| Fe 271.441 | 65810.1                  | 65753.1  | 65894.8  |
| K 766.491  | 1480.67                  | 1470.50  | 1467.08  |
| Mg 279.078 | 4861.44                  | 4868.37  | 4873.59  |
| Mn 257.610 | 957.291                  | 958.380  | 961.087  |
| Mo 202.032 | 3.8931                   | 3.0894   | 3.1921   |
| Na 330.237 | 366.250u                 | 303.255u | 329.326u |
| Ni 231.604 | 25.3008                  | 25.0584  | 26.6606  |
| Pb 220.353 | 74.7801                  | 70.8447  | 76.8017  |
| Sb 206.834 | 10.1434                  | 5.8731   | 3.4212   |
| Se 196.026 | 0.4229                   | -5.3181u | -0.1218  |
| Sn 189.925 | 10.9751                  | 11.8254  | 12.4313  |
| Sr 216.596 | 180.143                  | 181.063  | 181.389  |
| Ti 334.941 | 671.518                  | 670.214  | 671.722  |
| Tl 190.794 | 0.8477u                  | -1.2541u | -0.5227u |
| V 292.401  | 128.457                  | 129.183  | 128.661  |
| Zn 206.200 | 63.6603                  | 62.1699  | 63.1661  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.3057     | ppb   | 0.2857  | 93.5  | -70.0943   |
| Al 308.215 | 46164.8     | ppb   | 99.9526 | 0.2   | 272526     |
| As 188.980 | 35.3698     | ppb   | 8.3979  | 23.7  | 16.6513    |
| B 249.678  | 15.5860     | ppb   | 0.3087  | 2.0   | 192.325    |
| Ba 389.178 | 239.223     | ppb   | 0.0823  | 0.0   | 4427.53    |
| Be 313.042 | 1.5712      | ppb   | 0.0056  | 0.4   | 2553.14    |
| Ca 370.602 | 84887       | ppb   | 352.6   | 0.4   | 167923     |
| Cd 226.502 | -0.6398     | ppb   | 0.1308  | 20.5  | 165.514    |
| Co 228.615 | 35.7243     | ppb   | 0.1950  | 0.5   | 422.396    |
| Cr 267.716 | 78.5978     | ppb   | 0.0952  | 0.1   | 3583.05    |
| Cu 324.754 | 34.7758     | ppb   | 0.2563  | 0.7   | 2030.34    |
| Fe 271.441 | 65819.3     | ppb   | 71.3299 | 0.1   | 100631     |
| K 766.491  | 1472.75     | ppb   | 7.0675  | 0.5   | 48070.1    |
| Mg 279.078 | 4867.80     | ppb   | 6.0951  | 0.1   | 10264.7    |
| Mn 257.610 | 958.919     | ppb   | 1.9548  | 0.2   | 209151     |
| Mo 202.032 | 3.3916      | ppb   | 0.4374  | 12.9  | 28.0124    |
| Na 330.237 | 332.944     | ppb   | 31.6532 | 9.5   | 40.4519    |
| Ni 231.604 | 25.6733     | ppb   | 0.8636  | 3.4   | 65.9413    |
| Pb 220.353 | 74.1422     | ppb   | 3.0293  | 4.1   | 136.486    |
| Sb 206.834 | 6.4793      | ppb   | 3.4018  | 52.5  | 3.3771     |
| Se 196.026 | -1.6723     | ppb   | 3.1690  | 189.5 | 6.8309     |
| Sn 189.925 | 11.7439     | ppb   | 0.7315  | 6.2   | -3.2652    |
| Sr 216.596 | 180.865     | ppb   | 0.6461  | 0.4   | 1955.80    |
| Ti 334.941 | 671.151     | ppb   | 0.8182  | 0.1   | 168401     |
| Tl 190.794 | -0.3097     | ppb   | 1.0669  | 344.5 | -17.7647   |
| V 292.401  | 128.767     | ppb   | 0.3748  | 0.3   | 3032.11    |
| Zn 206.200 | 62.9988     | ppb   | 0.7592  | 1.2   | 87.5407    |



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**680-90592-a-16-a (Samp) 5/28/2013, 10:57:56 PM Rack 2, Tube 56****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.2305u                 | -0.7427u | -0.9615u |
| Al 308.215 | 97602.6                  | 97093.8  | 95735.7  |
| As 188.980 | 122.523                  | 128.887  | 122.530  |
| B 249.678  | 8.6335u                  | 8.4476u  | 8.5268u  |
| Ba 389.178 | 278.371                  | 277.102  | 274.176  |
| Be 313.042 | 2.4480                   | 2.4290   | 2.3875   |
| Ca 370.602 | 7447                     | 7422     | 7377     |
| Cd 226.502 | -1.8052                  | -1.7650  | -2.0509  |
| Co 228.615 | 33.0677                  | 32.4841  | 33.5716  |
| Cr 267.716 | 132.924                  | 131.992  | 130.025  |
| Cu 324.754 | 55.2607                  | 54.8917  | 54.9922  |
| Fe 271.441 | 165074                   | 164348   | 162042   |
| K 766.491  | 2692.26                  | 2701.66  | 2673.49  |
| Mg 279.078 | 5162.87                  | 5134.23  | 5059.29  |
| Mn 257.610 | 203.031                  | 202.091  | 199.372  |
| Mo 202.032 | 5.5023                   | 5.5104   | 5.8585   |
| Na 330.237 | 988.600u                 | 914.514u | 827.846u |
| Ni 231.604 | 32.0660                  | 31.1477  | 32.4812  |
| Pb 220.353 | 63.0013                  | 72.6384  | 65.2230  |
| Sb 206.834 | 5.2949                   | 7.2054   | -0.4856  |
| Se 196.026 | -0.6729                  | 7.0795   | -2.6233u |
| Sn 189.925 | 10.0326                  | 11.6781  | 10.1921  |
| Sr 216.596 | 86.9514                  | 85.6440  | 84.5605  |
| Ti 334.941 | 839.585                  | 836.970  | 825.637  |
| Tl 190.794 | 1.1698u                  | 4.0829u  | 4.4700u  |
| V 292.401  | 281.623                  | 281.189  | 277.221  |
| Zn 206.200 | 82.3957                  | 82.6182  | 80.0429  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.9782     | ppb   | 0.2443  | 25.0  | -115.980   |
| Al 308.215 | 96810.7     | ppb   | 965.073 | 1.0   | 571303     |
| As 188.980 | 124.646     | ppb   | 3.6722  | 2.9   | 68.9184    |
| B 249.678  | 8.5360      | ppb   | 0.0933  | 1.1   | -85.8567   |
| Ba 389.178 | 276.550     | ppb   | 2.1515  | 0.8   | 5217.11    |
| Be 313.042 | 2.4215      | ppb   | 0.0309  | 1.3   | 4025.28    |
| Ca 370.602 | 7415        | ppb   | 35.91   | 0.5   | 6933       |
| Cd 226.502 | -1.8737     | ppb   | 0.1548  | 8.3   | 374.566    |
| Co 228.615 | 33.0411     | ppb   | 0.5442  | 1.6   | 399.185    |
| Cr 267.716 | 131.647     | ppb   | 1.4802  | 1.1   | 6002.48    |
| Cu 324.754 | 55.0482     | ppb   | 0.1908  | 0.3   | 3141.35    |
| Fe 271.441 | 163821      | ppb   | 1583.29 | 1.0   | 250428     |
| K 766.491  | 2689.14     | ppb   | 14.3402 | 0.5   | 87527.8    |
| Mg 279.078 | 5118.80     | ppb   | 53.4869 | 1.0   | 10808.1    |
| Mn 257.610 | 201.498     | ppb   | 1.9000  | 0.9   | 44390.8    |
| Mo 202.032 | 5.6237      | ppb   | 0.2034  | 3.6   | 37.9285    |
| Na 330.237 | 910.320     | ppb   | 80.4592 | 8.8   | 39.9155    |
| Ni 231.604 | 31.8983     | ppb   | 0.6824  | 2.1   | 84.1257    |
| Pb 220.353 | 66.9542     | ppb   | 5.0464  | 7.5   | 130.956    |
| Sb 206.834 | 4.0049      | ppb   | 4.0045  | 100.0 | 3.5803     |
| Se 196.026 | 1.2611      | ppb   | 5.1324  | 407.0 | 8.3496     |
| Sn 189.925 | 10.6343     | ppb   | 0.9075  | 8.5   | -4.2030    |
| Sr 216.596 | 85.7186     | ppb   | 1.1972  | 1.4   | 1046.10    |
| Ti 334.941 | 834.064     | ppb   | 7.4140  | 0.9   | 209298     |
| Tl 190.794 | 3.2409      | ppb   | 1.8040  | 55.7  | -19.6584   |
| V 292.401  | 280.011     | ppb   | 2.4258  | 0.9   | 6605.16    |
| Zn 206.200 | 81.6856     | ppb   | 1.4270  | 1.7   | 513.555    |

680-90592-a-17-a (Samp) 5/28/2013, 11:02:32 PM Rack 2, Tube 57

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.8385u                 | -0.5891u | -0.7362u |
| Al 308.215 | 35587.2                  | 35737.6  | 35533.6  |
| As 188.980 | 109.836                  | 115.760  | 117.142  |
| B 249.678  | 5.1501u                  | 4.9123u  | 4.8516u  |
| Ba 389.178 | 154.775                  | 155.411  | 154.064  |
| Be 313.042 | 1.5894                   | 1.6030   | 1.5992   |
| Ca 370.602 | 2982                     | 3007     | 3004     |
| Cd 226.502 | -0.6468                  | -0.8124  | -0.6395  |
| Co 228.615 | 42.2447                  | 41.4499  | 41.8419  |
| Cr 267.716 | 124.343                  | 124.701  | 124.584  |
| Cu 324.754 | 42.7541                  | 43.5161  | 43.0112  |
| Fe 271.441 | 76212.5                  | 76603.2  | 76372.5  |
| K 766.491  | 1043.73                  | 1043.10  | 1043.97  |
| Mg 279.078 | 1773.09                  | 1776.27  | 1773.95  |
| Mn 257.610 | 350.554                  | 352.255  | 351.067  |
| Mo 202.032 | 3.3496                   | 2.7802   | 3.2430   |
| Na 330.237 | 439.852u                 | 382.922u | 507.701  |
| Ni 231.604 | 36.3349                  | 36.5509  | 36.6603  |
| Pb 220.353 | 65.3653                  | 63.5809  | 64.3585  |
| Sb 206.834 | 5.0485                   | 0.9776   | 2.4594   |
| Se 196.026 | 12.9638                  | 2.9092   | -2.0015u |
| Sn 189.925 | 14.9223                  | 8.9815   | 14.4920  |
| Sr 216.596 | 34.1987                  | 33.9589  | 33.4438  |
| Ti 334.941 | 483.448                  | 485.442  | 484.145  |
| Tl 190.794 | 3.3646u                  | 2.3951u  | -0.3393u |
| V 292.401  | 132.809                  | 133.697  | 132.475  |
| Zn 206.200 | 54.1619                  | 54.3356  | 53.5903  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.7213     | ppb   | 0.1254  | 17.4  | -95.6603   |
| Al 308.215 | 35619.5     | ppb   | 105.737 | 0.3   | 210309     |
| As 188.980 | 114.246     | ppb   | 3.8812  | 3.4   | 63.0254    |
| B 249.678  | 4.9713      | ppb   | 0.1578  | 3.2   | 29.9418    |
| Ba 389.178 | 154.750     | ppb   | 0.6738  | 0.4   | 2895.46    |
| Be 313.042 | 1.5972      | ppb   | 0.0071  | 0.4   | 2570.63    |
| Ca 370.602 | 2998        | ppb   | 13.62   | 0.5   | 2336       |
| Cd 226.502 | -0.6996     | ppb   | 0.0978  | 14.0  | 190.482    |
| Co 228.615 | 41.8455     | ppb   | 0.3974  | 0.9   | 487.636    |
| Cr 267.716 | 124.543     | ppb   | 0.1830  | 0.1   | 5662.15    |
| Cu 324.754 | 43.0938     | ppb   | 0.3877  | 0.9   | 2477.41    |
| Fe 271.441 | 76396.1     | ppb   | 196.448 | 0.3   | 116798     |
| K 766.491  | 1043.60     | ppb   | 0.4497  | 0.0   | 34149.2    |
| Mg 279.078 | 1774.43     | ppb   | 1.6443  | 0.1   | 3766.58    |
| Mn 257.610 | 351.292     | ppb   | 0.8724  | 0.2   | 76773.8    |
| Mo 202.032 | 3.1243      | ppb   | 0.3027  | 9.7   | 25.7761    |
| Na 330.237 | 443.492     | ppb   | 62.4691 | 14.1  | 43.4697    |
| Ni 231.604 | 36.5154     | ppb   | 0.1656  | 0.5   | 94.2721    |
| Pb 220.353 | 64.4349     | ppb   | 0.8946  | 1.4   | 122.873    |
| Sb 206.834 | 2.8285      | ppb   | 2.0604  | 72.8  | 0.5018     |
| Se 196.026 | 4.6239      | ppb   | 7.6286  | 165.0 | 9.6797     |
| Sn 189.925 | 12.7986     | ppb   | 3.3127  | 25.9  | -2.4424    |
| Sr 216.596 | 33.8671     | ppb   | 0.3857  | 1.1   | 433.936    |
| Ti 334.941 | 484.345     | ppb   | 1.0120  | 0.2   | 121509     |
| Tl 190.794 | 1.8068      | ppb   | 1.9208  | 106.3 | -16.3494   |
| V 292.401  | 132.994     | ppb   | 0.6315  | 0.5   | 3127.42    |
| Zn 206.200 | 54.0292     | ppb   | 0.3899  | 0.7   | 75.8233    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90592-a-18-a (Samp) 5/28/2013, 11:07:18 PM Rack 2, Tube 58

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.6375                   | 0.1939   | 0.3641   |
| Al 308.215 | 38002.7                  | 38485.1  | 38077.8  |
| As 188.980 | 33.5043                  | 40.5639  | 30.1197  |
| B 249.678  | 4.8311u                  | 4.4951u  | 5.2671u  |
| Ba 389.178 | 140.289                  | 142.367  | 141.097  |
| Be 313.042 | 1.4655                   | 1.4729   | 1.4515   |
| Ca 370.602 | 2909                     | 2912     | 2910     |
| Cd 226.502 | -0.9070                  | -0.5590  | -1.2109  |
| Co 228.615 | 75.1580                  | 74.4361  | 73.2692  |
| Cr 267.716 | 81.3798                  | 82.4325  | 81.5027  |
| Cu 324.754 | 38.0022                  | 39.2929  | 37.7233  |
| Fe 271.441 | 73206.3                  | 74113.9  | 73260.1  |
| K 766.491  | 957.351                  | 964.343  | 951.019  |
| Mg 279.078 | 1737.36                  | 1754.64  | 1736.14  |
| Mn 257.610 | 276.412                  | 280.137  | 276.644  |
| Mo 202.032 | 2.8163                   | 2.8777   | 2.9289   |
| Na 330.237 | 252.062u                 | 390.521u | 420.848u |
| Ni 231.604 | 32.4588                  | 35.2425  | 34.1416  |
| Pb 220.353 | 36.1124                  | 35.4447  | 40.5268  |
| Sb 206.834 | 1.1820                   | 0.7142   | 5.9434   |
| Se 196.026 | -1.1045u                 | 6.1096   | -0.0590  |
| Sn 189.925 | 14.2178                  | 11.6794  | 14.3078  |
| Sr 216.596 | 26.5128                  | 26.9134  | 26.2586  |
| Ti 334.941 | 437.635                  | 442.604  | 437.313  |
| Tl 190.794 | 5.8190                   | 3.7851u  | 4.1169u  |
| V 292.401  | 131.594                  | 132.687  | 131.447  |
| Zn 206.200 | 46.6565                  | 44.4641  | 45.5491  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.3985      | ppb   | 0.2238  | 56.1  | -16.6046   |
| Al 308.215 | 38188.6     | ppb   | 259.574 | 0.7   | 225465     |
| As 188.980 | 34.7293     | ppb   | 5.3288  | 15.3  | 16.1268    |
| B 249.678  | 4.8644      | ppb   | 0.3871  | 8.0   | 33.8772    |
| Ba 389.178 | 141.251     | ppb   | 1.0480  | 0.7   | 2646.49    |
| Be 313.042 | 1.4633      | ppb   | 0.0109  | 0.7   | 2334.66    |
| Ca 370.602 | 2910        | ppb   | 1.660   | 0.1   | 2288       |
| Cd 226.502 | -0.8923     | ppb   | 0.3262  | 36.6  | 176.798    |
| Co 228.615 | 74.2878     | ppb   | 0.9531  | 1.3   | 851.269    |
| Cr 267.716 | 81.7717     | ppb   | 0.5756  | 0.7   | 3725.14    |
| Cu 324.754 | 38.3395     | ppb   | 0.8374  | 2.2   | 2222.86    |
| Fe 271.441 | 73526.8     | ppb   | 509.191 | 0.7   | 112416     |
| K 766.491  | 957.571     | ppb   | 6.6646  | 0.7   | 31358.5    |
| Mg 279.078 | 1742.71     | ppb   | 10.3465 | 0.6   | 3699.69    |
| Mn 257.610 | 277.731     | ppb   | 2.0873  | 0.8   | 60739.9    |
| Mo 202.032 | 2.8743      | ppb   | 0.0564  | 2.0   | 24.2709    |
| Na 330.237 | 354.477     | ppb   | 89.9808 | 25.4  | 40.3573    |
| Ni 231.604 | 33.9476     | ppb   | 1.4019  | 4.1   | 87.4852    |
| Pb 220.353 | 37.3613     | ppb   | 2.7616  | 7.4   | 82.4182    |
| Sb 206.834 | 2.6132      | ppb   | 2.8935  | 110.7 | -0.1259    |
| Se 196.026 | 1.6487      | ppb   | 3.8985  | 236.5 | 8.2558     |
| Sn 189.925 | 13.4017     | ppb   | 1.4922  | 11.1  | -1.9520    |
| Sr 216.596 | 26.5616     | ppb   | 0.3301  | 1.2   | 355.871    |
| Ti 334.941 | 439.184     | ppb   | 2.9663  | 0.7   | 110175     |
| Tl 190.794 | 4.5736      | ppb   | 1.0912  | 23.9  | -13.8422   |
| V 292.401  | 131.909     | ppb   | 0.6769  | 0.5   | 3103.17    |
| Zn 206.200 | 45.5566     | ppb   | 1.0962  | 2.4   | 649150     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90592-a-19-a (Samp) 5/28/2013, 11:11:55 PM Rack 2, Tube 59****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.9999u                 | -0.6980u | -0.7223u |
| Al 308.215 | 72642.3                  | 72782.3  | 72754.6  |
| As 188.980 | 31.1070                  | 27.9425  | 29.8471  |
| B 249.678  | 403.188                  | 405.543  | 407.247  |
| Ba 389.178 | 2206.85                  | 2213.43  | 2212.51  |
| Be 313.042 | 2.8242                   | 2.8198   | 2.8241   |
| Ca 370.602 | 815578x                  | 824310x  | 814917x  |
| Cd 226.502 | 0.6388                   | 0.3130   | 0.2848   |
| Co 228.615 | 14.2751                  | 14.1961  | 13.8786  |
| Cr 267.716 | 104.940                  | 104.816  | 105.132  |
| Cu 324.754 | 109.590                  | 107.773  | 109.182  |
| Fe 271.441 | 56668.0                  | 56744.9  | 56890.5  |
| K 766.491  | 7997.72                  | 8052.58  | 8083.42  |
| Mg 279.078 | 55285.9                  | 55279.5  | 55406.4  |
| Mn 257.610 | 536.629                  | 537.048  | 537.442  |
| Mo 202.032 | 11.1891                  | 10.1331  | 10.3436  |
| Na 330.237 | 2070.75                  | 2103.36  | 2137.27  |
| Ni 231.604 | 55.1776                  | 54.1945  | 56.0143  |
| Pb 220.353 | 61.6448                  | 58.5041  | 54.0695  |
| Sb 206.834 | 1.9463                   | 8.3823   | 12.3678  |
| Se 196.026 | -0.4857                  | 2.1596   | 0.5635   |
| Sn 189.925 | 15.9325                  | 15.6207  | 9.1402   |
| Sr 216.596 | 2344.84                  | 2346.00  | 2347.57  |
| Ti 334.941 | 3802.56                  | 3808.48  | 3809.24  |
| Tl 190.794 | 3.0896u                  | 0.2157u  | 5.6951   |
| V 292.401  | 139.599                  | 139.841  | 140.619  |
| Zn 206.200 | 117.660                  | 115.094  | 123.075  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.8067b    | ppb   | 0.1677  | 20.8  | -201.098   |
| Al 308.215 | 72726.4b    | ppb   | 74.1432 | 0.1   | 429233     |
| As 188.980 | 29.6322b    | ppb   | 1.5932  | 5.4   | 13.5928    |
| B 249.678  | 405.326b    | ppb   | 2.0384  | 0.5   | 5443.94    |
| Ba 389.178 | 2210.93b    | ppb   | 3.5673  | 0.2   | 40409.9    |
| Be 313.042 | 2.8227b     | ppb   | 0.0025  | 0.1   | 5002.27    |
| Ca 370.602 | 818268xb    | ppb   | 5243    | 0.6   | 1646943    |
| Cd 226.502 | 0.4122b     | ppb   | 0.1968  | 47.7  | 177.774    |
| Co 228.615 | 14.1166b    | ppb   | 0.2099  | 1.5   | 247.685    |
| Cr 267.716 | 104.963b    | ppb   | 0.1592  | 0.2   | 4778.54    |
| Cu 324.754 | 108.848b    | ppb   | 0.9538  | 0.9   | 5979.43    |
| Fe 271.441 | 56767.8b    | ppb   | 113.038 | 0.2   | 86793.8    |
| K 766.491  | 8044.57b    | ppb   | 43.4080 | 0.5   | 261250     |
| Mg 279.078 | 55323.9b    | ppb   | 71.5102 | 0.1   | 116493     |
| Mn 257.610 | 537.039b    | ppb   | 0.4068  | 0.1   | 117611     |
| Mo 202.032 | 10.5553b    | ppb   | 0.5589  | 5.3   | 75.3044    |
| Na 330.237 | 2103.79b    | ppb   | 33.2621 | 1.6   | 114.450    |
| Ni 231.604 | 55.1288b    | ppb   | 0.9109  | 1.7   | 142.219    |
| Pb 220.353 | 58.0728b    | ppb   | 3.8060  | 6.6   | 110.012    |
| Sb 206.834 | 7.5655b     | ppb   | 5.2586  | 69.5  | 4.3659     |
| Se 196.026 | 0.7458b     | ppb   | 1.3320  | 178.6 | 7.8384     |
| Sn 189.925 | 13.5645b    | ppb   | 3.8347  | 28.3  | -1.4788    |
| Sr 216.596 | 2346.13b    | ppb   | 1.3711  | 0.1   | 24446.3    |
| Ti 334.941 | 3806.76b    | ppb   | 3.6549  | 0.1   | 955503     |
| Tl 190.794 | 3.0001b     | ppb   | 2.7408  | 91.4  | -14.4716   |
| V 292.401  | 140.020b    | ppb   | 0.5330  | 0.4   | 3338.66    |
| Zn 206.200 | 118.610b    | ppb   | 4.0741  | 3.4   | 519.701    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

90592-20 (Samp)                      5/28/2013, 11:16:31 PM                      Rack 2, Tube 60  
 Weight: 1                              Volume: 1                              Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0206u                 | 0.1007u  | -0.2975u |
| Al 308.215 | 68169.7                  | 68301.8  | 68278.4  |
| As 188.980 | 44.1215                  | 47.9630  | 37.7237  |
| B 249.678  | 391.367                  | 393.526  | 392.883  |
| Ba 389.178 | 2210.67                  | 2217.26  | 2214.39  |
| Be 313.042 | 2.8548                   | 2.8610   | 2.8539   |
| Ca 370.602 | 775355                   | 773136   | 766485   |
| Cd 226.502 | 0.2820                   | 0.3361   | -0.1767  |
| Co 228.615 | 27.3772                  | 26.9721  | 26.6854  |
| Cr 267.716 | 110.893                  | 110.796  | 111.223  |
| Cu 324.754 | 102.150                  | 104.309  | 103.050  |
| Fe 271.441 | 61450.3                  | 61498.1  | 61331.5  |
| K 766.491  | 13692.9                  | 13644.6  | 13645.5  |
| Mg 279.078 | 51845.2                  | 51916.9  | 51818.4  |
| Mn 257.610 | 559.764                  | 559.675  | 558.492  |
| Mo 202.032 | 10.4834                  | 10.8911  | 10.3743  |
| Na 330.237 | 3753.01                  | 3782.14  | 3822.63  |
| Ni 231.604 | 54.7836                  | 55.0150  | 54.7792  |
| Pb 220.353 | 58.8327                  | 54.1625  | 61.9877  |
| Sb 206.834 | 8.4480                   | 11.9038  | 7.2849   |
| Se 196.026 | 2.2291                   | -9.5300u | -4.6203u |
| Sn 189.925 | 14.9827                  | 12.7395  | 16.1520  |
| Sr 216.596 | 2314.27                  | 2311.79  | 2310.41  |
| Ti 334.941 | 3612.82                  | 3607.14  | 3612.93  |
| Tl 190.794 | 4.7346                   | 3.0620u  | -2.7821u |
| V 292.401  | 145.344                  | 146.614  | 145.891  |
| Zn 206.200 | 120.473                  | 121.812  | 117.953  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.0725b    | ppb   | 0.2041  | 281.7 | -147.464   |
| Al 308.215 | 68250.0b    | ppb   | 70.5033 | 0.1   | 402821     |
| As 188.980 | 43.2694b    | ppb   | 5.1726  | 12.0  | 21.5594    |
| B 249.678  | 392.592b    | ppb   | 1.1085  | 0.3   | 5264.19    |
| Ba 389.178 | 2214.11b    | ppb   | 3.3025  | 0.1   | 40465.8    |
| Be 313.042 | 2.8565b     | ppb   | 0.0039  | 0.1   | 5045.23    |
| Ca 370.602 | 771659b     | ppb   | 4616    | 0.6   | 1552739    |
| Cd 226.502 | 0.1471b     | ppb   | 0.2818  | 191.5 | 180.842    |
| Co 228.615 | 27.0116b    | ppb   | 0.3476  | 1.3   | 388.580    |
| Cr 267.716 | 110.971b    | ppb   | 0.2237  | 0.2   | 5051.20    |
| Cu 324.754 | 103.170b    | ppb   | 1.0847  | 1.1   | 5677.88    |
| Fe 271.441 | 61426.6b    | ppb   | 85.8129 | 0.1   | 93916.4    |
| K 766.491  | 13661.0b    | ppb   | 27.5951 | 0.2   | 443439     |
| Mg 279.078 | 51860.2b    | ppb   | 50.9043 | 0.1   | 109202     |
| Mn 257.610 | 559.310b    | ppb   | 0.7104  | 0.1   | 122448     |
| Mo 202.032 | 10.5830b    | ppb   | 0.2724  | 2.6   | 75.2645    |
| Na 330.237 | 3785.93b    | ppb   | 34.9660 | 0.9   | 192.294    |
| Ni 231.604 | 54.8593b    | ppb   | 0.1349  | 0.2   | 141.588    |
| Pb 220.353 | 58.3276b    | ppb   | 3.9370  | 6.7   | 110.853    |
| Sb 206.834 | 9.2123b     | ppb   | 2.4024  | 26.1  | 6.0962     |
| Se 196.026 | -3.9737b    | ppb   | 5.9061  | 148.6 | 5.6422     |
| Sn 189.925 | 14.6247b    | ppb   | 1.7341  | 11.9  | -0.6361    |
| Sr 216.596 | 2312.15b    | ppb   | 1.9569  | 0.1   | 24093.6    |
| Ti 334.941 | 3610.96b    | ppb   | 3.3140  | 0.1   | 906352     |
| Tl 190.794 | 1.6715b     | ppb   | 3.9466  | 236.1 | -15.7732   |
| V 292.401  | 145.950b    | ppb   | 0.6370  | 0.4   | 3475.83    |
| Zn 206.200 | 120.079b    | ppb   | 1.9598  | 1.6   | 513.635    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

90592-21 (Samp) 5/28/2013, 11:30:20 PM Rack 3, Tube 3

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0746u                 | -0.4574u | -0.2390u |
| Al 308.215 | 81838.6                  | 82102.0  | 82338.0  |
| As 188.980 | 55.5018                  | 35.0394  | 43.1279  |
| B 249.678  | 461.785                  | 464.014  | 467.398  |
| Ba 389.178 | 2461.41                  | 2470.00  | 2475.57  |
| Be 313.042 | 3.4148                   | 3.4367   | 3.4389   |
| Ca 370.602 | 918530x                  | 926411x  | 920684x  |
| Cd 226.502 | 0.0300                   | 0.4889   | 0.2856   |
| Co 228.615 | 24.2256                  | 24.1816  | 24.0550  |
| Cr 267.716 | 137.496                  | 137.532  | 138.328  |
| Cu 324.754 | 119.263                  | 118.493  | 118.613  |
| Fe 271.441 | 72237.2                  | 72307.1  | 72569.4  |
| K 766.491  | 14314.7                  | 14283.5  | 14293.8  |
| Mg 279.078 | 61649.7                  | 61726.1  | 61897.6  |
| Mn 257.610 | 681.568                  | 681.811  | 683.190  |
| Mo 202.032 | 12.7992                  | 12.7730  | 12.4728  |
| Na 330.237 | 3314.73                  | 3316.62  | 3569.71  |
| Ni 231.604 | 64.6783                  | 63.5256  | 65.2652  |
| Pb 220.353 | 94.5326                  | 93.5619  | 96.5840  |
| Sb 206.834 | 5.5618                   | 9.9397   | 11.3981  |
| Se 196.026 | -1.4339u                 | 5.8291   | -2.5990u |
| Sn 189.925 | 18.5002                  | 13.4880  | 15.6592  |
| Sr 216.596 | 2667.22                  | 2671.78  | 2682.23  |
| Ti 334.941 | 4157.02                  | 4166.54  | 4185.20  |
| Tl 190.794 | 1.2300u                  | 5.5930   | 3.3038u  |
| V 292.401  | 166.849                  | 167.317  | 167.866  |
| Zn 206.200 | 141.133                  | 136.559  | 134.858  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2570b    | ppb   | 0.1920  | 74.7  | -175.518   |
| Al 308.215 | 82092.9b    | ppb   | 249.808 | 0.3   | 484488     |
| As 188.980 | 44.5564b    | ppb   | 10.3057 | 23.1  | 22.3451    |
| B 249.678  | 464.399b    | ppb   | 2.8263  | 0.6   | 6208.16    |
| Ba 389.178 | 2468.99b    | ppb   | 7.1345  | 0.3   | 45137.7    |
| Be 313.042 | 3.4301b     | ppb   | 0.0133  | 0.4   | 6106.29    |
| Ca 370.602 | 921875xb    | ppb   | 4073    | 0.4   | 1855011    |
| Cd 226.502 | 0.2681b     | ppb   | 0.2300  | 85.8  | 212.852    |
| Co 228.615 | 24.1541b    | ppb   | 0.0886  | 0.4   | 369.079    |
| Cr 267.716 | 137.785b    | ppb   | 0.4701  | 0.3   | 6268.83    |
| Cu 324.754 | 118.789b    | ppb   | 0.4144  | 0.3   | 6514.51    |
| Fe 271.441 | 72371.3b    | ppb   | 175.157 | 0.2   | 110645     |
| K 766.491  | 14297.4b    | ppb   | 15.8805 | 0.1   | 464081     |
| Mg 279.078 | 61757.8b    | ppb   | 126.927 | 0.2   | 130037     |
| Mn 257.610 | 682.190b    | ppb   | 0.8750  | 0.1   | 149325     |
| Mo 202.032 | 12.6817b    | ppb   | 0.1814  | 1.4   | 88.4730    |
| Na 330.237 | 3400.35b    | ppb   | 146.669 | 4.3   | 169.244    |
| Ni 231.604 | 64.4897b    | ppb   | 0.8850  | 1.4   | 166.807    |
| Pb 220.353 | 94.8928b    | ppb   | 1.5429  | 1.6   | 165.408    |
| Sb 206.834 | 8.9665b     | ppb   | 3.0374  | 33.9  | 6.3061     |
| Se 196.026 | 0.5987b     | ppb   | 4.5669  | 762.8 | 7.8541     |
| Sn 189.925 | 15.8825b    | ppb   | 2.5135  | 15.8  | 0.4481     |
| Sr 216.596 | 2673.74b    | ppb   | 7.6935  | 0.3   | 27862.5    |
| Ti 334.941 | 4169.59b    | ppb   | 14.3384 | 0.3   | 1046584    |
| Tl 190.794 | 3.3756b     | ppb   | 2.1823  | 64.7  | -15.0012   |
| V 292.401  | 167.344b    | ppb   | 0.5090  | 0.3   | 3987.44    |
| Zn 206.200 | 137.517b    | ppb   | 3.2454  | 2.4   | 184.326    |

90592-22 (Samp) 5/28/2013, 11:34:56 PM Rack 3, Tube 4  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |         |
|------------|--------------------------|----------|---------|
| Ag 328.068 | -0.5166u                 | -0.2153u | 0.1948u |
| Al 308.215 | 54184.2                  | 54405.6  | 54572.7 |
| As 188.980 | 33.9571                  | 34.0748  | 25.8915 |
| B 249.678  | 317.091                  | 318.715  | 320.861 |
| Ba 389.178 | 1743.68                  | 1749.80  | 1751.78 |
| Be 313.042 | 2.3433                   | 2.3459   | 2.3514  |
| Ca 370.602 | 593455                   | 598819   | 602757  |
| Cd 226.502 | -0.0342                  | -0.0425  | 0.2300  |
| Co 228.615 | 18.9002                  | 18.7980  | 18.6694 |
| Cr 267.716 | 107.046                  | 107.174  | 107.011 |
| Cu 324.754 | 73.9874                  | 73.7558  | 74.0486 |
| Fe 271.441 | 49713.2                  | 49814.9  | 49958.9 |
| K 766.491  | 11035.4                  | 11062.1  | 11140.5 |
| Mg 279.078 | 40979.7                  | 41137.1  | 41112.1 |
| Mn 257.610 | 435.901                  | 437.200  | 439.175 |
| Mo 202.032 | 7.5268                   | 7.4984   | 7.7862  |
| Na 330.237 | 2696.86                  | 2897.71  | 3097.69 |
| Ni 231.604 | 45.9261                  | 47.0748  | 46.5367 |
| Pb 220.353 | 51.9325                  | 55.8934  | 54.9460 |
| Sb 206.834 | 5.8787                   | 8.2950   | 3.9170  |
| Se 196.026 | 6.8264                   | -3.1587u | 1.6852  |
| Sn 189.925 | 14.3530                  | 16.8549  | 13.0809 |
| Sr 216.596 | 1832.17                  | 1846.32  | 1845.65 |
| Ti 334.941 | 2930.28                  | 2929.58  | 2936.81 |
| Tl 190.794 | 5.3225                   | -1.4638u | 4.7733  |
| V 292.401  | 123.169                  | 123.461  | 123.334 |
| Zn 206.200 | 94.5063                  | 93.6499  | 94.6360 |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1790     | ppb   | 0.3570  | 199.5 | -135.363   |
| Al 308.215 | 54387.5     | ppb   | 194.853 | 0.4   | 321039     |
| As 188.980 | 31.3078     | ppb   | 4.6910  | 15.0  | 14.4775    |
| B 249.678  | 318.889     | ppb   | 1.8906  | 0.6   | 4295.99    |
| Ba 389.178 | 1748.42     | ppb   | 4.2242  | 0.2   | 31954.2    |
| Be 313.042 | 2.3469      | ppb   | 0.0042  | 0.2   | 4090.55    |
| Ca 370.602 | 598344      | ppb   | 4669    | 0.8   | 1203925    |
| Cd 226.502 | 0.0511      | ppb   | 0.1550  | 303.3 | 147.981    |
| Co 228.615 | 18.7892     | ppb   | 0.1156  | 0.6   | 280.941    |
| Cr 267.716 | 107.077     | ppb   | 0.0860  | 0.1   | 4870.71    |
| Cu 324.754 | 73.9306     | ppb   | 0.1544  | 0.2   | 4114.42    |
| Fe 271.441 | 49829.0     | ppb   | 123.477 | 0.2   | 76188.0    |
| K 766.491  | 11079.3     | ppb   | 54.5869 | 0.5   | 359693     |
| Mg 279.078 | 41076.3     | ppb   | 84.5948 | 0.2   | 86501.7    |
| Mn 257.610 | 437.425     | ppb   | 1.6485  | 0.4   | 95778.9    |
| Mo 202.032 | 7.6038      | ppb   | 0.1586  | 2.1   | 56.3236    |
| Na 330.237 | 2897.42     | ppb   | 200.415 | 6.9   | 156.580    |
| Ni 231.604 | 46.5125     | ppb   | 0.5747  | 1.2   | 119.709    |
| Pb 220.353 | 54.2573     | ppb   | 2.0683  | 3.8   | 104.603    |
| Sb 206.834 | 6.0302      | ppb   | 2.1929  | 36.4  | 2.7925     |
| Se 196.026 | 1.7843      | ppb   | 4.9933  | 279.8 | 8.2801     |
| Sn 189.925 | 14.7629     | ppb   | 1.9201  | 13.0  | -0.5943    |
| Sr 216.596 | 1841.38     | ppb   | 7.9855  | 0.4   | 19191.1    |
| Ti 334.941 | 2932.22     | ppb   | 3.9870  | 0.1   | 735974     |
| Tl 190.794 | 2.8774      | ppb   | 3.7695  | 131.0 | -14.1695   |
| V 292.401  | 123.321     | ppb   | 0.1464  | 0.1   | 2932.51    |
| Zn 206.200 | 94.2641     | ppb   | 0.5358  | 0.6   | 5127.969   |

90592-23 (Samp) 5/28/2013, 11:39:33 PM Rack 3, Tube 5  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |         |          |
|------------|--------------------------|---------|----------|
| Ag 328.068 | 1.8769                   | 1.9877  | 1.2834u  |
| Al 308.215 | 69038.4                  | 68700.7 | 68932.2  |
| As 188.980 | 44.0064                  | 45.4904 | 43.8345  |
| B 249.678  | 404.614                  | 402.550 | 404.849  |
| Ba 389.178 | 2356.93                  | 2349.73 | 2354.69  |
| Be 313.042 | 3.0317                   | 3.0417  | 3.0557   |
| Ca 370.602 | 758507                   | 750792  | 753275   |
| Cd 226.502 | 0.2165                   | -0.0948 | 0.3710   |
| Co 228.615 | 87.7661                  | 87.2320 | 88.2860  |
| Cr 267.716 | 131.988                  | 131.413 | 132.174  |
| Cu 324.754 | 110.432                  | 109.108 | 111.501  |
| Fe 271.441 | 66019.1                  | 65779.0 | 65945.8  |
| K 766.491  | 11311.8                  | 11203.2 | 11254.5  |
| Mg 279.078 | 51308.6                  | 51068.5 | 51132.1  |
| Mn 257.610 | 623.510                  | 621.276 | 621.984  |
| Mo 202.032 | 10.0483                  | 9.7289  | 9.8751   |
| Na 330.237 | 2991.84                  | 2854.36 | 2978.15  |
| Ni 231.604 | 60.9158                  | 62.8567 | 61.9422  |
| Pb 220.353 | 78.3150                  | 75.3623 | 69.6774  |
| Sb 206.834 | 5.6199                   | 7.3244  | 8.6498   |
| Se 196.026 | 12.4138                  | 3.9989  | 1.0319   |
| Sn 189.925 | 7.8722                   | 15.1275 | 21.1698  |
| Sr 216.596 | 2254.76                  | 2251.74 | 2249.31  |
| Ti 334.941 | 3704.06                  | 3685.66 | 3703.66  |
| Tl 190.794 | 2.0699u                  | 0.5246u | -0.2197u |
| V 292.401  | 148.167                  | 147.300 | 147.911  |
| Zn 206.200 | 114.883                  | 114.286 | 115.622  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 1.7160b     | ppb   | 0.3787  | 22.1  | -18.4059   |
| Al 308.215 | 68890.4b    | ppb   | 172.660 | 0.3   | 406597     |
| As 188.980 | 44.4438b    | ppb   | 0.9105  | 2.0   | 22.2171    |
| B 249.678  | 404.005b    | ppb   | 1.2649  | 0.3   | 5409.05    |
| Ba 389.178 | 2353.78b    | ppb   | 3.6848  | 0.2   | 43011.7    |
| Be 313.042 | 3.0430b     | ppb   | 0.0120  | 0.4   | 5369.42    |
| Ca 370.602 | 754191b     | ppb   | 3938    | 0.5   | 1517353    |
| Cd 226.502 | 0.1642b     | ppb   | 0.2373  | 144.5 | 192.871    |
| Co 228.615 | 87.7614b    | ppb   | 0.5270  | 0.6   | 1073.92    |
| Cr 267.716 | 131.859b    | ppb   | 0.3968  | 0.3   | 5998.08    |
| Cu 324.754 | 110.347b    | ppb   | 1.1990  | 1.1   | 6062.18    |
| Fe 271.441 | 65914.7b    | ppb   | 123.056 | 0.2   | 100783     |
| K 766.491  | 11256.5b    | ppb   | 54.3317 | 0.5   | 365441     |
| Mg 279.078 | 51169.7b    | ppb   | 124.413 | 0.2   | 107748     |
| Mn 257.610 | 622.257b    | ppb   | 1.1418  | 0.2   | 136168     |
| Mo 202.032 | 9.8841b     | ppb   | 0.1599  | 1.6   | 70.4817    |
| Na 330.237 | 2941.45b    | ppb   | 75.7309 | 2.6   | 151.447    |
| Ni 231.604 | 61.9049b    | ppb   | 0.9709  | 1.6   | 159.834    |
| Pb 220.353 | 74.4516b    | ppb   | 4.3902  | 5.9   | 135.038    |
| Sb 206.834 | 7.1980b     | ppb   | 1.5189  | 21.1  | 4.4514     |
| Se 196.026 | 5.8149b     | ppb   | 5.9042  | 101.5 | 10.2688    |
| Sn 189.925 | 14.7231b    | ppb   | 6.6580  | 45.2  | -0.5630    |
| Sr 216.596 | 2251.94b    | ppb   | 2.7288  | 0.1   | 23472.1    |
| Ti 334.941 | 3697.79b    | ppb   | 10.5118 | 0.3   | 928140     |
| Tl 190.794 | 0.7916b     | ppb   | 1.1679  | 147.5 | -16.6026   |
| V 292.401  | 147.793b    | ppb   | 0.4455  | 0.3   | 3519.71    |
| Zn 206.200 | 114.930b    | ppb   | 0.6691  | 0.6   | 154.912    |



**90592-24 (Samp)**                                  **5/28/2013, 11:44:09 PM**                                  **Rack 3, Tube 6**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1119u                  | 0.2402u  | 0.3947u  |
| Al 308.215 | 44446.6                  | 44501.4  | 44539.0  |
| As 188.980 | 22.6707                  | 18.5481  | 28.1099  |
| B 249.678  | 254.084                  | 254.822  | 254.790  |
| Ba 389.178 | 1360.76                  | 1358.22  | 1360.06  |
| Be 313.042 | 1.7805                   | 1.7821   | 1.7797   |
| Ca 370.602 | 475011                   | 474354   | 476580   |
| Cd 226.502 | -0.1774                  | 0.2552   | 0.0252   |
| Co 228.615 | 15.7765                  | 16.6887  | 16.5088  |
| Cr 267.716 | 77.6440                  | 77.4293  | 77.4137  |
| Cu 324.754 | 61.5709                  | 61.5278  | 62.9438  |
| Fe 271.441 | 36587.1                  | 36549.9  | 36648.4  |
| K 766.491  | 7967.87                  | 7969.35  | 8003.19  |
| Mg 279.078 | 32803.3                  | 32870.0  | 32804.9  |
| Mn 257.610 | 321.429                  | 321.469  | 321.526  |
| Mo 202.032 | 6.3528                   | 6.5438   | 6.5994   |
| Na 330.237 | 2306.34                  | 2226.11  | 1797.19  |
| Ni 231.604 | 35.9474                  | 36.1955  | 35.7777  |
| Pb 220.353 | 41.8268                  | 40.6645  | 40.7758  |
| Sb 206.834 | 8.6870                   | 3.6564   | 5.2755   |
| Se 196.026 | 2.6855                   | -1.8227u | 12.1603  |
| Sn 189.925 | 10.9771                  | 9.0251   | 13.6415  |
| Sr 216.596 | 1418.06                  | 1417.59  | 1418.41  |
| Ti 334.941 | 2416.84                  | 2417.62  | 2421.89  |
| Tl 190.794 | 0.8851u                  | 1.1730u  | -2.2947u |
| V 292.401  | 93.4300                  | 92.8477  | 93.5868  |
| Zn 206.200 | 71.4145                  | 72.7772  | 70.7032  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.2489      | ppb   | 0.1416  | 56.9   | -87.3737   |
| Al 308.215 | 44495.7     | ppb   | 46.4758 | 0.1    | 262684     |
| As 188.980 | 23.1096     | ppb   | 4.7960  | 20.8   | 9.6688     |
| B 249.678  | 254.565     | ppb   | 0.4174  | 0.2    | 3456.84    |
| Ba 389.178 | 1359.68     | ppb   | 1.3125  | 0.1    | 24846.7    |
| Be 313.042 | 1.7807      | ppb   | 0.0013  | 0.1    | 3051.65    |
| Ca 370.602 | 475315      | ppb   | 1144    | 0.2    | 956559     |
| Cd 226.502 | 0.0343      | ppb   | 0.2164  | 630.9  | 113.583    |
| Co 228.615 | 16.3247     | ppb   | 0.4832  | 3.0    | 241.456    |
| Cr 267.716 | 77.4957     | ppb   | 0.1287  | 0.2    | 3527.54    |
| Cu 324.754 | 62.0141     | ppb   | 0.8054  | 1.3    | 3474.76    |
| Fe 271.441 | 36595.1     | ppb   | 49.7670 | 0.1    | 55959.2    |
| K 766.491  | 7980.14     | ppb   | 19.9753 | 0.3    | 259160     |
| Mg 279.078 | 32826.1     | ppb   | 38.0657 | 0.1    | 69133.9    |
| Mn 257.610 | 321.474     | ppb   | 0.0485  | 0.0    | 70418.5    |
| Mo 202.032 | 6.4986      | ppb   | 0.1293  | 2.0    | 49.7391    |
| Na 330.237 | 2109.88     | ppb   | 273.753 | 13.0   | 125.437    |
| Ni 231.604 | 35.9736     | ppb   | 0.2101  | 0.6    | 92.0980    |
| Pb 220.353 | 41.0890     | ppb   | 0.6414  | 1.6    | 84.5868    |
| Sb 206.834 | 5.8730      | ppb   | 2.5680  | 43.7   | 2.1102     |
| Se 196.026 | 4.3410      | ppb   | 7.1370  | 164.4  | 9.4105     |
| Sn 189.925 | 11.2146     | ppb   | 2.3174  | 20.7   | -3.5311    |
| Sr 216.596 | 1418.02     | ppb   | 0.4120  | 0.0    | 14782.9    |
| Ti 334.941 | 2418.78     | ppb   | 2.7191  | 0.1    | 607088     |
| Tl 190.794 | -0.0789     | ppb   | 1.9243  | 2439.7 | -15.8596   |
| V 292.401  | 93.2881     | ppb   | 0.3894  | 0.4    | 2217.35    |
| Zn 206.200 | 71.6316     | ppb   | 1.0539  | 1.5    | 985091     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

mb 680-278125/1-a (Samp) 5/28/2013, 11:48:45 PM Rack 3, Tube 7

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | 0.2320                   | 0.0718   | 0.1485    |
| Al 308.215 | 4.9601                   | 9.6687   | 14.1715   |
| As 188.980 | 0.1581                   | -1.7387u | -5.6121u  |
| B 249.678  | 11.4442                  | 10.6039  | 10.6994   |
| Ba 389.178 | 0.2722                   | -0.1136u | -1.3911u  |
| Be 313.042 | 0.0053                   | 0.0003   | 0.0062    |
| Ca 370.602 | 28.55                    | 45.58    | 127.2     |
| Cd 226.502 | 0.0634                   | -0.1066u | -0.0037u  |
| Co 228.615 | -0.1856u                 | 0.2385   | 0.4795    |
| Cr 267.716 | -0.1156u                 | 0.0164   | 0.1464    |
| Cu 324.754 | 0.1991                   | 0.3152   | -0.1471u  |
| Fe 271.441 | -0.4144u                 | 2.5711   | 11.0615   |
| K 766.491  | -0.0934u                 | 0.6924   | 3.2239    |
| Mg 279.078 | 3.9401                   | -0.3280u | 6.4744    |
| Mn 257.610 | 0.1425                   | 0.1436   | 0.2161    |
| Mo 202.032 | 0.1696                   | 0.0330   | -0.1633u  |
| Na 330.237 | -93.3707u                | 49.9384  | -66.5482u |
| Ni 231.604 | -0.0166u                 | 1.2076   | 0.2747    |
| Pb 220.353 | -2.3496u                 | -4.1916u | 0.3162    |
| Sb 206.834 | 1.3222                   | -0.2827u | 5.7153    |
| Se 196.026 | -6.5872u                 | 0.6484   | -6.1427u  |
| Sn 189.925 | 3.4760                   | -1.2841u | -0.9781u  |
| Sr 216.596 | 0.0885                   | -0.0037u | 0.8647    |
| Ti 334.941 | 0.3957                   | 0.2637   | 0.7514    |
| Tl 190.794 | 0.0313                   | 2.5468   | -3.4717u  |
| V 292.401  | 0.0679                   | 0.3138   | 0.0532    |
| Zn 206.200 | 0.2610                   | 0.8553   | -0.7536u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1508      | ppb   | 0.0801  | 53.1   | -34.7236   |
| Al 308.215 | 9.6001      | ppb   | 4.6061  | 48.0   | 240.234    |
| As 188.980 | -2.3976     | ppb   | 2.9410  | 122.7  | -5.4617    |
| B 249.678  | 10.9158     | ppb   | 0.4601  | 4.2    | 252.837    |
| Ba 389.178 | -0.4108     | ppb   | 0.8706  | 211.9  | -17.8780   |
| Be 313.042 | 0.0039      | ppb   | 0.0032  | 81.2   | -239.359   |
| Ca 370.602 | 67.12       | ppb   | 52.74   | 78.6   | 123.4      |
| Cd 226.502 | -0.0156     | ppb   | 0.0857  | 548.4  | 18.2916    |
| Co 228.615 | 0.1775      | ppb   | 0.3367  | 189.7  | 5.5791     |
| Cr 267.716 | 0.0157      | ppb   | 0.1310  | 832.9  | 6.9864     |
| Cu 324.754 | 0.1224      | ppb   | 0.2405  | 196.5  | 161.991    |
| Fe 271.441 | 4.4061      | ppb   | 5.9539  | 135.1  | 26.6553    |
| K 766.491  | 1.2743      | ppb   | 1.7335  | 136.0  | 337.613    |
| Mg 279.078 | 3.3622      | ppb   | 3.4378  | 102.3  | 39.9979    |
| Mn 257.610 | 0.1674      | ppb   | 0.0422  | 25.2   | 65.7105    |
| Mo 202.032 | 0.0131      | ppb   | 0.1674  | 1278.3 | 9.0944     |
| Na 330.237 | -36.6602    | ppb   | 76.1862 | 207.8  | 44.1901    |
| Ni 231.604 | 0.4886      | ppb   | 0.6395  | 130.9  | -0.6906    |
| Pb 220.353 | -2.0750     | ppb   | 2.2664  | 109.2  | 19.9695    |
| Sb 206.834 | 2.2516      | ppb   | 3.1051  | 137.9  | -2.7525    |
| Se 196.026 | -4.0272     | ppb   | 4.0552  | 100.7  | 5.2858     |
| Sn 189.925 | 0.4046      | ppb   | 2.6643  | 658.5  | -12.5200   |
| Sr 216.596 | 0.3165      | ppb   | 0.4770  | 150.7  | 21.5438    |
| Ti 334.941 | 0.4703      | ppb   | 0.2522  | 53.6   | 61.6988    |
| Tl 190.794 | -0.2979     | ppb   | 3.0227  | 1014.8 | -14.0874   |
| V 292.401  | 0.1450      | ppb   | 0.1464  | 101.0  | -12.0057   |
| Zn 206.200 | 0.1209      | ppb   | 0.8136  | 672.8  | 54.234     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

ics 680-278125/2-a (Samp)      5/28/2013, 11:53:21 PM      Rack 3, Tube 8  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.7533                  | 49.9308 | 49.3731 |
| Al 308.215 | 4957.52                  | 4969.69 | 4946.33 |
| As 188.980 | 104.925                  | 111.636 | 107.834 |
| B 249.678  | 204.738                  | 206.520 | 205.820 |
| Ba 389.178 | 97.0087                  | 97.5352 | 97.2716 |
| Be 313.042 | 51.0215                  | 51.1839 | 51.0452 |
| Ca 370.602 | 4879                     | 4873    | 4848    |
| Cd 226.502 | 51.4285                  | 51.5999 | 51.0758 |
| Co 228.615 | 51.8331                  | 51.7752 | 51.3479 |
| Cr 267.716 | 101.246                  | 101.658 | 101.492 |
| Cu 324.754 | 100.203                  | 100.978 | 98.9675 |
| Fe 271.441 | 4952.16                  | 4959.35 | 4941.21 |
| K 766.491  | 5217.53                  | 5235.97 | 5202.82 |
| Mg 279.078 | 5050.79                  | 5060.21 | 5039.54 |
| Mn 257.610 | 520.267                  | 521.821 | 519.390 |
| Mo 202.032 | 102.021                  | 103.033 | 101.230 |
| Na 330.237 | 4799.16                  | 4910.24 | 4749.73 |
| Ni 231.604 | 101.006                  | 103.570 | 102.523 |
| Pb 220.353 | 50.5813                  | 51.3063 | 48.1985 |
| Sb 206.834 | 46.5876                  | 53.5945 | 47.3064 |
| Se 196.026 | 98.3150                  | 101.591 | 95.4274 |
| Sn 189.925 | 199.326                  | 197.453 | 201.310 |
| Sr 216.596 | 98.6283                  | 99.1725 | 98.3923 |
| Ti 334.941 | 98.8373                  | 99.2088 | 98.9289 |
| Tl 190.794 | 41.0090                  | 41.0063 | 44.5611 |
| V 292.401  | 101.096                  | 102.076 | 100.821 |
| Zn 206.200 | 100.430                  | 103.114 | 101.516 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.6857     | ppb   | 0.2849  | 0.6  | 3460.77    |
| Al 308.215 | 4957.85     | ppb   | 11.6838 | 0.2  | 29420.6    |
| As 188.980 | 108.132     | ppb   | 3.3652  | 3.1  | 59.7724    |
| B 249.678  | 205.693     | ppb   | 0.8981  | 0.4  | 2859.65    |
| Ba 389.178 | 97.2718     | ppb   | 0.2632  | 0.3  | 1776.59    |
| Be 313.042 | 51.0835     | ppb   | 0.0878  | 0.2  | 89914.3    |
| Ca 370.602 | 4867        | ppb   | 16.65   | 0.3  | 9586       |
| Cd 226.502 | 51.3681     | ppb   | 0.2672  | 0.5  | 1729.58    |
| Co 228.615 | 51.6521     | ppb   | 0.2650  | 0.5  | 584.211    |
| Cr 267.716 | 101.465     | ppb   | 0.2073  | 0.2  | 4601.26    |
| Cu 324.754 | 100.049     | ppb   | 1.0139  | 1.0  | 5496.75    |
| Fe 271.441 | 4950.91     | ppb   | 9.1348  | 0.2  | 7594.32    |
| K 766.491  | 5218.78     | ppb   | 16.6125 | 0.3  | 169586     |
| Mg 279.078 | 5050.18     | ppb   | 10.3486 | 0.2  | 10656.8    |
| Mn 257.610 | 520.493     | ppb   | 1.2310  | 0.2  | 113477     |
| Mo 202.032 | 102.095     | ppb   | 0.9037  | 0.9  | 677.076    |
| Na 330.237 | 4819.71     | ppb   | 82.2082 | 1.7  | 267.753    |
| Ni 231.604 | 102.367     | ppb   | 1.2892  | 1.3  | 263.627    |
| Pb 220.353 | 50.0287     | ppb   | 1.6259  | 3.2  | 97.5423    |
| Sb 206.834 | 49.1628     | ppb   | 3.8548  | 7.8  | 42.3449    |
| Se 196.026 | 98.4443     | ppb   | 3.0836  | 3.1  | 53.5504    |
| Sn 189.925 | 199.363     | ppb   | 1.9291  | 1.0  | 149.270    |
| Sr 216.596 | 98.7311     | ppb   | 0.4001  | 0.4  | 1042.62    |
| Ti 334.941 | 98.9917     | ppb   | 0.1935  | 0.2  | 24806.9    |
| Tl 190.794 | 42.1922     | ppb   | 2.0516  | 4.9  | 20.1739    |
| V 292.401  | 101.331     | ppb   | 0.6595  | 0.7  | 2360.84    |
| Zn 206.200 | 101.687     | ppb   | 1.3498  | 1.3  | 5137.237   |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90622-c-15-a (Samp) 5/28/2013, 11:57:58 PM Rack 3, Tube 9

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0677                   | 0.1559   | 0.1014   |
| Al 308.215 | 10.2265                  | 7.3437   | 8.7006   |
| As 188.980 | -5.7889u                 | 1.6867   | 1.6209   |
| B 249.678  | 5.0239                   | 5.0156   | 4.8182   |
| Ba 389.178 | -0.1637u                 | 0.4612   | -1.4168u |
| Be 313.042 | 0.0071                   | 0.0011   | 0.0047   |
| Ca 370.602 | 49.89                    | 40.11    | 42.55    |
| Cd 226.502 | -0.1712u                 | -0.0301u | 0.0728   |
| Co 228.615 | -0.0690u                 | 0.5025   | 0.9720   |
| Cr 267.716 | -0.0151u                 | 0.1552   | 0.0477   |
| Cu 324.754 | 0.1620                   | 0.0543   | 0.3449   |
| Fe 271.441 | 2.0250                   | 9.6579   | 6.4551   |
| K 766.491  | 3.7983                   | 3.0945   | 3.0734   |
| Mg 279.078 | 3.3436                   | 4.1162   | 3.2027   |
| Mn 257.610 | 0.4818                   | 0.5474   | 0.5269   |
| Mo 202.032 | 0.6368                   | -0.5851u | -0.2510u |
| Na 330.237 | 206.811                  | 149.845  | 96.2273  |
| Ni 231.604 | -0.3419u                 | 1.3460   | 0.4907   |
| Pb 220.353 | 0.4778                   | -1.5858u | -1.0100u |
| Sb 206.834 | 5.5022                   | 3.6366   | 3.8194   |
| Se 196.026 | -1.0852u                 | -1.0160u | -0.1848u |
| Sn 189.925 | -1.2696u                 | -0.8564u | -1.7265u |
| Sr 216.596 | -0.2468u                 | -0.1768u | -0.5666u |
| Ti 334.941 | 0.1457                   | 0.1307   | 0.1451   |
| Tl 190.794 | -0.7179u                 | 3.1792   | 4.2859   |
| V 292.401  | 0.3284                   | -0.1992u | -0.1450u |
| Zn 206.200 | 0.8925                   | 1.3017   | -1.3528u |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1083      | ppb   | 0.0445  | 41.1   | -37.7016   |
| Al 308.215 | 8.7569      | ppb   | 1.4423  | 16.5   | 235.270    |
| As 188.980 | -0.8271     | ppb   | 4.2972  | 519.6  | -4.5344    |
| B 249.678  | 4.9525      | ppb   | 0.1164  | 2.4    | 172.739    |
| Ba 389.178 | -0.3731     | ppb   | 0.9563  | 256.3  | -17.1898   |
| Be 313.042 | 0.0043      | ppb   | 0.0030  | 69.2   | -238.642   |
| Ca 370.602 | 44.18       | ppb   | 5.093   | 11.5   | 76.99      |
| Cd 226.502 | -0.0428     | ppb   | 0.1225  | 286.2  | 17.3971    |
| Co 228.615 | 0.4685      | ppb   | 0.5213  | 111.3  | 8.8484     |
| Cr 267.716 | 0.0626      | ppb   | 0.0861  | 137.5  | 9.1155     |
| Cu 324.754 | 0.1871      | ppb   | 0.1469  | 78.5   | 165.442    |
| Fe 271.441 | 6.0460      | ppb   | 3.8329  | 63.4   | 29.1942    |
| K 766.491  | 3.3221      | ppb   | 0.4126  | 12.4   | 404.039    |
| Mg 279.078 | 3.5542      | ppb   | 0.4918  | 13.8   | 40.3969    |
| Mn 257.610 | 0.5187      | ppb   | 0.0335  | 6.5    | 142.246    |
| Mo 202.032 | -0.0664     | ppb   | 0.6315  | 950.4  | 8.5738     |
| Na 330.237 | 150.961     | ppb   | 55.3004 | 36.6   | 52.9416    |
| Ni 231.604 | 0.4983      | ppb   | 0.8440  | 169.4  | -0.6661    |
| Pb 220.353 | -0.7060     | ppb   | 1.0649  | 150.8  | 22.0040    |
| Sb 206.834 | 4.3194      | ppb   | 1.0284  | 23.8   | -0.7705    |
| Se 196.026 | -0.7620     | ppb   | 0.5010  | 65.8   | 6.8194     |
| Sn 189.925 | -1.2842     | ppb   | 0.4353  | 33.9   | -13.8932   |
| Sr 216.596 | -0.3300     | ppb   | 0.2078  | 63.0   | 14.8537    |
| Ti 334.941 | 0.1405      | ppb   | 0.0085  | 6.1    | -21.0732   |
| Tl 190.794 | 2.2491      | ppb   | 2.6284  | 116.9  | -12.0135   |
| V 292.401  | -0.0053     | ppb   | 0.2902  | 5513.0 | -15.5522   |
| Zn 206.200 | 0.2805      | ppb   | 1.4292  | 509.6  | 5.6308     |

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**680-90622-c-15-aSD^5 (Samp) 5/29/2013, 12:02:34 AM Rack 3, Tube 10****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.0950u                 | 0.1330   | -0.0493u  |
| Al 308.215 | 8.0651                   | 6.8428   | 4.9466    |
| As 188.980 | -3.2971u                 | -2.0761u | -3.9061u  |
| B 249.678  | 4.1499                   | 2.8751   | 2.4609    |
| Ba 389.178 | -0.5691u                 | -0.4379u | -0.4745u  |
| Be 313.042 | -0.0009u                 | -0.0012u | -0.0005u  |
| Ca 370.602 | 8.300                    | 16.28    | 16.66     |
| Cd 226.502 | -0.1397u                 | 0.1918   | 0.0452    |
| Co 228.615 | 0.0180                   | -0.9446u | -0.7735u  |
| Cr 267.716 | 0.1688                   | 0.0931   | 0.2690    |
| Cu 324.754 | 0.0384                   | 0.1656   | 0.3180    |
| Fe 271.441 | 2.3445                   | 3.0577   | 0.2995    |
| K 766.491  | 0.6071                   | 0.6291   | 0.4861    |
| Mg 279.078 | 1.3619                   | 3.6803   | 2.9465    |
| Mn 257.610 | 0.1427                   | 0.0695   | 0.1071    |
| Mo 202.032 | -0.2260u                 | 0.1354   | -0.2830u  |
| Na 330.237 | -55.4204u                | 4.8532   | -261.846u |
| Ni 231.604 | 0.6831                   | 1.1630   | -0.6890u  |
| Pb 220.353 | -0.8300u                 | 1.7554   | -4.0926u  |
| Sb 206.834 | 0.6216                   | -0.8300u | 4.2108    |
| Se 196.026 | -0.9088u                 | -2.9307u | -10.2824u |
| Sn 189.925 | -1.0531u                 | 0.0998   | -0.6416u  |
| Sr 216.596 | 0.0960                   | -0.6646u | -0.5226u  |
| Ti 334.941 | 0.0439                   | 0.0653   | 0.0102    |
| Tl 190.794 | -0.3260u                 | -0.4560u | 2.2999    |
| V 292.401  | -0.0710u                 | 0.3272   | -0.0791u  |
| Zn 206.200 | -0.3128u                 | 0.7860   | -0.3047u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0038     | ppb   | 0.1206  | 3190.2 | -45.6128   |
| Al 308.215 | 6.6182      | ppb   | 1.5714  | 23.7   | 222.682    |
| As 188.980 | -3.0931     | ppb   | 0.9319  | 30.1   | -5.8723    |
| B 249.678  | 3.1620      | ppb   | 0.8803  | 27.8   | 148.697    |
| Ba 389.178 | -0.4939     | ppb   | 0.0677  | 13.7   | -19.3942   |
| Be 313.042 | -0.0008     | ppb   | 0.0004  | 42.7   | -247.721   |
| Ca 370.602 | 13.75       | ppb   | 4.721   | 34.3   | 15.82      |
| Cd 226.502 | 0.0324      | ppb   | 0.1661  | 512.5  | 19.8751    |
| Co 228.615 | -0.5667     | ppb   | 0.5135  | 90.6   | -2.7946    |
| Cr 267.716 | 0.1770      | ppb   | 0.0883  | 49.9   | 14.2835    |
| Cu 324.754 | 0.1740      | ppb   | 0.1400  | 80.5   | 164.740    |
| Fe 271.441 | 1.9006      | ppb   | 1.4317  | 75.3   | 22.7397    |
| K 766.491  | 0.5741      | ppb   | 0.0770  | 13.4   | 314.900    |
| Mg 279.078 | 2.6629      | ppb   | 1.1849  | 44.5   | 38.5274    |
| Mn 257.610 | 0.1064      | ppb   | 0.0366  | 34.4   | 52.4138    |
| Mo 202.032 | -0.1245     | ppb   | 0.2269  | 182.2  | 8.1935     |
| Na 330.237 | -104.138    | ppb   | 139.865 | 134.3  | 41.0432    |
| Ni 231.604 | 0.3857      | ppb   | 0.9611  | 249.2  | -0.9561    |
| Pb 220.353 | -1.0557     | ppb   | 2.9305  | 277.6  | 21.4846    |
| Sb 206.834 | 1.3341      | ppb   | 2.5948  | 194.5  | -3.6287    |
| Se 196.026 | -4.7073     | ppb   | 4.9329  | 104.8  | 4.9663     |
| Sn 189.925 | -0.5316     | ppb   | 0.5843  | 109.9  | -13.2814   |
| Sr 216.596 | -0.3637     | ppb   | 0.4044  | 111.2  | 14.5089    |
| Ti 334.941 | 0.0398      | ppb   | 0.0278  | 69.9   | -46.3336   |
| Tl 190.794 | 0.5060      | ppb   | 1.5549  | 307.3  | -13.4347   |
| V 292.401  | 0.0590      | ppb   | 0.2323  | 393.4  | -14.0289   |
| Zn 206.200 | 0.0561      | ppb   | 0.6321  | 1126.8 | 5.3386     |

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**680-90622-c-15-aPDS (Samp) 5/29/2013, 12:07:10 AM Rack 3, Tube 11****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 43.7353                  | 44.2507 | 43.4990 |
| Al 308.215 | 1960.66                  | 1966.12 | 1959.26 |
| As 188.980 | 2228.46                  | 2216.91 | 2211.10 |
| B 249.678  | 1035.85                  | 1035.74 | 1039.32 |
| Ba 389.178 | 1994.52                  | 1994.98 | 1991.67 |
| Be 313.042 | 50.4569                  | 50.5357 | 50.5490 |
| Ca 370.602 | 5088                     | 5087    | 5072    |
| Cd 226.502 | 51.4874                  | 51.0987 | 51.3198 |
| Co 228.615 | 521.946                  | 519.386 | 525.843 |
| Cr 267.716 | 202.651                  | 202.318 | 202.870 |
| Cu 324.754 | 250.793                  | 250.060 | 249.444 |
| Fe 271.441 | 1022.24                  | 1019.99 | 1021.61 |
| K 766.491  | 5447.52                  | 5453.02 | 5430.45 |
| Mg 279.078 | 5249.42                  | 5257.87 | 5252.06 |
| Mn 257.610 | 524.968                  | 525.569 | 524.209 |
| Mo 202.032 | 536.318                  | 535.463 | 537.533 |
| Na 330.237 | 4969.84                  | 5308.67 | 5401.72 |
| Ni 231.604 | 508.383                  | 505.065 | 503.966 |
| Pb 220.353 | 516.238                  | 518.396 | 523.557 |
| Sb 206.834 | 493.528                  | 494.353 | 492.250 |
| Se 196.026 | 2136.67                  | 2125.75 | 2132.55 |
| Sn 189.925 | 1051.29                  | 1051.00 | 1051.47 |
| Sr 216.596 | 520.911                  | 518.817 | 519.255 |
| Ti 334.941 | 1012.51                  | 1013.37 | 1013.96 |
| Tl 190.794 | 2150.33                  | 2141.97 | 2140.81 |
| V 292.401  | 502.327                  | 503.185 | 502.787 |
| Zn 206.200 | 514.126                  | 509.908 | 509.053 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 43.8283     | ppb   | 0.3844  | 0.9  | 3031.85    |
| Al 308.215 | 1962.01     | ppb   | 3.6272  | 0.2  | 11682.9    |
| As 188.980 | 2218.83     | ppb   | 8.8333  | 0.4  | 1305.90    |
| B 249.678  | 1036.97     | ppb   | 2.0382  | 0.2  | 14031.9    |
| Ba 389.178 | 1993.72     | ppb   | 1.7920  | 0.1  | 36294.3    |
| Be 313.042 | 50.5139     | ppb   | 0.0498  | 0.1  | 88830.4    |
| Ca 370.602 | 5082        | ppb   | 9.276   | 0.2  | 10533      |
| Cd 226.502 | 51.3020     | ppb   | 0.1950  | 0.4  | 1717.47    |
| Co 228.615 | 522.392     | ppb   | 3.2516  | 0.6  | 5885.99    |
| Cr 267.716 | 202.613     | ppb   | 0.2784  | 0.1  | 9176.87    |
| Cu 324.754 | 250.099     | ppb   | 0.6751  | 0.3  | 13509.4    |
| Fe 271.441 | 1021.28     | ppb   | 1.1608  | 0.1  | 1645.46    |
| K 766.491  | 5443.66     | ppb   | 11.7663 | 0.2  | 176881     |
| Mg 279.078 | 5253.12     | ppb   | 4.3211  | 0.1  | 11084.2    |
| Mn 257.610 | 524.915     | ppb   | 0.6815  | 0.1  | 114432     |
| Mo 202.032 | 536.438     | ppb   | 1.0401  | 0.2  | 3520.42    |
| Na 330.237 | 5226.74     | ppb   | 227.295 | 4.3  | 279.305    |
| Ni 231.604 | 505.805     | ppb   | 2.2995  | 0.5  | 1309.28    |
| Pb 220.353 | 519.397     | ppb   | 3.7609  | 0.7  | 793.703    |
| Sb 206.834 | 493.377     | ppb   | 1.0592  | 0.2  | 463.614    |
| Se 196.026 | 2131.66     | ppb   | 5.5120  | 0.3  | 1008.45    |
| Sn 189.925 | 1051.26     | ppb   | 0.2380  | 0.0  | 842.003    |
| Sr 216.596 | 519.661     | ppb   | 1.1041  | 0.2  | 5386.92    |
| Ti 334.941 | 1013.28     | ppb   | 0.7250  | 0.1  | 254253     |
| Tl 190.794 | 2144.37     | ppb   | 5.1922  | 0.2  | 1732.86    |
| V 292.401  | 502.766     | ppb   | 0.4298  | 0.1  | 11791.3    |
| Zn 206.200 | 511.029     | ppb   | 2.7160  | 0.5  | 669.260    |

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**680-90622-c-15-b ms (Samp) 5/29/2013, 12:11:46 AM Rack 3, Tube 12****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.2183                  | 50.2122 | 49.9429 |
| Al 308.215 | 4853.45                  | 4953.99 | 4904.99 |
| As 188.980 | 110.486                  | 111.077 | 107.378 |
| B 249.678  | 212.901                  | 216.518 | 213.479 |
| Ba 389.178 | 94.4836                  | 96.5855 | 96.6414 |
| Be 313.042 | 50.0389                  | 51.0517 | 50.5370 |
| Ca 370.602 | 4788                     | 4911    | 4821    |
| Cd 226.502 | 50.4174                  | 50.9058 | 50.5743 |
| Co 228.615 | 50.6763                  | 50.8962 | 50.8941 |
| Cr 267.716 | 99.1366                  | 101.734 | 100.275 |
| Cu 324.754 | 98.9558                  | 100.107 | 99.4276 |
| Fe 271.441 | 4857.26                  | 4961.38 | 4911.98 |
| K 766.491  | 5104.38                  | 5184.66 | 5160.70 |
| Mg 279.078 | 4962.20                  | 5063.98 | 4996.72 |
| Mn 257.610 | 511.318                  | 521.825 | 515.895 |
| Mo 202.032 | 99.6151                  | 101.449 | 100.718 |
| Na 330.237 | 4902.93                  | 5075.15 | 5027.21 |
| Ni 231.604 | 98.3543                  | 99.8653 | 99.0664 |
| Pb 220.353 | 47.4504                  | 50.5302 | 47.5829 |
| Sb 206.834 | 51.6646                  | 56.6579 | 47.6303 |
| Se 196.026 | 111.667                  | 103.066 | 96.8207 |
| Sn 189.925 | 191.156                  | 198.059 | 195.218 |
| Sr 216.596 | 97.3195                  | 98.6544 | 98.3321 |
| Ti 334.941 | 96.5930                  | 98.5022 | 97.6361 |
| Tl 190.794 | 42.1512                  | 37.7867 | 44.5417 |
| V 292.401  | 99.3007                  | 101.305 | 99.9583 |
| Zn 206.200 | 98.8074                  | 105.851 | 101.650 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.7911     | ppb   | 0.5140  | 1.0  | 3468.20    |
| Al 308.215 | 4904.14     | ppb   | 50.2756 | 1.0  | 29103.9    |
| As 188.980 | 109.647     | ppb   | 1.9871  | 1.8  | 60.6671    |
| B 249.678  | 214.299     | ppb   | 1.9430  | 0.9  | 2975.32    |
| Ba 389.178 | 95.9035     | ppb   | 1.2300  | 1.3  | 1751.53    |
| Be 313.042 | 50.5425     | ppb   | 0.5064  | 1.0  | 88959.6    |
| Ca 370.602 | 4840        | ppb   | 63.80   | 1.3  | 9533       |
| Cd 226.502 | 50.6325     | ppb   | 0.2494  | 0.5  | 1705.16    |
| Co 228.615 | 50.8222     | ppb   | 0.1263  | 0.2  | 574.885    |
| Cr 267.716 | 100.382     | ppb   | 1.3022  | 1.3  | 4552.21    |
| Cu 324.754 | 99.4967     | ppb   | 0.5786  | 0.6  | 5467.22    |
| Fe 271.441 | 4910.21     | ppb   | 52.0828 | 1.1  | 7532.01    |
| K 766.491  | 5149.91     | ppb   | 41.2124 | 0.8  | 167352     |
| Mg 279.078 | 5007.63     | ppb   | 51.7606 | 1.0  | 10567.3    |
| Mn 257.610 | 516.346     | ppb   | 5.2679  | 1.0  | 112573     |
| Mo 202.032 | 100.594     | ppb   | 0.9235  | 0.9  | 667.255    |
| Na 330.237 | 5001.76     | ppb   | 88.8876 | 1.8  | 276.259    |
| Ni 231.604 | 99.0953     | ppb   | 0.7559  | 0.8  | 255.140    |
| Pb 220.353 | 48.5212     | ppb   | 1.7411  | 3.6  | 95.3024    |
| Sb 206.834 | 51.9843     | ppb   | 4.5223  | 8.7  | 45.0512    |
| Se 196.026 | 103.851     | ppb   | 7.4542  | 7.2  | 56.0888    |
| Sn 189.925 | 194.811     | ppb   | 3.4695  | 1.8  | 145.569    |
| Sr 216.596 | 98.1020     | ppb   | 0.6966  | 0.7  | 1036.12    |
| Ti 334.941 | 97.5771     | ppb   | 0.9559  | 1.0  | 24451.7    |
| Tl 190.794 | 41.4932     | ppb   | 3.4252  | 8.3  | 19.6068    |
| V 292.401  | 100.188     | ppb   | 1.0220  | 1.0  | 2334.07    |
| Zn 206.200 | 102.103     | ppb   | 3.5435  | 3.5  | 137.782    |

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**680-90622-c-15-c msd (Samp) 5/29/2013, 12:25:35 AM Rack 3, Tube 15****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.6886                  | 49.8752 | 49.7341 |
| Al 308.215 | 4949.41                  | 4937.85 | 4943.24 |
| As 188.980 | 105.996                  | 102.501 | 108.029 |
| B 249.678  | 206.431                  | 204.581 | 206.009 |
| Ba 389.178 | 97.5598                  | 95.5269 | 96.6368 |
| Be 313.042 | 51.1153                  | 50.8505 | 50.8975 |
| Ca 370.602 | 5114                     | 5096    | 5098    |
| Cd 226.502 | 51.0735                  | 50.7623 | 51.0426 |
| Co 228.615 | 51.1402                  | 52.0339 | 51.5361 |
| Cr 267.716 | 101.635                  | 100.621 | 100.873 |
| Cu 324.754 | 102.761                  | 101.530 | 101.359 |
| Fe 271.441 | 4972.55                  | 4952.85 | 4933.90 |
| K 766.491  | 5212.45                  | 5204.08 | 5192.57 |
| Mg 279.078 | 5163.39                  | 5148.28 | 5147.37 |
| Mn 257.610 | 521.377                  | 519.951 | 519.542 |
| Mo 202.032 | 101.667                  | 102.065 | 101.259 |
| Na 330.237 | 5798.64                  | 5676.99 | 5802.85 |
| Ni 231.604 | 99.5510                  | 101.144 | 99.6908 |
| Pb 220.353 | 53.8244                  | 50.8076 | 51.1295 |
| Sb 206.834 | 54.7322                  | 55.0936 | 46.3114 |
| Se 196.026 | 102.608                  | 96.6468 | 91.8332 |
| Sn 189.925 | 201.644                  | 199.454 | 195.485 |
| Sr 216.596 | 100.982                  | 101.319 | 100.959 |
| Ti 334.941 | 98.5751                  | 98.3625 | 98.2971 |
| Tl 190.794 | 46.1694                  | 38.7729 | 41.4177 |
| V 292.401  | 100.464                  | 100.821 | 101.040 |
| Zn 206.200 | 102.636                  | 102.568 | 105.626 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.7660     | ppb   | 0.0973  | 0.2  | 3466.34    |
| Al 308.215 | 4943.50     | ppb   | 5.7818  | 0.1  | 29336.0    |
| As 188.980 | 105.509     | ppb   | 2.7959  | 2.6  | 58.2239    |
| B 249.678  | 205.674     | ppb   | 0.9695  | 0.5  | 2859.40    |
| Ba 389.178 | 96.5745     | ppb   | 1.0179  | 1.1  | 1764.09    |
| Be 313.042 | 50.9544     | ppb   | 0.1413  | 0.3  | 89686.5    |
| Ca 370.602 | 5103        | ppb   | 10.14   | 0.2  | 10061      |
| Cd 226.502 | 50.9595     | ppb   | 0.1715  | 0.3  | 1716.07    |
| Co 228.615 | 51.5701     | ppb   | 0.4478  | 0.9  | 583.286    |
| Cr 267.716 | 101.043     | ppb   | 0.5276  | 0.5  | 4582.16    |
| Cu 324.754 | 101.883     | ppb   | 0.7646  | 0.8  | 5594.58    |
| Fe 271.441 | 4953.10     | ppb   | 19.3252 | 0.4  | 7597.66    |
| K 766.491  | 5203.03     | ppb   | 9.9789  | 0.2  | 169075     |
| Mg 279.078 | 5153.01     | ppb   | 8.9955  | 0.2  | 10873.3    |
| Mn 257.610 | 520.290     | ppb   | 0.9632  | 0.2  | 113434     |
| Mo 202.032 | 101.664     | ppb   | 0.4027  | 0.4  | 674.254    |
| Na 330.237 | 5759.49     | ppb   | 71.4797 | 1.2  | 311.580    |
| Ni 231.604 | 100.129     | ppb   | 0.8822  | 0.9  | 257.820    |
| Pb 220.353 | 51.9205     | ppb   | 1.6567  | 3.2  | 100.354    |
| Sb 206.834 | 52.0457     | ppb   | 4.9693  | 9.5  | 45.1071    |
| Se 196.026 | 97.0292     | ppb   | 5.3974  | 5.6  | 52.8857    |
| Sn 189.925 | 198.861     | ppb   | 3.1219  | 1.6  | 148.862    |
| Sr 216.596 | 101.087     | ppb   | 0.2013  | 0.2  | 1067.07    |
| Ti 334.941 | 98.4116     | ppb   | 0.1454  | 0.1  | 24661.7    |
| Tl 190.794 | 42.1200     | ppb   | 3.7479  | 8.9  | 20.1151    |
| V 292.401  | 100.775     | ppb   | 0.2907  | 0.3  | 2347.77    |
| Zn 206.200 | 103.610     | ppb   | 1.7458  | 1.7  | 139.740    |



680-90643-a-2-a (Samp) 5/29/2013, 12:30:11 AM Rack 3, Tube 16  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 6.0091u                  | 5.9830u   | 5.9704u   |
| Al 308.215 | 63271.9                  | 63415.8   | 63551.9   |
| As 188.980 | 69.0795                  | 84.3431   | 73.6826   |
| B 249.678  | 5989.42                  | 6039.85   | 6059.64   |
| Ba 389.178 | 413.601                  | 414.609   | 413.796   |
| Be 313.042 | 0.9521                   | 0.9496    | 0.9408    |
| Ca 370.602 | 3817764x                 | 3818063x  | 3793256x  |
| Cd 226.502 | 4.7969                   | 4.9568    | 4.7306    |
| Co 228.615 | 67.7865                  | 71.4788   | 69.8429   |
| Cr 267.716 | 149.388                  | 150.183   | 150.237   |
| Cu 324.754 | 10289.6                  | 10362.9   | 10358.5   |
| Fe 271.441 | 100825                   | 101571    | 101289    |
| K 766.491  | 698728x                  | 699999x   | 699191x   |
| Mg 279.078 | 1368693x                 | 1377842x  | 1375979x  |
| Mn 257.610 | 11086.5                  | 11137.5   | 11109.8   |
| Mo 202.032 | 5.2664                   | 6.2595    | 5.1990    |
| Na 330.237 | 13734360x                | 13836912x | 13842107x |
| Ni 231.604 | 413.729                  | 411.726   | 409.496   |
| Pb 220.353 | 176.105                  | 194.504   | 192.272   |
| Sb 206.834 | 8.7599                   | 10.8240   | 24.8082   |
| Se 196.026 | 5.6687                   | 7.5856    | 6.0696    |
| Sn 189.925 | 14.3398                  | 10.2831   | 18.5590   |
| Sr 216.596 | 45727.0x                 | 45923.9x  | 45936.3x  |
| Ti 334.941 | 3070.77                  | 3074.98   | 3069.89   |
| Tl 190.794 | -18.6693u                | -20.3793u | -21.5412u |
| V 292.401  | 113.841                  | 115.306   | 115.070   |
| Zn 206.200 | 16874.1                  | 16930.9   | 16956.8   |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 5.9875b     | ppb   | 0.0198  | 0.3  | -1574.49   |
| Al 308.215 | 63413.2b    | ppb   | 140.022 | 0.2  | 374289     |
| As 188.980 | 75.7018b    | ppb   | 7.8296  | 10.3 | 40.2916    |
| B 249.678  | 6029.64b    | ppb   | 36.2091 | 0.6  | 80903.1    |
| Ba 389.178 | 414.002b    | ppb   | 0.5346  | 0.1  | 10453.0    |
| Be 313.042 | 0.9475b     | ppb   | 0.0059  | 0.6  | 1072.36    |
| Ca 370.602 | 3809695xb   | ppb   | 14237   | 0.4  | 7671274    |
| Cd 226.502 | 4.8281b     | ppb   | 0.1163  | 2.4  | 384.239    |
| Co 228.615 | 69.7027b    | ppb   | 1.8502  | 2.7  | 859.383    |
| Cr 267.716 | 149.936b    | ppb   | 0.4755  | 0.3  | 7095.43    |
| Cu 324.754 | 10337.0b    | ppb   | 41.1349 | 0.4  | 551681     |
| Fe 271.441 | 101228b     | ppb   | 376.369 | 0.4  | 154759     |
| K 766.491  | 699306xb    | ppb   | 643.217 | 0.1  | 22684736   |
| Mg 279.078 | 1374171xb   | ppb   | 4834.65 | 0.4  | 2893060    |
| Mn 257.610 | 11111.3b    | ppb   | 25.5686 | 0.2  | 2431528    |
| Mo 202.032 | 5.5750b     | ppb   | 0.5938  | 10.7 | 40.7267    |
| Na 330.237 | 13804460xb  | ppb   | 60763.6 | 0.4  | 643899     |
| Ni 231.604 | 411.650b    | ppb   | 2.1174  | 0.5  | 1068.02    |
| Pb 220.353 | 187.627b    | ppb   | 10.0407 | 5.4  | 307.876    |
| Sb 206.834 | 14.7973b    | ppb   | 8.7308  | 59.0 | 12.7429    |
| Se 196.026 | 6.4413b     | ppb   | 1.0111  | 15.7 | 13.1534    |
| Sn 189.925 | 14.3939b    | ppb   | 4.1382  | 28.7 | 5.1305     |
| Sr 216.596 | 45862.4xb   | ppb   | 117.427 | 0.3  | 475465     |
| Ti 334.941 | 3071.88b    | ppb   | 2.7170  | 0.1  | 775450     |
| Tl 190.794 | -20.1966b   | ppb   | 1.4447  | 7.2  | -39.5965   |
| V 292.401  | 114.739b    | ppb   | 0.7863  | 0.7  | 2650.56    |
| Zn 206.200 | 16920.6b    | ppb   | 42.2773 | 0.2  | 52912.2    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90643-a-3-a (Samp) 5/29/2013, 12:34:48 AM Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 4.8652u                  | 5.0522u   | 4.9644u   |
| Al 308.215 | 140896                   | 140266    | 142024    |
| As 188.980 | 99.1343                  | 105.434   | 88.6907   |
| B 249.678  | 5699.81                  | 5661.57   | 5728.60   |
| Ba 389.178 | 483.381                  | 477.740   | 488.820   |
| Be 313.042 | 2.2263                   | 2.2301    | 2.2268    |
| Ca 370.602 | 2991505x                 | 2954958x  | 2984094x  |
| Cd 226.502 | 7.8187                   | 8.2502    | 8.3413    |
| Co 228.615 | 66.6833                  | 65.3972   | 67.9057   |
| Cr 267.716 | 355.728                  | 352.328   | 356.014   |
| Cu 324.754 | 26971.5                  | 26955.8   | 27200.3   |
| Fe 271.441 | 108444                   | 107518    | 108450    |
| K 766.491  | 712792x                  | 710597x   | 718727x   |
| Mg 279.078 | 1301344x                 | 1292338x  | 1302040x  |
| Mn 257.610 | 12426.9                  | 12345.9   | 12409.0   |
| Mo 202.032 | 9.0951                   | 7.5194    | 8.8859    |
| Na 330.237 | 14870017x                | 14872183x | 14994474x |
| Ni 231.604 | 390.685                  | 389.425   | 389.520   |
| Pb 220.353 | 362.858                  | 367.295   | 364.802   |
| Sb 206.834 | 25.2554                  | 19.2352   | 13.3579   |
| Se 196.026 | 13.3288                  | 7.2600    | 8.9225    |
| Sn 189.925 | 52.7918                  | 60.4690   | 49.0584   |
| Sr 216.596 | 37489.0x                 | 37049.6x  | 37391.5x  |
| Ti 334.941 | 6663.11                  | 6616.17   | 6693.85   |
| Tl 190.794 | -28.8193u                | -22.9241u | -22.8355u |
| V 292.401  | 243.956                  | 241.753   | 244.812   |
| Zn 206.200 | 17830.9                  | 17585.7   | 17734.8   |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 4.9606b     | ppb   | 0.0935  | 1.9  | -1266.04   |
| Al 308.215 | 141062b     | ppb   | 891.022 | 0.6  | 832382     |
| As 188.980 | 97.7529b    | ppb   | 8.4566  | 8.7  | 53.9652    |
| B 249.678  | 5696.66b    | ppb   | 33.6238 | 0.6  | 76418.0    |
| Ba 389.178 | 483.314b    | ppb   | 5.5403  | 1.1  | 11570.6    |
| Be 313.042 | 2.2277b     | ppb   | 0.0020  | 0.1  | 2954.04    |
| Ca 370.602 | 2976853xb   | ppb   | 19320   | 0.6  | 5994300    |
| Cd 226.502 | 8.1367b     | ppb   | 0.2792  | 3.4  | 504.945    |
| Co 228.615 | 66.6621b    | ppb   | 1.2544  | 1.9  | 904.471    |
| Cr 267.716 | 354.690b    | ppb   | 2.0504  | 0.6  | 16394.8    |
| Cu 324.754 | 27042.6b    | ppb   | 136.852 | 0.5  | 1442950    |
| Fe 271.441 | 108137b     | ppb   | 536.603 | 0.5  | 165321     |
| K 766.491  | 714039xb    | ppb   | 4206.00 | 0.6  | 23162638   |
| Mg 279.078 | 1298574xb   | ppb   | 5411.57 | 0.4  | 2733855    |
| Mn 257.610 | 12393.9b    | ppb   | 42.5346 | 0.3  | 2710413    |
| Mo 202.032 | 8.5001b     | ppb   | 0.8558  | 10.1 | 59.3445    |
| Na 330.237 | 14912225xb  | ppb   | 71238.2 | 0.5  | 695564     |
| Ni 231.604 | 389.877b    | ppb   | 0.7018  | 0.2  | 1011.69    |
| Pb 220.353 | 364.985b    | ppb   | 2.2242  | 0.6  | 569.126    |
| Sb 206.834 | 19.2828b    | ppb   | 5.9489  | 30.9 | 18.9045    |
| Se 196.026 | 9.8371b     | ppb   | 3.1360  | 31.9 | 15.0708    |
| Sn 189.925 | 54.1064b    | ppb   | 5.8178  | 10.8 | 37.4713    |
| Sr 216.596 | 37310.0xb   | ppb   | 230.747 | 0.6  | 386813     |
| Ti 334.941 | 6657.71b    | ppb   | 39.1205 | 0.6  | 1674962    |
| Tl 190.794 | -24.8596b   | ppb   | 3.4295  | 13.8 | -44.1772   |
| V 292.401  | 243.507b    | ppb   | 1.5779  | 0.6  | 5723.35    |
| Zn 206.200 | 17717.1b    | ppb   | 123.562 | 0.7  | 23947.6    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90675-a-1-a (Samp) 5/29/2013, 12:39:24 AM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2313                   | 0.1441   | 0.0321u  |
| Al 308.215 | 24.0802                  | 28.0761  | 27.6243  |
| As 188.980 | 7.1902                   | 8.8524   | 17.6022  |
| B 249.678  | 142.061                  | 137.369  | 138.382  |
| Ba 389.178 | 907.481                  | 903.557  | 942.191  |
| Be 313.042 | 0.0763                   | 0.0762   | 0.0792   |
| Ca 370.602 | 106525                   | 106487   | 110973   |
| Cd 226.502 | -0.1016                  | -0.1803  | -0.1247  |
| Co 228.615 | 30.1286                  | 28.8566  | 31.8502  |
| Cr 267.716 | 1.6281                   | 1.6458   | 1.7579   |
| Cu 324.754 | 99.7914                  | 102.549  | 104.569  |
| Fe 271.441 | 11465.2                  | 11449.2  | 11933.4  |
| K 766.491  | 2434.01                  | 2430.63  | 2513.70  |
| Mg 279.078 | 41957.6                  | 41788.8  | 43470.8  |
| Mn 257.610 | 4283.52                  | 4286.20  | 4459.69  |
| Mo 202.032 | 0.3590                   | 0.8744   | 1.5572   |
| Na 330.237 | 53600.3                  | 53355.0  | 55626.9  |
| Ni 231.604 | 534.683                  | 530.931  | 558.762  |
| Pb 220.353 | 4.5347                   | 5.9616   | 3.2929   |
| Sb 206.834 | 5.5756                   | -0.7502u | 3.3769   |
| Se 196.026 | 0.0995                   | 3.9578   | -8.9211u |
| Sn 189.925 | 5.6070                   | -4.1890u | -1.1646u |
| Sr 216.596 | 645.026                  | 642.356  | 668.077  |
| Ti 334.941 | 0.7167                   | 0.8227   | 0.7340   |
| Tl 190.794 | -8.0657u                 | -5.6309u | 3.5862   |
| V 292.401  | 1.8666                   | 2.0699   | 2.3145   |
| Zn 206.200 | 123.814                  | 123.946  | 129.335  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1358      | ppb   | 0.0999  | 73.5   | -45.3150   |
| Al 308.215 | 26.5935     | ppb   | 2.1883  | 8.2    | 338.969    |
| As 188.980 | 11.2149     | ppb   | 5.5936  | 49.9   | 2.4670     |
| B 249.678  | 139.271     | ppb   | 2.4691  | 1.8    | 1955.04    |
| Ba 389.178 | 917.743     | ppb   | 21.2630 | 2.3    | 16794.1    |
| Be 313.042 | 0.0772      | ppb   | 0.0017  | 2.2    | -83.3605   |
| Ca 370.602 | 107995      | ppb   | 2579    | 2.4    | 217049     |
| Cd 226.502 | -0.1355     | ppb   | 0.0404  | 29.8   | 44.1511    |
| Co 228.615 | 30.2785     | ppb   | 1.5024  | 5.0    | 344.487    |
| Cr 267.716 | 1.6773      | ppb   | 0.0704  | 4.2    | 103.351    |
| Cu 324.754 | 102.303     | ppb   | 2.3982  | 2.3    | 5617.17    |
| Fe 271.441 | 11616.0     | ppb   | 275.024 | 2.4    | 17778.6    |
| K 766.491  | 2459.45     | ppb   | 47.0174 | 1.9    | 80077.1    |
| Mg 279.078 | 42405.8     | ppb   | 926.228 | 2.2    | 89247.5    |
| Mn 257.610 | 4343.14     | ppb   | 100.945 | 2.3    | 946594     |
| Mo 202.032 | 0.9302      | ppb   | 0.6010  | 64.6   | 14.5691    |
| Na 330.237 | 54194.0     | ppb   | 1246.91 | 2.3    | 2569.75    |
| Ni 231.604 | 541.459     | ppb   | 15.1021 | 2.8    | 1403.02    |
| Pb 220.353 | 4.5964      | ppb   | 1.3354  | 29.1   | 31.4446    |
| Sb 206.834 | 2.7341      | ppb   | 3.2115  | 117.5  | -2.0296    |
| Se 196.026 | -1.6213     | ppb   | 6.6096  | 407.7  | 7.4728     |
| Sn 189.925 | 0.0845      | ppb   | 5.0160  | 5939.1 | -12.7167   |
| Sr 216.596 | 651.820     | ppb   | 14.1426 | 2.2    | 6781.12    |
| Ti 334.941 | 0.7578      | ppb   | 0.0569  | 7.5    | 302.281    |
| Tl 190.794 | -3.3702     | ppb   | 6.1461  | 182.4  | -18.7709   |
| V 292.401  | 2.0837      | ppb   | 0.2243  | 10.8   | 33.6730    |
| Zn 206.200 | 125.698     | ppb   | 3.1592  | 2.5    | 168.844    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90675-a-2-a (Samp) 5/29/2013, 12:44:00 AM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1124u                  | -0.0384u | 0.2421u  |
| Al 308.215 | 10.5041                  | 9.1691   | 10.2735  |
| As 188.980 | -3.5772u                 | 6.3201   | 4.5924   |
| B 249.678  | 108.478                  | 106.285  | 105.359  |
| Ba 389.178 | 527.379                  | 524.515  | 526.391  |
| Be 313.042 | -0.0140u                 | -0.0109u | -0.0079u |
| Ca 370.602 | 60491                    | 60249    | 60658    |
| Cd 226.502 | -0.1193u                 | -0.1750u | 0.0195   |
| Co 228.615 | 26.7676                  | 26.4197  | 26.4953  |
| Cr 267.716 | 0.2194                   | 0.0620   | 0.2611   |
| Cu 324.754 | 11.9728                  | 11.9069  | 11.5794  |
| Fe 271.441 | 401.380                  | 391.867  | 403.227  |
| K 766.491  | 2195.50                  | 2215.19  | 2215.98  |
| Mg 279.078 | 41217.0                  | 41215.7  | 41254.9  |
| Mn 257.610 | 55.1131                  | 55.1944  | 55.2313  |
| Mo 202.032 | 0.2871                   | 0.2094   | -0.1604u |
| Na 330.237 | 52826.9                  | 52860.9  | 52926.3  |
| Ni 231.604 | 515.016                  | 508.050  | 514.575  |
| Pb 220.353 | -1.1872u                 | -1.2053u | 1.1530   |
| Sb 206.834 | 5.6485                   | 3.7919   | 0.8606   |
| Se 196.026 | -6.1990u                 | 1.7026   | -2.0861u |
| Sn 189.925 | 0.4603                   | -1.4758u | 0.3111   |
| Sr 216.596 | 546.052                  | 544.767  | 547.255  |
| Ti 334.941 | -0.3273                  | -0.2397  | -0.3368  |
| Tl 190.794 | 0.3318                   | 0.5302   | 6.8752   |
| V 292.401  | 0.3470                   | 0.5151   | 0.1343   |
| Zn 206.200 | 16.2654                  | 17.4021  | 17.5993  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1054      | ppb   | 0.1404  | 133.2 | -61.4179   |
| Al 308.215 | 9.9822      | ppb   | 0.7136  | 7.1   | 241.375    |
| As 188.980 | 2.4451      | ppb   | 5.2865  | 216.2 | -2.6061    |
| B 249.678  | 106.707     | ppb   | 1.6019  | 1.5   | 1538.69    |
| Ba 389.178 | 526.095     | ppb   | 1.4546  | 0.3   | 9650.41    |
| Be 313.042 | -0.0109     | ppb   | 0.0031  | 27.9  | -252.935   |
| Ca 370.602 | 60466       | ppb   | 205.6   | 0.3   | 121786     |
| Cd 226.502 | -0.0916     | ppb   | 0.1002  | 109.4 | 16.9893    |
| Co 228.615 | 26.5609     | ppb   | 0.1830  | 0.7   | 302.295    |
| Cr 267.716 | 0.1809      | ppb   | 0.1050  | 58.1  | 15.6554    |
| Cu 324.754 | 11.8197     | ppb   | 0.2107  | 1.8   | 786.187    |
| Fe 271.441 | 398.825     | ppb   | 6.0957  | 1.5   | 632.573    |
| K 766.491  | 2208.89     | ppb   | 11.5999 | 0.5   | 71949.4    |
| Mg 279.078 | 41229.2     | ppb   | 22.2471 | 0.1   | 86836.8    |
| Mn 257.610 | 55.1796     | ppb   | 0.0605  | 0.1   | 12368.0    |
| Mo 202.032 | 0.1120      | ppb   | 0.2391  | 213.4 | 9.7239     |
| Na 330.237 | 52871.4     | ppb   | 50.5219 | 0.1   | 2512.55    |
| Ni 231.604 | 512.547     | ppb   | 3.9008  | 0.8   | 1327.78    |
| Pb 220.353 | -0.4132     | ppb   | 1.3564  | 328.3 | 22.4669    |
| Sb 206.834 | 3.4336      | ppb   | 2.4140  | 70.3  | -1.6117    |
| Se 196.026 | -2.1942     | ppb   | 3.9519  | 180.1 | 6.1611     |
| Sn 189.925 | -0.2348     | ppb   | 1.0773  | 458.8 | -12.9964   |
| Sr 216.596 | 546.025     | ppb   | 1.2445  | 0.2   | 5671.52    |
| Ti 334.941 | -0.3013     | ppb   | 0.0536  | 17.8  | 30.6644    |
| Tl 190.794 | 2.5791      | ppb   | 3.7219  | 144.3 | -11.7246   |
| V 292.401  | 0.3321      | ppb   | 0.1908  | 57.5  | -7.5367    |
| Zn 206.200 | 17.0889     | ppb   | 0.7200  | 4.2   | 27.4946    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90675-a-3-a (Samp) 5/29/2013, 12:48:37 AM Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0184u                  | 0.1453u  | 0.0157u  |
| Al 308.215 | 15.1558                  | 17.1270  | 13.9234  |
| As 188.980 | 35.6377                  | 43.9805  | 41.2009  |
| B 249.678  | 46.1036                  | 45.1372  | 44.0001  |
| Ba 389.178 | 683.266                  | 684.988  | 672.100  |
| Be 313.042 | -0.0225u                 | -0.0098u | -0.0116u |
| Ca 370.602 | 60628                    | 60574    | 59429    |
| Cd 226.502 | -0.1551u                 | -0.2243u | -0.2476u |
| Co 228.615 | 0.1109                   | 0.1269   | 0.2375   |
| Cr 267.716 | 0.0558                   | 0.1088   | -0.0300  |
| Cu 324.754 | 5.2592                   | 5.2932   | 5.2392   |
| Fe 271.441 | 177.038                  | 178.345  | 168.818  |
| K 766.491  | 3508.98                  | 3488.29  | 3443.44  |
| Mg 279.078 | 40705.2                  | 40666.1  | 39849.1  |
| Mn 257.610 | 714.647                  | 714.779  | 701.219  |
| Mo 202.032 | 0.6757                   | 0.9748   | 0.8019   |
| Na 330.237 | 52722.6                  | 52329.1  | 51632.2  |
| Ni 231.604 | 7.3998                   | 7.5023   | 5.7069   |
| Pb 220.353 | 5.1939                   | -2.6531u | 0.0821   |
| Sb 206.834 | 185.777                  | 175.212  | 173.794  |
| Se 196.026 | -2.7630u                 | 1.6795   | -7.9693u |
| Sn 189.925 | -0.0077                  | -3.2686u | -2.3270u |
| Sr 216.596 | 548.015                  | 545.813  | 536.417  |
| Ti 334.941 | -0.3294                  | -0.4228  | -0.4160  |
| Tl 190.794 | 2.9820                   | 0.4571   | 2.7681   |
| V 292.401  | 3.8290                   | 3.9987   | 3.5831   |
| Zn 206.200 | 11.7626                  | 11.6996  | 12.3293  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0598      | ppb   | 0.0741  | 123.8 | -61.6522   |
| Al 308.215 | 15.4021     | ppb   | 1.6159  | 10.5  | 273.904    |
| As 188.980 | 40.2730     | ppb   | 4.2481  | 10.5  | 19.7308    |
| B 249.678  | 45.0803     | ppb   | 1.0529  | 2.3   | 711.400    |
| Ba 389.178 | 680.118     | ppb   | 6.9972  | 1.0   | 12452.0    |
| Be 313.042 | -0.0146     | ppb   | 0.0069  | 47.1  | -259.993   |
| Ca 370.602 | 60210       | ppb   | 677.2   | 1.1   | 121294     |
| Cd 226.502 | -0.2090     | ppb   | 0.0481  | 23.0  | 12.5154    |
| Co 228.615 | 0.1584      | ppb   | 0.0690  | 43.5  | 5.3483     |
| Cr 267.716 | 0.0449      | ppb   | 0.0700  | 156.0 | 12.0742    |
| Cu 324.754 | 5.2639      | ppb   | 0.0273  | 0.5   | 436.334    |
| Fe 271.441 | 174.734     | ppb   | 5.1643  | 3.0   | 287.024    |
| K 766.491  | 3480.24     | ppb   | 33.5049 | 1.0   | 113190     |
| Mg 279.078 | 40406.8     | ppb   | 483.334 | 1.2   | 85094.8    |
| Mn 257.610 | 710.215     | ppb   | 7.7914  | 1.1   | 155069     |
| Mo 202.032 | 0.8175      | ppb   | 0.1501  | 18.4  | 14.3471    |
| Na 330.237 | 52227.9     | ppb   | 552.200 | 1.1   | 2482.66    |
| Ni 231.604 | 6.8696      | ppb   | 1.0083  | 14.7  | 15.8684    |
| Pb 220.353 | 0.8743      | ppb   | 3.9830  | 455.6 | 24.4989    |
| Sb 206.834 | 178.261     | ppb   | 6.5473  | 3.7   | 165.874    |
| Se 196.026 | -3.0176     | ppb   | 4.8294  | 160.0 | 5.9273     |
| Sn 189.925 | -1.8678     | ppb   | 1.6783  | 89.9  | -14.3246   |
| Sr 216.596 | 543.415     | ppb   | 6.1595  | 1.1   | 5652.54    |
| Ti 334.941 | -0.3894     | ppb   | 0.0521  | 13.4  | 5.3609     |
| Tl 190.794 | 2.0691      | ppb   | 1.4001  | 67.7  | -12.4378   |
| V 292.401  | 3.8036      | ppb   | 0.2090  | 5.5   | 74.3901    |
| Zn 206.200 | 11.9305     | ppb   | 0.3468  | 2.9   | 20.7838    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90675-a-4-a (Samp) 5/29/2013, 12:53:13 AM Rack 3, Tube 21

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.6064                   | -0.0556u | -0.0441u |
| Al 308.215 | 18.4670                  | 18.9258  | 21.0972  |
| As 188.980 | 38.0544                  | 29.2634  | 39.5241  |
| B 249.678  | 36.6413                  | 36.4922  | 36.7978  |
| Ba 389.178 | 529.896                  | 532.458  | 533.314  |
| Be 313.042 | -0.0110u                 | -0.0105u | -0.0132u |
| Ca 370.602 | 61287                    | 62012    | 62059    |
| Cd 226.502 | -0.1124u                 | -0.0686u | -0.2206u |
| Co 228.615 | 0.5847                   | 0.5901   | 0.4797   |
| Cr 267.716 | 0.3861                   | 0.0375   | 0.2589   |
| Cu 324.754 | 1.9455                   | 1.9586   | 2.3874   |
| Fe 271.441 | 169.737                  | 167.704  | 170.441  |
| K 766.491  | 2288.12                  | 2302.15  | 2301.07  |
| Mg 279.078 | 38523.4                  | 38905.4  | 38875.4  |
| Mn 257.610 | 119.949                  | 121.083  | 121.083  |
| Mo 202.032 | 0.8304                   | 0.2384   | 0.8532   |
| Na 330.237 | 51442.5                  | 51973.6  | 52009.9  |
| Ni 231.604 | 7.5047                   | 6.0243   | 7.6737   |
| Pb 220.353 | 1.2390                   | 2.4026   | 1.1127   |
| Sb 206.834 | 132.312                  | 140.133  | 133.638  |
| Se 196.026 | -3.2110u                 | 3.3700   | 4.1849   |
| Sn 189.925 | 0.1273                   | -2.3313u | 3.1743   |
| Sr 216.596 | 481.017                  | 486.334  | 486.104  |
| Ti 334.941 | -0.4025                  | -0.4360  | -0.3836  |
| Tl 190.794 | 1.9804                   | 6.8511   | 4.4734   |
| V 292.401  | 5.3978                   | 4.7601   | 5.1347   |
| Zn 206.200 | 43.9995                  | 44.0627  | 43.2869  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1689      | ppb   | 0.3789  | 224.3 | -53.9366   |
| Al 308.215 | 19.4967     | ppb   | 1.4049  | 7.2   | 297.826    |
| As 188.980 | 35.6140     | ppb   | 5.5486  | 15.6  | 16.9800    |
| B 249.678  | 36.6438     | ppb   | 0.1528  | 0.4   | 598.084    |
| Ba 389.178 | 531.889     | ppb   | 1.7782  | 0.3   | 9750.52    |
| Be 313.042 | -0.0116     | ppb   | 0.0015  | 12.6  | -253.712   |
| Ca 370.602 | 61786       | ppb   | 433.2   | 0.7   | 124458     |
| Cd 226.502 | -0.1339     | ppb   | 0.0782  | 58.4  | 14.9838    |
| Co 228.615 | 0.5515      | ppb   | 0.0622  | 11.3  | 9.7706     |
| Cr 267.716 | 0.2275      | ppb   | 0.1764  | 77.5  | 17.9210    |
| Cu 324.754 | 2.0972      | ppb   | 0.2514  | 12.0  | 267.366    |
| Fe 271.441 | 169.294     | ppb   | 1.4216  | 0.8   | 278.765    |
| K 766.491  | 2297.11     | ppb   | 7.8074  | 0.3   | 74811.2    |
| Mg 279.078 | 38768.1     | ppb   | 212.467 | 0.5   | 81654.1    |
| Mn 257.610 | 120.705     | ppb   | 0.6550  | 0.5   | 26623.9    |
| Mo 202.032 | 0.6407      | ppb   | 0.3486  | 54.4  | 13.1875    |
| Na 330.237 | 51808.7     | ppb   | 317.621 | 0.6   | 2462.67    |
| Ni 231.604 | 7.0676      | ppb   | 0.9075  | 12.8  | 16.3811    |
| Pb 220.353 | 1.5848      | ppb   | 0.7110  | 44.9  | 25.4409    |
| Sb 206.834 | 135.361     | ppb   | 4.1856  | 3.1   | 124.776    |
| Se 196.026 | 1.4480      | ppb   | 4.0553  | 280.1 | 7.8863     |
| Sn 189.925 | 0.3234      | ppb   | 2.7580  | 852.7 | -12.5423   |
| Sr 216.596 | 484.485     | ppb   | 3.0055  | 0.6   | 5042.35    |
| Ti 334.941 | -0.4074     | ppb   | 0.0265  | 6.5   | -5.9667    |
| Tl 190.794 | 4.4350      | ppb   | 2.4356  | 54.9  | -10.2868   |
| V 292.401  | 5.0975      | ppb   | 0.3204  | 6.3   | 104.968    |
| Zn 206.200 | 43.7831     | ppb   | 0.4398  | 1.0   | 62.2102    |

680-90675-a-5-a (Samp) 5/29/2013, 12:57:49 AM Rack 3, Tube 22

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1801u                  | 0.0358u  | 0.1961u  |
| Al 308.215 | 17.3897                  | 15.5352  | 17.9994  |
| As 188.980 | 37.7941                  | 39.7292  | 38.0509  |
| B 249.678  | 34.7753                  | 34.2687  | 33.2669  |
| Ba 389.178 | 536.650                  | 536.083  | 535.741  |
| Be 313.042 | -0.0089u                 | -0.0199u | -0.0083u |
| Ca 370.602 | 65496                    | 64898    | 65129    |
| Cd 226.502 | -0.0450u                 | -0.0772u | -0.0286u |
| Co 228.615 | -0.1124u                 | 0.8255   | 0.4240   |
| Cr 267.716 | 0.0850                   | 0.0174   | 0.0024   |
| Cu 324.754 | 2.9126                   | 2.5193   | 2.5058   |
| Fe 271.441 | 163.900                  | 151.554  | 153.730  |
| K 766.491  | 2367.10                  | 2371.11  | 2367.74  |
| Mg 279.078 | 37295.0                  | 37284.7  | 37351.1  |
| Mn 257.610 | 3.8406                   | 3.8530   | 3.8865   |
| Mo 202.032 | 0.3304                   | 1.1739   | 0.2100   |
| Na 330.237 | 53439.2                  | 53441.3  | 53370.8  |
| Ni 231.604 | 7.8856                   | 6.1670   | 8.5023   |
| Pb 220.353 | -0.8786u                 | -3.2407u | -0.4628u |
| Sb 206.834 | 125.656                  | 132.282  | 131.908  |
| Se 196.026 | 2.1862                   | -7.3440u | -3.8129u |
| Sn 189.925 | -0.1803u                 | -0.9381u | 1.3218   |
| Sr 216.596 | 486.996                  | 485.679  | 487.785  |
| Ti 334.941 | -0.2982                  | -0.2495  | -0.2855  |
| Tl 190.794 | 1.9288                   | 2.2200   | 4.9104   |
| V 292.401  | 1.4682                   | 1.5571   | 1.6548   |
| Zn 206.200 | 13.6421                  | 16.0878  | 15.3658  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1374      | ppb   | 0.0883  | 64.3   | -56.8825   |
| Al 308.215 | 16.9748     | ppb   | 1.2835  | 7.6    | 283.527    |
| As 188.980 | 38.5247     | ppb   | 1.0510  | 2.7    | 18.6988    |
| B 249.678  | 34.1036     | ppb   | 0.7676  | 2.3    | 563.996    |
| Ba 389.178 | 536.158     | ppb   | 0.4595  | 0.1    | 9825.26    |
| Be 313.042 | -0.0124     | ppb   | 0.0065  | 52.8   | -253.827   |
| Ca 370.602 | 65174       | ppb   | 301.4   | 0.5    | 131283     |
| Cd 226.502 | -0.0503     | ppb   | 0.0247  | 49.2   | 17.6845    |
| Co 228.615 | 0.3790      | ppb   | 0.4706  | 124.2  | 7.8339     |
| Cr 267.716 | 0.0349      | ppb   | 0.0440  | 125.9  | 8.7829     |
| Cu 324.754 | 2.6459      | ppb   | 0.2311  | 8.7    | 296.674    |
| Fe 271.441 | 156.394     | ppb   | 6.5906  | 4.2    | 259.005    |
| K 766.491  | 2368.65     | ppb   | 2.1566  | 0.1    | 77131.8    |
| Mg 279.078 | 37310.3     | ppb   | 35.7542 | 0.1    | 78586.6    |
| Mn 257.610 | 3.8600      | ppb   | 0.0237  | 0.6    | 1156.69    |
| Mo 202.032 | 0.5714      | ppb   | 0.5252  | 91.9   | 12.7409    |
| Na 330.237 | 53417.1     | ppb   | 40.1185 | 0.1    | 2538.11    |
| Ni 231.604 | 7.5183      | ppb   | 1.2102  | 16.1   | 17.5506    |
| Pb 220.353 | -1.5274     | ppb   | 1.4983  | 98.1   | 20.7930    |
| Sb 206.834 | 129.949     | ppb   | 3.7225  | 2.9    | 119.589    |
| Se 196.026 | -2.9902     | ppb   | 4.8181  | 161.1  | 5.7744     |
| Sn 189.925 | 0.0678      | ppb   | 1.1502  | 1696.7 | -12.7481   |
| Sr 216.596 | 486.820     | ppb   | 1.0638  | 0.2    | 5066.88    |
| Ti 334.941 | -0.2777     | ppb   | 0.0252  | 9.1    | 20.6786    |
| Tl 190.794 | 3.0198      | ppb   | 1.6438  | 54.4   | -11.3955   |
| V 292.401  | 1.5600      | ppb   | 0.0934  | 6.0    | 21.3748    |
| Zn 206.200 | 15.0319     | ppb   | 1.2566  | 8.4    | 24.8175    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90691-a-1-a (Samp) 5/29/2013, 1:02:26 AM Rack 3, Tube 23

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1876                   | 0.1183   | -0.1880u |
| Al 308.215 | 255.832                  | 255.510  | 258.171  |
| As 188.980 | 2.1958                   | -0.6523u | -1.6078u |
| B 249.678  | 14.1068                  | 13.7791  | 13.4567  |
| Ba 389.178 | 11.9423                  | 12.1872  | 13.0030  |
| Be 313.042 | 0.0122                   | 0.0105   | 0.0084   |
| Ca 370.602 | 4144                     | 4125     | 4157     |
| Cd 226.502 | 21.6003                  | 21.1655  | 21.5012  |
| Co 228.615 | 1.3377                   | 1.2401   | 1.5627   |
| Cr 267.716 | 0.8203                   | 0.6398   | 0.8298   |
| Cu 324.754 | 12.6199                  | 12.3639  | 12.6415  |
| Fe 271.441 | 272.390                  | 272.832  | 272.588  |
| K 766.491  | 3673.47                  | 3641.12  | 3685.46  |
| Mg 279.078 | 1087.71                  | 1093.51  | 1090.27  |
| Mn 257.610 | 19.6910                  | 19.5446  | 19.7885  |
| Mo 202.032 | 0.0491                   | 0.1279   | -0.1700u |
| Na 330.237 | 6107.12                  | 6040.26  | 6078.28  |
| Ni 231.604 | 31.0120                  | 28.9629  | 30.3927  |
| Pb 220.353 | -1.4374u                 | 1.7795   | -3.1196u |
| Sb 206.834 | 5.7575                   | -0.3221u | 1.2366   |
| Se 196.026 | 4.7469                   | -5.9893u | -8.3567u |
| Sn 189.925 | -4.4467u                 | -3.6067u | -0.6511u |
| Sr 216.596 | 29.5538                  | 29.6976  | 30.2581  |
| Ti 334.941 | 4.4795                   | 4.3414   | 4.4351   |
| Tl 190.794 | 3.9182                   | 5.7789   | 0.1646   |
| V 292.401  | 1.0260                   | 1.1099   | 0.8040   |
| Zn 206.200 | 68.1265                  | 66.0998  | 65.9608  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0393      | ppb   | 0.1999  | 508.2  | -43.7801   |
| Al 308.215 | 256.504     | ppb   | 1.4520  | 0.6    | 1696.74    |
| As 188.980 | -0.0214     | ppb   | 1.9787  | 9226.6 | -4.0589    |
| B 249.678  | 13.7809     | ppb   | 0.3251  | 2.4    | 290.830    |
| Ba 389.178 | 12.3775     | ppb   | 0.5554  | 4.5    | 217.418    |
| Be 313.042 | 0.0104      | ppb   | 0.0019  | 18.1   | -227.426   |
| Ca 370.602 | 4142        | ppb   | 16.08   | 0.4    | 8321       |
| Cd 226.502 | 21.4223     | ppb   | 0.2279  | 1.1    | 727.640    |
| Co 228.615 | 1.3802      | ppb   | 0.1654  | 12.0   | 19.2078    |
| Cr 267.716 | 0.7633      | ppb   | 0.1070  | 14.0   | 40.8713    |
| Cu 324.754 | 12.5418     | ppb   | 0.1544  | 1.2    | 824.659    |
| Fe 271.441 | 272.604     | ppb   | 0.2213  | 0.1    | 436.745    |
| K 766.491  | 3666.68     | ppb   | 22.9366 | 0.6    | 119238     |
| Mg 279.078 | 1090.50     | ppb   | 2.9041  | 0.3    | 2328.54    |
| Mn 257.610 | 19.6747     | ppb   | 0.1228  | 0.6    | 4324.67    |
| Mo 202.032 | 0.0023      | ppb   | 0.1543  | 6640.2 | 9.0105     |
| Na 330.237 | 6075.22     | ppb   | 33.5359 | 0.6    | 328.390    |
| Ni 231.604 | 30.1226     | ppb   | 1.0509  | 3.5    | 76.1971    |
| Pb 220.353 | -0.9258     | ppb   | 2.4893  | 268.9  | 21.6914    |
| Sb 206.834 | 2.2240      | ppb   | 3.1578  | 142.0  | -2.7676    |
| Se 196.026 | -3.1997     | ppb   | 6.9830  | 218.2  | 5.6798     |
| Sn 189.925 | -2.9015     | ppb   | 1.9937  | 68.7   | -15.2047   |
| Sr 216.596 | 29.8365     | ppb   | 0.3721  | 1.2    | 327.444    |
| Ti 334.941 | 4.4187      | ppb   | 0.0705  | 1.6    | 1056.58    |
| Tl 190.794 | 3.2872      | ppb   | 2.8598  | 87.0   | -11.1869   |
| V 292.401  | 0.9800      | ppb   | 0.1581  | 16.1   | 7.7161     |
| Zn 206.200 | 66.7290     | ppb   | 1.2123  | 243.8  | 92.0525    |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90691-a-2-a (Samp) 5/29/2013, 1:07:02 AM Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2327u                 | 0.2519   | -0.2095u |
| Al 308.215 | 208.259                  | 209.379  | 210.540  |
| As 188.980 | -2.5547u                 | -7.8145u | 4.9739   |
| B 249.678  | 9.8139                   | 9.4011   | 9.3249   |
| Ba 389.178 | 8.8899                   | 8.9956   | 8.0367   |
| Be 313.042 | 0.0035                   | 0.0120   | 0.0052   |
| Ca 370.602 | 3305                     | 3343     | 3332     |
| Cd 226.502 | 14.9823                  | 14.7715  | 14.8924  |
| Co 228.615 | 0.6080                   | 1.1863   | 1.1217   |
| Cr 267.716 | 0.4877                   | 0.4583   | 0.4922   |
| Cu 324.754 | 2.9558                   | 2.9408   | 2.9398   |
| Fe 271.441 | 154.143                  | 163.353  | 158.760  |
| K 766.491  | 3022.37                  | 3054.89  | 3049.87  |
| Mg 279.078 | 509.592                  | 514.561  | 509.398  |
| Mn 257.610 | 6.7697                   | 6.8335   | 6.7883   |
| Mo 202.032 | 0.0217                   | -0.5263u | -0.3200u |
| Na 330.237 | 1817.66                  | 1964.69  | 1810.21  |
| Ni 231.604 | 20.8515                  | 22.5246  | 21.9126  |
| Pb 220.353 | -2.7179u                 | -2.4865u | -5.6706u |
| Sb 206.834 | 4.9646                   | 3.8809   | 5.3106   |
| Se 196.026 | 2.6650                   | -1.4959u | 6.9972   |
| Sn 189.925 | -1.9862u                 | -0.9667u | -0.6371u |
| Sr 216.596 | 13.9626                  | 13.8702  | 14.3214  |
| Ti 334.941 | 1.3008                   | 1.3225   | 1.4947   |
| Tl 190.794 | 3.1622                   | 4.1388   | 2.7076   |
| V 292.401  | 0.9118                   | 0.7986   | 1.1573   |
| Zn 206.200 | 31.9176                  | 31.7605  | 33.2558  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.0634     | ppb   | 0.2734  | 430.9 | -50.4029   |
| Al 308.215 | 209.393     | ppb   | 1.1405  | 0.5   | 1418.81    |
| As 188.980 | -1.7984     | ppb   | 6.4276  | 357.4 | -5.1074    |
| B 249.678  | 9.5133      | ppb   | 0.2631  | 2.8   | 233.718    |
| Ba 389.178 | 8.6407      | ppb   | 0.5257  | 6.1   | 148.088    |
| Be 313.042 | 0.0069      | ppb   | 0.0045  | 65.9  | -233.347   |
| Ca 370.602 | 3327        | ppb   | 19.42   | 0.6   | 6683       |
| Cd 226.502 | 14.8821     | ppb   | 0.1057  | 0.7   | 511.165    |
| Co 228.615 | 0.9720      | ppb   | 0.3169  | 32.6  | 14.5524    |
| Cr 267.716 | 0.4794      | ppb   | 0.0184  | 3.8   | 27.9270    |
| Cu 324.754 | 2.9455      | ppb   | 0.0090  | 0.3   | 312.637    |
| Fe 271.441 | 158.752     | ppb   | 4.6048  | 2.9   | 262.669    |
| K 766.491  | 3042.38     | ppb   | 17.5053 | 0.6   | 98986.5    |
| Mg 279.078 | 511.184     | ppb   | 2.9267  | 0.6   | 1109.04    |
| Mn 257.610 | 6.7971      | ppb   | 0.0328  | 0.5   | 1514.40    |
| Mo 202.032 | -0.2749     | ppb   | 0.2768  | 100.7 | 7.2006     |
| Na 330.237 | 1864.19     | ppb   | 87.1178 | 4.7   | 132.403    |
| Ni 231.604 | 21.7629     | ppb   | 0.8465  | 3.9   | 54.5068    |
| Pb 220.353 | -3.6250     | ppb   | 1.7753  | 49.0  | 17.6737    |
| Sb 206.834 | 4.7187      | ppb   | 0.7459  | 15.8  | -0.3787    |
| Se 196.026 | 2.7221      | ppb   | 4.2468  | 156.0 | 8.4577     |
| Sn 189.925 | -1.1967     | ppb   | 0.7033  | 58.8  | -13.8201   |
| Sr 216.596 | 14.0514     | ppb   | 0.2383  | 1.7   | 163.919    |
| Ti 334.941 | 1.3727      | ppb   | 0.1063  | 7.7   | 290.101    |
| Tl 190.794 | 3.3362      | ppb   | 0.7313  | 21.9  | -11.1373   |
| V 292.401  | 0.9559      | ppb   | 0.1833  | 19.2  | 7.1809     |
| Zn 206.200 | 32.3113     | ppb   | 0.8217  | 2.5   | 472.894    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90691-a-3-a (Samp) 5/29/2013, 1:20:52 AM Rack 3, Tube 27

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.5099u                 | 0.2239   | -0.2536u |
| Al 308.215 | 72.3372                  | 77.1300  | 79.4055  |
| As 188.980 | -0.6189u                 | -1.5401u | -1.5275u |
| B 249.678  | 12.9576                  | 13.5087  | 13.0700  |
| Ba 389.178 | 12.1654                  | 11.5599  | 12.2520  |
| Be 313.042 | 0.0062                   | 0.0087   | 0.0087   |
| Ca 370.602 | 4876                     | 4853     | 4989     |
| Cd 226.502 | 14.9600                  | 14.9998  | 15.3509  |
| Co 228.615 | 1.2359                   | 0.6303   | 1.6596   |
| Cr 267.716 | 0.4033                   | 0.3605   | 0.4982   |
| Cu 324.754 | 2.7904                   | 2.2589   | 2.8040   |
| Fe 271.441 | 221.945                  | 219.896  | 226.017  |
| K 766.491  | 2603.50                  | 2610.38  | 2675.64  |
| Mg 279.078 | 632.464                  | 632.028  | 648.501  |
| Mn 257.610 | 18.7765                  | 18.7686  | 19.2267  |
| Mo 202.032 | 0.7560                   | 0.2005   | 0.3965   |
| Na 330.237 | 1903.35                  | 1994.46  | 2132.44  |
| Ni 231.604 | 31.5405                  | 30.5979  | 32.5849  |
| Pb 220.353 | -3.0364u                 | -2.3033u | -0.2666u |
| Sb 206.834 | 6.2366                   | 1.9666   | 7.7985   |
| Se 196.026 | -1.2355u                 | -4.0854u | -3.6442u |
| Sn 189.925 | -3.2114u                 | 3.0110   | -2.7678u |
| Sr 216.596 | 16.8657                  | 17.0028  | 16.8189  |
| Ti 334.941 | 1.2469                   | 1.1728   | 1.2009   |
| Tl 190.794 | 0.5968                   | -1.2631u | 1.7377   |
| V 292.401  | 0.6203                   | 0.4658   | 0.6862   |
| Zn 206.200 | 39.1702                  | 36.6600  | 37.2660  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1799     | ppb   | 0.3724  | 207.0 | -58.7017   |
| Al 308.215 | 76.2909     | ppb   | 3.6081  | 4.7   | 633.612    |
| As 188.980 | -1.2288     | ppb   | 0.5283  | 43.0  | -4.7732    |
| B 249.678  | 13.1788     | ppb   | 0.2912  | 2.2   | 282.821    |
| Ba 389.178 | 11.9924     | ppb   | 0.3771  | 3.1   | 209.433    |
| Be 313.042 | 0.0079      | ppb   | 0.0014  | 18.0  | -231.179   |
| Ca 370.602 | 4906        | ppb   | 72.60   | 1.5   | 9861       |
| Cd 226.502 | 15.1036     | ppb   | 0.2152  | 1.4   | 518.660    |
| Co 228.615 | 1.1753      | ppb   | 0.5173  | 44.0  | 16.8165    |
| Cr 267.716 | 0.4207      | ppb   | 0.0705  | 16.8  | 25.3355    |
| Cu 324.754 | 2.6178      | ppb   | 0.3108  | 11.9  | 295.202    |
| Fe 271.441 | 222.620     | ppb   | 3.1158  | 1.4   | 360.315    |
| K 766.491  | 2629.84     | ppb   | 39.8120 | 1.5   | 85604.4    |
| Mg 279.078 | 637.664     | ppb   | 9.3873  | 1.5   | 1375.19    |
| Mn 257.610 | 18.9239     | ppb   | 0.2622  | 1.4   | 4157.54    |
| Mo 202.032 | 0.4510      | ppb   | 0.2817  | 62.5  | 11.9507    |
| Na 330.237 | 2010.08     | ppb   | 115.343 | 5.7   | 139.123    |
| Ni 231.604 | 31.5745     | ppb   | 0.9939  | 3.1   | 79.9634    |
| Pb 220.353 | -1.8687     | ppb   | 1.4351  | 76.8  | 20.2913    |
| Sb 206.834 | 5.3339      | ppb   | 3.0189  | 56.6  | 0.2028     |
| Se 196.026 | -2.9884     | ppb   | 1.5340  | 51.3  | 5.7788     |
| Sn 189.925 | -0.9894     | ppb   | 3.4715  | 350.9 | -13.6509   |
| Sr 216.596 | 16.8958     | ppb   | 0.0956  | 0.6   | 193.437    |
| Ti 334.941 | 1.2069      | ppb   | 0.0374  | 3.1   | 248.992    |
| Tl 190.794 | 0.3571      | ppb   | 1.5147  | 424.1 | -13.5705   |
| V 292.401  | 0.5908      | ppb   | 0.1131  | 19.1  | -1.5505    |
| Zn 206.200 | 37.6987     | ppb   | 1.3999  | 3.5   | 54.2970    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90691-a-4-a (Samp) 5/29/2013, 1:25:28 AM Rack 3, Tube 28

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1958                   | 0.1395   | 0.0094u  |
| Al 308.215 | 189.894                  | 187.288  | 189.169  |
| As 188.980 | -4.3885u                 | -0.2273u | -0.6473u |
| B 249.678  | 10.4834                  | 10.0243  | 9.8797   |
| Ba 389.178 | 12.6328                  | 13.1707  | 11.9254  |
| Be 313.042 | -0.0003                  | 0.0058   | 0.0078   |
| Ca 370.602 | 4546                     | 4487     | 4519     |
| Cd 226.502 | 8.5990                   | 8.1578   | 8.2910   |
| Co 228.615 | 1.5489                   | 0.9036   | 0.6996   |
| Cr 267.716 | 0.4343                   | 0.3922   | 0.4544   |
| Cu 324.754 | 2.6114                   | 2.2784   | 2.3159   |
| Fe 271.441 | 448.546                  | 443.420  | 445.820  |
| K 766.491  | 5214.37                  | 5154.36  | 5153.01  |
| Mg 279.078 | 602.597                  | 602.937  | 606.478  |
| Mn 257.610 | 17.9667                  | 17.8167  | 17.9113  |
| Mo 202.032 | 1.0834                   | 0.1911   | -0.0724u |
| Na 330.237 | 1893.27                  | 1905.09  | 1885.19  |
| Ni 231.604 | 24.3439                  | 23.7281  | 23.8371  |
| Pb 220.353 | 2.6166                   | -0.6924u | -3.4862u |
| Sb 206.834 | 0.3805                   | -0.1580u | 1.2040   |
| Se 196.026 | -0.3575u                 | 1.8546   | 4.3429   |
| Sn 189.925 | -1.4814u                 | 2.8961   | -1.6653u |
| Sr 216.596 | 17.6938                  | 18.1025  | 17.1963  |
| Ti 334.941 | 3.8193                   | 3.9292   | 3.9514   |
| Tl 190.794 | 0.6748                   | 2.8137   | 0.9619   |
| V 292.401  | 0.8181                   | 0.8753   | 0.6885   |
| Zn 206.200 | 16.7172                  | 17.4743  | 17.8545  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1149      | ppb   | 0.0956  | 83.2   | -37.9199   |
| Al 308.215 | 188.783     | ppb   | 1.3453  | 0.7    | 1297.26    |
| As 188.980 | -1.7544     | ppb   | 2.2909  | 130.6  | -5.0845    |
| B 249.678  | 10.1291     | ppb   | 0.3152  | 3.1    | 241.456    |
| Ba 389.178 | 12.5763     | ppb   | 0.6246  | 5.0    | 220.238    |
| Be 313.042 | 0.0044      | ppb   | 0.0042  | 95.1   | -237.521   |
| Ca 370.602 | 4517        | ppb   | 29.57   | 0.7    | 9068       |
| Cd 226.502 | 8.3493      | ppb   | 0.2263  | 2.7    | 295.939    |
| Co 228.615 | 1.0507      | ppb   | 0.4433  | 42.2   | 15.4840    |
| Cr 267.716 | 0.4270      | ppb   | 0.0318  | 7.4    | 25.7280    |
| Cu 324.754 | 2.4019      | ppb   | 0.1824  | 7.6    | 283.749    |
| Fe 271.441 | 445.929     | ppb   | 2.5646  | 0.6    | 701.635    |
| K 766.491  | 5173.91     | ppb   | 35.0405 | 0.7    | 168130     |
| Mg 279.078 | 604.004     | ppb   | 2.1494  | 0.4    | 1304.34    |
| Mn 257.610 | 17.8982     | ppb   | 0.0758  | 0.4    | 3934.39    |
| Mo 202.032 | 0.4007      | ppb   | 0.6057  | 151.2  | 11.6112    |
| Na 330.237 | 1894.52     | ppb   | 10.0072 | 0.5    | 133.936    |
| Ni 231.604 | 23.9697     | ppb   | 0.3286  | 1.4    | 60.2378    |
| Pb 220.353 | -0.5207     | ppb   | 3.0550  | 586.7  | 22.3051    |
| Sb 206.834 | 0.4755      | ppb   | 0.6860  | 144.3  | -4.4460    |
| Se 196.026 | 1.9466      | ppb   | 2.3516  | 120.8  | 8.0970     |
| Sn 189.925 | -0.0836     | ppb   | 2.5821  | 3090.1 | -12.9145   |
| Sr 216.596 | 17.6642     | ppb   | 0.4538  | 2.6    | 201.664    |
| Ti 334.941 | 3.9000      | ppb   | 0.0707  | 1.8    | 924.744    |
| Tl 190.794 | 1.4835      | ppb   | 1.1609  | 78.3   | -12.6649   |
| V 292.401  | 0.7940      | ppb   | 0.0957  | 12.1   | 3.2952     |
| Zn 206.200 | 17.3487     | ppb   | 0.5790  | 3.3    | 27.8321    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90691-a-5-a (Samp)**      **5/29/2013, 1:30:05 AM**      **Rack 3, Tube 29****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1835                   | -0.0269u | 0.1767   |
| Al 308.215 | 119.194                  | 117.967  | 116.820  |
| As 188.980 | -3.8252u                 | -5.0587u | -0.5721u |
| B 249.678  | 8.7674                   | 8.9480   | 8.7346   |
| Ba 389.178 | 9.2171                   | 9.9107   | 10.5880  |
| Be 313.042 | 0.0038                   | 0.0072   | 0.0012   |
| Ca 370.602 | 3979                     | 3968     | 3948     |
| Cd 226.502 | 12.9947                  | 12.8887  | 13.0775  |
| Co 228.615 | 1.1558                   | 1.5620   | 1.5653   |
| Cr 267.716 | 0.5301                   | 0.4069   | 0.2235   |
| Cu 324.754 | 1.7876                   | 2.5215   | 1.5514   |
| Fe 271.441 | 625.719                  | 626.971  | 629.799  |
| K 766.491  | 3120.43                  | 3119.16  | 3136.57  |
| Mg 279.078 | 498.689                  | 501.566  | 497.710  |
| Mn 257.610 | 19.2608                  | 19.3459  | 19.2956  |
| Mo 202.032 | 0.0413                   | 1.0877   | -0.3544u |
| Na 330.237 | 1240.04                  | 1274.90  | 1262.16  |
| Ni 231.604 | 27.0657                  | 27.0737  | 25.8545  |
| Pb 220.353 | -1.9845u                 | 0.3191   | -2.5286u |
| Sb 206.834 | 3.1224                   | 4.0936   | 6.2593   |
| Se 196.026 | -8.0782u                 | -1.3992u | 0.1046   |
| Sn 189.925 | -0.7918u                 | 1.0226   | 0.0362   |
| Sr 216.596 | 15.0189                  | 14.7830  | 14.6715  |
| Ti 334.941 | 1.5059                   | 1.4873   | 1.5540   |
| Tl 190.794 | 1.6889                   | 2.2982   | 4.1138   |
| V 292.401  | 1.0337                   | 0.4288   | 0.6929   |
| Zn 206.200 | 22.4121                  | 20.6117  | 20.5340  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1111      | ppb   | 0.1196  | 107.6  | -38.0600   |
| Al 308.215 | 117.994     | ppb   | 1.1873  | 1.0    | 879.603    |
| As 188.980 | -3.1520     | ppb   | 2.3178  | 73.5   | -5.9120    |
| B 249.678  | 8.8167      | ppb   | 0.1149  | 1.3    | 223.483    |
| Ba 389.178 | 9.9053      | ppb   | 0.6855  | 6.9    | 171.607    |
| Be 313.042 | 0.0040      | ppb   | 0.0030  | 74.6   | -238.177   |
| Ca 370.602 | 3965        | ppb   | 15.76   | 0.4    | 7946       |
| Cd 226.502 | 12.9870     | ppb   | 0.0947  | 0.7    | 449.717    |
| Co 228.615 | 1.4277      | ppb   | 0.2354  | 16.5   | 19.6800    |
| Cr 267.716 | 0.3868      | ppb   | 0.1543  | 39.9   | 23.9004    |
| Cu 324.754 | 1.9535      | ppb   | 0.5059  | 25.9   | 259.881    |
| Fe 271.441 | 627.496     | ppb   | 2.0900  | 0.3    | 979.205    |
| K 766.491  | 3125.39     | ppb   | 9.7078  | 0.3    | 101679     |
| Mg 279.078 | 499.322     | ppb   | 2.0040  | 0.4    | 1083.97    |
| Mn 257.610 | 19.3008     | ppb   | 0.0428  | 0.2    | 4239.62    |
| Mo 202.032 | 0.2582      | ppb   | 0.7451  | 288.5  | 10.6702    |
| Na 330.237 | 1259.03     | ppb   | 17.6408 | 1.4    | 104.191    |
| Ni 231.604 | 26.6646     | ppb   | 0.7016  | 2.6    | 67.2326    |
| Pb 220.353 | -1.3980     | ppb   | 1.5117  | 108.1  | 21.0155    |
| Sb 206.834 | 4.4917      | ppb   | 1.6059  | 35.8   | -0.5930    |
| Se 196.026 | -3.1243     | ppb   | 4.3556  | 139.4  | 5.7163     |
| Sn 189.925 | 0.0890      | ppb   | 0.9084  | 1020.6 | -12.7746   |
| Sr 216.596 | 14.8245     | ppb   | 0.1774  | 1.2    | 172.299    |
| Ti 334.941 | 1.5157      | ppb   | 0.0344  | 2.3    | 326.037    |
| Tl 190.794 | 2.7003      | ppb   | 1.2615  | 46.7   | -11.6834   |
| V 292.401  | 0.7185      | ppb   | 0.3032  | 42.2   | 1.5046     |
| Zn 206.200 | 21.1859     | ppb   | 1.0626  | 5.0    | 32.8245    |

680-90691-a-6-a (Samp) 5/29/2013, 1:34:41 AM Rack 3, Tube 30

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0159                   | 0.3635   | 0.1947   |
| Al 308.215 | 183.748                  | 184.038  | 183.647  |
| As 188.980 | 2.2897                   | -4.9845u | -4.5290u |
| B 249.678  | 9.5013                   | 9.5377   | 8.7197   |
| Ba 389.178 | 11.3740                  | 10.9090  | 9.9303   |
| Be 313.042 | 0.0009                   | -0.0022u | 0.0019   |
| Ca 370.602 | 5440                     | 5455     | 5470     |
| Cd 226.502 | 10.3788                  | 10.5729  | 10.5263  |
| Co 228.615 | 1.0616                   | 0.7148   | 0.1222   |
| Cr 267.716 | 0.3729                   | 0.2209   | 0.1291   |
| Cu 324.754 | 1.1661                   | 1.6745   | 1.1944   |
| Fe 271.441 | 461.983                  | 455.094  | 452.209  |
| K 766.491  | 3843.30                  | 3839.71  | 3819.66  |
| Mg 279.078 | 756.519                  | 758.030  | 758.584  |
| Mn 257.610 | 6.9371                   | 6.9499   | 6.9538   |
| Mo 202.032 | 0.2011                   | 0.1330   | 0.3864   |
| Na 330.237 | 1932.65                  | 1794.36  | 1840.62  |
| Ni 231.604 | 25.6113                  | 25.7782  | 26.6746  |
| Pb 220.353 | -1.2917u                 | 0.9298   | -5.4263u |
| Sb 206.834 | 6.3147                   | -0.7997u | -0.2176u |
| Se 196.026 | -13.1911u                | 5.6222   | -0.8115u |
| Sn 189.925 | -1.6135u                 | -0.1863u | -1.1947u |
| Sr 216.596 | 19.7876                  | 19.2636  | 20.3602  |
| Ti 334.941 | 4.5075                   | 4.4884   | 4.6602   |
| Tl 190.794 | 5.7483                   | 2.2474   | 7.5134   |
| V 292.401  | 0.7232                   | 0.5041   | 0.6739   |
| Zn 206.200 | 18.0206                  | 15.8480  | 16.0453  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1914      | ppb   | 0.1738  | 90.8  | -32.6737   |
| Al 308.215 | 183.811     | ppb   | 0.2032  | 0.1   | 1267.96    |
| As 188.980 | -2.4079     | ppb   | 4.0746  | 169.2 | -5.4705    |
| B 249.678  | 9.2529      | ppb   | 0.4621  | 5.0   | 229.666    |
| Ba 389.178 | 10.7378     | ppb   | 0.7369  | 6.9   | 187.097    |
| Be 313.042 | 0.0002      | ppb   | 0.0021  | 955.5 | -244.514   |
| Ca 370.602 | 5455        | ppb   | 15.32   | 0.3   | 10957      |
| Cd 226.502 | 10.4927     | ppb   | 0.1013  | 1.0   | 366.821    |
| Co 228.615 | 0.6329      | ppb   | 0.4750  | 75.1  | 10.8037    |
| Cr 267.716 | 0.2410      | ppb   | 0.1232  | 51.1  | 17.2494    |
| Cu 324.754 | 1.3450      | ppb   | 0.2857  | 21.2  | 227.363    |
| Fe 271.441 | 456.429     | ppb   | 5.0220  | 1.1   | 717.632    |
| K 766.491  | 3834.22     | ppb   | 12.7406 | 0.3   | 124673     |
| Mg 279.078 | 757.711     | ppb   | 1.0686  | 0.1   | 1628.14    |
| Mn 257.610 | 6.9470      | ppb   | 0.0087  | 0.1   | 1549.72    |
| Mo 202.032 | 0.2402      | ppb   | 0.1311  | 54.6  | 10.5600    |
| Na 330.237 | 1855.88     | ppb   | 70.3976 | 3.8   | 132.137    |
| Ni 231.604 | 26.0214     | ppb   | 0.5718  | 2.2   | 65.5619    |
| Pb 220.353 | -1.9294     | ppb   | 3.2257  | 167.2 | 20.2105    |
| Sb 206.834 | 1.7658      | ppb   | 3.9502  | 223.7 | -3.2096    |
| Se 196.026 | -2.7935     | ppb   | 9.5620  | 342.3 | 5.8682     |
| Sn 189.925 | -0.9982     | ppb   | 0.7336  | 73.5  | -13.6578   |
| Sr 216.596 | 19.8038     | ppb   | 0.5485  | 2.8   | 223.885    |
| Ti 334.941 | 4.5521      | ppb   | 0.0942  | 2.1   | 1089.01    |
| Tl 190.794 | 5.1697      | ppb   | 2.6803  | 51.8  | -9.6613    |
| V 292.401  | 0.6338      | ppb   | 0.1149  | 18.1  | -0.4483    |
| Zn 206.200 | 16.6380     | ppb   | 1.2915  | 7.8   | 269085     |

680-90691-a-7-a (Samp) 5/29/2013, 1:39:18 AM Rack 3, Tube 31

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.3754                   | 0.0935   | 0.1133   |
| Al 308.215 | 73.1653                  | 70.4019  | 74.1035  |
| As 188.980 | 1.2938                   | -5.0923u | -1.4293u |
| B 249.678  | 9.7080                   | 9.7971   | 9.9682   |
| Ba 389.178 | 11.8780                  | 12.1415  | 11.2731  |
| Be 313.042 | 0.0020                   | -0.0014u | 0.0082   |
| Ca 370.602 | 4682                     | 4596     | 4678     |
| Cd 226.502 | 4.7069                   | 4.5934   | 4.5141   |
| Co 228.615 | 0.7970                   | 1.8512   | 1.8173   |
| Cr 267.716 | -0.0937u                 | 0.2359   | 0.1045   |
| Cu 324.754 | 3.6056                   | 2.8731   | 3.4974   |
| Fe 271.441 | 370.176                  | 367.168  | 373.200  |
| K 766.491  | 5847.58                  | 5792.94  | 5836.95  |
| Mg 279.078 | 794.548                  | 781.698  | 791.557  |
| Mn 257.610 | 20.7002                  | 20.4872  | 20.7253  |
| Mo 202.032 | 0.1463                   | -0.4412u | -0.1877u |
| Na 330.237 | 2710.10                  | 2834.84  | 2696.51  |
| Ni 231.604 | 25.5491                  | 26.8964  | 27.4464  |
| Pb 220.353 | 0.0833                   | -2.0775u | -3.8698u |
| Sb 206.834 | -1.9591u                 | 1.0425   | -3.9148u |
| Se 196.026 | -4.5040u                 | 6.4790   | 1.0326   |
| Sn 189.925 | 2.4745                   | -2.7160u | -0.2490u |
| Sr 216.596 | 20.5445                  | 20.9291  | 20.8934  |
| Ti 334.941 | 1.3062                   | 1.2426   | 1.2227   |
| Tl 190.794 | 1.2608                   | 2.3262   | 8.5558   |
| V 292.401  | 0.1667                   | 0.2136   | 0.4970   |
| Zn 206.200 | 17.8140                  | 16.3443  | 17.2979  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1941      | ppb   | 0.1573  | 81.1   | -32.4749   |
| Al 308.215 | 72.5569     | ppb   | 1.9243  | 2.7    | 611.581    |
| As 188.980 | -1.7426     | ppb   | 3.2045  | 183.9  | -5.0777    |
| B 249.678  | 9.8244      | ppb   | 0.1322  | 1.3    | 237.516    |
| Ba 389.178 | 11.7642     | ppb   | 0.4453  | 3.8    | 205.739    |
| Be 313.042 | 0.0029      | ppb   | 0.0049  | 168.1  | -240.143   |
| Ca 370.602 | 4652        | ppb   | 48.48   | 1.0    | 9343       |
| Cd 226.502 | 4.6048      | ppb   | 0.0969  | 2.1    | 171.946    |
| Co 228.615 | 1.4885      | ppb   | 0.5991  | 40.2   | 20.3613    |
| Cr 267.716 | 0.0822      | ppb   | 0.1659  | 201.8  | 10.1641    |
| Cu 324.754 | 3.3254      | ppb   | 0.3954  | 11.9   | 332.981    |
| Fe 271.441 | 370.181     | ppb   | 3.0162  | 0.8    | 585.897    |
| K 766.491  | 5825.82     | ppb   | 28.9700 | 0.5    | 189277     |
| Mg 279.078 | 789.267     | ppb   | 6.7241  | 0.9    | 1694.38    |
| Mn 257.610 | 20.6376     | ppb   | 0.1308  | 0.6    | 4532.38    |
| Mo 202.032 | -0.1609     | ppb   | 0.2946  | 183.2  | 7.9389     |
| Na 330.237 | 2747.15     | ppb   | 76.2455 | 2.8    | 173.751    |
| Ni 231.604 | 26.6306     | ppb   | 0.9762  | 3.7    | 67.1389    |
| Pb 220.353 | -1.9547     | ppb   | 1.9794  | 101.3  | 20.1734    |
| Sb 206.834 | -1.6105     | ppb   | 2.4970  | 155.0  | -6.4422    |
| Se 196.026 | 1.0026      | ppb   | 5.4916  | 547.8  | 7.6540     |
| Sn 189.925 | -0.1635     | ppb   | 2.5963  | 1588.1 | -12.9791   |
| Sr 216.596 | 20.7890     | ppb   | 0.2125  | 1.0    | 233.931    |
| Ti 334.941 | 1.2572      | ppb   | 0.0437  | 3.5    | 262.189    |
| Tl 190.794 | 4.0476      | ppb   | 3.9404  | 97.4   | -10.5732   |
| V 292.401  | 0.2924      | ppb   | 0.1787  | 61.1   | -8.4983    |
| Zn 206.200 | 17.1521     | ppb   | 0.7457  | 4.3    | 513.5768   |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90691-a-8-a (Samp)**      **5/29/2013, 1:43:55 AM**      **Rack 3, Tube 32****Weight: 1****Volume: 1****Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |          |          |
|--------------|---------------------------------|----------|----------|
| Ag 328.068   | 0.2678                          | 0.1517   | -0.0703u |
| Al 308.215   | 108.391                         | 109.596  | 108.835  |
| As 188.980   | -0.1114u                        | -1.5770u | 3.3499   |
| B 249.678    | 7.0662                          | 7.2920   | 7.0889   |
| Ba 389.178   | 14.3752                         | 14.7340  | 14.4729  |
| Be 313.042   | 0.0006                          | -0.0016u | -0.0009  |
| Ca 370.602   | 9358                            | 9292     | 9303     |
| Cd 226.502   | 4.3277                          | 4.3715   | 4.0916   |
| Co 228.615   | 1.5899                          | 1.0965   | 1.0716   |
| Cr 267.716   | 0.6819                          | 0.8262   | 0.7428   |
| Cu 324.754   | 5.2339                          | 4.4245   | 4.8541   |
| Fe 271.441   | 266.772                         | 268.289  | 260.714  |
| K 766.491    | 6934.11                         | 6915.41  | 6964.88  |
| Mg 279.078   | 1337.28                         | 1330.09  | 1330.03  |
| Mn 257.610   | 21.9485                         | 21.7166  | 21.8135  |
| Mo 202.032   | -0.4362u                        | 0.6722   | 0.0035   |
| Na 330.237   | 4162.42                         | 4082.48  | 3900.80  |
| Ni 231.604   | 18.0846                         | 14.5830  | 17.1033  |
| Pb 220.353   | -1.5670u                        | -0.8096u | -0.4340u |
| Sb 206.834   | -4.2340u                        | 2.3309   | 0.8863   |
| Se 196.026   | 1.3894                          | 3.7292   | -5.8358u |
| Sn 189.925   | -4.1560u                        | 0.7900   | -0.1065u |
| Sr 216.596   | 38.5938                         | 38.5508  | 38.7784  |
| Ti 334.941   | 3.6890                          | 4.4696   | 3.8392   |
| Tl 190.794   | 3.2685                          | 5.2012   | 0.2880   |
| V 292.401    | 0.4819                          | 0.9269   | 0.6005   |
| Zn 206.200   | 14.0720                         | 13.7787  | 14.0874  |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | 0.1164             | ppb          | 0.1718    | 147.5       | -38.7132          |
| Al 308.215   | 108.941            | ppb          | 0.6096    | 0.6         | 826.197           |
| As 188.980   | 0.5538             | ppb          | 2.5299    | 456.8       | -3.7206           |
| B 249.678    | 7.1491             | ppb          | 0.1243    | 1.7         | 201.774           |
| Ba 389.178   | 14.5274            | ppb          | 0.1855    | 1.3         | 257.039           |
| Be 313.042   | -0.0006            | ppb          | 0.0011    | 180.2       | -245.104          |
| Ca 370.602   | 9318               | ppb          | 35.64     | 0.4         | 18749             |
| Cd 226.502   | 4.2636             | ppb          | 0.1505    | 3.5         | 160.412           |
| Co 228.615   | 1.2527             | ppb          | 0.2923    | 23.3        | 17.7641           |
| Cr 267.716   | 0.7503             | ppb          | 0.0725    | 9.7         | 40.4133           |
| Cu 324.754   | 4.8375             | ppb          | 0.4049    | 8.4         | 413.627           |
| Fe 271.441   | 265.259            | ppb          | 4.0078    | 1.5         | 425.499           |
| K 766.491    | 6938.14            | ppb          | 24.9803   | 0.4         | 225359            |
| Mg 279.078   | 1332.47            | ppb          | 4.1731    | 0.3         | 2837.99           |
| Mn 257.610   | 21.8262            | ppb          | 0.1165    | 0.5         | 4795.31           |
| Mo 202.032   | 0.0798             | ppb          | 0.5581    | 699.1       | 9.5187            |
| Na 330.237   | 4048.56            | ppb          | 134.068   | 3.3         | 234.537           |
| Ni 231.604   | 16.5903            | ppb          | 1.8063    | 10.9        | 41.0880           |
| Pb 220.353   | -0.9369            | ppb          | 0.5771    | 61.6        | 21.6775           |
| Sb 206.834   | -0.3389            | ppb          | 3.4497    | 1017.9      | -5.2242           |
| Se 196.026   | -0.2391            | ppb          | 4.9861    | 2085.6      | 7.0708            |
| Sn 189.925   | -1.1575            | ppb          | 2.6352    | 227.7       | -13.7850          |
| Sr 216.596   | 38.6410            | ppb          | 0.1209    | 0.3         | 419.362           |
| Ti 334.941   | 3.9993             | ppb          | 0.4141    | 10.4        | 952.433           |
| Tl 190.794   | 2.9192             | ppb          | 2.4751    | 84.8        | -11.4875          |
| V 292.401    | 0.6697             | ppb          | 0.2304    | 34.4        | 0.3855            |
| Zn 206.200   | 13.9794            | ppb          | 0.1739    | 250.2       | 53.4474           |

**680-90691-a-9-a (Samp)                      5/29/2013, 1:48:31 AM                      Rack 3, Tube 33**  
**Weight: 1    Volume: 1    Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2832                   | 0.3892   | 0.1620   |
| Al 308.215 | 659.846                  | 651.126  | 643.530  |
| As 188.980 | 1.5289                   | 3.4379   | -1.6610u |
| B 249.678  | 14.9647                  | 14.9320  | 14.6515  |
| Ba 389.178 | 22.7163                  | 21.5166  | 22.1540  |
| Be 313.042 | 0.0385                   | 0.0465   | 0.0398   |
| Ca 370.602 | 3335                     | 3308     | 3268     |
| Cd 226.502 | 0.0707                   | 0.1363   | 0.1501   |
| Co 228.615 | 0.9843                   | 1.3268   | 0.3418   |
| Cr 267.716 | 1.1427                   | 0.9331   | 0.7375   |
| Cu 324.754 | 1.4038                   | 0.4133   | 0.7056   |
| Fe 271.441 | 1505.56                  | 1491.83  | 1476.82  |
| K 766.491  | 245.411                  | 244.174  | 241.901  |
| Mg 279.078 | 1420.81                  | 1411.20  | 1398.77  |
| Mn 257.610 | 50.5595                  | 50.2535  | 49.9010  |
| Mo 202.032 | -0.2193u                 | 0.4137   | 0.4332   |
| Na 330.237 | 3890.78                  | 3946.81  | 3834.64  |
| Ni 231.604 | 3.5658                   | 1.4408   | 1.4723   |
| Pb 220.353 | 0.8668                   | 0.9149   | 0.4852   |
| Sb 206.834 | -4.8696u                 | 7.1007   | 2.9135   |
| Se 196.026 | 5.7659                   | -6.4710u | 4.8194   |
| Sn 189.925 | -2.1568u                 | 0.3945   | -1.9969u |
| Sr 216.596 | 18.5634                  | 17.9266  | 17.7442  |
| Ti 334.941 | 2.6067                   | 2.4573   | 2.4409   |
| Tl 190.794 | 1.6215                   | -0.6397u | 1.6108   |
| V 292.401  | 1.2458                   | 1.2660   | 1.2864   |
| Zn 206.200 | 6.0323                   | 5.5995   | 4.8153   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.2781      | ppb   | 0.1137  | 40.9  | -26.2940   |
| Al 308.215 | 651.501     | ppb   | 8.1640  | 1.3   | 4027.13    |
| As 188.980 | 1.1019      | ppb   | 2.5761  | 233.8 | -3.4034    |
| B 249.678  | 14.8494     | ppb   | 0.1721  | 1.2   | 302.888    |
| Ba 389.178 | 22.1290     | ppb   | 0.6002  | 2.7   | 396.930    |
| Be 313.042 | 0.0416      | ppb   | 0.0043  | 10.4  | -172.272   |
| Ca 370.602 | 3304        | ppb   | 33.90   | 1.0   | 6570       |
| Cd 226.502 | 0.1191      | ppb   | 0.0424  | 35.6  | 26.5288    |
| Co 228.615 | 0.8843      | ppb   | 0.5001  | 56.5  | 13.6220    |
| Cr 267.716 | 0.9378      | ppb   | 0.2026  | 21.6  | 49.3194    |
| Cu 324.754 | 0.8409      | ppb   | 0.5089  | 60.5  | 200.787    |
| Fe 271.441 | 1491.40     | ppb   | 14.3709 | 1.0   | 2299.64    |
| K 766.491  | 243.829     | ppb   | 1.7803  | 0.7   | 8205.72    |
| Mg 279.078 | 1410.26     | ppb   | 11.0522 | 0.8   | 3001.39    |
| Mn 257.610 | 50.2380     | ppb   | 0.3295  | 0.7   | 10988.9    |
| Mo 202.032 | 0.2092      | ppb   | 0.3712  | 177.4 | 10.3094    |
| Na 330.237 | 3890.75     | ppb   | 56.0846 | 1.4   | 226.959    |
| Ni 231.604 | 2.1596      | ppb   | 1.2178  | 56.4  | 3.6741     |
| Pb 220.353 | 0.7556      | ppb   | 0.2354  | 31.2  | 24.2674    |
| Sb 206.834 | 1.7149      | ppb   | 6.0745  | 354.2 | -3.2293    |
| Se 196.026 | 1.3714      | ppb   | 6.8082  | 496.4 | 7.8378     |
| Sn 189.925 | -1.2530     | ppb   | 1.4291  | 114.0 | -13.8653   |
| Sr 216.596 | 18.0781     | ppb   | 0.4300  | 2.4   | 207.075    |
| Ti 334.941 | 2.5016      | ppb   | 0.0913  | 3.7   | 577.065    |
| Tl 190.794 | 0.8642      | ppb   | 1.3025  | 150.7 | -13.2360   |
| V 292.401  | 1.2661      | ppb   | 0.0203  | 1.6   | 14.4286    |
| Zn 206.200 | 5.4824      | ppb   | 0.6169  | 11.3  | 512.4067   |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90691-a-10-a (Samp) 5/29/2013, 1:53:08 AM Rack 3, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.4183                   | -0.0402u | -0.0655u |
| Al 308.215 | 646.517                  | 640.188  | 641.119  |
| As 188.980 | 2.1622                   | -0.4381u | -4.4539u |
| B 249.678  | 13.9424                  | 14.4625  | 14.3782  |
| Ba 389.178 | 23.1340                  | 21.5839  | 22.3720  |
| Be 313.042 | 0.0328                   | 0.0395   | 0.0300   |
| Ca 370.602 | 3264                     | 3239     | 3236     |
| Cd 226.502 | -0.0147                  | 0.0958   | 0.1821   |
| Co 228.615 | 0.4129                   | 0.6605   | 1.2330   |
| Cr 267.716 | 1.1452                   | 0.9838   | 0.7487   |
| Cu 324.754 | 0.7973                   | 0.5351   | 0.5442   |
| Fe 271.441 | 1465.74                  | 1457.66  | 1445.77  |
| K 766.491  | 251.773                  | 249.451  | 250.288  |
| Mg 279.078 | 1405.63                  | 1390.89  | 1392.49  |
| Mn 257.610 | 51.1384                  | 50.8137  | 50.6952  |
| Mo 202.032 | -0.0601u                 | 0.1993   | -0.1995u |
| Na 330.237 | 3744.81                  | 3621.05  | 3834.50  |
| Ni 231.604 | 0.2942                   | 1.9977   | 2.0028   |
| Pb 220.353 | -1.3867u                 | -0.5862u | -3.2271u |
| Sb 206.834 | 1.7185                   | -0.8374u | 2.0059   |
| Se 196.026 | -1.0232u                 | 7.0406   | 1.6775   |
| Sn 189.925 | -0.3117u                 | -2.1624u | 0.1917   |
| Sr 216.596 | 17.9248                  | 18.3501  | 18.0400  |
| Ti 334.941 | 2.3193                   | 2.3756   | 2.2608   |
| Tl 190.794 | 0.4211                   | 7.4571   | 2.7399   |
| V 292.401  | 1.4618                   | 1.3768   | 1.2558   |
| Zn 206.200 | 7.0059                   | 5.4609   | 7.2744   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1042      | ppb   | 0.2723  | 261.3  | -38.5691   |
| Al 308.215 | 642.608     | ppb   | 3.4171  | 0.5    | 3974.64    |
| As 188.980 | -0.9099     | ppb   | 3.3332  | 366.3  | -4.5910    |
| B 249.678  | 14.2610     | ppb   | 0.2791  | 2.0    | 295.052    |
| Ba 389.178 | 22.3633     | ppb   | 0.7751  | 3.5    | 401.123    |
| Be 313.042 | 0.0341      | ppb   | 0.0049  | 14.3   | -185.558   |
| Ca 370.602 | 3246        | ppb   | 15.55   | 0.5    | 6457       |
| Cd 226.502 | 0.0877      | ppb   | 0.0987  | 112.5  | 25.4020    |
| Co 228.615 | 0.7688      | ppb   | 0.4207  | 54.7   | 12.3240    |
| Cr 267.716 | 0.9592      | ppb   | 0.1994  | 20.8   | 50.2826    |
| Cu 324.754 | 0.6255      | ppb   | 0.1488  | 23.8   | 189.279    |
| Fe 271.441 | 1456.39     | ppb   | 10.0458 | 0.7    | 2246.11    |
| K 766.491  | 250.504     | ppb   | 1.1757  | 0.5    | 8422.25    |
| Mg 279.078 | 1396.34     | ppb   | 8.0862  | 0.6    | 2972.06    |
| Mn 257.610 | 50.8824     | ppb   | 0.2294  | 0.5    | 11129.1    |
| Mo 202.032 | -0.0201     | ppb   | 0.2024  | 1006.3 | 8.8092     |
| Na 330.237 | 3733.46     | ppb   | 107.179 | 2.9    | 219.616    |
| Ni 231.604 | 1.4316      | ppb   | 0.9850  | 68.8   | 1.7847     |
| Pb 220.353 | -1.7333     | ppb   | 1.3541  | 78.1   | 20.5674    |
| Sb 206.834 | 0.9624      | ppb   | 1.5652  | 162.6  | -3.9479    |
| Se 196.026 | 2.5650      | ppb   | 4.1045  | 160.0  | 8.3984     |
| Sn 189.925 | -0.7608     | ppb   | 1.2396  | 162.9  | -13.4651   |
| Sr 216.596 | 18.1050     | ppb   | 0.2200  | 1.2    | 207.330    |
| Ti 334.941 | 2.3186      | ppb   | 0.0574  | 2.5    | 531.068    |
| Tl 190.794 | 3.5394      | ppb   | 3.5855  | 101.3  | -11.0568   |
| V 292.401  | 1.3648      | ppb   | 0.1035  | 7.6    | 16.7919    |
| Zn 206.200 | 6.5804      | ppb   | 0.9788  | 14.9   | 13.8345    |

680-90656-d-1-a (Samp) 5/29/2013, 1:57:44 AM Rack 3, Tube 35  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0325u                  | 0.0455u  | -0.1571u |
| Al 308.215 | 60.0763                  | 57.8863  | 58.2007  |
| As 188.980 | -3.0812u                 | 3.6501   | -3.4820u |
| B 249.678  | 2665.69                  | 2669.69  | 2676.51  |
| Ba 389.178 | 12.6508                  | 12.9964  | 12.9618  |
| Be 313.042 | -0.0073u                 | -0.0124u | -0.0068u |
| Ca 370.602 | 116424                   | 116214   | 116244   |
| Cd 226.502 | 0.1252                   | 0.0732   | 0.0813   |
| Co 228.615 | 0.1758                   | -0.2876u | 0.4666   |
| Cr 267.716 | 1.3514                   | 1.2129   | 1.3759   |
| Cu 324.754 | 96.9799                  | 96.3748  | 96.4343  |
| Fe 271.441 | 306.786                  | 309.568  | 309.395  |
| K 766.491  | 6130.84                  | 6096.86  | 6080.84  |
| Mg 279.078 | 11298.5                  | 11295.6  | 11296.7  |
| Mn 257.610 | 28.0015                  | 27.9768  | 28.0607  |
| Mo 202.032 | 2.8635                   | 2.7276   | 2.2261   |
| Na 330.237 | 390286x                  | 391017x  | 388592x  |
| Ni 231.604 | 2762.98                  | 2782.63  | 2783.58  |
| Pb 220.353 | -2.4553u                 | 2.5663   | 0.4574   |
| Sb 206.834 | 5.9001                   | 9.5444   | 7.0484   |
| Se 196.026 | -3.6924u                 | -2.9947u | -4.3041u |
| Sn 189.925 | 7.9781                   | 9.1574   | 10.7328  |
| Sr 216.596 | 373.721                  | 372.400  | 373.902  |
| Ti 334.941 | 2.5072                   | 2.4636   | 2.5535   |
| Tl 190.794 | -2.3107u                 | 1.5640   | -2.7205u |
| V 292.401  | 0.0876u                  | 0.0881u  | 0.2159   |
| Zn 206.200 | 69.6408                  | 66.6509  | 67.8400  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0264b    | ppb   | 0.1134  | 429.9  | -62.8790   |
| Al 308.215 | 58.7211b    | ppb   | 1.1841  | 2.0    | 530.190    |
| As 188.980 | -0.9710b    | ppb   | 4.0070  | 412.6  | -4.6224    |
| B 249.678  | 2670.63b    | ppb   | 5.4695  | 0.2    | 35975.3    |
| Ba 389.178 | 12.8697b    | ppb   | 0.1903  | 1.5    | 247.321    |
| Be 313.042 | -0.0088b    | ppb   | 0.0031  | 35.0   | -266.366   |
| Ca 370.602 | 116294b     | ppb   | 113.4   | 0.1    | 234264     |
| Cd 226.502 | 0.0932b     | ppb   | 0.0280  | 30.0   | 20.8666    |
| Co 228.615 | 0.1183b     | ppb   | 0.3804  | 321.5  | 4.9026     |
| Cr 267.716 | 1.3134b     | ppb   | 0.0879  | 6.7    | 72.3954    |
| Cu 324.754 | 96.5963b    | ppb   | 0.3335  | 0.3    | 5309.20    |
| Fe 271.441 | 308.583b    | ppb   | 1.5585  | 0.5    | 491.589    |
| K 766.491  | 6102.85b    | ppb   | 25.5335 | 0.4    | 198263     |
| Mg 279.078 | 11296.9b    | ppb   | 1.4414  | 0.0    | 23817.3    |
| Mn 257.610 | 28.0130b    | ppb   | 0.0431  | 0.2    | 6218.98    |
| Mo 202.032 | 2.6057b     | ppb   | 0.3357  | 12.9   | 26.0563    |
| Na 330.237 | 389965xb    | ppb   | 1243.78 | 0.3    | 18240.7    |
| Ni 231.604 | 2776.39b    | ppb   | 11.6305 | 0.4    | 7201.34    |
| Pb 220.353 | 0.1895b     | ppb   | 2.5215  | 1330.8 | 23.3538    |
| Sb 206.834 | 7.4976b     | ppb   | 1.8632  | 24.9   | 2.2613     |
| Se 196.026 | -3.6637b    | ppb   | 0.6551  | 17.9   | 5.4641     |
| Sn 189.925 | 9.2894b     | ppb   | 1.3821  | 14.9   | -5.1125    |
| Sr 216.596 | 373.341b    | ppb   | 0.8196  | 0.2    | 3851.44    |
| Ti 334.941 | 2.5081b     | ppb   | 0.0450  | 1.8    | 591.718    |
| Tl 190.794 | -1.1557b    | ppb   | 2.3643  | 204.6  | -14.8133   |
| V 292.401  | 0.1306b     | ppb   | 0.0739  | 56.6   | -15.2760   |
| Zn 206.200 | 68.0439b    | ppb   | 1.5953  | 2.3    | 5137606    |

680-90656-d-1-b ms (Samp) 5/29/2013, 2:02:21 AM Rack 3, Tube 36

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 52.4225                  | 52.2072 | 52.8367 |
| Al 308.215 | 5367.91                  | 5363.76 | 5402.76 |
| As 188.980 | 119.172                  | 113.556 | 115.068 |
| B 249.678  | 2999.00                  | 3009.23 | 3029.35 |
| Ba 389.178 | 112.124                  | 111.523 | 112.429 |
| Be 313.042 | 51.8115                  | 51.8102 | 52.0306 |
| Ca 370.602 | 124058                   | 124151  | 125663  |
| Cd 226.502 | 50.3508                  | 50.7853 | 50.5214 |
| Co 228.615 | 51.1236                  | 51.1062 | 51.1838 |
| Cr 267.716 | 102.397                  | 102.575 | 103.303 |
| Cu 324.754 | 205.544                  | 203.510 | 205.508 |
| Fe 271.441 | 5221.21                  | 5224.58 | 5248.35 |
| K 766.491  | 13936.3                  | 13929.1 | 14011.2 |
| Mg 279.078 | 16715.0                  | 16723.6 | 16778.6 |
| Mn 257.610 | 545.154                  | 544.915 | 548.667 |
| Mo 202.032 | 104.482                  | 104.851 | 105.585 |
| Na 330.237 | 410144x                  | 408193x | 409536x |
| Ni 231.604 | 2949.53                  | 2972.53 | 2964.85 |
| Pb 220.353 | 51.5855                  | 55.7056 | 51.5635 |
| Sb 206.834 | 54.5766                  | 60.7135 | 62.3403 |
| Se 196.026 | 104.190                  | 123.377 | 112.260 |
| Sn 189.925 | 207.565                  | 208.448 | 209.839 |
| Sr 216.596 | 483.549                  | 484.837 | 486.123 |
| Ti 334.941 | 100.635                  | 100.601 | 101.364 |
| Tl 190.794 | 39.6931                  | 36.2828 | 37.0401 |
| V 292.401  | 101.327                  | 100.855 | 101.638 |
| Zn 206.200 | 172.250                  | 172.832 | 171.795 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 52.4888b    | ppb   | 0.3199  | 0.6  | 3642.43    |
| Al 308.215 | 5378.15b    | ppb   | 21.4195 | 0.4  | 31900.5    |
| As 188.980 | 115.932b    | ppb   | 2.9059  | 2.5  | 64.3787    |
| B 249.678  | 3012.53b    | ppb   | 15.4410 | 0.5  | 40558.2    |
| Ba 389.178 | 112.025b    | ppb   | 0.4609  | 0.4  | 2069.37    |
| Be 313.042 | 51.8841b    | ppb   | 0.1269  | 0.2  | 91322.7    |
| Ca 370.602 | 124624b     | ppb   | 901.0   | 0.7  | 250841     |
| Cd 226.502 | 50.5525b    | ppb   | 0.2189  | 0.4  | 1701.46    |
| Co 228.615 | 51.1378b    | ppb   | 0.0407  | 0.1  | 578.404    |
| Cr 267.716 | 102.758b    | ppb   | 0.4799  | 0.5  | 4666.67    |
| Cu 324.754 | 204.854b    | ppb   | 1.1638  | 0.6  | 11088.4    |
| Fe 271.441 | 5231.38b    | ppb   | 14.7913 | 0.3  | 8022.97    |
| K 766.491  | 13958.9b    | ppb   | 45.4981 | 0.3  | 453101     |
| Mg 279.078 | 16739.1b    | ppb   | 34.5024 | 0.2  | 35266.3    |
| Mn 257.610 | 546.245b    | ppb   | 2.1006  | 0.4  | 119177     |
| Mo 202.032 | 104.973b    | ppb   | 0.5611  | 0.5  | 695.907    |
| Na 330.237 | 409291xb    | ppb   | 998.585 | 0.2  | 19139.4    |
| Ni 231.604 | 2962.30b    | ppb   | 11.7108 | 0.4  | 7683.66    |
| Pb 220.353 | 52.9516b    | ppb   | 2.3851  | 4.5  | 101.897    |
| Sb 206.834 | 59.2101b    | ppb   | 4.0944  | 6.9  | 51.9602    |
| Se 196.026 | 113.276b    | ppb   | 9.6340  | 8.5  | 60.5231    |
| Sn 189.925 | 208.617b    | ppb   | 1.1463  | 0.5  | 156.985    |
| Sr 216.596 | 484.836b    | ppb   | 1.2871  | 0.3  | 5006.90    |
| Ti 334.941 | 100.867b    | ppb   | 0.4316  | 0.4  | 25296.6    |
| Tl 190.794 | 37.6720b    | ppb   | 1.7908  | 4.8  | 16.4677    |
| V 292.401  | 101.273b    | ppb   | 0.3943  | 0.4  | 2356.40    |
| Zn 206.200 | 172.292b    | ppb   | 0.5200  | 0.3  | 229.063    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90656-d-1-c msd (Samp) 5/29/2013, 2:16:12 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 53.0202                  | 52.9996 | 52.5894 |
| Al 308.215 | 5450.00                  | 5426.28 | 5430.30 |
| As 188.980 | 120.171                  | 113.817 | 114.107 |
| B 249.678  | 3003.16                  | 3003.78 | 3009.63 |
| Ba 389.178 | 113.894                  | 114.127 | 113.475 |
| Be 313.042 | 52.4996                  | 52.3413 | 52.3137 |
| Ca 370.602 | 125699                   | 125459  | 125502  |
| Cd 226.502 | 51.0173                  | 51.0867 | 50.8321 |
| Co 228.615 | 51.8565                  | 52.2318 | 52.0923 |
| Cr 267.716 | 104.039                  | 103.737 | 103.340 |
| Cu 324.754 | 207.535                  | 206.748 | 204.794 |
| Fe 271.441 | 5291.42                  | 5254.21 | 5255.24 |
| K 766.491  | 14142.0                  | 14075.9 | 14147.4 |
| Mg 279.078 | 16904.6                  | 16868.0 | 16852.6 |
| Mn 257.610 | 552.902                  | 551.507 | 551.013 |
| Mo 202.032 | 105.398                  | 104.692 | 104.605 |
| Na 330.237 | 413909x                  | 412716x | 408626x |
| Ni 231.604 | 2980.83                  | 2977.83 | 2979.50 |
| Pb 220.353 | 52.0884                  | 49.7481 | 52.0573 |
| Sb 206.834 | 61.8294                  | 60.8343 | 59.8800 |
| Se 196.026 | 111.660                  | 118.858 | 116.762 |
| Sn 189.925 | 214.183                  | 206.382 | 207.797 |
| Sr 216.596 | 489.586                  | 488.780 | 486.386 |
| Ti 334.941 | 102.033                  | 101.658 | 101.697 |
| Tl 190.794 | 40.6888                  | 38.4594 | 41.6331 |
| V 292.401  | 102.868                  | 102.421 | 102.184 |
| Zn 206.200 | 173.889                  | 177.913 | 177.798 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 52.8698b    | ppb   | 0.2430  | 0.5  | 3669.28    |
| Al 308.215 | 5435.53b    | ppb   | 12.6960 | 0.2  | 32238.8    |
| As 188.980 | 116.032b    | ppb   | 3.5872  | 3.1  | 64.4377    |
| B 249.678  | 3005.52b    | ppb   | 3.5711  | 0.1  | 40464.0    |
| Ba 389.178 | 113.832b    | ppb   | 0.3301  | 0.3  | 2102.54    |
| Be 313.042 | 52.3849b    | ppb   | 0.1003  | 0.2  | 92206.6    |
| Ca 370.602 | 125553b     | ppb   | 128.0   | 0.1  | 252711     |
| Cd 226.502 | 50.9787b    | ppb   | 0.1317  | 0.3  | 1715.64    |
| Co 228.615 | 52.0602b    | ppb   | 0.1897  | 0.4  | 588.801    |
| Cr 267.716 | 103.706b    | ppb   | 0.3505  | 0.3  | 4709.62    |
| Cu 324.754 | 206.359b    | ppb   | 1.4114  | 0.7  | 11168.7    |
| Fe 271.441 | 5266.96b    | ppb   | 21.1910 | 0.4  | 8077.47    |
| K 766.491  | 14121.8b    | ppb   | 39.8355 | 0.3  | 458385     |
| Mg 279.078 | 16875.0b    | ppb   | 26.6964 | 0.2  | 35552.5    |
| Mn 257.610 | 551.807b    | ppb   | 0.9798  | 0.2  | 120390     |
| Mo 202.032 | 104.898b    | ppb   | 0.4346  | 0.4  | 695.416    |
| Na 330.237 | 411750xb    | ppb   | 2770.67 | 0.7  | 19254.1    |
| Ni 231.604 | 2979.39b    | ppb   | 1.5073  | 0.1  | 7727.99    |
| Pb 220.353 | 51.2979b    | ppb   | 1.3423  | 2.6  | 99.4418    |
| Sb 206.834 | 60.8479b    | ppb   | 0.9748  | 1.6  | 53.5431    |
| Se 196.026 | 115.760b    | ppb   | 3.7022  | 3.2  | 61.6911    |
| Sn 189.925 | 209.454b    | ppb   | 4.1565  | 2.0  | 157.666    |
| Sr 216.596 | 488.250b    | ppb   | 1.6645  | 0.3  | 5042.10    |
| Ti 334.941 | 101.796b    | ppb   | 0.2063  | 0.2  | 25530.3    |
| Tl 190.794 | 40.2604b    | ppb   | 1.6296  | 4.0  | 18.5735    |
| V 292.401  | 102.491b    | ppb   | 0.3478  | 0.3  | 2385.13    |
| Zn 206.200 | 176.533b    | ppb   | 2.2908  | 1.3  | 234.577    |

mb 680-278151/1-a (Samp) 5/29/2013, 2:20:49 AM Rack 3, Tube 40  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2133                   | 0.3198   | 0.0558   |
| Al 308.215 | 7.3593                   | 5.2950   | 4.7127   |
| As 188.980 | -2.9424u                 | 0.0884   | -0.7599u |
| B 249.678  | 62.6122                  | 57.6034  | 55.9103  |
| Ba 389.178 | -0.3834u                 | -1.1357u | 0.7560   |
| Be 313.042 | -0.0015u                 | -0.0020u | -0.0032u |
| Ca 370.602 | 12.99                    | 13.88    | 6.558    |
| Cd 226.502 | 0.0549                   | 0.0598   | 0.1379   |
| Co 228.615 | 0.1139                   | 0.2849   | 0.4069   |
| Cr 267.716 | 0.0498                   | 0.1152   | 0.2693   |
| Cu 324.754 | 0.5765                   | 0.4247   | 0.3250   |
| Fe 271.441 | 4.7537                   | 7.1026   | 7.2438   |
| K 766.491  | -0.2770u                 | 0.5073   | -0.0712u |
| Mg 279.078 | 2.2781                   | 1.0146   | -0.7850u |
| Mn 257.610 | 0.0277                   | 0.0724   | 0.0687   |
| Mo 202.032 | 0.2182                   | 0.2971   | 0.4316   |
| Na 330.237 | -84.5807u                | 53.1140  | 47.8971  |
| Ni 231.604 | 1.3490                   | 3.2117   | 2.2799   |
| Pb 220.353 | -0.1232u                 | -1.8155u | -1.0773u |
| Sb 206.834 | 3.4494                   | 4.4286   | 1.9321   |
| Se 196.026 | 1.7060                   | -8.1645u | -0.6468u |
| Sn 189.925 | -0.4347u                 | 0.5427   | 0.2682   |
| Sr 216.596 | -0.2095u                 | -0.5742u | -0.8125u |
| Ti 334.941 | 0.0260                   | 0.1050   | 0.0340   |
| Tl 190.794 | -4.2914u                 | 1.0800   | 0.2301   |
| V 292.401  | -0.1473u                 | 0.4638   | 0.1057   |
| Zn 206.200 | -1.2163u                 | 0.0154   | 0.0836   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1963      | ppb   | 0.1328  | 67.7   | -31.4801   |
| Al 308.215 | 5.7890      | ppb   | 1.3907  | 24.0   | 217.763    |
| As 188.980 | -1.2046     | ppb   | 1.5636  | 129.8  | -4.7574    |
| B 249.678  | 58.7086     | ppb   | 3.4850  | 5.9    | 894.748    |
| Ba 389.178 | -0.2543     | ppb   | 0.9524  | 374.5  | -15.0344   |
| Be 313.042 | -0.0023     | ppb   | 0.0009  | 38.8   | -250.300   |
| Ca 370.602 | 11.14       | ppb   | 3.993   | 35.8   | 10.45      |
| Cd 226.502 | 0.0842      | ppb   | 0.0465  | 55.3   | 21.5927    |
| Co 228.615 | 0.2686      | ppb   | 0.1472  | 54.8   | 6.5868     |
| Cr 267.716 | 0.1448      | ppb   | 0.1127  | 77.8   | 12.8272    |
| Cu 324.754 | 0.4421      | ppb   | 0.1266  | 28.6   | 179.055    |
| Fe 271.441 | 6.3667      | ppb   | 1.3987  | 22.0   | 29.6623    |
| K 766.491  | 0.0530      | ppb   | 0.4066  | 766.5  | 297.997    |
| Mg 279.078 | 0.8359      | ppb   | 1.5393  | 184.1  | 34.6821    |
| Mn 257.610 | 0.0563      | ppb   | 0.0248  | 44.1   | 41.4731    |
| Mo 202.032 | 0.3156      | ppb   | 0.1079  | 34.2   | 11.0753    |
| Na 330.237 | 5.4768      | ppb   | 78.0357 | 1424.8 | 46.1626    |
| Ni 231.604 | 2.2802      | ppb   | 0.9313  | 40.8   | 3.9575     |
| Pb 220.353 | -1.0053     | ppb   | 0.8485  | 84.4   | 21.5588    |
| Sb 206.834 | 3.2700      | ppb   | 1.2578  | 38.5   | -1.7794    |
| Se 196.026 | -2.3684     | ppb   | 5.1555  | 217.7  | 6.0648     |
| Sn 189.925 | 0.1254      | ppb   | 0.5041  | 402.1  | -12.7471   |
| Sr 216.596 | -0.5321     | ppb   | 0.3037  | 57.1   | 12.7187    |
| Ti 334.941 | 0.0550      | ppb   | 0.0434  | 79.0   | -42.5240   |
| Tl 190.794 | -0.9938     | ppb   | 2.8873  | 290.5  | -14.6538   |
| V 292.401  | 0.1407      | ppb   | 0.3071  | 218.2  | -12.1615   |
| Zn 206.200 | -0.3725     | ppb   | 0.7316  | 196.4  | -4.7813    |

ics 680-278151/2-a (Samp) 5/29/2013, 2:25:26 AM Rack 3, Tube 41

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 53.2500                  | 52.8791 | 54.6730 |
| Al 308.215 | 5444.66                  | 5439.86 | 5452.84 |
| As 188.980 | 114.297                  | 114.284 | 115.892 |
| B 249.678  | 252.383                  | 252.254 | 252.563 |
| Ba 389.178 | 105.735                  | 105.786 | 106.511 |
| Be 313.042 | 57.4219                  | 57.3687 | 57.5875 |
| Ca 370.602 | 5239                     | 5241    | 5264    |
| Cd 226.502 | 55.4564                  | 55.5358 | 55.4992 |
| Co 228.615 | 56.2744                  | 55.5432 | 55.6690 |
| Cr 267.716 | 109.477                  | 109.419 | 110.038 |
| Cu 324.754 | 109.983                  | 109.788 | 110.168 |
| Fe 271.441 | 5379.93                  | 5361.30 | 5399.29 |
| K 766.491  | 5453.25                  | 5457.04 | 5465.06 |
| Mg 279.078 | 5559.04                  | 5552.38 | 5556.42 |
| Mn 257.610 | 566.416                  | 565.444 | 568.026 |
| Mo 202.032 | 110.018                  | 109.697 | 109.367 |
| Na 330.237 | 5368.88                  | 5392.01 | 5481.81 |
| Ni 231.604 | 108.873                  | 110.388 | 108.843 |
| Pb 220.353 | 55.0086                  | 54.7305 | 54.6984 |
| Sb 206.834 | 53.2200                  | 60.2778 | 56.8555 |
| Se 196.026 | 113.803                  | 114.203 | 119.568 |
| Sn 189.925 | 215.694                  | 218.118 | 210.403 |
| Sr 216.596 | 107.563                  | 107.088 | 107.452 |
| Ti 334.941 | 106.577                  | 106.619 | 107.130 |
| Tl 190.794 | 41.5525                  | 45.7130 | 45.1741 |
| V 292.401  | 108.765                  | 109.227 | 109.731 |
| Zn 206.200 | 111.580                  | 110.982 | 110.805 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 53.6007     | ppb   | 0.9470  | 1.8  | 3737.05    |
| Al 308.215 | 5445.78     | ppb   | 6.5623  | 0.1  | 32298.3    |
| As 188.980 | 114.824     | ppb   | 0.9246  | 0.8  | 63.7226    |
| B 249.678  | 252.400     | ppb   | 0.1551  | 0.1  | 3486.19    |
| Ba 389.178 | 106.011     | ppb   | 0.4338  | 0.4  | 1937.17    |
| Be 313.042 | 57.4594     | ppb   | 0.1141  | 0.2  | 101168     |
| Ca 370.602 | 5248        | ppb   | 13.66   | 0.3  | 10336      |
| Cd 226.502 | 55.4971     | ppb   | 0.0397  | 0.1  | 1867.17    |
| Co 228.615 | 55.8289     | ppb   | 0.3909  | 0.7  | 631.175    |
| Cr 267.716 | 109.645     | ppb   | 0.3419  | 0.3  | 4971.70    |
| Cu 324.754 | 109.979     | ppb   | 0.1903  | 0.2  | 6026.80    |
| Fe 271.441 | 5380.17     | ppb   | 18.9999 | 0.4  | 8251.02    |
| K 766.491  | 5458.45     | ppb   | 6.0284  | 0.1  | 177360     |
| Mg 279.078 | 5555.95     | ppb   | 3.3532  | 0.1  | 11720.8    |
| Mn 257.610 | 566.629     | ppb   | 1.3039  | 0.2  | 123533     |
| Mo 202.032 | 109.694     | ppb   | 0.3255  | 0.3  | 726.802    |
| Na 330.237 | 5414.23     | ppb   | 59.6570 | 1.1  | 295.225    |
| Ni 231.604 | 109.368     | ppb   | 0.8833  | 0.8  | 281.791    |
| Pb 220.353 | 54.8125     | ppb   | 0.1706  | 0.3  | 104.665    |
| Sb 206.834 | 56.7845     | ppb   | 3.5294  | 6.2  | 49.6828    |
| Se 196.026 | 115.858     | ppb   | 3.2194  | 2.8  | 61.7409    |
| Sn 189.925 | 214.738     | ppb   | 3.9450  | 1.8  | 161.773    |
| Sr 216.596 | 107.368     | ppb   | 0.2485  | 0.2  | 1132.26    |
| Ti 334.941 | 106.775     | ppb   | 0.3076  | 0.3  | 26762.3    |
| Tl 190.794 | 44.1465     | ppb   | 2.2626  | 5.1  | 21.7358    |
| V 292.401  | 109.241     | ppb   | 0.4832  | 0.4  | 2546.37    |
| Zn 206.200 | 111.122     | ppb   | 0.4959  | 0.4  | 519.487    |

640-43655-a-27-b (Samp) 5/29/2013, 2:30:03 AM Rack 3, Tube 42

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1585                   | 0.0968   | 0.6316   |
| Al 308.215 | 104.514                  | 100.958  | 103.864  |
| As 188.980 | -4.5471u                 | -4.5883u | -8.1840u |
| B 249.678  | 187.872                  | 187.618  | 187.374  |
| Ba 389.178 | 25.8527                  | 26.4326  | 26.8003  |
| Be 313.042 | 0.0110                   | 0.0093   | 0.0168   |
| Ca 370.602 | 20880                    | 20913    | 20908    |
| Cd 226.502 | -0.3194u                 | -0.1207u | -0.0855u |
| Co 228.615 | -0.0746u                 | 0.5827   | 0.8025   |
| Cr 267.716 | 0.7747                   | 0.9310   | 1.1019   |
| Cu 324.754 | 2.8279                   | 2.2817   | 2.7320   |
| Fe 271.441 | 472.311                  | 470.767  | 474.752  |
| K 766.491  | 13974.9                  | 13990.5  | 14029.9  |
| Mg 279.078 | 4127.79                  | 4125.59  | 4130.72  |
| Mn 257.610 | 87.2229                  | 87.2327  | 87.2296  |
| Mo 202.032 | 2.5425                   | 2.0013   | 2.1003   |
| Na 330.237 | 39152.4                  | 38875.3  | 39128.6  |
| Ni 231.604 | 4.6104                   | 3.9682   | 2.4712   |
| Pb 220.353 | -3.9276u                 | -3.3482u | -4.9364u |
| Sb 206.834 | 4.0121                   | -1.1710u | -1.6480u |
| Se 196.026 | 0.5108                   | -1.3125u | -2.7270u |
| Sn 189.925 | -0.9323u                 | 0.8944   | -1.4813u |
| Sr 216.596 | 76.1663                  | 76.8680  | 76.2394  |
| Ti 334.941 | 4.2726                   | 4.1582   | 4.3534   |
| Tl 190.794 | -2.2591u                 | -2.0772u | 3.2838   |
| V 292.401  | 4.7703                   | 4.5428   | 4.7552   |
| Zn 206.200 | 6.8222                   | 7.1303   | 7.1124   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.2956      | ppb   | 0.2926  | 99.0  | -27.3913   |
| Al 308.215 | 103.112     | ppb   | 1.8932  | 1.8   | 791.295    |
| As 188.980 | -5.7731     | ppb   | 2.0880  | 36.2  | -7.4588    |
| B 249.678  | 187.621     | ppb   | 0.2490  | 0.1   | 2625.34    |
| Ba 389.178 | 26.3619     | ppb   | 0.4777  | 1.8   | 478.413    |
| Be 313.042 | 0.0124      | ppb   | 0.0039  | 31.9  | -222.949   |
| Ca 370.602 | 20901       | ppb   | 18.14   | 0.1   | 42074      |
| Cd 226.502 | -0.1752     | ppb   | 0.1261  | 72.0  | 14.0762    |
| Co 228.615 | 0.4369      | ppb   | 0.4563  | 104.5 | 8.5505     |
| Cr 267.716 | 0.9359      | ppb   | 0.1636  | 17.5  | 49.7119    |
| Cu 324.754 | 2.6139      | ppb   | 0.2916  | 11.2  | 295.080    |
| Fe 271.441 | 472.610     | ppb   | 2.0095  | 0.4   | 742.374    |
| K 766.491  | 13998.4     | ppb   | 28.3759 | 0.2   | 454385     |
| Mg 279.078 | 4128.03     | ppb   | 2.5698  | 0.1   | 8722.82    |
| Mn 257.610 | 87.2284     | ppb   | 0.0050  | 0.0   | 19065.9    |
| Mo 202.032 | 2.2147      | ppb   | 0.2882  | 13.0  | 23.4802    |
| Na 330.237 | 39052.1     | ppb   | 153.584 | 0.4   | 1867.84    |
| Ni 231.604 | 3.6833      | ppb   | 1.0977  | 29.8  | 7.6070     |
| Pb 220.353 | -4.0707     | ppb   | 0.8037  | 19.7  | 17.0445    |
| Sb 206.834 | 0.3977      | ppb   | 3.1392  | 789.3 | -4.5376    |
| Se 196.026 | -1.1763     | ppb   | 1.6232  | 138.0 | 6.6467     |
| Sn 189.925 | -0.5064     | ppb   | 1.2438  | 245.6 | -13.2387   |
| Sr 216.596 | 76.4246     | ppb   | 0.3858  | 0.5   | 812.234    |
| Ti 334.941 | 4.2614      | ppb   | 0.0981  | 2.3   | 1027.08    |
| Tl 190.794 | -0.3508     | ppb   | 3.1490  | 897.6 | -14.1866   |
| V 292.401  | 4.6895      | ppb   | 0.1272  | 2.7   | 94.8481    |
| Zn 206.200 | 7.0216      | ppb   | 0.1729  | 2.5   | 143996     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

640-43655-a-28-b (Samp) 5/29/2013, 2:34:40 AM Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | 0.5276                   | 0.4059   | 0.2882    |
| Al 308.215 | 102.602                  | 101.281  | 99.2535   |
| As 188.980 | -6.4533u                 | -1.6719u | 5.8179    |
| B 249.678  | 20.4618                  | 19.3284  | 19.1103   |
| Ba 389.178 | 10.5355                  | 9.9784   | 9.5299    |
| Be 313.042 | 0.0298                   | 0.0233   | 0.0266    |
| Ca 370.602 | 429.1                    | 421.9    | 420.2     |
| Cd 226.502 | -0.1010u                 | -0.1191u | 0.0888    |
| Co 228.615 | 0.1278                   | -0.0582u | 0.0795    |
| Cr 267.716 | 0.3565                   | 0.3601   | 0.1724    |
| Cu 324.754 | 0.6961                   | 0.7692   | 0.5794    |
| Fe 271.441 | 723.785                  | 722.104  | 717.281   |
| K 766.491  | 151.193                  | 151.379  | 151.466   |
| Mg 279.078 | 255.240                  | 260.735  | 258.797   |
| Mn 257.610 | 12.5717                  | 12.5266  | 12.5969   |
| Mo 202.032 | -0.1920u                 | 0.4396   | -0.1428u  |
| Na 330.237 | 1330.80                  | 1465.76  | 1108.15   |
| Ni 231.604 | 1.2713                   | 0.3028   | 1.5528    |
| Pb 220.353 | -1.3223u                 | -1.5974u | -3.3809u  |
| Sb 206.834 | 1.4916                   | 3.0508   | 5.9706    |
| Se 196.026 | -0.6516u                 | 0.3600   | -13.1633u |
| Sn 189.925 | 0.5489                   | -2.0503u | 1.9288    |
| Sr 216.596 | 3.1434                   | 2.2086   | 2.9414    |
| Ti 334.941 | 0.6816                   | 0.7156   | 0.6496    |
| Tl 190.794 | 1.0690                   | 0.7091   | 1.1062    |
| V 292.401  | 0.8266                   | 0.9285   | 0.7749    |
| Zn 206.200 | 2.0767                   | 2.4050   | 2.2735    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.4072      | ppb   | 0.1197  | 29.4   | -16.6816   |
| Al 308.215 | 101.046     | ppb   | 1.6868  | 1.7    | 779.640    |
| As 188.980 | -0.7691     | ppb   | 6.1852  | 804.2  | -4.5060    |
| B 249.678  | 19.6335     | ppb   | 0.7256  | 3.7    | 368.583    |
| Ba 389.178 | 10.0146     | ppb   | 0.5038  | 5.0    | 173.207    |
| Be 313.042 | 0.0266      | ppb   | 0.0033  | 12.3   | -199.418   |
| Ca 370.602 | 423.7       | ppb   | 4.723   | 1.1    | 805.9      |
| Cd 226.502 | -0.0438     | ppb   | 0.1152  | 263.2  | 19.1856    |
| Co 228.615 | 0.0497      | ppb   | 0.0965  | 194.1  | 4.1719     |
| Cr 267.716 | 0.2963      | ppb   | 0.1074  | 36.2   | 19.9156    |
| Cu 324.754 | 0.6816      | ppb   | 0.0957  | 14.0   | 192.044    |
| Fe 271.441 | 721.057     | ppb   | 3.3761  | 0.5    | 1122.05    |
| K 766.491  | 151.346     | ppb   | 0.1398  | 0.1    | 5205.72    |
| Mg 279.078 | 258.257     | ppb   | 2.7872  | 1.1    | 576.563    |
| Mn 257.610 | 12.5651     | ppb   | 0.0356  | 0.3    | 2770.50    |
| Mo 202.032 | 0.0349      | ppb   | 0.3513  | 1005.8 | 9.2037     |
| Na 330.237 | 1301.57     | ppb   | 180.589 | 13.9   | 106.407    |
| Ni 231.604 | 1.0423      | ppb   | 0.6557  | 62.9   | 0.7610     |
| Pb 220.353 | -2.1002     | ppb   | 1.1176  | 53.2   | 19.9781    |
| Sb 206.834 | 3.5043      | ppb   | 2.2737  | 64.9   | -1.5345    |
| Se 196.026 | -4.4850     | ppb   | 7.5327  | 168.0  | 5.0760     |
| Sn 189.925 | 0.1425      | ppb   | 2.0204  | 1418.0 | -12.7326   |
| Sr 216.596 | 2.7644      | ppb   | 0.4919  | 17.8   | 47.5543    |
| Ti 334.941 | 0.6823      | ppb   | 0.0330  | 4.8    | 115.915    |
| Tl 190.794 | 0.9614      | ppb   | 0.2193  | 22.8   | -13.1045   |
| V 292.401  | 0.8433      | ppb   | 0.0781  | 9.3    | 4.4771     |
| Zn 206.200 | 2.2517      | ppb   | 0.1652  | 7.3    | 8.2002     |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

640-43656-a-1-b (Samp) 5/29/2013, 2:39:17 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0204u                 | 0.1596   | -0.0247u |
| Al 308.215 | 761.828                  | 761.351  | 758.310  |
| As 188.980 | 1.0128                   | -0.0066u | 2.2733   |
| B 249.678  | 28.3184                  | 28.1643  | 28.1481  |
| Ba 389.178 | 17.1630                  | 16.5254  | 16.3318  |
| Be 313.042 | 0.0434                   | 0.0289   | 0.0398   |
| Ca 370.602 | 8748                     | 8735     | 8701     |
| Cd 226.502 | 0.0645                   | 0.0342   | 0.0279   |
| Co 228.615 | -0.3070u                 | 0.0761   | 0.2963   |
| Cr 267.716 | 1.1988                   | 1.3588   | 1.2604   |
| Cu 324.754 | 2.8555                   | 2.2714   | 2.7345   |
| Fe 271.441 | 1098.68                  | 1105.24  | 1105.65  |
| K 766.491  | 3667.56                  | 3694.16  | 3701.92  |
| Mg 279.078 | 1177.89                  | 1173.36  | 1173.97  |
| Mn 257.610 | 58.6371                  | 58.4904  | 58.5455  |
| Mo 202.032 | 0.5185                   | 0.0845   | 0.4868   |
| Na 330.237 | 4203.18                  | 4369.71  | 4310.00  |
| Ni 231.604 | 0.3982                   | 2.3584   | 1.4115   |
| Pb 220.353 | 2.4226                   | 2.3555   | 1.5293   |
| Sb 206.834 | -3.0987u                 | 8.0133   | 0.1943   |
| Se 196.026 | 1.3372                   | -0.9132u | 4.1898   |
| Sn 189.925 | 0.7919                   | 1.0818   | -0.0559u |
| Sr 216.596 | 21.4649                  | 22.6089  | 21.7016  |
| Ti 334.941 | 10.6062                  | 10.4975  | 10.5858  |
| Tl 190.794 | -0.3643u                 | 2.4708   | 0.1262   |
| V 292.401  | 11.5542                  | 10.8656  | 11.0950  |
| Zn 206.200 | 8.3241                   | 7.2977   | 7.6192   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0382      | ppb   | 0.1052  | 275.5  | -43.3062   |
| Al 308.215 | 760.496     | ppb   | 1.9083  | 0.3    | 4668.61    |
| As 188.980 | 1.0932      | ppb   | 1.1420  | 104.5  | -3.4040    |
| B 249.678  | 28.2103     | ppb   | 0.0940  | 0.3    | 483.077    |
| Ba 389.178 | 16.6734     | ppb   | 0.4349  | 2.6    | 296.727    |
| Be 313.042 | 0.0374      | ppb   | 0.0075  | 20.2   | -178.459   |
| Ca 370.602 | 8728        | ppb   | 23.91   | 0.3    | 17521      |
| Cd 226.502 | 0.0422      | ppb   | 0.0195  | 46.3   | 22.9890    |
| Co 228.615 | 0.0218      | ppb   | 0.3053  | 1399.2 | 4.0840     |
| Cr 267.716 | 1.2727      | ppb   | 0.0807  | 6.3    | 64.3598    |
| Cu 324.754 | 2.6205      | ppb   | 0.3083  | 11.8   | 295.505    |
| Fe 271.441 | 1103.19     | ppb   | 3.9092  | 0.4    | 1706.22    |
| K 766.491  | 3687.88     | ppb   | 18.0189 | 0.5    | 119926     |
| Mg 279.078 | 1175.07     | ppb   | 2.4593  | 0.2    | 2505.98    |
| Mn 257.610 | 58.5576     | ppb   | 0.0741  | 0.1    | 12798.7    |
| Mo 202.032 | 0.3633      | ppb   | 0.2419  | 66.6   | 11.3189    |
| Na 330.237 | 4294.30     | ppb   | 84.3688 | 2.0    | 245.838    |
| Ni 231.604 | 1.3894      | ppb   | 0.9803  | 70.6   | 1.6695     |
| Pb 220.353 | 2.1025      | ppb   | 0.4975  | 23.7   | 26.2402    |
| Sb 206.834 | 1.7030      | ppb   | 5.7075  | 335.2  | -3.2480    |
| Se 196.026 | 1.5379      | ppb   | 2.5574  | 166.3  | 7.9167     |
| Sn 189.925 | 0.6059      | ppb   | 0.5912  | 97.6   | -12.3512   |
| Sr 216.596 | 21.9251     | ppb   | 0.6039  | 2.8    | 247.148    |
| Ti 334.941 | 10.5632     | ppb   | 0.0578  | 0.5    | 2599.13    |
| Tl 190.794 | 0.7442      | ppb   | 1.5152  | 203.6  | -13.3145   |
| V 292.401  | 11.1716     | ppb   | 0.3506  | 3.1    | 248.557    |
| Zn 206.200 | 7.7470      | ppb   | 0.5250  | 6.8    | 15.3476    |

640-43656-a-2-b (Samp) 5/29/2013, 2:43:54 AM Rack 3, Tube 45  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.4002                   | 0.0421   | 0.3704   |
| Al 308.215 | 2951.11                  | 2930.80  | 2878.53  |
| As 188.980 | -0.3863u                 | -0.1959u | 4.6921   |
| B 249.678  | 30.2915                  | 30.1896  | 29.8237  |
| Ba 389.178 | 18.6964                  | 18.3823  | 18.5153  |
| Be 313.042 | 0.0382                   | 0.0406   | 0.0401   |
| Ca 370.602 | 8818                     | 8752     | 8691     |
| Cd 226.502 | -0.1756                  | 0.1196   | 0.1454   |
| Co 228.615 | 0.2547                   | -0.1028  | 0.2293   |
| Cr 267.716 | 3.2982                   | 3.1780   | 3.0070   |
| Cu 324.754 | 1.7845                   | 1.3882   | 1.2878   |
| Fe 271.441 | 2389.26                  | 2383.76  | 2351.16  |
| K 766.491  | 2844.33                  | 2805.14  | 2782.16  |
| Mg 279.078 | 1407.48                  | 1393.92  | 1385.54  |
| Mn 257.610 | 83.7258                  | 82.9941  | 82.4002  |
| Mo 202.032 | 0.3405                   | 0.3330   | 0.4061   |
| Na 330.237 | 7942.36                  | 7848.50  | 7845.70  |
| Ni 231.604 | 2.3743                   | 2.3784   | 2.2908   |
| Pb 220.353 | 2.2341                   | 1.2257   | -1.3527u |
| Sb 206.834 | 0.7014                   | 2.7157   | 3.9641   |
| Se 196.026 | 8.2107                   | -5.2337u | -0.3764u |
| Sn 189.925 | -0.3157u                 | 2.7771   | 0.4698   |
| Sr 216.596 | 26.0744                  | 26.2676  | 26.5870  |
| Ti 334.941 | 86.9944                  | 87.4684  | 86.6909  |
| Tl 190.794 | 5.4628                   | 0.3911   | -1.0765u |
| V 292.401  | 8.6925                   | 9.1697   | 9.0528   |
| Zn 206.200 | 3.3432                   | 4.5531   | 2.9133   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.2709      | ppb   | 0.1988  | 73.4  | -26.9776   |
| Al 308.215 | 2920.14     | ppb   | 37.4445 | 1.3   | 17410.5    |
| As 188.980 | 1.3700      | ppb   | 2.8787  | 210.1 | -3.2324    |
| B 249.678  | 30.1016     | ppb   | 0.2460  | 0.8   | 506.091    |
| Ba 389.178 | 18.5313     | ppb   | 0.1577  | 0.9   | 332.407    |
| Be 313.042 | 0.0397      | ppb   | 0.0013  | 3.2   | -174.547   |
| Ca 370.602 | 8754        | ppb   | 63.37   | 0.7   | 17535      |
| Cd 226.502 | 0.0298      | ppb   | 0.1783  | 598.2 | 25.8139    |
| Co 228.615 | 0.1271      | ppb   | 0.1994  | 157.0 | 6.9880     |
| Cr 267.716 | 3.1611      | ppb   | 0.1464  | 4.6   | 150.460    |
| Cu 324.754 | 1.4868      | ppb   | 0.2626  | 17.7  | 235.452    |
| Fe 271.441 | 2374.73     | ppb   | 20.5914 | 0.9   | 3649.80    |
| K 766.491  | 2810.54     | ppb   | 31.4364 | 1.1   | 91466.1    |
| Mg 279.078 | 1395.65     | ppb   | 11.0716 | 0.8   | 2969.59    |
| Mn 257.610 | 83.0400     | ppb   | 0.6640  | 0.8   | 18137.4    |
| Mo 202.032 | 0.3599      | ppb   | 0.0402  | 11.2  | 11.2425    |
| Na 330.237 | 7878.85     | ppb   | 55.0178 | 0.7   | 412.549    |
| Ni 231.604 | 2.3478      | ppb   | 0.0494  | 2.1   | 4.1826     |
| Pb 220.353 | 0.7024      | ppb   | 1.8498  | 263.4 | 24.1734    |
| Sb 206.834 | 2.4604      | ppb   | 1.6463  | 66.9  | -2.4780    |
| Se 196.026 | 0.8669      | ppb   | 6.8079  | 785.3 | 7.6114     |
| Sn 189.925 | 0.9770      | ppb   | 1.6076  | 164.5 | -12.0482   |
| Sr 216.596 | 26.3097     | ppb   | 0.2589  | 1.0   | 293.632    |
| Ti 334.941 | 87.0512     | ppb   | 0.3919  | 0.5   | 21795.1    |
| Tl 190.794 | 1.5925      | ppb   | 3.4312  | 215.5 | -12.7002   |
| V 292.401  | 8.9716      | ppb   | 0.2487  | 2.8   | 197.488    |
| Zn 206.200 | 3.6032      | ppb   | 0.8502  | 23.6  | 0.9635     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90617-a-1-a (Samp) 5/29/2013, 2:48:31 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2311                   | -0.0969u | 0.4899   |
| Al 308.215 | 25.6391                  | 25.5031  | 24.1421  |
| As 188.980 | 1.5814                   | 2.6172   | -2.3341u |
| B 249.678  | 25.2608                  | 26.1326  | 25.4837  |
| Ba 389.178 | 19.8825                  | 20.2336  | 20.6474  |
| Be 313.042 | 0.0208                   | 0.0172   | 0.0110   |
| Ca 370.602 | 59896                    | 59851    | 59883    |
| Cd 226.502 | 0.1268                   | -0.1880u | 0.0153   |
| Co 228.615 | 0.1307                   | 0.0823   | 0.9036   |
| Cr 267.716 | -0.0038                  | 0.0134   | 0.1783   |
| Cu 324.754 | 3.4255                   | 3.3300   | 2.8674   |
| Fe 271.441 | 75.7986                  | 69.9857  | 75.5735  |
| K 766.491  | 1438.13                  | 1437.64  | 1430.80  |
| Mg 279.078 | 13764.4                  | 13800.7  | 13801.7  |
| Mn 257.610 | 679.831                  | 682.004  | 682.522  |
| Mo 202.032 | 0.1916                   | -0.1674u | 0.3077   |
| Na 330.237 | 14980.1                  | 14978.9  | 14849.8  |
| Ni 231.604 | 0.3829                   | 1.3072   | -0.0950u |
| Pb 220.353 | -2.7156u                 | -1.5504u | -5.0156u |
| Sb 206.834 | 7.0732                   | 5.5633   | 1.4196   |
| Se 196.026 | -6.4295u                 | 2.1178   | 0.6648   |
| Sn 189.925 | -0.2254u                 | 2.1345   | -5.1574u |
| Sr 216.596 | 171.421                  | 172.936  | 173.232  |
| Ti 334.941 | 0.3737                   | 0.3050   | 0.3322   |
| Tl 190.794 | -1.0590u                 | 0.1576u  | -0.1593u |
| V 292.401  | 0.4531                   | 0.4654   | 0.2954   |
| Zn 206.200 | 13.7884                  | 13.3828  | 12.7883  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.2080      | ppb   | 0.2940  | 141.3  | -35.3292   |
| Al 308.215 | 25.0948     | ppb   | 0.8279  | 3.3    | 331.598    |
| As 188.980 | 0.6215      | ppb   | 2.6115  | 420.2  | -3.6797    |
| B 249.678  | 25.6257     | ppb   | 0.4529  | 1.8    | 450.276    |
| Ba 389.178 | 20.2545     | ppb   | 0.3829  | 1.9    | 386.462    |
| Be 313.042 | 0.0163      | ppb   | 0.0050  | 30.5   | -199.695   |
| Ca 370.602 | 59877       | ppb   | 23.18   | 0.0    | 120627     |
| Cd 226.502 | -0.0153     | ppb   | 0.1596  | 1043.9 | 18.5652    |
| Co 228.615 | 0.3722      | ppb   | 0.4609  | 123.8  | 7.7732     |
| Cr 267.716 | 0.0626      | ppb   | 0.1006  | 160.5  | 12.1453    |
| Cu 324.754 | 3.2076      | ppb   | 0.2985  | 9.3    | 326.615    |
| Fe 271.441 | 73.7859     | ppb   | 3.2930  | 4.5    | 132.728    |
| K 766.491  | 1435.52     | ppb   | 4.0974  | 0.3    | 46862.5    |
| Mg 279.078 | 13788.9     | ppb   | 21.2502 | 0.2    | 29053.5    |
| Mn 257.610 | 681.453     | ppb   | 1.4278  | 0.2    | 148599     |
| Mo 202.032 | 0.1106      | ppb   | 0.2477  | 223.9  | 9.7293     |
| Na 330.237 | 14936.2     | ppb   | 74.8655 | 0.5    | 742.628    |
| Ni 231.604 | 0.5317      | ppb   | 0.7129  | 134.1  | -0.5777    |
| Pb 220.353 | -3.0939     | ppb   | 1.7633  | 57.0   | 18.5911    |
| Sb 206.834 | 4.6854      | ppb   | 2.9273  | 62.5   | -0.4199    |
| Se 196.026 | -1.2156     | ppb   | 4.5734  | 376.2  | 6.7664     |
| Sn 189.925 | -1.0828     | ppb   | 3.7208  | 343.6  | -13.6991   |
| Sr 216.596 | 172.529     | ppb   | 0.9713  | 0.6    | 1811.29    |
| Ti 334.941 | 0.3370      | ppb   | 0.0346  | 10.3   | 82.5917    |
| Tl 190.794 | -0.3536     | ppb   | 0.6311  | 178.5  | -14.3943   |
| V 292.401  | 0.4046      | ppb   | 0.0948  | 23.4   | -5.8464    |
| Zn 206.200 | 13.3198     | ppb   | 0.5930  | 4.4    | 22.5899    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

640-43706-a-21-a (Samp) 5/29/2013, 2:53:08 AM Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0635u                 | 0.5167   | 0.2480   |
| Al 308.215 | 1385.44                  | 1367.09  | 1353.26  |
| As 188.980 | 2.3355                   | -4.6063u | -4.6397u |
| B 249.678  | 139.024                  | 137.256  | 136.317  |
| Ba 389.178 | 22.3235                  | 23.7425  | 23.8328  |
| Be 313.042 | 0.0333                   | 0.0469   | 0.0428   |
| Ca 370.602 | 13440                    | 13236    | 13089    |
| Cd 226.502 | -0.0373                  | -0.1416u | -0.3076u |
| Co 228.615 | -0.0844u                 | 0.3598   | 0.3645   |
| Cr 267.716 | 2.3252                   | 2.1404   | 2.1200   |
| Cu 324.754 | 1.5577                   | 1.4389   | 1.3349   |
| Fe 271.441 | 1266.25                  | 1250.38  | 1237.09  |
| K 766.491  | 2846.01                  | 2839.68  | 2813.53  |
| Mg 279.078 | 2068.25                  | 2048.84  | 2032.33  |
| Mn 257.610 | 31.6787                  | 31.2192  | 30.9241  |
| Mo 202.032 | 0.5036                   | 0.3704   | 0.3341   |
| Na 330.237 | 5733.32                  | 5625.05  | 5554.11  |
| Ni 231.604 | 2.1267                   | 1.1356   | 2.3979   |
| Pb 220.353 | 3.1569                   | -2.4596u | -0.3093u |
| Sb 206.834 | 4.7686                   | -0.5376u | 0.5267   |
| Se 196.026 | -1.5031u                 | 1.9093   | -0.7795u |
| Sn 189.925 | -5.1234u                 | -3.6541u | -1.3213u |
| Sr 216.596 | 58.1709                  | 57.2982  | 56.7192  |
| Ti 334.941 | 35.0496                  | 34.4642  | 33.8576  |
| Tl 190.794 | 0.1257                   | 3.7163   | 2.0083   |
| V 292.401  | 4.5086                   | 4.2014   | 4.3648   |
| Zn 206.200 | 47.1855                  | 44.4140  | 45.7829  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.2337      | ppb   | 0.2904  | 124.2  | -31.1421   |
| Al 308.215 | 1368.60     | ppb   | 16.1439 | 1.2    | 8257.39    |
| As 188.980 | -2.3035     | ppb   | 4.0175  | 174.4  | -5.4053    |
| B 249.678  | 137.532     | ppb   | 1.3745  | 1.0    | 1951.11    |
| Ba 389.178 | 23.2996     | ppb   | 0.8465  | 3.6    | 419.278    |
| Be 313.042 | 0.0410      | ppb   | 0.0070  | 17.0   | -170.404   |
| Ca 370.602 | 13255       | ppb   | 176.3   | 1.3    | 26642      |
| Cd 226.502 | -0.1622     | ppb   | 0.1363  | 84.1   | 16.6256    |
| Co 228.615 | 0.2133      | ppb   | 0.2579  | 120.9  | 6.7684     |
| Cr 267.716 | 2.1952      | ppb   | 0.1131  | 5.2    | 106.174    |
| Cu 324.754 | 1.4438      | ppb   | 0.1115  | 7.7    | 232.852    |
| Fe 271.441 | 1251.24     | ppb   | 14.6008 | 1.2    | 1932.50    |
| K 766.491  | 2833.07     | ppb   | 17.2152 | 0.6    | 92197.0    |
| Mg 279.078 | 2049.81     | ppb   | 17.9832 | 0.9    | 4347.95    |
| Mn 257.610 | 31.2740     | ppb   | 0.3803  | 1.2    | 6861.68    |
| Mo 202.032 | 0.4027      | ppb   | 0.0892  | 22.2   | 11.5816    |
| Na 330.237 | 5637.49     | ppb   | 90.2514 | 1.6    | 307.879    |
| Ni 231.604 | 1.8867      | ppb   | 0.6645  | 35.2   | 2.9627     |
| Pb 220.353 | 0.1293      | ppb   | 2.8338  | 2190.9 | 23.2912    |
| Sb 206.834 | 1.5859      | ppb   | 2.8072  | 177.0  | -3.3500    |
| Se 196.026 | -0.1245     | ppb   | 1.7980  | 1444.7 | 7.1301     |
| Sn 189.925 | -3.3663     | ppb   | 1.9173  | 57.0   | -15.5789   |
| Sr 216.596 | 57.3961     | ppb   | 0.7308  | 1.3    | 615.096    |
| Ti 334.941 | 34.4571     | ppb   | 0.5961  | 1.7    | 8598.91    |
| Tl 190.794 | 1.9501      | ppb   | 1.7960  | 92.1   | -12.3327   |
| V 292.401  | 4.3583      | ppb   | 0.1537  | 3.5    | 87.8325    |
| Zn 206.200 | 45.7941     | ppb   | 1.3858  | 3.0    | 64.8292    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90628-d-1-a (Samp) 5/29/2013, 2:57:45 AM Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.3073u                  | 0.0424u  | -0.4668u |
| Al 308.215 | 31.4316                  | 30.9492  | 33.4743  |
| As 188.980 | 27.3785                  | 21.9423  | 21.1202  |
| B 249.678  | 394.453                  | 395.374  | 394.012  |
| Ba 389.178 | 102.671                  | 102.567  | 102.667  |
| Be 313.042 | -0.0305u                 | -0.0250  | -0.0255  |
| Ca 370.602 | 185715                   | 185842   | 184490   |
| Cd 226.502 | 0.0281                   | 0.0783   | 0.0666   |
| Co 228.615 | 7.2067                   | 7.9700   | 7.5533   |
| Cr 267.716 | 0.5409                   | 0.3690   | 0.7779   |
| Cu 324.754 | 0.8719                   | 1.0120   | 1.2490   |
| Fe 271.441 | 1089.62                  | 1096.83  | 1077.32  |
| K 766.491  | 140890x                  | 139816x  | 140075x  |
| Mg 279.078 | 46020.7                  | 45887.4  | 45664.3  |
| Mn 257.610 | 1091.77                  | 1088.08  | 1083.36  |
| Mo 202.032 | 4.9765                   | 3.5099   | 4.1335   |
| Na 330.237 | 31665.6                  | 31561.9  | 31660.2  |
| Ni 231.604 | 31.7472                  | 32.6842  | 32.0292  |
| Pb 220.353 | -1.8505u                 | 0.5553   | -1.0349u |
| Sb 206.834 | -1.3119u                 | 6.6298   | 3.9626   |
| Se 196.026 | -2.9358u                 | -1.7410u | 1.4169   |
| Sn 189.925 | 1.9034                   | -2.1392u | 0.5240   |
| Sr 216.596 | 608.509                  | 608.227  | 602.515  |
| Ti 334.941 | -0.0771                  | -0.0967  | -0.1701  |
| Tl 190.794 | -6.4529u                 | -7.0258u | -4.8043u |
| V 292.401  | 0.8737                   | 0.5988   | 0.3351   |
| Zn 206.200 | 6.8650                   | 5.5923   | 5.2872   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0390b    | ppb   | 0.3934  | 1007.7 | -69.9112   |
| Al 308.215 | 31.9517b    | ppb   | 1.3405  | 4.2    | 371.931    |
| As 188.980 | 23.4803b    | ppb   | 3.4008  | 14.5   | 9.8065     |
| B 249.678  | 394.613b    | ppb   | 0.6951  | 0.2    | 5404.61    |
| Ba 389.178 | 102.635b    | ppb   | 0.0592  | 0.1    | 1952.66    |
| Be 313.042 | -0.0270b    | ppb   | 0.0030  | 11.2   | -244.863   |
| Ca 370.602 | 185349b     | ppb   | 746.4   | 0.4    | 373363     |
| Cd 226.502 | 0.0576b     | ppb   | 0.0263  | 45.6   | 23.8486    |
| Co 228.615 | 7.5766b     | ppb   | 0.3822  | 5.0    | 88.8138    |
| Cr 267.716 | 0.5626b     | ppb   | 0.2053  | 36.5   | 36.9372    |
| Cu 324.754 | 1.0443b     | ppb   | 0.1906  | 18.3   | 211.639    |
| Fe 271.441 | 1087.92b    | ppb   | 9.8680  | 0.9    | 1683.69    |
| K 766.491  | 140260xb    | ppb   | 560.213 | 0.4    | 4550130    |
| Mg 279.078 | 45857.5b    | ppb   | 180.062 | 0.4    | 96564.9    |
| Mn 257.610 | 1087.74b    | ppb   | 4.2138  | 0.4    | 237363     |
| Mo 202.032 | 4.2066b     | ppb   | 0.7361  | 17.5   | 36.5012    |
| Na 330.237 | 31629.2b    | ppb   | 58.3663 | 0.2    | 1521.35    |
| Ni 231.604 | 32.1536b    | ppb   | 0.4807  | 1.5    | 81.4704    |
| Pb 220.353 | -0.7767b    | ppb   | 1.2235  | 157.5  | 22.1701    |
| Sb 206.834 | 3.0935b     | ppb   | 4.0416  | 130.6  | -1.9682    |
| Se 196.026 | -1.0866b    | ppb   | 2.2489  | 207.0  | 6.9258     |
| Sn 189.925 | 0.0961b     | ppb   | 2.0550  | 2138.9 | -12.6823   |
| Sr 216.596 | 606.417b    | ppb   | 3.3817  | 0.6    | 6317.92    |
| Ti 334.941 | -0.1146b    | ppb   | 0.0491  | 42.8   | 97.3131    |
| Tl 190.794 | -6.0943b    | ppb   | 1.1534  | 18.9   | -19.2597   |
| V 292.401  | 0.6025b     | ppb   | 0.2693  | 44.7   | -1.5707    |
| Zn 206.200 | 5.9148b     | ppb   | 0.8369  | 14.1   | 512.9665   |

680-90628-d-3-a (Samp) 5/29/2013, 3:11:36 AM Rack 3, Tube 51

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.0108u                 | 0.5229   | 0.0437u   |
| Al 308.215 | 13.0447                  | 12.4593  | 15.7522   |
| As 188.980 | 3.3157                   | 1.8161   | 0.9201    |
| B 249.678  | 371.287                  | 368.579  | 383.616   |
| Ba 389.178 | 83.3936                  | 81.3268  | 84.2558   |
| Be 313.042 | -0.0100                  | -0.0080  | -0.0032   |
| Ca 370.602 | 156953                   | 155737   | 161581    |
| Cd 226.502 | -0.2328u                 | -0.0723u | -0.0364u  |
| Co 228.615 | 3.1784                   | 3.7468   | 3.2546    |
| Cr 267.716 | 0.2156                   | -0.0240  | 0.0258    |
| Cu 324.754 | -0.0406u                 | -0.0383u | 0.2112    |
| Fe 271.441 | 43.3189                  | 37.0053  | 38.5401   |
| K 766.491  | 34389.6                  | 34026.0  | 34852.5   |
| Mg 279.078 | 40672.0                  | 39945.1  | 41401.3   |
| Mn 257.610 | 1504.78                  | 1490.73  | 1545.27   |
| Mo 202.032 | 4.0599                   | 4.8082   | 3.4921    |
| Na 330.237 | 21060.9                  | 20834.6  | 21606.3   |
| Ni 231.604 | 18.0645                  | 19.1462  | 22.3326   |
| Pb 220.353 | -2.7650u                 | -1.3045u | -2.7738u  |
| Sb 206.834 | 4.9925                   | 2.4234   | 11.2907   |
| Se 196.026 | -12.6427u                | -1.9552u | -13.4643u |
| Sn 189.925 | 1.0349                   | -1.3099u | -0.8217u  |
| Sr 216.596 | 577.549                  | 572.504  | 594.030   |
| Ti 334.941 | -0.3214                  | -0.3442  | -0.2656   |
| Tl 190.794 | -0.2102u                 | -0.3906u | -0.9742u  |
| V 292.401  | -0.3053u                 | 0.2666   | -0.0278u  |
| Zn 206.200 | 199.667                  | 197.125  | 206.073   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1852      | ppb   | 0.2937  | 158.5  | -51.0804   |
| Al 308.215 | 13.7521     | ppb   | 1.7567  | 12.8   | 264.829    |
| As 188.980 | 2.0173      | ppb   | 1.2104  | 60.0   | -2.8564    |
| B 249.678  | 374.494     | ppb   | 8.0154  | 2.1    | 5136.12    |
| Ba 389.178 | 82.9921     | ppb   | 1.5052  | 1.8    | 1583.29    |
| Be 313.042 | -0.0071     | ppb   | 0.0035  | 49.6   | -212.346   |
| Ca 370.602 | 158090      | ppb   | 3084    | 2.0    | 318508     |
| Cd 226.502 | -0.1138     | ppb   | 0.1046  | 91.9   | 15.4847    |
| Co 228.615 | 3.3933      | ppb   | 0.3086  | 9.1    | 41.6557    |
| Cr 267.716 | 0.0725      | ppb   | 0.1264  | 174.5  | 16.0757    |
| Cu 324.754 | 0.0441      | ppb   | 0.1447  | 328.0  | 157.948    |
| Fe 271.441 | 39.6215     | ppb   | 3.2928  | 8.3    | 80.8561    |
| K 766.491  | 34422.7     | ppb   | 414.241 | 1.2    | 1116917    |
| Mg 279.078 | 40672.8     | ppb   | 728.129 | 1.8    | 85642.0    |
| Mn 257.610 | 1513.59     | ppb   | 28.3163 | 1.9    | 330098     |
| Mo 202.032 | 4.1201      | ppb   | 0.6601  | 16.0   | 35.9833    |
| Na 330.237 | 21167.3     | ppb   | 396.692 | 1.9    | 1030.86    |
| Ni 231.604 | 19.8478     | ppb   | 2.2189  | 11.2   | 49.5306    |
| Pb 220.353 | -2.2811     | ppb   | 0.8458  | 37.1   | 19.9519    |
| Sb 206.834 | 6.2356      | ppb   | 4.5625  | 73.2   | 1.0163     |
| Se 196.026 | -9.3541     | ppb   | 6.4207  | 68.6   | 3.1394     |
| Sn 189.925 | -0.3656     | ppb   | 1.2371  | 338.4  | -13.0725   |
| Sr 216.596 | 581.361     | ppb   | 11.2579 | 1.9    | 6055.05    |
| Ti 334.941 | -0.3104     | ppb   | 0.0404  | 13.0   | 27.8368    |
| Tl 190.794 | -0.5250     | ppb   | 0.3993  | 76.1   | -14.8421   |
| V 292.401  | -0.0222     | ppb   | 0.2860  | 1291.2 | -16.2844   |
| Zn 206.200 | 200.955     | ppb   | 4.6108  | 2.3    | 206.623    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90677-c-5-a (Samp) 5/29/2013, 3:16:13 AM Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0074                   | 0.2174   | 0.0027   |
| Al 308.215 | 1761.83                  | 1754.08  | 1768.12  |
| As 188.980 | -4.6236u                 | 4.6210   | 2.9785   |
| B 249.678  | 510.524                  | 510.048  | 516.352  |
| Ba 389.178 | 18.5262                  | 18.6023  | 17.4701  |
| Be 313.042 | 0.1448                   | 0.1430   | 0.1486   |
| Ca 370.602 | 2821                     | 2792     | 2821     |
| Cd 226.502 | -0.1496                  | -0.2446  | -0.1410  |
| Co 228.615 | 0.7502                   | 0.8338   | 1.1453   |
| Cr 267.716 | 2.4964                   | 2.5123   | 2.6065   |
| Cu 324.754 | 2.1368                   | 2.2119   | 2.2618   |
| Fe 271.441 | 5907.75                  | 5884.17  | 5934.77  |
| K 766.491  | 1608.03                  | 1608.90  | 1619.11  |
| Mg 279.078 | 254.645                  | 251.259  | 250.505  |
| Mn 257.610 | 92.1369                  | 91.5448  | 92.5972  |
| Mo 202.032 | 1.0645                   | 0.8307   | 1.2090   |
| Na 330.237 | 55447.8                  | 54957.5  | 55212.7  |
| Ni 231.604 | 1.1061                   | 2.0712   | 2.1764   |
| Pb 220.353 | -0.0338                  | -1.6150u | -0.8032u |
| Sb 206.834 | 1.7740                   | 3.6934   | 4.2835   |
| Se 196.026 | -4.1423u                 | -6.3077u | -3.0663u |
| Sn 189.925 | -2.4369u                 | -1.4520u | -1.1256u |
| Sr 216.596 | 11.7721                  | 11.8432  | 12.0110  |
| Ti 334.941 | 11.4117                  | 11.2562  | 11.4102  |
| Tl 190.794 | 0.8839                   | 6.2822   | -1.5267u |
| V 292.401  | 4.5650                   | 3.9071   | 4.2574   |
| Zn 206.200 | 248.225                  | 248.776  | 247.661  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0759      | ppb   | 0.1226  | 161.6 | -40.1135   |
| Al 308.215 | 1761.34     | ppb   | 7.0337  | 0.4   | 10574.5    |
| As 188.980 | 0.9920      | ppb   | 4.9321  | 497.2 | -3.4995    |
| B 249.678  | 512.308     | ppb   | 3.5106  | 0.7   | 6976.06    |
| Ba 389.178 | 18.1995     | ppb   | 0.6329  | 3.5   | 327.970    |
| Be 313.042 | 0.1455      | ppb   | 0.0029  | 2.0   | 5.1922     |
| Ca 370.602 | 2811        | ppb   | 16.95   | 0.6   | 5359       |
| Cd 226.502 | -0.1784     | ppb   | 0.0575  | 32.2  | 27.6910    |
| Co 228.615 | 0.9098      | ppb   | 0.2082  | 22.9  | 14.2342    |
| Cr 267.716 | 2.5384      | ppb   | 0.0595  | 2.3   | 123.777    |
| Cu 324.754 | 2.2035      | ppb   | 0.0629  | 2.9   | 274.872    |
| Fe 271.441 | 5908.89     | ppb   | 25.3198 | 0.4   | 9051.86    |
| K 766.491  | 1612.01     | ppb   | 6.1611  | 0.4   | 52587.6    |
| Mg 279.078 | 252.137     | ppb   | 2.2051  | 0.9   | 562.857    |
| Mn 257.610 | 92.0930     | ppb   | 0.5276  | 0.6   | 20109.8    |
| Mo 202.032 | 1.0347      | ppb   | 0.1909  | 18.4  | 15.5090    |
| Na 330.237 | 55206.0     | ppb   | 245.231 | 0.4   | 2616.84    |
| Ni 231.604 | 1.7845      | ppb   | 0.5899  | 33.1  | 2.7921     |
| Pb 220.353 | -0.8173     | ppb   | 0.7907  | 96.7  | 22.1942    |
| Sb 206.834 | 3.2503      | ppb   | 1.3121  | 40.4  | -1.6569    |
| Se 196.026 | -4.5054     | ppb   | 1.6509  | 36.6  | 5.1019     |
| Sn 189.925 | -1.6715     | ppb   | 0.6826  | 40.8  | -14.1883   |
| Sr 216.596 | 11.8754     | ppb   | 0.1227  | 1.0   | 146.552    |
| Ti 334.941 | 11.3594     | ppb   | 0.0894  | 0.8   | 2792.24    |
| Tl 190.794 | 1.8798      | ppb   | 3.9986  | 212.7 | -12.6551   |
| V 292.401  | 4.2432      | ppb   | 0.3292  | 7.8   | 84.3401    |
| Zn 206.200 | 248.221     | ppb   | 0.5579  | 0.2   | 328.142    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90677-c-7-a (Samp) 5/29/2013, 3:20:50 AM Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0599                   | -0.2188u | 0.2742   |
| Al 308.215 | 10864.6                  | 10776.5  | 10680.4  |
| As 188.980 | 1.8660                   | -6.1410u | -2.0829u |
| B 249.678  | 1440.75                  | 1435.83  | 1427.38  |
| Ba 389.178 | 52.1020                  | 51.9229  | 51.5316  |
| Be 313.042 | 0.5461                   | 0.5430   | 0.5407   |
| Ca 370.602 | 3854                     | 3808     | 3773     |
| Cd 226.502 | -0.0255                  | -0.0572  | 0.0923   |
| Co 228.615 | 2.5319                   | 3.0548   | 2.3432   |
| Cr 267.716 | 19.8032                  | 19.7094  | 19.1863  |
| Cu 324.754 | 26.1126                  | 26.1763  | 25.9068  |
| Fe 271.441 | 8206.66                  | 8141.57  | 8112.29  |
| K 766.491  | 3178.73                  | 3148.50  | 3141.67  |
| Mg 279.078 | 232.107                  | 230.568  | 228.668  |
| Mn 257.610 | 18.9285                  | 18.7584  | 18.6502  |
| Mo 202.032 | 9.0930                   | 8.8386   | 9.2456   |
| Na 330.237 | 114285x                  | 113446x  | 112608x  |
| Ni 231.604 | 3.0861                   | 3.7253   | 3.6342   |
| Pb 220.353 | 6.2352                   | 8.1813   | 8.3125   |
| Sb 206.834 | 1.5311                   | 0.6513   | 5.0645   |
| Se 196.026 | 1.7496                   | 7.9465   | 1.7816   |
| Sn 189.925 | 0.5310                   | 1.6433   | -1.6208u |
| Sr 216.596 | 12.5740                  | 12.8357  | 12.5527  |
| Ti 334.941 | 6.4493                   | 6.4138   | 6.3413   |
| Tl 190.794 | -1.6249u                 | 3.0306   | -4.2895u |
| V 292.401  | 17.4094                  | 17.2499  | 16.9894  |
| Zn 206.200 | 40.6427                  | 37.4278  | 39.5830  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0384b     | ppb   | 0.2472  | 643.3  | -43.0038   |
| Al 308.215 | 10773.8b    | ppb   | 92.0955 | 0.9    | 63744.8    |
| As 188.980 | -2.1193b    | ppb   | 4.0036  | 188.9  | -5.2760    |
| B 249.678  | 1434.65b    | ppb   | 6.7593  | 0.5    | 19360.0    |
| Ba 389.178 | 51.8522b    | ppb   | 0.2917  | 0.6    | 943.029    |
| Be 313.042 | 0.5433b     | ppb   | 0.0027  | 0.5    | 700.598    |
| Ca 370.602 | 3812b       | ppb   | 40.36   | 1.1    | 7258       |
| Cd 226.502 | 0.0032b     | ppb   | 0.0788  | 2469.2 | 39.1282    |
| Co 228.615 | 2.6433b     | ppb   | 0.3687  | 13.9   | 33.5317    |
| Cr 267.716 | 19.5663b    | ppb   | 0.3324  | 1.7    | 895.672    |
| Cu 324.754 | 26.0652b    | ppb   | 0.1409  | 0.5    | 1548.74    |
| Fe 271.441 | 8153.51b    | ppb   | 48.3037 | 0.6    | 12483.1    |
| K 766.491  | 3156.30b    | ppb   | 19.7234 | 0.6    | 102682     |
| Mg 279.078 | 230.448b    | ppb   | 1.7229  | 0.7    | 516.128    |
| Mn 257.610 | 18.7790b    | ppb   | 0.1403  | 0.7    | 4142.75    |
| Mo 202.032 | 9.0591b     | ppb   | 0.2056  | 2.3    | 67.9248    |
| Na 330.237 | 113446xb    | ppb   | 838.426 | 0.7    | 5336.56    |
| Ni 231.604 | 3.4818b     | ppb   | 0.3458  | 9.9    | 7.2413     |
| Pb 220.353 | 7.5763b     | ppb   | 1.1633  | 15.4   | 34.6422    |
| Sb 206.834 | 2.4156b     | ppb   | 2.3358  | 96.7   | -2.3577    |
| Se 196.026 | 3.8259b     | ppb   | 3.5686  | 93.3   | 9.0049     |
| Sn 189.925 | 0.1845b     | ppb   | 1.6594  | 899.5  | -12.6587   |
| Sr 216.596 | 12.6541b    | ppb   | 0.1576  | 1.2    | 156.506    |
| Ti 334.941 | 6.4015b     | ppb   | 0.0550  | 0.9    | 1544.55    |
| Tl 190.794 | -0.9613b    | ppb   | 3.7049  | 385.4  | -15.0511   |
| V 292.401  | 17.2162b    | ppb   | 0.2120  | 1.2    | 388.429    |
| Zn 206.200 | 39.2178b    | ppb   | 1.6382  | 4.2    | 56.2825    |



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680-90677-c-9-a (Samp) 5/29/2013, 3:25:27 AM Rack 3, Tube 54

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1699u                 | -0.1636u | -0.0305u |
| Al 308.215 | 143.079                  | 141.819  | 140.553  |
| As 188.980 | -7.6278u                 | 0.5150   | -2.5623u |
| B 249.678  | 177.743                  | 175.804  | 172.570  |
| Ba 389.178 | 17.1649                  | 16.4884  | 17.4374  |
| Be 313.042 | -0.0077                  | -0.0046  | -0.0027  |
| Ca 370.602 | 62461                    | 62427    | 62297    |
| Cd 226.502 | -0.0714u                 | 0.1399   | -0.1254u |
| Co 228.615 | 0.3353                   | -0.0996u | 0.4672   |
| Cr 267.716 | 0.0002                   | 0.0741   | 0.2248   |
| Cu 324.754 | 0.2654                   | 0.4864   | 0.7305   |
| Fe 271.441 | 202.118                  | 203.243  | 207.517  |
| K 766.491  | 5779.09                  | 5792.02  | 5752.08  |
| Mg 279.078 | 3123.78                  | 3127.35  | 3107.56  |
| Mn 257.610 | 132.589                  | 132.268  | 131.801  |
| Mo 202.032 | 4.8484                   | 5.9923   | 5.7193   |
| Na 330.237 | 45617.4                  | 45719.2  | 45520.4  |
| Ni 231.604 | 2.7086                   | 2.5260   | 1.7358   |
| Pb 220.353 | 2.3693                   | -3.6911u | -0.7992u |
| Sb 206.834 | 2.8304                   | 2.6262   | 1.5219   |
| Se 196.026 | 7.0515                   | -4.7742u | -4.3442u |
| Sn 189.925 | -3.0565u                 | 0.5507   | 0.4348   |
| Sr 216.596 | 214.522                  | 215.560  | 213.507  |
| Ti 334.941 | 2.3561                   | 2.3788   | 2.3216   |
| Tl 190.794 | -1.0620u                 | -6.1955u | 0.4164   |
| V 292.401  | 2.4528                   | 2.2548   | 1.9983   |
| Zn 206.200 | 56.8167                  | 58.8283  | 58.6014  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1213     | ppb   | 0.0787  | 64.9  | -62.5126   |
| Al 308.215 | 141.817     | ppb   | 1.2632  | 0.9   | 1020.23    |
| As 188.980 | -3.2250     | ppb   | 4.1117  | 127.5 | -5.9522    |
| B 249.678  | 175.372     | ppb   | 2.6131  | 1.5   | 2461.32    |
| Ba 389.178 | 17.0303     | ppb   | 0.4886  | 2.9   | 306.190    |
| Be 313.042 | -0.0050     | ppb   | 0.0025  | 50.4  | -240.502   |
| Ca 370.602 | 62395       | ppb   | 86.39   | 0.1   | 125684     |
| Cd 226.502 | -0.0189     | ppb   | 0.1402  | 740.3 | 18.4893    |
| Co 228.615 | 0.2343      | ppb   | 0.2966  | 126.6 | 6.1231     |
| Cr 267.716 | 0.0997      | ppb   | 0.1145  | 114.8 | 12.1102    |
| Cu 324.754 | 0.4941      | ppb   | 0.2326  | 47.1  | 182.025    |
| Fe 271.441 | 204.293     | ppb   | 2.8488  | 1.4   | 332.207    |
| K 766.491  | 5774.40     | ppb   | 20.3805 | 0.4   | 187609     |
| Mg 279.078 | 3119.56     | ppb   | 10.5521 | 0.3   | 6598.79    |
| Mn 257.610 | 132.219     | ppb   | 0.3959  | 0.3   | 28859.8    |
| Mo 202.032 | 5.5200      | ppb   | 0.5974  | 10.8  | 45.1385    |
| Na 330.237 | 45619.0     | ppb   | 99.4194 | 0.2   | 2173.65    |
| Ni 231.604 | 2.3234      | ppb   | 0.5171  | 22.3  | 4.0739     |
| Pb 220.353 | -0.7070     | ppb   | 3.0312  | 428.7 | 22.0304    |
| Sb 206.834 | 2.3262      | ppb   | 0.7039  | 30.3  | -2.7433    |
| Se 196.026 | -0.6889     | ppb   | 6.7069  | 973.5 | 6.8852     |
| Sn 189.925 | -0.6903     | ppb   | 2.0500  | 297.0 | -13.3685   |
| Sr 216.596 | 214.529     | ppb   | 1.0265  | 0.5   | 2246.50    |
| Ti 334.941 | 2.3522      | ppb   | 0.0288  | 1.2   | 543.391    |
| Tl 190.794 | -2.2804     | ppb   | 3.4702  | 152.2 | -15.7626   |
| V 292.401  | 2.2353      | ppb   | 0.2279  | 10.2  | 36.3336    |
| Zn 206.200 | 58.0821     | ppb   | 1.1018  | 1.9   | 80.8079    |

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**680-90677-c-10-a (Samp)**      **5/29/2013, 3:30:04 AM**      **Rack 3, Tube 55****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0154                   | -0.1004u | 0.1371   |
| Al 308.215 | 233.622                  | 234.933  | 235.835  |
| As 188.980 | -1.2425u                 | -6.8982u | 2.8302   |
| B 249.678  | 828.904                  | 834.912  | 834.591  |
| Ba 389.178 | 6.0315                   | 6.2060   | 7.2471   |
| Be 313.042 | 0.0147                   | 0.0173   | 0.0138   |
| Ca 370.602 | 736.3                    | 737.5    | 734.8    |
| Cd 226.502 | -0.1870                  | -0.0776  | 0.1214   |
| Co 228.615 | 0.2112                   | 0.3896   | 0.3339   |
| Cr 267.716 | 0.1467                   | 0.4270   | 0.2468   |
| Cu 324.754 | 0.5820                   | 1.0003   | 0.3380   |
| Fe 271.441 | 3385.50                  | 3401.55  | 3381.55  |
| K 766.491  | 2250.67                  | 2245.72  | 2229.94  |
| Mg 279.078 | 95.4258                  | 101.394  | 95.9336  |
| Mn 257.610 | 22.6278                  | 22.7089  | 22.6022  |
| Mo 202.032 | -0.0865u                 | 0.4165   | 0.4238   |
| Na 330.237 | 88892.9                  | 89066.0  | 88099.6  |
| Ni 231.604 | -0.3367u                 | 0.3517   | 1.5424   |
| Pb 220.353 | -1.7832u                 | -1.5692u | 2.4088   |
| Sb 206.834 | 0.9197                   | 3.0095   | 1.5845   |
| Se 196.026 | 1.4457                   | -0.9157u | 3.1764   |
| Sn 189.925 | -0.4439u                 | -1.4532u | -1.2195u |
| Sr 216.596 | 4.9039                   | 5.2102   | 4.9873   |
| Ti 334.941 | 2.2357                   | 2.2129   | 2.2630   |
| Tl 190.794 | -1.2076u                 | -3.5381u | 3.4518   |
| V 292.401  | 0.6804                   | 0.9821   | 1.1644   |
| Zn 206.200 | 6.4222                   | 7.5280   | 8.0054   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0173b     | ppb   | 0.1188  | 684.6 | -44.2509   |
| Al 308.215 | 234.797b    | ppb   | 1.1129  | 0.5   | 1568.73    |
| As 188.980 | -1.7702b    | ppb   | 4.8856  | 276.0 | -5.1209    |
| B 249.678  | 832.802b    | ppb   | 3.3797  | 0.4   | 11285.4    |
| Ba 389.178 | 6.4949b     | ppb   | 0.6573  | 10.1  | 111.795    |
| Be 313.042 | 0.0153b     | ppb   | 0.0019  | 12.1  | -228.798   |
| Ca 370.602 | 736.2b      | ppb   | 1.382   | 0.2   | 1301       |
| Cd 226.502 | -0.0477b    | ppb   | 0.1564  | 327.7 | 25.4376    |
| Co 228.615 | 0.3116b     | ppb   | 0.0913  | 29.3  | 7.2364     |
| Cr 267.716 | 0.2735b     | ppb   | 0.1421  | 51.9  | 20.9686    |
| Cu 324.754 | 0.6401b     | ppb   | 0.3350  | 52.3  | 190.682    |
| Fe 271.441 | 3389.53b    | ppb   | 10.5916 | 0.3   | 5200.89    |
| K 766.491  | 2242.11b    | ppb   | 10.8250 | 0.5   | 73027.0    |
| Mg 279.078 | 97.5845b    | ppb   | 3.3089  | 3.4   | 238.563    |
| Mn 257.610 | 22.6463b    | ppb   | 0.0557  | 0.2   | 4972.07    |
| Mo 202.032 | 0.2513b     | ppb   | 0.2925  | 116.4 | 10.4993    |
| Na 330.237 | 88686.2b    | ppb   | 515.290 | 0.6   | 4182.98    |
| Ni 231.604 | 0.5191b     | ppb   | 0.9507  | 183.1 | -0.5420    |
| Pb 220.353 | -0.3146b    | ppb   | 2.3609  | 750.5 | 22.7990    |
| Sb 206.834 | 1.8379b     | ppb   | 1.0677  | 58.1  | -3.0761    |
| Se 196.026 | 1.2354b     | ppb   | 2.0541  | 166.3 | 7.7737     |
| Sn 189.925 | -1.0389b    | ppb   | 0.5284  | 50.9  | -13.6632   |
| Sr 216.596 | 5.0338b     | ppb   | 0.1583  | 3.1   | 73.3696    |
| Ti 334.941 | 2.2372b     | ppb   | 0.0251  | 1.1   | 499.746    |
| Tl 190.794 | -0.4313b    | ppb   | 3.5591  | 825.2 | -14.3813   |
| V 292.401  | 0.9423b     | ppb   | 0.2444  | 25.9  | 6.2167     |
| Zn 206.200 | 7.3185b     | ppb   | 0.8121  | 11.1  | 148140     |

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680-90677-c-11-a (Samp) 5/29/2013, 3:34:42 AM Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0400                   | 0.2582   | 0.1867   |
| Al 308.215 | 321.310                  | 318.370  | 318.895  |
| As 188.980 | -1.3114u                 | 0.6395   | -1.6675u |
| B 249.678  | 107.368                  | 106.425  | 106.020  |
| Ba 389.178 | 3.3586                   | 4.1033   | 1.2360   |
| Be 313.042 | 0.0160                   | 0.0249   | 0.0163   |
| Ca 370.602 | 9025                     | 9039     | 9062     |
| Cd 226.502 | 0.0882                   | 0.1283   | -0.1626  |
| Co 228.615 | 0.4365                   | -0.2024u | 0.4251   |
| Cr 267.716 | 0.2567                   | 0.5540   | 0.3976   |
| Cu 324.754 | 0.5611                   | 0.2941   | 0.7486   |
| Fe 271.441 | 2524.36                  | 2521.24  | 2537.96  |
| K 766.491  | 1161.48                  | 1157.93  | 1160.62  |
| Mg 279.078 | 338.317                  | 337.771  | 342.418  |
| Mn 257.610 | 30.9829                  | 31.1317  | 31.1523  |
| Mo 202.032 | 0.2099                   | 0.9080   | 0.7179   |
| Na 330.237 | 10468.7                  | 10303.1  | 10456.7  |
| Ni 231.604 | 1.5146                   | -0.7911u | 0.0867   |
| Pb 220.353 | -1.3623u                 | 0.0320   | -1.3864u |
| Sb 206.834 | 5.0526                   | 1.0087   | 2.8923   |
| Se 196.026 | 2.1532                   | -4.2278u | -3.2703u |
| Sn 189.925 | 0.4187                   | -1.8625u | -1.2190u |
| Sr 216.596 | 27.5881                  | 27.2255  | 27.4988  |
| Ti 334.941 | 2.4077                   | 2.3961   | 2.4090   |
| Tl 190.794 | -0.3033u                 | 2.7926   | 3.0080   |
| V 292.401  | 2.2571                   | 2.2941   | 2.4774   |
| Zn 206.200 | 7.4871                   | 6.4544   | 7.0017   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1616      | ppb   | 0.1112  | 68.8  | -34.9874   |
| Al 308.215 | 319.525     | ppb   | 1.5682  | 0.5   | 2068.41    |
| As 188.980 | -0.7798     | ppb   | 1.2420  | 159.3 | -4.5274    |
| B 249.678  | 106.604     | ppb   | 0.6918  | 0.6   | 1533.31    |
| Ba 389.178 | 2.8993      | ppb   | 1.4878  | 51.3  | 45.8846    |
| Be 313.042 | 0.0191      | ppb   | 0.0051  | 26.6  | -210.946   |
| Ca 370.602 | 9042        | ppb   | 18.51   | 0.2   | 18078      |
| Cd 226.502 | 0.0180      | ppb   | 0.1576  | 875.9 | 25.8005    |
| Co 228.615 | 0.2197      | ppb   | 0.3656  | 166.4 | 6.1684     |
| Cr 267.716 | 0.4028      | ppb   | 0.1487  | 36.9  | 25.3538    |
| Cu 324.754 | 0.5346      | ppb   | 0.2284  | 42.7  | 184.775    |
| Fe 271.441 | 2527.85     | ppb   | 8.8886  | 0.4   | 3883.79    |
| K 766.491  | 1160.01     | ppb   | 1.8530  | 0.2   | 37925.2    |
| Mg 279.078 | 339.502     | ppb   | 2.5403  | 0.7   | 747.585    |
| Mn 257.610 | 31.0890     | ppb   | 0.0924  | 0.3   | 6811.53    |
| Mo 202.032 | 0.6119      | ppb   | 0.3609  | 59.0  | 12.8971    |
| Na 330.237 | 10409.5     | ppb   | 92.3783 | 0.9   | 530.821    |
| Ni 231.604 | 0.2701      | ppb   | 1.1637  | 430.9 | -1.2057    |
| Pb 220.353 | -0.9055     | ppb   | 0.8120  | 89.7  | 21.8662    |
| Sb 206.834 | 2.9845      | ppb   | 2.0235  | 67.8  | -1.9995    |
| Se 196.026 | -1.7816     | ppb   | 3.4411  | 193.1 | 6.3559     |
| Sn 189.925 | -0.8876     | ppb   | 1.1761  | 132.5 | -13.5635   |
| Sr 216.596 | 27.4375     | ppb   | 0.1889  | 0.7   | 305.499    |
| Ti 334.941 | 2.4043      | ppb   | 0.0071  | 0.3   | 547.956    |
| Tl 190.794 | 1.8324      | ppb   | 1.8527  | 101.1 | -12.4963   |
| V 292.401  | 2.3429      | ppb   | 0.1179  | 5.0   | 39.7848    |
| Zn 206.200 | 6.9811      | ppb   | 0.5167  | 7.4   | 143.670    |

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**680-90677-a-16-a (Samp)**      **5/29/2013, 3:39:19 AM**      **Rack 3, Tube 57****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2454u                 | 0.0637u  | 0.2562   |
| Al 308.215 | 79.0062                  | 76.5624  | 80.6676  |
| As 188.980 | -0.7488u                 | 0.4220u  | -9.1417u |
| B 249.678  | 132.380                  | 131.854  | 131.431  |
| Ba 389.178 | 134.654                  | 135.603  | 136.527  |
| Be 313.042 | 0.0759                   | 0.0887   | 0.0881   |
| Ca 370.602 | 42160                    | 42396    | 42463    |
| Cd 226.502 | -0.4469                  | -0.3826  | -0.3922  |
| Co 228.615 | -0.3746u                 | -0.0364  | 0.1466   |
| Cr 267.716 | 0.9098                   | 1.1004   | 1.0086   |
| Cu 324.754 | 0.3514                   | 0.3252   | 0.4134   |
| Fe 271.441 | 28024.1                  | 28037.6  | 28059.1  |
| K 766.491  | 4334.23                  | 4355.60  | 4336.48  |
| Mg 279.078 | 7997.28                  | 7986.17  | 8004.29  |
| Mn 257.610 | 697.577                  | 698.460  | 698.018  |
| Mo 202.032 | 0.3165                   | -0.2346u | 0.4218   |
| Na 330.237 | 140538x                  | 140467x  | 140624x  |
| Ni 231.604 | 0.3675                   | 2.0912   | -0.2250u |
| Pb 220.353 | -1.4816u                 | 1.3349   | 4.4181   |
| Sb 206.834 | -0.0137                  | -0.6577u | 3.3031   |
| Se 196.026 | 3.7372                   | -7.5696u | 5.6862   |
| Sn 189.925 | -0.1343u                 | -3.0463u | -0.2793u |
| Sr 216.596 | 308.015                  | 309.403  | 309.759  |
| Ti 334.941 | 0.8493                   | 0.8139   | 0.8149   |
| Tl 190.794 | 2.8305                   | -3.9354u | 3.1773   |
| V 292.401  | 2.5173                   | 2.3685   | 1.9319   |
| Zn 206.200 | 4.1799                   | 4.2635   | 3.4712   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0249b     | ppb   | 0.2531  | 1018.2 | -53.9031   |
| Al 308.215 | 78.7454b    | ppb   | 2.0650  | 2.6    | 647.831    |
| As 188.980 | -3.1562b    | ppb   | 5.2166  | 165.3  | -6.1708    |
| B 249.678  | 131.888b    | ppb   | 0.4759  | 0.4    | 1825.16    |
| Ba 389.178 | 135.595b    | ppb   | 0.9365  | 0.7    | 2505.28    |
| Be 313.042 | 0.0843b     | ppb   | 0.0072  | 8.6    | -99.8573   |
| Ca 370.602 | 42340b      | ppb   | 159.2   | 0.4    | 83882      |
| Cd 226.502 | -0.4073b    | ppb   | 0.0347  | 8.5    | 76.2171    |
| Co 228.615 | -0.0881b    | ppb   | 0.2644  | 300.0  | 3.5462     |
| Cr 267.716 | 1.0063b     | ppb   | 0.0953  | 9.5    | 63.2242    |
| Cu 324.754 | 0.3633b     | ppb   | 0.0453  | 12.5   | 183.692    |
| Fe 271.441 | 28040.3b    | ppb   | 17.6378 | 0.1    | 42879.8    |
| K 766.491  | 4342.10b    | ppb   | 11.7442 | 0.3    | 141148     |
| Mg 279.078 | 7995.91b    | ppb   | 9.1365  | 0.1    | 16861.6    |
| Mn 257.610 | 698.018b    | ppb   | 0.4415  | 0.1    | 152235     |
| Mo 202.032 | 0.1679b     | ppb   | 0.3526  | 210.0  | 8.8340     |
| Na 330.237 | 140543xb    | ppb   | 78.8636 | 0.1    | 6595.96    |
| Ni 231.604 | 0.7446b     | ppb   | 1.2033  | 161.6  | 0.5492     |
| Pb 220.353 | 1.4238b     | ppb   | 2.9508  | 207.2  | 27.0730    |
| Sb 206.834 | 0.8772b     | ppb   | 2.1254  | 242.3  | -3.4478    |
| Se 196.026 | 0.6179b     | ppb   | 7.1573  | 1158.3 | 7.7223     |
| Sn 189.925 | -1.1533b    | ppb   | 1.6410  | 142.3  | -13.7217   |
| Sr 216.596 | 309.059b    | ppb   | 0.9211  | 0.3    | 3247.42    |
| Ti 334.941 | 0.8260b     | ppb   | 0.0202  | 2.4    | 176.271    |
| Tl 190.794 | 0.6908b     | ppb   | 4.0102  | 580.5  | -15.0134   |
| V 292.401  | 2.2726b     | ppb   | 0.3043  | 13.4   | 37.3614    |
| Zn 206.200 | 3.9715b     | ppb   | 0.4353  | 271.8  | 510.6798   |

680-90677-a-17-a (Samp) 5/29/2013, 3:43:56 AM Rack 3, Tube 58

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2533u                 | 0.0506u  | 0.1389u  |
| Al 308.215 | 79.8574                  | 83.1580  | 82.6856  |
| As 188.980 | -2.7951u                 | -3.1284u | -0.9430u |
| B 249.678  | 315.778                  | 320.386  | 319.423  |
| Ba 389.178 | 141.543                  | 141.919  | 140.884  |
| Be 313.042 | 0.0154                   | 0.0125   | 0.0133   |
| Ca 370.602 | 69885                    | 69360    | 69116    |
| Cd 226.502 | -0.1192                  | -0.1495  | 0.1526   |
| Co 228.615 | 2.5033                   | 3.4296   | 3.1388   |
| Cr 267.716 | 0.2919                   | 0.1772   | 0.3043   |
| Cu 324.754 | 0.2509                   | 0.6277   | 0.2283   |
| Fe 271.441 | 19640.6                  | 19651.5  | 19601.3  |
| K 766.491  | 5078.74                  | 5100.95  | 5102.83  |
| Mg 279.078 | 10453.9                  | 10450.0  | 10460.5  |
| Mn 257.610 | 533.936                  | 533.323  | 532.540  |
| Mo 202.032 | 0.6325                   | 2.1136   | 1.3055   |
| Na 330.237 | 224559x                  | 223353x  | 223821x  |
| Ni 231.604 | 1.8067                   | 1.2742   | 3.0619   |
| Pb 220.353 | -1.6598u                 | -0.3523  | -2.1402u |
| Sb 206.834 | 7.0063                   | -0.5503u | 0.0234   |
| Se 196.026 | -3.9715u                 | 12.0075  | -1.1754u |
| Sn 189.925 | -1.5359u                 | -1.0553u | 0.5898   |
| Sr 216.596 | 344.145                  | 344.440  | 344.955  |
| Ti 334.941 | 0.1037                   | 0.0890   | 0.0578   |
| Tl 190.794 | -2.5895u                 | 3.8798   | -3.1448u |
| V 292.401  | 0.9532                   | 0.4999   | -0.4653u |
| Zn 206.200 | 5.3129                   | 4.4744   | 3.6519   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.0213b    | ppb   | 0.2057  | 968.0 | -59.4218   |
| Al 308.215 | 81.9004b    | ppb   | 1.7849  | 2.2   | 666.706    |
| As 188.980 | -2.2889b    | ppb   | 1.1774  | 51.4  | -5.5804    |
| B 249.678  | 318.529b    | ppb   | 2.4303  | 0.8   | 4347.70    |
| Ba 389.178 | 141.449b    | ppb   | 0.5240  | 0.4   | 2607.44    |
| Be 313.042 | 0.0137b     | ppb   | 0.0015  | 10.8  | -224.227   |
| Ca 370.602 | 69454b      | ppb   | 392.7   | 0.6   | 138929     |
| Cd 226.502 | -0.0387b    | ppb   | 0.1664  | 429.9 | 66.5760    |
| Co 228.615 | 3.0239b     | ppb   | 0.4737  | 15.7  | 38.2114    |
| Cr 267.716 | 0.2578b     | ppb   | 0.0701  | 27.2  | 28.1980    |
| Cu 324.754 | 0.3690b     | ppb   | 0.2243  | 60.8  | 181.390    |
| Fe 271.441 | 19631.1b    | ppb   | 26.4192 | 0.1   | 30026.7    |
| K 766.491  | 5094.17b    | ppb   | 13.3959 | 0.3   | 165544     |
| Mg 279.078 | 10454.8b    | ppb   | 5.2906  | 0.1   | 22039.7    |
| Mn 257.610 | 533.266b    | ppb   | 0.7001  | 0.1   | 116338     |
| Mo 202.032 | 1.3505b     | ppb   | 0.7416  | 54.9  | 16.9616    |
| Na 330.237 | 223911xb    | ppb   | 608.071 | 0.3   | 10488.2    |
| Ni 231.604 | 2.0476b     | ppb   | 0.9179  | 44.8  | 3.7510     |
| Pb 220.353 | -1.3841b    | ppb   | 0.9253  | 66.9  | 22.3354    |
| Sb 206.834 | 2.1598b     | ppb   | 4.2070  | 194.8 | -2.4242    |
| Se 196.026 | 2.2869b     | ppb   | 8.5336  | 373.2 | 8.4401     |
| Sn 189.925 | -0.6672b    | ppb   | 1.1147  | 167.1 | -13.2859   |
| Sr 216.596 | 344.513b    | ppb   | 0.4100  | 0.1   | 3610.13    |
| Ti 334.941 | 0.0835b     | ppb   | 0.0234  | 28.1  | -6.8515    |
| Tl 190.794 | -0.6181b    | ppb   | 3.9052  | 631.8 | -15.5705   |
| V 292.401  | 0.3293b     | ppb   | 0.7244  | 220.0 | -9.2509    |
| Zn 206.200 | 4.4798b     | ppb   | 0.8395  | 272.5 | 513.2675   |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90677-a-18-a (Samp) 5/29/2013, 3:48:33 AM Rack 3, Tube 59****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0317u                 | -0.1645u | -0.2217u |
| Al 308.215 | 49.6604                  | 48.8339  | 47.5922  |
| As 188.980 | 3.8639                   | 5.2192   | 5.3765   |
| B 249.678  | 146.043                  | 145.420  | 145.149  |
| Ba 389.178 | 45.1726                  | 44.8961  | 44.7421  |
| Be 313.042 | -0.0173                  | -0.0083  | -0.0212u |
| Ca 370.602 | 144601                   | 144368   | 143435   |
| Cd 226.502 | 0.1940                   | -0.0534  | -0.1169  |
| Co 228.615 | 0.5068                   | 0.7842   | 0.9160   |
| Cr 267.716 | 1.0456                   | 1.0544   | 0.8644   |
| Cu 324.754 | -0.1792u                 | 0.1580   | -0.0907u |
| Fe 271.441 | 2196.42                  | 2188.04  | 2191.80  |
| K 766.491  | 6334.74                  | 6328.47  | 6312.20  |
| Mg 279.078 | 13207.7                  | 13179.1  | 13168.4  |
| Mn 257.610 | 2341.62                  | 2338.26  | 2329.16  |
| Mo 202.032 | 0.0007u                  | -0.4809u | 0.5767   |
| Na 330.237 | 93947.6                  | 93511.1  | 93623.3  |
| Ni 231.604 | 3.6152                   | 4.0067   | 2.6954   |
| Pb 220.353 | -1.0447u                 | -5.3553u | 0.3814   |
| Sb 206.834 | 3.7022                   | 3.4227   | 0.2360   |
| Se 196.026 | -1.6502u                 | 2.6425   | -4.0616u |
| Sn 189.925 | 0.6585                   | -3.2203u | 4.2687   |
| Sr 216.596 | 810.693                  | 808.062  | 803.960  |
| Ti 334.941 | 1.9812                   | 1.9146   | 2.0207   |
| Tl 190.794 | -1.2728u                 | -1.5675u | 0.8008u  |
| V 292.401  | 5.4087                   | 5.4525   | 5.0108   |
| Zn 206.200 | 6.5227                   | 6.4752   | 6.2738   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1393b    | ppb   | 0.0974  | 69.9   | -79.4810   |
| Al 308.215 | 48.6955b    | ppb   | 1.0410  | 2.1    | 470.020    |
| As 188.980 | 4.8198b     | ppb   | 0.8316  | 17.3   | -1.2203    |
| B 249.678  | 145.537b    | ppb   | 0.4584  | 0.3    | 2056.88    |
| Ba 389.178 | 44.9369b    | ppb   | 0.2181  | 0.5    | 836.855    |
| Be 313.042 | -0.0156b    | ppb   | 0.0066  | 42.1   | -237.385   |
| Ca 370.602 | 144135b     | ppb   | 616.8   | 0.4    | 290299     |
| Cd 226.502 | 0.0079b     | ppb   | 0.1643  | 2083.3 | 24.3273    |
| Co 228.615 | 0.7356b     | ppb   | 0.2089  | 28.4   | 11.9741    |
| Cr 267.716 | 0.9881b     | ppb   | 0.1073  | 10.9   | 62.5057    |
| Cu 324.754 | -0.0373b    | ppb   | 0.1748  | 468.5  | 154.106    |
| Fe 271.441 | 2192.08b    | ppb   | 4.1976  | 0.2    | 3370.65    |
| K 766.491  | 6325.14b    | ppb   | 11.6354 | 0.2    | 205474     |
| Mg 279.078 | 13185.1b    | ppb   | 20.3130 | 0.2    | 27756.1    |
| Mn 257.610 | 2336.35b    | ppb   | 6.4487  | 0.3    | 509141     |
| Mo 202.032 | 0.0322b     | ppb   | 0.5295  | 1645.4 | 9.1116     |
| Na 330.237 | 93694.0b    | ppb   | 226.675 | 0.2    | 4416.99    |
| Ni 231.604 | 3.4391b     | ppb   | 0.6731  | 19.6   | 7.0080     |
| Pb 220.353 | -2.0062b    | ppb   | 2.9867  | 148.9  | 20.6588    |
| Sb 206.834 | 2.4536b     | ppb   | 1.9256  | 78.5   | -2.5017    |
| Se 196.026 | -1.0231b    | ppb   | 3.3958  | 331.9  | 7.2517     |
| Sn 189.925 | 0.5690b     | ppb   | 3.7453  | 658.3  | -12.2936   |
| Sr 216.596 | 807.571b    | ppb   | 3.3931  | 0.4    | 8398.67    |
| Ti 334.941 | 1.9722b     | ppb   | 0.0537  | 2.7    | 485.288    |
| Tl 190.794 | -0.6798b    | ppb   | 1.2907  | 189.9  | -15.3944   |
| V 292.401  | 5.2907b     | ppb   | 0.2433  | 4.6    | 109.056    |
| Zn 206.200 | 6.4239b     | ppb   | 0.1322  | 2.1    | 13.6366    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90677-a-19-a (Samp) 5/29/2013, 3:53:10 AM Rack 3, Tube 60

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1908u                 | -0.3621u | -0.0032u |
| Al 308.215 | 98.0068                  | 95.6577  | 97.6188  |
| As 188.980 | 0.9759                   | -0.6644u | -1.4709u |
| B 249.678  | 347.155                  | 346.656  | 348.846  |
| Ba 389.178 | 144.887                  | 144.519  | 145.187  |
| Be 313.042 | 0.9168                   | 0.9206   | 0.9231   |
| Ca 370.602 | 47948                    | 47829    | 47972    |
| Cd 226.502 | -0.5938                  | -0.6118  | -0.4022  |
| Co 228.615 | 2.7160                   | 2.8868   | 2.8893   |
| Cr 267.716 | 2.5913                   | 2.5536   | 2.6289   |
| Cu 324.754 | 0.6814                   | 0.4694   | 0.6229   |
| Fe 271.441 | 30386.4                  | 30278.1  | 30356.7  |
| K 766.491  | 8195.98                  | 8146.83  | 8207.25  |
| Mg 279.078 | 13246.0                  | 13194.0  | 13202.0  |
| Mn 257.610 | 2531.73                  | 2521.40  | 2526.92  |
| Mo 202.032 | -0.3075u                 | 0.6629   | 0.5415   |
| Na 330.237 | 399925x                  | 395982x  | 394526x  |
| Ni 231.604 | 4.8437                   | 3.8986   | 4.5296   |
| Pb 220.353 | -1.7017u                 | 0.5378   | -1.1161  |
| Sb 206.834 | 4.7123                   | -0.0127  | 2.9489   |
| Se 196.026 | 3.3241                   | -1.6288u | -0.8566  |
| Sn 189.925 | -0.7795u                 | -2.9836u | 0.9203   |
| Sr 216.596 | 466.277                  | 464.956  | 464.443  |
| Ti 334.941 | 5.5897                   | 5.4862   | 5.5964   |
| Tl 190.794 | -1.4380u                 | -0.8494u | -2.1642u |
| V 292.401  | 8.7574                   | 8.6881   | 8.6330   |
| Zn 206.200 | 5.9339                   | 7.9306   | 6.5131   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1854b    | ppb   | 0.1795  | 96.9  | -67.4575   |
| Al 308.215 | 97.0944b    | ppb   | 1.2593  | 1.3   | 754.932    |
| As 188.980 | -0.3865b    | ppb   | 1.2468  | 322.6 | -4.5569    |
| B 249.678  | 347.552b    | ppb   | 1.1477  | 0.3   | 4717.45    |
| Ba 389.178 | 144.864b    | ppb   | 0.3347  | 0.2   | 2687.22    |
| Be 313.042 | 0.9202b     | ppb   | 0.0031  | 0.3   | 1349.00    |
| Ca 370.602 | 47916b      | ppb   | 76.64   | 0.2   | 95035      |
| Cd 226.502 | -0.5359b    | ppb   | 0.1162  | 21.7  | 76.6619    |
| Co 228.615 | 2.8307b     | ppb   | 0.0993  | 3.5   | 36.5569    |
| Cr 267.716 | 2.5912b     | ppb   | 0.0376  | 1.5   | 147.130    |
| Cu 324.754 | 0.5912b     | ppb   | 0.1095  | 18.5  | 196.520    |
| Fe 271.441 | 30340.4b    | ppb   | 55.9391 | 0.2   | 46396.0    |
| K 766.491  | 8183.35b    | ppb   | 32.1280 | 0.4   | 265752     |
| Mg 279.078 | 13214.0b    | ppb   | 27.9674 | 0.2   | 27819.0    |
| Mn 257.610 | 2526.68b    | ppb   | 5.1709  | 0.2   | 550678     |
| Mo 202.032 | 0.2990b     | ppb   | 0.5287  | 176.8 | 9.5766     |
| Na 330.237 | 396811xb    | ppb   | 2793.03 | 0.7   | 18552.8    |
| Ni 231.604 | 4.4239b     | ppb   | 0.4813  | 10.9  | 10.1367    |
| Pb 220.353 | -0.7600b    | ppb   | 1.1614  | 152.8 | 24.3234    |
| Sb 206.834 | 2.5495b     | ppb   | 2.3877  | 93.7  | -1.7751    |
| Se 196.026 | 0.2796b     | ppb   | 2.6648  | 953.2 | 7.9998     |
| Sn 189.925 | -0.9476b    | ppb   | 1.9574  | 206.6 | -13.4641   |
| Sr 216.596 | 465.226b    | ppb   | 0.9461  | 0.2   | 4867.30    |
| Ti 334.941 | 5.5574b     | ppb   | 0.0618  | 1.1   | 1367.12    |
| Tl 190.794 | -1.4839b    | ppb   | 0.6586  | 44.4  | -17.5881   |
| V 292.401  | 8.6928b     | ppb   | 0.0623  | 0.7   | 187.356    |
| Zn 206.200 | 6.7926b     | ppb   | 1.0273  | 27.1  | 51.3636    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90677-a-20-a (Samp) 5/29/2013, 4:07:14 AM Rack 4, Tube 3

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1174                   | 0.2789   | 0.2597   |
| Al 308.215 | 22.8018                  | 24.7720  | 22.4974  |
| As 188.980 | 2.6326                   | 5.3247   | 0.8015   |
| B 249.678  | 935.513                  | 940.990  | 942.460  |
| Ba 389.178 | 18.7982                  | 18.8340  | 18.7462  |
| Be 313.042 | 0.0266                   | 0.0356   | 0.0326   |
| Ca 370.602 | 6549                     | 6553     | 6571     |
| Cd 226.502 | -0.2386                  | -0.2562  | -0.0817  |
| Co 228.615 | 0.2735                   | 0.7935   | -0.2330u |
| Cr 267.716 | 0.2924                   | 0.1271   | 0.1965   |
| Cu 324.754 | 0.2221                   | 0.5342   | 0.4133   |
| Fe 271.441 | 9663.08                  | 9656.39  | 9670.94  |
| K 766.491  | 2323.24                  | 2317.71  | 2315.57  |
| Mg 279.078 | 938.826                  | 942.018  | 944.124  |
| Mn 257.610 | 115.897                  | 115.904  | 116.013  |
| Mo 202.032 | 0.7867                   | 0.5875   | 1.0261   |
| Na 330.237 | 91736.6                  | 91761.8  | 91720.3  |
| Ni 231.604 | 0.1272                   | 0.6910   | 1.3405   |
| Pb 220.353 | -2.1847u                 | 0.7154   | 0.7774   |
| Sb 206.834 | 1.0710                   | 0.6284   | 4.2662   |
| Se 196.026 | 7.6064                   | 0.6353   | 0.1035   |
| Sn 189.925 | -1.3437u                 | -0.7462u | -0.7323u |
| Sr 216.596 | 38.7847                  | 37.9547  | 38.0408  |
| Ti 334.941 | 0.2129                   | 0.2411   | 0.2283   |
| Tl 190.794 | -2.2490u                 | -0.4170u | 2.2055   |
| V 292.401  | 0.6556                   | 0.6414   | 1.0139   |
| Zn 206.200 | 4.2572                   | 2.8032   | 4.3274   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.2187b     | ppb   | 0.0882  | 40.3   | -31.1013   |
| Al 308.215 | 23.3571b    | ppb   | 1.2348  | 5.3    | 321.329    |
| As 188.980 | 2.9196b     | ppb   | 2.2752  | 77.9   | -2.4125    |
| B 249.678  | 939.654b    | ppb   | 3.6608  | 0.4    | 12708.8    |
| Ba 389.178 | 18.7928b    | ppb   | 0.0442  | 0.2    | 344.365    |
| Be 313.042 | 0.0316b     | ppb   | 0.0046  | 14.6   | -198.667   |
| Ca 370.602 | 6558b       | ppb   | 12.03   | 0.2    | 12713      |
| Cd 226.502 | -0.1922b    | ppb   | 0.0961  | 50.0   | 36.6516    |
| Co 228.615 | 0.2780b     | ppb   | 0.5133  | 184.6  | 7.0107     |
| Cr 267.716 | 0.2054b     | ppb   | 0.0830  | 40.4   | 19.7109    |
| Cu 324.754 | 0.3899b     | ppb   | 0.1574  | 40.4   | 179.334    |
| Fe 271.441 | 9663.47b    | ppb   | 7.2853  | 0.1    | 14790.7    |
| K 766.491  | 2318.84b    | ppb   | 3.9609  | 0.2    | 75516.0    |
| Mg 279.078 | 941.656b    | ppb   | 2.6676  | 0.3    | 2015.39    |
| Mn 257.610 | 115.938b    | ppb   | 0.0648  | 0.1    | 25319.6    |
| Mo 202.032 | 0.8001b     | ppb   | 0.2196  | 27.4   | 13.8085    |
| Na 330.237 | 91739.6b    | ppb   | 20.9098 | 0.0    | 4323.80    |
| Ni 231.604 | 0.7196b     | ppb   | 0.6071  | 84.4   | 0.1067     |
| Pb 220.353 | -0.2306b    | ppb   | 1.6926  | 733.8  | 23.3419    |
| Sb 206.834 | 1.9885b     | ppb   | 1.9849  | 99.8   | -2.8009    |
| Se 196.026 | 2.7818b     | ppb   | 4.1867  | 150.5  | 8.5422     |
| Sn 189.925 | -0.9407b    | ppb   | 0.3490  | 37.1   | -13.5801   |
| Sr 216.596 | 38.2601b    | ppb   | 0.4563  | 1.2    | 423.428    |
| Ti 334.941 | 0.2274b     | ppb   | 0.0142  | 6.2    | -0.8101    |
| Tl 190.794 | -0.1535b    | ppb   | 2.2389  | 1458.5 | -14.5191   |
| V 292.401  | 0.7703b     | ppb   | 0.2111  | 27.4   | 2.0426     |
| Zn 206.200 | 3.7959b     | ppb   | 0.8695  | 22.7   | 10.2891    |



680-90677-a-20-aSD^5 (Samp) 5/29/2013, 4:11:53 AM Rack 4, Tube 4

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1487u                 | -0.0843u | -0.1646u |
| Al 308.215 | 7.3797                   | 8.8761   | 6.7474   |
| As 188.980 | -1.7781u                 | 0.0583   | -0.4416u |
| B 249.678  | 209.072                  | 205.193  | 204.467  |
| Ba 389.178 | 3.9759                   | 4.0036   | 3.1697   |
| Be 313.042 | 0.0060                   | 0.0101   | 0.0118   |
| Ca 370.602 | 1330                     | 1312     | 1314     |
| Cd 226.502 | -0.2095u                 | 0.0685   | 0.0008   |
| Co 228.615 | 0.1705                   | 0.7730   | 0.3900   |
| Cr 267.716 | 0.1935                   | -0.0560u | -0.2249u |
| Cu 324.754 | 0.2007                   | 0.3472   | 0.2478   |
| Fe 271.441 | 1963.48                  | 1945.28  | 1928.90  |
| K 766.491  | 436.046                  | 431.417  | 431.021  |
| Mg 279.078 | 187.993                  | 189.386  | 185.640  |
| Mn 257.610 | 23.6050                  | 23.3697  | 23.2161  |
| Mo 202.032 | -0.0250u                 | 0.5194   | 0.1710   |
| Na 330.237 | 17454.9                  | 17456.6  | 17194.4  |
| Ni 231.604 | -0.7076u                 | 0.9864   | 0.5713   |
| Pb 220.353 | -3.8439u                 | -1.1432u | -4.3123u |
| Sb 206.834 | 3.8692                   | 5.9042   | 1.9438   |
| Se 196.026 | 0.3341                   | 9.3180   | 1.1864   |
| Sn 189.925 | -1.1801u                 | 3.3216   | 1.7518   |
| Sr 216.596 | 7.1279                   | 7.1783   | 7.4301   |
| Ti 334.941 | 0.0086                   | 0.1292   | 0.0290   |
| Tl 190.794 | 5.1188                   | 3.1244   | 3.2536   |
| V 292.401  | 0.3542                   | 0.4429   | 0.2629   |
| Zn 206.200 | 0.0773                   | 2.0080   | 0.6386   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1325     | ppb   | 0.0425  | 32.1  | -54.9408   |
| Al 308.215 | 7.6677      | ppb   | 1.0932  | 14.3  | 228.799    |
| As 188.980 | -0.7204     | ppb   | 0.9494  | 131.8 | -4.4896    |
| B 249.678  | 206.244     | ppb   | 2.4755  | 1.2   | 2872.69    |
| Ba 389.178 | 3.7164      | ppb   | 0.4737  | 12.7  | 59.7868    |
| Be 313.042 | 0.0093      | ppb   | 0.0030  | 31.9  | -231.367   |
| Ca 370.602 | 1319        | ppb   | 9.907   | 0.8   | 2548       |
| Cd 226.502 | -0.0468     | ppb   | 0.1449  | 310.0 | 22.1252    |
| Co 228.615 | 0.4445      | ppb   | 0.3049  | 68.6  | 8.6325     |
| Cr 267.716 | -0.0291     | ppb   | 0.2105  | 722.3 | 5.7678     |
| Cu 324.754 | 0.2652      | ppb   | 0.0748  | 28.2  | 170.228    |
| Fe 271.441 | 1945.89     | ppb   | 17.3007 | 0.9   | 2994.26    |
| K 766.491  | 432.828     | ppb   | 2.7941  | 0.6   | 14336.6    |
| Mg 279.078 | 187.673     | ppb   | 1.8936  | 1.0   | 428.029    |
| Mn 257.610 | 23.3969     | ppb   | 0.1959  | 0.8   | 5132.92    |
| Mo 202.032 | 0.2218      | ppb   | 0.2757  | 124.3 | 10.3728    |
| Na 330.237 | 17368.6     | ppb   | 150.911 | 0.9   | 855.783    |
| Ni 231.604 | 0.2834      | ppb   | 0.8829  | 311.6 | -1.1838    |
| Pb 220.353 | -3.0998     | ppb   | 1.7106  | 55.2  | 18.5736    |
| Sb 206.834 | 3.9057      | ppb   | 1.9804  | 50.7  | -1.1279    |
| Se 196.026 | 3.6129      | ppb   | 4.9592  | 137.3 | 8.8857     |
| Sn 189.925 | 1.2978      | ppb   | 2.2849  | 176.1 | -11.7873   |
| Sr 216.596 | 7.2455      | ppb   | 0.1619  | 2.2   | 95.0940    |
| Ti 334.941 | 0.0556      | ppb   | 0.0646  | 116.1 | -42.6192   |
| Tl 190.794 | 3.8323      | ppb   | 1.1161  | 29.1  | -10.8348   |
| V 292.401  | 0.3533      | ppb   | 0.0900  | 25.5  | -7.2301    |
| Zn 206.200 | 0.9080      | ppb   | 0.9931  | 109.4 | 6.4646     |

680-90677-a-20-aPDS (Samp) 5/29/2013, 4:16:30 AM Rack 4, Tube 5

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 48.2816                  | 47.8230  | 47.8997  |
| Al 308.215 | 1928.93                  | 1918.88  | 1915.41  |
| As 188.980 | 2156.25                  | 2168.15  | 2154.69  |
| B 249.678  | 1968.58                  | 1966.21  | 1972.98  |
| Ba 389.178 | 1894.36                  | 1889.04  | 1884.70  |
| Be 313.042 | 50.2645                  | 49.9953  | 50.0161  |
| Ca 370.602 | 11316                    | 11231    | 11190    |
| Cd 226.502 | 48.4288                  | 48.3218  | 47.9809  |
| Co 228.615 | 499.357                  | 496.258  | 491.858  |
| Cr 267.716 | 192.989                  | 192.037  | 191.595  |
| Cu 324.754 | 241.198                  | 242.354  | 242.530  |
| Fe 271.441 | 10397.0                  | 10368.8  | 10338.4  |
| K 766.491  | 8118.32                  | 8061.39  | 8110.94  |
| Mg 279.078 | 6081.55                  | 6037.96  | 6042.19  |
| Mn 257.610 | 612.545                  | 609.485  | 608.398  |
| Mo 202.032 | 516.350                  | 515.833  | 512.117  |
| Na 330.237 | 96155.7x                 | 95414.3x | 95672.2x |
| Ni 231.604 | 485.783                  | 482.083  | 478.254  |
| Pb 220.353 | 497.549                  | 489.170  | 490.244  |
| Sb 206.834 | 475.649                  | 479.000  | 472.282  |
| Se 196.026 | 2069.29                  | 2063.96  | 2055.60  |
| Sn 189.925 | 1016.54                  | 1016.00  | 1017.83  |
| Sr 216.596 | 543.093                  | 538.186  | 539.569  |
| Ti 334.941 | 973.188                  | 969.490  | 970.363  |
| Tl 190.794 | 2009.49                  | 2002.49  | 1988.68  |
| V 292.401  | 476.714                  | 475.968  | 474.324  |
| Zn 206.200 | 493.197                  | 491.354  | 488.443  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 48.0014b    | ppb   | 0.2456  | 0.5  | 3325.92    |
| Al 308.215 | 1921.07b    | ppb   | 7.0218  | 0.4  | 11445.8    |
| As 188.980 | 2159.70b    | ppb   | 7.3628  | 0.3  | 1270.90    |
| B 249.678  | 1969.26b    | ppb   | 3.4353  | 0.2  | 26536.1    |
| Ba 389.178 | 1889.36b    | ppb   | 4.8364  | 0.3  | 34406.6    |
| Be 313.042 | 50.0920b    | ppb   | 0.1498  | 0.3  | 88081.8    |
| Ca 370.602 | 11246b      | ppb   | 64.14   | 0.6  | 22463      |
| Cd 226.502 | 48.2439b    | ppb   | 0.2339  | 0.5  | 1639.80    |
| Co 228.615 | 495.824b    | ppb   | 3.7680  | 0.8  | 5587.13    |
| Cr 267.716 | 192.207b    | ppb   | 0.7127  | 0.4  | 8709.96    |
| Cu 324.754 | 242.027b    | ppb   | 0.7233  | 0.3  | 13081.4    |
| Fe 271.441 | 10368.1b    | ppb   | 29.3141 | 0.3  | 15928.9    |
| K 766.491  | 8096.88b    | ppb   | 30.9581 | 0.4  | 262947     |
| Mg 279.078 | 6053.90b    | ppb   | 24.0420 | 0.4  | 12770.5    |
| Mn 257.610 | 610.142b    | ppb   | 2.1502  | 0.4  | 133030     |
| Mo 202.032 | 514.767b    | ppb   | 2.3093  | 0.4  | 3378.15    |
| Na 330.237 | 95747.4xb   | ppb   | 376.396 | 0.4  | 4500.85    |
| Ni 231.604 | 482.040b    | ppb   | 3.7650  | 0.8  | 1247.87    |
| Pb 220.353 | 492.321b    | ppb   | 4.5592  | 0.9  | 754.133    |
| Sb 206.834 | 475.644b    | ppb   | 3.3590  | 0.7  | 446.993    |
| Se 196.026 | 2062.95b    | ppb   | 6.9007  | 0.3  | 976.232    |
| Sn 189.925 | 1016.79b    | ppb   | 0.9407  | 0.1  | 814.010    |
| Sr 216.596 | 540.283b    | ppb   | 2.5299  | 0.5  | 5609.73    |
| Ti 334.941 | 971.014b    | ppb   | 1.9330  | 0.2  | 243644     |
| Tl 190.794 | 2000.22b    | ppb   | 10.5906 | 0.5  | 1614.92    |
| V 292.401  | 475.669b    | ppb   | 1.2228  | 0.3  | 11153.4    |
| Zn 206.200 | 490.998b    | ppb   | 2.3969  | 0.5  | 643.326    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90677-a-20-b ms (Samp) 5/29/2013, 4:21:08 AM Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 55.1576                  | 55.6772  | 55.0404  |
| Al 308.215 | 5650.44                  | 5646.11  | 5633.39  |
| As 188.980 | 130.997                  | 131.324  | 122.553  |
| B 249.678  | 1218.92                  | 1218.87  | 1216.96  |
| Ba 389.178 | 126.641                  | 126.423  | 124.137  |
| Be 313.042 | 58.8222                  | 58.6944  | 58.5654  |
| Ca 370.602 | 11959                    | 11989    | 11896    |
| Cd 226.502 | 56.4950                  | 56.0147  | 55.6813  |
| Co 228.615 | 56.0531                  | 56.6230  | 56.3154  |
| Cr 267.716 | 111.886                  | 111.687  | 111.325  |
| Cu 324.754 | 111.927                  | 113.234  | 112.608  |
| Fe 271.441 | 15300.0                  | 15297.0  | 15246.1  |
| K 766.491  | 8661.91                  | 8684.48  | 8645.37  |
| Mg 279.078 | 6584.18                  | 6573.40  | 6561.32  |
| Mn 257.610 | 691.588                  | 691.326  | 688.889  |
| Mo 202.032 | 112.613                  | 112.331  | 112.697  |
| Na 330.237 | 100430x                  | 99984.4x | 99671.3x |
| Ni 231.604 | 112.166                  | 112.741  | 111.442  |
| Pb 220.353 | 53.8547                  | 54.9231  | 56.6432  |
| Sb 206.834 | 54.2606                  | 54.4203  | 56.1587  |
| Se 196.026 | 111.245                  | 118.263  | 114.462  |
| Sn 189.925 | 221.348                  | 217.636  | 224.174  |
| Sr 216.596 | 149.207                  | 148.272  | 147.217  |
| Ti 334.941 | 108.047                  | 108.009  | 107.636  |
| Tl 190.794 | 47.2353                  | 47.5011  | 44.2642  |
| V 292.401  | 111.452                  | 111.458  | 111.438  |
| Zn 206.200 | 115.647                  | 118.083  | 115.878  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 55.2917b    | ppb   | 0.3389  | 0.6  | 3855.21    |
| Al 308.215 | 5643.31b    | ppb   | 8.8615  | 0.2  | 33463.5    |
| As 188.980 | 128.291b    | ppb   | 4.9723  | 3.9  | 71.5824    |
| B 249.678  | 1218.25b    | ppb   | 1.1190  | 0.1  | 16440.1    |
| Ba 389.178 | 125.734b    | ppb   | 1.3869  | 1.1  | 2309.30    |
| Be 313.042 | 58.6940b    | ppb   | 0.1284  | 0.2  | 103339     |
| Ca 370.602 | 11948b      | ppb   | 47.04   | 0.4  | 23336      |
| Cd 226.502 | 56.0637b    | ppb   | 0.4091  | 0.7  | 1910.70    |
| Co 228.615 | 56.3305b    | ppb   | 0.2853  | 0.5  | 637.098    |
| Cr 267.716 | 111.633b    | ppb   | 0.2844  | 0.3  | 5065.95    |
| Cu 324.754 | 112.590b    | ppb   | 0.6537  | 0.6  | 6169.27    |
| Fe 271.441 | 15281.1b    | ppb   | 30.2868 | 0.2  | 23384.7    |
| K 766.491  | 8663.92b    | ppb   | 19.6297 | 0.2  | 281341     |
| Mg 279.078 | 6572.96b    | ppb   | 11.4361 | 0.2  | 13861.8    |
| Mn 257.610 | 690.601b    | ppb   | 1.4881  | 0.2  | 150575     |
| Mo 202.032 | 112.547b    | ppb   | 0.1921  | 0.2  | 745.026    |
| Na 330.237 | 100029xb    | ppb   | 381.419 | 0.4  | 4707.17    |
| Ni 231.604 | 112.116b    | ppb   | 0.6509  | 0.6  | 289.125    |
| Pb 220.353 | 55.1403b    | ppb   | 1.4069  | 2.6  | 105.795    |
| Sb 206.834 | 54.9465b    | ppb   | 1.0528  | 1.9  | 48.1305    |
| Se 196.026 | 114.657b    | ppb   | 3.5132  | 3.1  | 61.2381    |
| Sn 189.925 | 221.052b    | ppb   | 3.2790  | 1.5  | 166.943    |
| Sr 216.596 | 148.232b    | ppb   | 0.9955  | 0.7  | 1564.54    |
| Ti 334.941 | 107.897b    | ppb   | 0.2271  | 0.2  | 27042.4    |
| Tl 190.794 | 46.3336b    | ppb   | 1.7970  | 3.9  | 22.9520    |
| V 292.401  | 111.449b    | ppb   | 0.0101  | 0.0  | 2597.43    |
| Zn 206.200 | 116.536b    | ppb   | 1.3445  | 1.2  | 156.611    |

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**680-90677-a-20-c msd (Samp) 5/29/2013, 4:25:46 AM Rack 4, Tube 7****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 52.6338                  | 53.6434  | 52.8603  |
| Al 308.215 | 5322.33                  | 5415.78  | 5325.92  |
| As 188.980 | 112.328                  | 123.644  | 120.884  |
| B 249.678  | 1159.00                  | 1182.19  | 1166.60  |
| Ba 389.178 | 119.974                  | 120.355  | 117.892  |
| Be 313.042 | 55.5026                  | 56.3341  | 55.3075  |
| Ca 370.602 | 11320                    | 11539    | 11375    |
| Cd 226.502 | 53.0921                  | 54.0721  | 53.3010  |
| Co 228.615 | 53.9361                  | 54.5749  | 52.9931  |
| Cr 267.716 | 105.370                  | 107.609  | 105.472  |
| Cu 324.754 | 106.518                  | 108.511  | 107.870  |
| Fe 271.441 | 14592.9                  | 14852.1  | 14600.2  |
| K 766.491  | 8237.41                  | 8274.25  | 8185.17  |
| Mg 279.078 | 6219.31                  | 6343.27  | 6219.81  |
| Mn 257.610 | 652.161                  | 664.678  | 654.456  |
| Mo 202.032 | 105.302                  | 108.129  | 105.540  |
| Na 330.237 | 95621.5x                 | 96973.7x | 95324.9x |
| Ni 231.604 | 105.901                  | 106.241  | 107.224  |
| Pb 220.353 | 51.7924                  | 52.2067  | 54.4987  |
| Sb 206.834 | 50.9807                  | 53.1145  | 55.5859  |
| Se 196.026 | 105.620                  | 110.489  | 119.046  |
| Sn 189.925 | 205.577                  | 216.601  | 207.046  |
| Sr 216.596 | 140.046                  | 143.119  | 140.964  |
| Ti 334.941 | 101.945                  | 103.649  | 101.629  |
| Tl 190.794 | 48.0083                  | 44.6444  | 44.2908  |
| V 292.401  | 105.140                  | 107.421  | 105.191  |
| Zn 206.200 | 111.108                  | 112.339  | 112.135  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 53.0458b    | ppb   | 0.5297  | 1.0  | 3696.77    |
| Al 308.215 | 5354.68b    | ppb   | 52.9493 | 1.0  | 31761.2    |
| As 188.980 | 118.952b    | ppb   | 5.9004  | 5.0  | 66.0726    |
| B 249.678  | 1169.26b    | ppb   | 11.8200 | 1.0  | 15783.3    |
| Ba 389.178 | 119.407b    | ppb   | 1.3259  | 1.1  | 2192.79    |
| Be 313.042 | 55.7147b    | ppb   | 0.5452  | 1.0  | 98081.1    |
| Ca 370.602 | 11411b      | ppb   | 113.6   | 1.0  | 22282      |
| Cd 226.502 | 53.4884b    | ppb   | 0.5161  | 1.0  | 1824.06    |
| Co 228.615 | 53.8347b    | ppb   | 0.7958  | 1.5  | 609.049    |
| Cr 267.716 | 106.150b    | ppb   | 1.2641  | 1.2  | 4817.50    |
| Cu 324.754 | 107.633b    | ppb   | 1.0172  | 0.9  | 5904.50    |
| Fe 271.441 | 14681.7b    | ppb   | 147.566 | 1.0  | 22468.3    |
| K 766.491  | 8232.27b    | ppb   | 44.7626 | 0.5  | 267339     |
| Mg 279.078 | 6260.80b    | ppb   | 71.4231 | 1.1  | 13205.1    |
| Mn 257.610 | 657.098b    | ppb   | 6.6636  | 1.0  | 143272     |
| Mo 202.032 | 106.324b    | ppb   | 1.5683  | 1.5  | 704.316    |
| Na 330.237 | 95973.4xb   | ppb   | 878.889 | 0.9  | 4518.19    |
| Ni 231.604 | 106.455b    | ppb   | 0.6869  | 0.6  | 274.430    |
| Pb 220.353 | 52.8326b    | ppb   | 1.4577  | 2.8  | 102.337    |
| Sb 206.834 | 53.2270b    | ppb   | 2.3047  | 4.3  | 46.4747    |
| Se 196.026 | 111.719b    | ppb   | 6.7967  | 6.1  | 59.8485    |
| Sn 189.925 | 209.741b    | ppb   | 5.9858  | 2.9  | 157.743    |
| Sr 216.596 | 141.376b    | ppb   | 1.5773  | 1.1  | 1493.14    |
| Ti 334.941 | 102.408b    | ppb   | 1.0864  | 1.1  | 25663.7    |
| Tl 190.794 | 45.6479b    | ppb   | 2.0519  | 4.5  | 22.4318    |
| V 292.401  | 105.917b    | ppb   | 1.3028  | 1.2  | 2467.82    |
| Zn 206.200 | 111.861b    | ppb   | 0.6599  | 0.6  | 519.542    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

mb 680-278227/1-a (Samp) 5/29/2013, 4:30:24 AM Rack 4, Tube 8

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | 0.4771                   | 0.1359   | 0.4192    |
| Al 308.215 | 6.2116                   | 9.4641   | 6.1037    |
| As 188.980 | 1.4283                   | 1.6556   | -0.6640u  |
| B 249.678  | 41.9785                  | 39.1227  | 36.9514   |
| Ba 389.178 | -0.9000u                 | -1.2964u | -0.9080u  |
| Be 313.042 | -0.0010u                 | -0.0039u | -0.0079u  |
| Ca 370.602 | -8.318u                  | -0.8466u | -6.951u   |
| Cd 226.502 | 0.1183                   | 0.0394   | -0.0141u  |
| Co 228.615 | 1.0769                   | 0.3892   | 0.2245    |
| Cr 267.716 | -0.0402u                 | 0.0361   | -0.0125u  |
| Cu 324.754 | 0.1757                   | 0.3838   | 0.9131    |
| Fe 271.441 | 1.2169                   | 1.9401   | -3.3097u  |
| K 766.491  | 1.5212                   | 1.6093   | 0.4402    |
| Mg 279.078 | -2.9813u                 | 2.5129   | 1.3515    |
| Mn 257.610 | 0.0583                   | 0.0664   | 0.0732    |
| Mo 202.032 | 0.2229                   | -0.7307u | -0.4392u  |
| Na 330.237 | -194.572u                | 2.8434   | -19.4764u |
| Ni 231.604 | 0.1137                   | 0.3368   | 2.2854    |
| Pb 220.353 | -1.4739u                 | 0.2558   | -3.1207u  |
| Sb 206.834 | 2.0957                   | 1.7985   | 6.0906    |
| Se 196.026 | -8.5105u                 | -3.0641u | 5.4919    |
| Sn 189.925 | -1.0121u                 | -3.1609u | -3.0875u  |
| Sr 216.596 | -0.2211u                 | -0.3106u | -0.2457u  |
| Ti 334.941 | 0.0556                   | 0.0508   | -0.0109u  |
| Tl 190.794 | 4.2302                   | 3.2975   | 1.5702    |
| V 292.401  | 0.0299                   | 0.2330   | 0.5362    |
| Zn 206.200 | -0.2308u                 | 0.3375   | 0.2357    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.3441      | ppb   | 0.1826  | 53.1   | -21.0647   |
| Al 308.215 | 7.2598      | ppb   | 1.9098  | 26.3   | 226.373    |
| As 188.980 | 0.8066      | ppb   | 1.2787  | 158.5  | -3.5697    |
| B 249.678  | 39.3508     | ppb   | 2.5213  | 6.4    | 634.763    |
| Ba 389.178 | -1.0348     | ppb   | 0.2266  | 21.9   | -29.2505   |
| Be 313.042 | -0.0043     | ppb   | 0.0034  | 80.4   | -253.758   |
| Ca 370.602 | -5.372      | ppb   | 3.978   | 74.1   | -22.49     |
| Cd 226.502 | 0.0478      | ppb   | 0.0666  | 139.2  | 20.3744    |
| Co 228.615 | 0.5635      | ppb   | 0.4521  | 80.2   | 9.9215     |
| Cr 267.716 | -0.0055     | ppb   | 0.0386  | 697.0  | 6.0186     |
| Cu 324.754 | 0.4909      | ppb   | 0.3802  | 77.5   | 181.636    |
| Fe 271.441 | -0.0509     | ppb   | 2.8453  | 5591.3 | 19.8872    |
| K 766.491  | 1.1902      | ppb   | 0.6510  | 54.7   | 334.885    |
| Mg 279.078 | 0.2944      | ppb   | 2.8957  | 983.6  | 33.5399    |
| Mn 257.610 | 0.0660      | ppb   | 0.0075  | 11.3   | 43.5674    |
| Mo 202.032 | -0.3156     | ppb   | 0.4887  | 154.8  | 6.9421     |
| Na 330.237 | -70.4016    | ppb   | 108.112 | 153.6  | 42.6169    |
| Ni 231.604 | 0.9120      | ppb   | 1.1946  | 131.0  | 0.4069     |
| Pb 220.353 | -1.4463     | ppb   | 1.6884  | 116.7  | 20.9038    |
| Sb 206.834 | 3.3283      | ppb   | 2.3969  | 72.0   | -1.7183    |
| Se 196.026 | -2.0276     | ppb   | 7.0585  | 348.1  | 6.2249     |
| Sn 189.925 | -2.4201     | ppb   | 1.2200  | 50.4   | -14.8171   |
| Sr 216.596 | -0.2591     | ppb   | 0.0463  | 17.9   | 15.5846    |
| Ti 334.941 | 0.0318      | ppb   | 0.0371  | 116.5  | -48.3387   |
| Tl 190.794 | 3.0327      | ppb   | 1.3496  | 44.5   | -11.3746   |
| V 292.401  | 0.2664      | ppb   | 0.2548  | 95.6   | -9.0940    |
| Zn 206.200 | 0.1141      | ppb   | 0.3930  | 365.5  | 5.4146     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

ics 680-278227/2-a (Samp) 5/29/2013, 4:35:02 AM Rack 4, Tube 9

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 53.2445                  | 53.0361 | 53.4128 |
| Al 308.215 | 5048.94                  | 5098.76 | 5094.67 |
| As 188.980 | 109.530                  | 109.421 | 110.320 |
| B 249.678  | 227.229                  | 229.776 | 229.809 |
| Ba 389.178 | 96.3837                  | 98.3503 | 97.3867 |
| Be 313.042 | 52.0069                  | 52.5145 | 52.5054 |
| Ca 370.602 | 4831                     | 4859    | 4867    |
| Cd 226.502 | 51.6542                  | 52.2105 | 52.2219 |
| Co 228.615 | 52.0471                  | 52.8699 | 52.1680 |
| Cr 267.716 | 102.448                  | 103.207 | 103.663 |
| Cu 324.754 | 101.881                  | 103.095 | 104.180 |
| Fe 271.441 | 4990.86                  | 5060.47 | 5065.44 |
| K 766.491  | 5291.71                  | 5330.80 | 5334.52 |
| Mg 279.078 | 5153.94                  | 5188.44 | 5191.05 |
| Mn 257.610 | 526.303                  | 532.144 | 531.287 |
| Mo 202.032 | 102.070                  | 103.410 | 102.016 |
| Na 330.237 | 4869.58                  | 4867.07 | 5065.74 |
| Ni 231.604 | 100.637                  | 104.116 | 104.960 |
| Pb 220.353 | 51.3161                  | 54.6197 | 50.0784 |
| Sb 206.834 | 48.4487                  | 53.0210 | 57.0256 |
| Se 196.026 | 105.177                  | 100.783 | 102.417 |
| Sn 189.925 | 205.933                  | 204.269 | 204.209 |
| Sr 216.596 | 99.4508                  | 100.673 | 101.342 |
| Ti 334.941 | 98.6181                  | 99.6141 | 99.6929 |
| Tl 190.794 | 43.3147                  | 42.5731 | 46.2300 |
| V 292.401  | 101.937                  | 102.456 | 102.260 |
| Zn 206.200 | 101.200                  | 102.194 | 103.613 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 53.2311     | ppb   | 0.1887  | 0.4  | 3711.05    |
| Al 308.215 | 5080.79     | ppb   | 27.6566 | 0.5  | 30145.8    |
| As 188.980 | 109.757     | ppb   | 0.4904  | 0.4  | 60.7321    |
| B 249.678  | 228.938     | ppb   | 1.4799  | 0.6  | 3171.70    |
| Ba 389.178 | 97.3736     | ppb   | 0.9833  | 1.0  | 1778.74    |
| Be 313.042 | 52.3423     | ppb   | 0.2905  | 0.6  | 92136.4    |
| Ca 370.602 | 4853        | ppb   | 18.72   | 0.4  | 9554       |
| Cd 226.502 | 52.0289     | ppb   | 0.3245  | 0.6  | 1751.64    |
| Co 228.615 | 52.3617     | ppb   | 0.4443  | 0.8  | 592.187    |
| Cr 267.716 | 103.106     | ppb   | 0.6139  | 0.6  | 4675.58    |
| Cu 324.754 | 103.052     | ppb   | 1.1500  | 1.1  | 5656.97    |
| Fe 271.441 | 5038.92     | ppb   | 41.6995 | 0.8  | 7728.95    |
| K 766.491  | 5319.01     | ppb   | 23.7164 | 0.4  | 172837     |
| Mg 279.078 | 5177.81     | ppb   | 20.7134 | 0.4  | 10925.3    |
| Mn 257.610 | 529.911     | ppb   | 3.1544  | 0.6  | 115530     |
| Mo 202.032 | 102.499     | ppb   | 0.7894  | 0.8  | 679.715    |
| Na 330.237 | 4934.13     | ppb   | 113.985 | 2.3  | 273.057    |
| Ni 231.604 | 103.238     | ppb   | 2.2914  | 2.2  | 265.886    |
| Pb 220.353 | 52.0047     | ppb   | 2.3476  | 4.5  | 100.483    |
| Sb 206.834 | 52.8318     | ppb   | 4.2916  | 8.1  | 45.8786    |
| Se 196.026 | 102.792     | ppb   | 2.2211  | 2.2  | 55.5950    |
| Sn 189.925 | 204.804     | ppb   | 0.9787  | 0.5  | 153.694    |
| Sr 216.596 | 100.488     | ppb   | 0.9588  | 1.0  | 1060.87    |
| Ti 334.941 | 99.3083     | ppb   | 0.5991  | 0.6  | 24886.8    |
| Tl 190.794 | 44.0392     | ppb   | 1.9331  | 4.4  | 21.6717    |
| V 292.401  | 102.218     | ppb   | 0.2616  | 0.3  | 2381.65    |
| Zn 206.200 | 102.336     | ppb   | 1.2129  | 1.2  | 138.077    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90599-c-26-c (Samp) 5/29/2013, 4:39:39 AM Rack 4, Tube 10

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.0672u                 | 0.2910    | 0.2882    |
| Al 308.215 | 5.0700                   | 5.9684    | 7.8462    |
| As 188.980 | -5.5004u                 | -3.3607u  | -1.7642u  |
| B 249.678  | 14.5328                  | 13.8334   | 12.7332   |
| Ba 389.178 | -0.9992u                 | -1.3780u  | -0.1881u  |
| Be 313.042 | 0.0030                   | -0.0006u  | 0.0068    |
| Ca 370.602 | 3.845                    | 6.321     | 8.536     |
| Cd 226.502 | -0.0065u                 | -0.0270u  | 0.1308    |
| Co 228.615 | 0.3033                   | 0.2973    | 1.3817    |
| Cr 267.716 | -0.0525u                 | 0.1030    | -0.0600u  |
| Cu 324.754 | -0.0649u                 | 0.5889    | 0.3032    |
| Fe 271.441 | 0.9561                   | -4.1791u  | 1.8622    |
| K 766.491  | 3.5128                   | 3.6044    | 3.9183    |
| Mg 279.078 | 2.2972                   | -2.4585u  | -1.8877u  |
| Mn 257.610 | 0.5100                   | 0.5487    | 0.5411    |
| Mo 202.032 | 0.3801                   | -0.4968u  | 0.6256    |
| Na 330.237 | -12.0115u                | -51.8317u | -125.812u |
| Ni 231.604 | 1.0358                   | 0.3247    | 0.4495    |
| Pb 220.353 | 0.6471                   | -1.9758u  | -5.1064u  |
| Sb 206.834 | 3.6988                   | -0.0267u  | 5.8656    |
| Se 196.026 | -4.2251u                 | -11.5405u | -0.0376u  |
| Sn 189.925 | -1.7592u                 | -0.9887u  | -1.3529u  |
| Sr 216.596 | -0.2416u                 | -0.9816u  | -0.4860u  |
| Ti 334.941 | 0.0437                   | 0.0428    | 0.0461    |
| Tl 190.794 | 4.7060                   | 3.1594    | -0.3115u  |
| V 292.401  | 0.3179                   | 0.3039    | -0.0913u  |
| Zn 206.200 | 0.1338                   | 2.2016    | 1.8531    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1706      | ppb   | 0.2060  | 120.7  | -33.2842   |
| Al 308.215 | 6.2949      | ppb   | 1.4166  | 22.5   | 220.718    |
| As 188.980 | -3.5418     | ppb   | 1.8746  | 52.9   | -6.1373    |
| B 249.678  | 13.6998     | ppb   | 0.9072  | 6.6    | 290.240    |
| Ba 389.178 | -0.8551     | ppb   | 0.6079  | 71.1   | -25.9805   |
| Be 313.042 | 0.0031      | ppb   | 0.0037  | 118.9  | -240.824   |
| Ca 370.602 | 6.234       | ppb   | 2.347   | 37.6   | 0.8987     |
| Cd 226.502 | 0.0324      | ppb   | 0.0858  | 264.6  | 19.8642    |
| Co 228.615 | 0.6608      | ppb   | 0.6244  | 94.5   | 11.0018    |
| Cr 267.716 | -0.0031     | ppb   | 0.0920  | 2926.6 | 6.1312     |
| Cu 324.754 | 0.2757      | ppb   | 0.3278  | 118.9  | 170.173    |
| Fe 271.441 | -0.4536     | ppb   | 3.2580  | 718.3  | 19.2825    |
| K 766.491  | 3.6785      | ppb   | 0.2127  | 5.8    | 415.601    |
| Mg 279.078 | -0.6830     | ppb   | 2.5966  | 380.2  | 31.4750    |
| Mn 257.610 | 0.5333      | ppb   | 0.0205  | 3.8    | 145.365    |
| Mo 202.032 | 0.1696      | ppb   | 0.5900  | 347.9  | 10.1194    |
| Na 330.237 | -63.2183    | ppb   | 57.7484 | 91.3   | 42.9333    |
| Ni 231.604 | 0.6034      | ppb   | 0.3797  | 62.9   | -0.3940    |
| Pb 220.353 | -2.1451     | ppb   | 2.8805  | 134.3  | 19.8650    |
| Sb 206.834 | 3.1792      | ppb   | 2.9803  | 93.7   | -1.8665    |
| Se 196.026 | -5.2677     | ppb   | 5.8219  | 110.5  | 4.7032     |
| Sn 189.925 | -1.3669     | ppb   | 0.3854  | 28.2   | -13.9606   |
| Sr 216.596 | -0.5697     | ppb   | 0.3770  | 66.2   | 12.3648    |
| Ti 334.941 | 0.0442      | ppb   | 0.0017  | 3.8    | -45.2458   |
| Tl 190.794 | 2.5180      | ppb   | 2.5695  | 102.0  | -11.7938   |
| V 292.401  | 0.1769      | ppb   | 0.2323  | 131.4  | -11.2803   |
| Zn 206.200 | 1.3962      | ppb   | 1.1070  | 79.3   | 517.0820   |

680-90624-b-1-b (Samp) 5/29/2013, 4:44:17 AM Rack 4, Tube 11

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0244u                 | -0.1235u | -0.0276u |
| Al 308.215 | 91.0034                  | 89.4383  | 88.2049  |
| As 188.980 | 1.3247                   | -6.5816u | -2.4820u |
| B 249.678  | 43.5513                  | 43.7230  | 42.8437  |
| Ba 389.178 | 35.8173                  | 36.2074  | 34.2020  |
| Be 313.042 | 0.0041                   | 0.0083   | 0.0021   |
| Ca 370.602 | 40215                    | 40189    | 39791    |
| Cd 226.502 | 0.1574                   | 0.1333   | 0.1568   |
| Co 228.615 | 5.6296                   | 6.7406   | 6.5862   |
| Cr 267.716 | -0.1678u                 | -0.1122  | 0.0044   |
| Cu 324.754 | 1.2469                   | 1.5911   | 1.6899   |
| Fe 271.441 | 221.116                  | 219.950  | 220.146  |
| K 766.491  | 4042.35                  | 4038.68  | 4021.60  |
| Mg 279.078 | 4376.51                  | 4377.52  | 4355.65  |
| Mn 257.610 | 1457.95                  | 1457.55  | 1448.87  |
| Mo 202.032 | 0.7133                   | 0.0615   | 0.0615   |
| Na 330.237 | 8884.84                  | 8911.68  | 8783.70  |
| Ni 231.604 | 19.1313                  | 19.8074  | 18.6045  |
| Pb 220.353 | -2.3150u                 | -1.5786u | -2.8028u |
| Sb 206.834 | 4.2864                   | 1.3632   | 1.8095   |
| Se 196.026 | -1.8694u                 | 2.6213   | -3.7083u |
| Sn 189.925 | -5.3360u                 | -2.0805u | -1.0489u |
| Sr 216.596 | 119.425                  | 116.995  | 116.292  |
| Ti 334.941 | 2.6237                   | 2.7556   | 2.6251   |
| Tl 190.794 | -1.4782u                 | 4.4463   | 4.3478   |
| V 292.401  | 0.5416                   | 0.3297   | 0.0403   |
| Zn 206.200 | 209.092                  | 205.250  | 205.769  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.0585     | ppb   | 0.0563  | 96.3  | -48.3019   |
| Al 308.215 | 89.5489     | ppb   | 1.4025  | 1.6   | 711.651    |
| As 188.980 | -2.5797     | ppb   | 3.9541  | 153.3 | -5.5705    |
| B 249.678  | 43.3727     | ppb   | 0.4661  | 1.1   | 688.379    |
| Ba 389.178 | 35.4089     | ppb   | 1.0633  | 3.0   | 643.238    |
| Be 313.042 | 0.0048      | ppb   | 0.0031  | 65.3  | -226.061   |
| Ca 370.602 | 40065       | ppb   | 237.8   | 0.6   | 80720      |
| Cd 226.502 | 0.1492      | ppb   | 0.0137  | 9.2   | 24.2894    |
| Co 228.615 | 6.3188      | ppb   | 0.6018  | 9.5   | 74.6986    |
| Cr 267.716 | -0.0919     | ppb   | 0.0879  | 95.7  | 8.2302     |
| Cu 324.754 | 1.5093      | ppb   | 0.2325  | 15.4  | 236.058    |
| Fe 271.441 | 220.404     | ppb   | 0.6242  | 0.3   | 357.520    |
| K 766.491  | 4034.21     | ppb   | 11.0763 | 0.3   | 131160     |
| Mg 279.078 | 4369.89     | ppb   | 12.3454 | 0.3   | 9210.13    |
| Mn 257.610 | 1454.79     | ppb   | 5.1285  | 0.4   | 317009     |
| Mo 202.032 | 0.2788      | ppb   | 0.3763  | 135.0 | 10.8240    |
| Na 330.237 | 8860.08     | ppb   | 67.4885 | 0.8   | 456.462    |
| Ni 231.604 | 19.1811     | ppb   | 0.6030  | 3.1   | 47.7985    |
| Pb 220.353 | -2.2322     | ppb   | 0.6163  | 27.6  | 20.0257    |
| Sb 206.834 | 2.4864      | ppb   | 1.5748  | 63.3  | -2.5270    |
| Se 196.026 | -0.9855     | ppb   | 3.2561  | 330.4 | 7.0564     |
| Sn 189.925 | -2.8218     | ppb   | 2.2377  | 79.3  | -15.1237   |
| Sr 216.596 | 117.571     | ppb   | 1.6441  | 1.4   | 1239.88    |
| Ti 334.941 | 2.6681      | ppb   | 0.0757  | 2.8   | 630.186    |
| Tl 190.794 | 2.4386      | ppb   | 3.3924  | 139.1 | -12.4077   |
| V 292.401  | 0.3038      | ppb   | 0.2517  | 82.8  | -8.2755    |
| Zn 206.200 | 206.704     | ppb   | 2.0851  | 1.0   | 274.102    |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90624-b-2-b (Samp) 5/29/2013, 4:48:55 AM Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0093                   | 0.0607   | 0.4749   |
| Al 308.215 | 68.3291                  | 66.6550  | 66.9406  |
| As 188.980 | 0.0484                   | 1.2016   | -1.0157u |
| B 249.678  | 28.1536                  | 28.8634  | 28.5703  |
| Ba 389.178 | 35.6019                  | 36.1196  | 34.8772  |
| Be 313.042 | 0.0118                   | 0.0170   | 0.0195   |
| Ca 370.602 | 23264                    | 23434    | 23618    |
| Cd 226.502 | -0.0498u                 | 0.2619   | -0.3304u |
| Co 228.615 | 2.5082                   | 1.9285   | 2.5815   |
| Cr 267.716 | 0.4908                   | 0.5424   | 0.3315   |
| Cu 324.754 | 0.6488                   | 1.0614   | 1.6011   |
| Fe 271.441 | 14.6965                  | 11.8167  | 16.9349  |
| K 766.491  | 1677.99                  | 1678.60  | 1694.61  |
| Mg 279.078 | 3670.94                  | 3693.83  | 3720.65  |
| Mn 257.610 | 457.355                  | 458.497  | 461.947  |
| Mo 202.032 | 0.2414                   | 0.0187   | 0.0739   |
| Na 330.237 | 11143.5                  | 11329.5  | 11317.1  |
| Ni 231.604 | 3.7072                   | 2.3150   | 3.1919   |
| Pb 220.353 | -4.1357u                 | -4.2899u | -1.9513u |
| Sb 206.834 | -1.3233u                 | 4.2018   | 0.5649   |
| Se 196.026 | 2.4159                   | -3.5341u | 11.1066  |
| Sn 189.925 | 1.2690                   | -3.5690u | -3.9058u |
| Sr 216.596 | 26.8707                  | 26.5365  | 26.8716  |
| Ti 334.941 | 0.0292                   | 0.0027   | 0.1061   |
| Tl 190.794 | 1.3399                   | 2.7905   | 4.2136   |
| V 292.401  | 0.1278                   | 0.1995   | -0.1816u |
| Zn 206.200 | 2.1374                   | 4.2629   | 3.2681   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1816      | ppb   | 0.2553  | 140.5  | -31.7798   |
| Al 308.215 | 67.3082     | ppb   | 0.8956  | 1.3    | 580.633    |
| As 188.980 | 0.0781      | ppb   | 1.1090  | 1419.5 | -3.9995    |
| B 249.678  | 28.5291     | ppb   | 0.3567  | 1.3    | 489.393    |
| Ba 389.178 | 35.5329     | ppb   | 0.6241  | 1.8    | 643.895    |
| Be 313.042 | 0.0161      | ppb   | 0.0039  | 24.5   | -211.522   |
| Ca 370.602 | 23439       | ppb   | 177.0   | 0.8    | 47216      |
| Cd 226.502 | -0.0394     | ppb   | 0.2963  | 751.0  | 17.5089    |
| Co 228.615 | 2.3394      | ppb   | 0.3578  | 15.3   | 29.8863    |
| Cr 267.716 | 0.4549      | ppb   | 0.1100  | 24.2   | 28.9236    |
| Cu 324.754 | 1.1038      | ppb   | 0.4776  | 43.3   | 214.354    |
| Fe 271.441 | 14.4827     | ppb   | 2.5658  | 17.7   | 42.3062    |
| K 766.491  | 1683.73     | ppb   | 9.4278  | 0.6    | 54914.0    |
| Mg 279.078 | 3695.14     | ppb   | 24.8806 | 0.7    | 7805.38    |
| Mn 257.610 | 459.266     | ppb   | 2.3903  | 0.5    | 100115     |
| Mo 202.032 | 0.1113      | ppb   | 0.1160  | 104.2  | 9.7375     |
| Na 330.237 | 11263.4     | ppb   | 103.988 | 0.9    | 571.407    |
| Ni 231.604 | 3.0714      | ppb   | 0.7039  | 22.9   | 6.0061     |
| Pb 220.353 | -3.4590     | ppb   | 1.3080  | 37.8   | 18.0006    |
| Sb 206.834 | 1.1478      | ppb   | 2.8083  | 244.7  | -3.8077    |
| Se 196.026 | 3.3295      | ppb   | 7.3630  | 221.1  | 8.8486     |
| Sn 189.925 | -2.0686     | ppb   | 2.8954  | 140.0  | -14.5174   |
| Sr 216.596 | 26.7596     | ppb   | 0.1932  | 0.7    | 297.762    |
| Ti 334.941 | 0.0460      | ppb   | 0.0537  | 116.7  | -30.7350   |
| Tl 190.794 | 2.7813      | ppb   | 1.4369  | 51.7   | -11.7501   |
| V 292.401  | 0.0486      | ppb   | 0.2025  | 417.1  | -14.3634   |
| Zn 206.200 | 3.2228      | ppb   | 1.0634  | 284.8  | 9.4561     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90624-b-3-b (Samp) 5/29/2013, 5:02:48 AM Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2349u                 | -0.5978u | -0.6094u |
| Al 308.215 | 590.751                  | 592.386  | 589.144  |
| As 188.980 | -2.8940u                 | 1.3293   | 1.1942   |
| B 249.678  | 44.1337                  | 43.5993  | 43.2559  |
| Ba 389.178 | 28.4095                  | 27.1271  | 28.7494  |
| Be 313.042 | 0.1224                   | 0.1164   | 0.1271   |
| Ca 370.602 | 15689                    | 15706    | 15642    |
| Cd 226.502 | 0.2623                   | 0.1163   | 0.0193   |
| Co 228.615 | 30.3647                  | 30.4824  | 30.9279  |
| Cr 267.716 | 0.3596                   | 0.1810   | 0.2215   |
| Cu 324.754 | 2.5320                   | 2.1677   | 2.2388   |
| Fe 271.441 | 68.4916                  | 70.0322  | 67.0552  |
| K 766.491  | 1151.23                  | 1159.45  | 1163.90  |
| Mg 279.078 | 1832.82                  | 1831.85  | 1834.09  |
| Mn 257.610 | 144.245                  | 144.323  | 144.618  |
| Mo 202.032 | -0.1477u                 | -0.0803u | 0.2337   |
| Na 330.237 | 9183.03                  | 9134.65  | 9375.96  |
| Ni 231.604 | 3.1393                   | 3.2670   | 3.4780   |
| Pb 220.353 | 2.5925                   | -2.2929u | 3.1647   |
| Sb 206.834 | 3.8853                   | 1.9121   | -1.5733u |
| Se 196.026 | -1.8601u                 | -1.4407u | -2.5934u |
| Sn 189.925 | 1.9796                   | -0.2525u | 2.3134   |
| Sr 216.596 | 16.3811                  | 17.2872  | 17.2519  |
| Ti 334.941 | 3.1729                   | 3.2647   | 3.3179   |
| Tl 190.794 | 0.8878                   | 2.7064   | 4.2348   |
| V 292.401  | 0.1818                   | 0.1052   | -0.3580u |
| Zn 206.200 | 14.2100                  | 14.2102  | 13.1496  |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.4807     | ppb   | 0.2129  | 44.3    | -79.4336   |
| Al 308.215 | 590.760     | ppb   | 1.6213  | 0.3     | 3667.75    |
| As 188.980 | -0.1235     | ppb   | 2.4003  | 1943.6  | -4.1142    |
| B 249.678  | 43.6630     | ppb   | 0.4424  | 1.0     | 692.549    |
| Ba 389.178 | 28.0954     | ppb   | 0.8555  | 3.0     | 504.788    |
| Be 313.042 | 0.1220      | ppb   | 0.0053  | 4.4     | -26.7959   |
| Ca 370.602 | 15679       | ppb   | 33.01   | 0.2     | 31575      |
| Cd 226.502 | 0.1326      | ppb   | 0.1224  | 92.3    | 23.3332    |
| Co 228.615 | 30.5917     | ppb   | 0.2971  | 1.0     | 347.679    |
| Cr 267.716 | 0.2540      | ppb   | 0.0937  | 36.9    | 18.5391    |
| Cu 324.754 | 2.3128      | ppb   | 0.1931  | 8.3     | 278.875    |
| Fe 271.441 | 68.5263     | ppb   | 1.4888  | 2.2     | 128.170    |
| K 766.491  | 1158.19     | ppb   | 6.4289  | 0.6     | 37866.4    |
| Mg 279.078 | 1832.92     | ppb   | 1.1211  | 0.1     | 3889.52    |
| Mn 257.610 | 144.395     | ppb   | 0.1966  | 0.1     | 31501.9    |
| Mo 202.032 | 0.0019      | ppb   | 0.2036  | 10541.1 | 9.0187     |
| Na 330.237 | 9231.21     | ppb   | 127.664 | 1.4     | 476.416    |
| Ni 231.604 | 3.2948      | ppb   | 0.1710  | 5.2     | 6.5285     |
| Pb 220.353 | 1.1548      | ppb   | 2.9995  | 259.7   | 24.7810    |
| Sb 206.834 | 1.4080      | ppb   | 2.7640  | 196.3   | -3.5563    |
| Se 196.026 | -1.9647     | ppb   | 0.5835  | 29.7    | 6.2885     |
| Sn 189.925 | 1.3468      | ppb   | 1.3951  | 103.6   | -11.7440   |
| Sr 216.596 | 16.9734     | ppb   | 0.5132  | 3.0     | 195.666    |
| Ti 334.941 | 3.2518      | ppb   | 0.0734  | 2.3     | 766.481    |
| Tl 190.794 | 2.6096      | ppb   | 1.6756  | 64.2    | -11.7062   |
| V 292.401  | -0.0237     | ppb   | 0.2921  | 1234.5  | -16.0094   |
| Zn 206.200 | 13.8566     | ppb   | 0.6123  | 4.4     | 23.2875    |

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680-90624-b-4-d (Samp) 5/29/2013, 5:07:37 AM Rack 4, Tube 16

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.6491u                 | -2.7096u | -2.4965u |
| Al 308.215 | 1391.77                  | 1426.18  | 1375.64  |
| As 188.980 | 3.0572                   | 1.3942   | -3.2071u |
| B 249.678  | 55.1700                  | 55.8494  | 54.2227  |
| Ba 389.178 | 30.2588                  | 31.2343  | 30.0936  |
| Be 313.042 | 0.2402                   | 0.2467   | 0.2411   |
| Ca 370.602 | 80514                    | 82528    | 79651    |
| Cd 226.502 | 0.3121                   | 0.2931   | 0.1198   |
| Co 228.615 | 35.3071                  | 35.6356  | 35.2231  |
| Cr 267.716 | 0.1685                   | 0.0830   | 0.2188   |
| Cu 324.754 | 4.3572                   | 4.0977   | 4.0805   |
| Fe 271.441 | 332.513                  | 343.473  | 337.378  |
| K 766.491  | 1276.39                  | 1293.59  | 1270.50  |
| Mg 279.078 | 4968.44                  | 5098.54  | 4937.66  |
| Mn 257.610 | 723.391                  | 740.311  | 715.946  |
| Mo 202.032 | -0.5252u                 | 0.5572   | 0.5390   |
| Na 330.237 | 4919.29                  | 4944.13  | 4805.46  |
| Ni 231.604 | 2.8364                   | 4.0933   | 3.5075   |
| Pb 220.353 | 2.2915                   | -0.4621u | -1.1980u |
| Sb 206.834 | -1.3660u                 | -0.8813u | 5.2881   |
| Se 196.026 | -2.0118u                 | 4.5395   | -4.3805u |
| Sn 189.925 | -1.4888u                 | -2.7697u | 4.1423   |
| Sr 216.596 | 74.4753                  | 76.4962  | 74.5828  |
| Ti 334.941 | 7.2809                   | 7.4227   | 7.1818   |
| Tl 190.794 | 2.5566                   | 8.9385   | 4.5568   |
| V 292.401  | 0.0534                   | 0.0037   | -0.1600u |
| Zn 206.200 | 4.9476                   | 5.9392   | 4.3350   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -2.6184     | ppb   | 0.1098  | 4.2    | -230.474   |
| Al 308.215 | 1397.86     | ppb   | 25.8169 | 1.8    | 8429.33    |
| As 188.980 | 0.4147      | ppb   | 3.2450  | 782.4  | -3.7915    |
| B 249.678  | 55.0807     | ppb   | 0.8170  | 1.5    | 845.407    |
| Ba 389.178 | 30.5289     | ppb   | 0.6165  | 2.0    | 555.817    |
| Be 313.042 | 0.2427      | ppb   | 0.0035  | 1.4    | 208.494    |
| Ca 370.602 | 80898       | ppb   | 1476    | 1.8    | 162967     |
| Cd 226.502 | 0.2417      | ppb   | 0.1060  | 43.9   | 27.6690    |
| Co 228.615 | 35.3886     | ppb   | 0.2180  | 0.6    | 401.719    |
| Cr 267.716 | 0.1568      | ppb   | 0.0686  | 43.8   | 16.5058    |
| Cu 324.754 | 4.1784      | ppb   | 0.1550  | 3.7    | 378.498    |
| Fe 271.441 | 337.788     | ppb   | 5.4917  | 1.6    | 540.296    |
| K 766.491  | 1280.16     | ppb   | 11.9952 | 0.9    | 41822.7    |
| Mg 279.078 | 5001.55     | ppb   | 85.3998 | 1.7    | 10551.3    |
| Mn 257.610 | 726.549     | ppb   | 12.4857 | 1.7    | 158357     |
| Mo 202.032 | 0.1903      | ppb   | 0.6197  | 325.6  | 10.2402    |
| Na 330.237 | 4889.63     | ppb   | 73.9401 | 1.5    | 273.870    |
| Ni 231.604 | 3.4791      | ppb   | 0.6289  | 18.1   | 7.0024     |
| Pb 220.353 | 0.2104      | ppb   | 1.8394  | 874.0  | 23.4904    |
| Sb 206.834 | 1.0136      | ppb   | 3.7098  | 366.0  | -3.9306    |
| Se 196.026 | -0.6176     | ppb   | 4.6206  | 748.2  | 7.0587     |
| Sn 189.925 | -0.0387     | ppb   | 3.6771  | 9490.7 | -12.8445   |
| Sr 216.596 | 75.1848     | ppb   | 1.1370  | 1.5    | 805.414    |
| Ti 334.941 | 7.2951      | ppb   | 0.1211  | 1.7    | 1794.22    |
| Tl 190.794 | 5.3506      | ppb   | 3.2641  | 61.0   | -9.6980    |
| V 292.401  | -0.0343     | ppb   | 0.1116  | 325.4  | -16.1730   |
| Zn 206.200 | 5.0739      | ppb   | 0.8995  | 16.0   | 5138674    |

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**680-90624-b-4-dSD^5 (Samp) 5/29/2013, 5:12:16 AM Rack 4, Tube 17****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.7747u                 | -0.3341u | -0.4393u |
| Al 308.215 | 299.773                  | 287.240  | 287.558  |
| As 188.980 | 1.6251                   | 1.5567   | -7.9055u |
| B 249.678  | 14.7663                  | 14.5821  | 14.8378  |
| Ba 389.178 | 5.4321                   | 4.8813   | 5.7038   |
| Be 313.042 | 0.0467                   | 0.0505   | 0.0463   |
| Ca 370.602 | 16945                    | 16407    | 16395    |
| Cd 226.502 | 0.1188                   | -0.0181u | -0.0960u |
| Co 228.615 | 6.7140                   | 7.1014   | 7.3397   |
| Cr 267.716 | -0.0597u                 | 0.0999   | -0.0049  |
| Cu 324.754 | 0.6440                   | 1.0013   | 1.3033   |
| Fe 271.441 | 63.8749                  | 64.3009  | 73.2001  |
| K 766.491  | 242.098                  | 237.283  | 237.268  |
| Mg 279.078 | 1063.86                  | 1031.10  | 1037.11  |
| Mn 257.610 | 153.746                  | 149.581  | 149.779  |
| Mo 202.032 | -0.5101u                 | -0.0695u | 0.0664   |
| Na 330.237 | 996.951                  | 937.747  | 1150.42  |
| Ni 231.604 | 0.5441                   | 1.2374   | 2.5083   |
| Pb 220.353 | 0.5379                   | -3.3909u | -3.0527u |
| Sb 206.834 | 1.9636                   | 4.2438   | 0.9456   |
| Se 196.026 | 0.8523                   | 3.2493   | -3.7795u |
| Sn 189.925 | -2.2268u                 | 1.7536   | 2.3143   |
| Sr 216.596 | 15.3496                  | 15.5192  | 15.0974  |
| Ti 334.941 | 1.5539                   | 1.5180   | 1.4517   |
| Tl 190.794 | 2.1251                   | 5.8452   | 3.9717   |
| V 292.401  | 0.1289                   | -0.3573u | 0.0084   |
| Zn 206.200 | 0.6461                   | 1.4149   | 2.2441   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.5160     | ppb   | 0.2301  | 44.6   | -81.8454   |
| Al 308.215 | 291.523     | ppb   | 7.1459  | 2.5    | 1903.28    |
| As 188.980 | -1.5746     | ppb   | 5.4828  | 348.2  | -4.9737    |
| B 249.678  | 14.7287     | ppb   | 0.1319  | 0.9    | 303.930    |
| Ba 389.178 | 5.3391      | ppb   | 0.4191  | 7.8    | 88.9687    |
| Be 313.042 | 0.0478      | ppb   | 0.0023  | 4.9    | -156.389   |
| Ca 370.602 | 16582       | ppb   | 314.3   | 1.9    | 33396      |
| Cd 226.502 | 0.0016      | ppb   | 0.1087  | 6916.8 | 19.0286    |
| Co 228.615 | 7.0517      | ppb   | 0.3158  | 4.5    | 82.9163    |
| Cr 267.716 | 0.0118      | ppb   | 0.0811  | 689.6  | 7.4586     |
| Cu 324.754 | 0.9829      | ppb   | 0.3300  | 33.6   | 207.916    |
| Fe 271.441 | 67.1253     | ppb   | 5.2653  | 7.8    | 123.313    |
| K 766.491  | 238.883     | ppb   | 2.7843  | 1.2    | 8045.28    |
| Mg 279.078 | 1044.02     | ppb   | 17.4426 | 1.7    | 2228.54    |
| Mn 257.610 | 151.035     | ppb   | 2.3498  | 1.6    | 32942.6    |
| Mo 202.032 | -0.1711     | ppb   | 0.3014  | 176.1  | 7.8859     |
| Na 330.237 | 1028.37     | ppb   | 109.763 | 10.7   | 93.8447    |
| Ni 231.604 | 1.4300      | ppb   | 0.9961  | 69.7   | 1.7389     |
| Pb 220.353 | -1.9686     | ppb   | 2.1772  | 110.6  | 20.1539    |
| Sb 206.834 | 2.3843      | ppb   | 1.6889  | 70.8   | -2.6216    |
| Se 196.026 | 0.1073      | ppb   | 3.5731  | 3328.9 | 7.2632     |
| Sn 189.925 | 0.6137      | ppb   | 2.4759  | 403.4  | -12.3426   |
| Sr 216.596 | 15.3221     | ppb   | 0.2123  | 1.4    | 178.684    |
| Ti 334.941 | 1.5079      | ppb   | 0.0518  | 3.4    | 326.212    |
| Tl 190.794 | 3.9807      | ppb   | 1.8601  | 46.7   | -10.6485   |
| V 292.401  | -0.0733     | ppb   | 0.2532  | 345.3  | -17.1209   |
| Zn 206.200 | 1.4350      | ppb   | 0.7992  | 55.7   | 513.331    |

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**680-90624-b-4-dPDS (Samp) 5/29/2013, 5:16:54 AM Rack 4, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 35.1622                  | 33.4337 | 35.4222 |
| Al 308.215 | 3104.66                  | 3107.43 | 3112.86 |
| As 188.980 | 2001.52                  | 1987.08 | 1984.72 |
| B 249.678  | 990.062                  | 993.644 | 998.386 |
| Ba 389.178 | 1734.56                  | 1731.51 | 1736.12 |
| Be 313.042 | 45.0515                  | 45.0563 | 45.2410 |
| Ca 370.602 | 82977                    | 83221   | 83539   |
| Cd 226.502 | 44.5104                  | 44.2659 | 44.1179 |
| Co 228.615 | 482.638                  | 486.137 | 485.650 |
| Cr 267.716 | 175.415                  | 174.767 | 175.214 |
| Cu 324.754 | 226.937                  | 224.760 | 226.110 |
| Fe 271.441 | 1189.86                  | 1200.91 | 1197.75 |
| K 766.491  | 6438.05                  | 6449.58 | 6464.33 |
| Mg 279.078 | 9560.49                  | 9554.51 | 9589.12 |
| Mn 257.610 | 1161.29                  | 1159.91 | 1163.52 |
| Mo 202.032 | 465.926                  | 462.751 | 466.392 |
| Na 330.237 | 9371.71                  | 9493.96 | 9538.07 |
| Ni 231.604 | 442.746                  | 440.084 | 444.093 |
| Pb 220.353 | 452.316                  | 452.694 | 456.330 |
| Sb 206.834 | 436.612                  | 442.034 | 442.342 |
| Se 196.026 | 1893.09                  | 1892.06 | 1887.07 |
| Sn 189.925 | 915.728                  | 912.086 | 913.752 |
| Sr 216.596 | 525.665                  | 524.696 | 526.886 |
| Ti 334.941 | 885.522                  | 886.123 | 889.133 |
| Tl 190.794 | 1843.70                  | 1846.25 | 1835.60 |
| V 292.401  | 433.979                  | 433.552 | 434.760 |
| Zn 206.200 | 444.390                  | 443.169 | 446.515 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 34.6727     | ppb   | 1.0809  | 3.1  | 2387.55    |
| Al 308.215 | 3108.32     | ppb   | 4.1686  | 0.1  | 18455.0    |
| As 188.980 | 1991.11     | ppb   | 9.0965  | 0.5  | 1171.47    |
| B 249.678  | 994.031     | ppb   | 4.1750  | 0.4  | 13454.9    |
| Ba 389.178 | 1734.06     | ppb   | 2.3481  | 0.1  | 31576.5    |
| Be 313.042 | 45.1163     | ppb   | 0.1080  | 0.2  | 79340.4    |
| Ca 370.602 | 83246       | ppb   | 282.0   | 0.3  | 167962     |
| Cd 226.502 | 44.2980     | ppb   | 0.1982  | 0.4  | 1486.39    |
| Co 228.615 | 484.808     | ppb   | 1.8952  | 0.4  | 5462.46    |
| Cr 267.716 | 175.132     | ppb   | 0.3317  | 0.2  | 7936.09    |
| Cu 324.754 | 225.936     | ppb   | 1.0990  | 0.5  | 12218.9    |
| Fe 271.441 | 1196.17     | ppb   | 5.6884  | 0.5  | 1907.89    |
| K 766.491  | 6450.65     | ppb   | 13.1715 | 0.2  | 209546     |
| Mg 279.078 | 9568.04     | ppb   | 18.4984 | 0.2  | 20158.4    |
| Mn 257.610 | 1161.57     | ppb   | 1.8254  | 0.2  | 253171     |
| Mo 202.032 | 465.023     | ppb   | 1.9812  | 0.4  | 3052.94    |
| Na 330.237 | 9467.91     | ppb   | 86.1863 | 0.9  | 478.441    |
| Ni 231.604 | 442.308     | ppb   | 2.0403  | 0.5  | 1144.62    |
| Pb 220.353 | 453.780     | ppb   | 2.2167  | 0.5  | 696.473    |
| Sb 206.834 | 440.329     | ppb   | 3.2229  | 0.7  | 413.358    |
| Se 196.026 | 1890.74     | ppb   | 3.2214  | 0.2  | 895.451    |
| Sn 189.925 | 913.855     | ppb   | 1.8231  | 0.2  | 730.308    |
| Sr 216.596 | 525.749     | ppb   | 1.0973  | 0.2  | 5459.92    |
| Ti 334.941 | 886.926     | ppb   | 1.9350  | 0.2  | 222560     |
| Tl 190.794 | 1841.85     | ppb   | 5.5591  | 0.3  | 1486.24    |
| V 292.401  | 434.097     | ppb   | 0.6122  | 0.1  | 10178.6    |
| Zn 206.200 | 444.691     | ppb   | 1.6936  | 0.4  | 583.072    |

680-90624-b-4-e ms (Samp) 5/29/2013, 5:21:31 AM Rack 4, Tube 19

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 50.8590                  | 49.7460 | 50.5197 |
| Al 308.215 | 6358.17                  | 6398.96 | 6379.95 |
| As 188.980 | 114.775                  | 114.563 | 115.402 |
| B 249.678  | 274.852                  | 275.327 | 275.325 |
| Ba 389.178 | 127.228                  | 126.993 | 126.588 |
| Be 313.042 | 52.1964                  | 52.4185 | 52.3456 |
| Ca 370.602 | 82950                    | 83608   | 83531   |
| Cd 226.502 | 51.5997                  | 51.8468 | 51.8613 |
| Co 228.615 | 84.8816                  | 85.0187 | 84.5393 |
| Cr 267.716 | 102.008                  | 102.459 | 102.093 |
| Cu 324.754 | 106.936                  | 107.595 | 105.433 |
| Fe 271.441 | 5303.60                  | 5328.60 | 5316.90 |
| K 766.491  | 6962.05                  | 6981.22 | 6936.71 |
| Mg 279.078 | 10064.5                  | 10102.8 | 10079.8 |
| Mn 257.610 | 1199.97                  | 1206.54 | 1204.36 |
| Mo 202.032 | 101.476                  | 102.690 | 101.609 |
| Na 330.237 | 9979.66                  | 9948.87 | 9857.00 |
| Ni 231.604 | 103.555                  | 104.448 | 105.498 |
| Pb 220.353 | 53.9445                  | 51.1387 | 55.7381 |
| Sb 206.834 | 50.4699                  | 49.2665 | 48.2397 |
| Se 196.026 | 106.543                  | 108.184 | 117.001 |
| Sn 189.925 | 197.130                  | 204.994 | 201.715 |
| Sr 216.596 | 172.306                  | 172.185 | 171.941 |
| Ti 334.941 | 105.341                  | 105.927 | 105.679 |
| Tl 190.794 | 38.8040                  | 42.8000 | 37.7298 |
| V 292.401  | 100.869                  | 101.930 | 101.654 |
| Zn 206.200 | 108.608                  | 106.103 | 108.838 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 50.3749     | ppb   | 0.5705  | 1.1  | 3509.09    |
| Al 308.215 | 6379.03     | ppb   | 20.4153 | 0.3  | 37803.9    |
| As 188.980 | 114.914     | ppb   | 0.4365  | 0.4  | 63.7864    |
| B 249.678  | 275.168     | ppb   | 0.2739  | 0.1  | 3792.10    |
| Ba 389.178 | 126.936     | ppb   | 0.3239  | 0.3  | 2327.15    |
| Be 313.042 | 52.3202     | ppb   | 0.1132  | 0.2  | 92122.9    |
| Ca 370.602 | 83363       | ppb   | 360.1   | 0.4  | 167723     |
| Cd 226.502 | 51.7693     | ppb   | 0.1471  | 0.3  | 1743.81    |
| Co 228.615 | 84.8132     | ppb   | 0.2469  | 0.3  | 957.300    |
| Cr 267.716 | 102.186     | ppb   | 0.2394  | 0.2  | 4636.86    |
| Cu 324.754 | 106.655     | ppb   | 1.1084  | 1.0  | 5849.26    |
| Fe 271.441 | 5316.37     | ppb   | 12.5111 | 0.2  | 8156.76    |
| K 766.491  | 6959.99     | ppb   | 22.3238 | 0.3  | 226068     |
| Mg 279.078 | 10082.3     | ppb   | 19.2760 | 0.2  | 21240.3    |
| Mn 257.610 | 1203.62     | ppb   | 3.3474  | 0.3  | 262346     |
| Mo 202.032 | 101.925     | ppb   | 0.6658  | 0.7  | 675.946    |
| Na 330.237 | 9928.51     | ppb   | 63.8149 | 0.6  | 505.921    |
| Ni 231.604 | 104.500     | ppb   | 0.9725  | 0.9  | 269.101    |
| Pb 220.353 | 53.6071     | ppb   | 2.3182  | 4.3  | 102.979    |
| Sb 206.834 | 49.3254     | ppb   | 1.1162  | 2.3  | 42.5237    |
| Se 196.026 | 110.576     | ppb   | 5.6242  | 5.1  | 59.4096    |
| Sn 189.925 | 201.280     | ppb   | 3.9500  | 2.0  | 150.864    |
| Sr 216.596 | 172.144     | ppb   | 0.1857  | 0.1  | 1811.19    |
| Ti 334.941 | 105.649     | ppb   | 0.2946  | 0.3  | 26497.5    |
| Tl 190.794 | 39.7780     | ppb   | 2.6717  | 6.7  | 18.0096    |
| V 292.401  | 101.484     | ppb   | 0.5504  | 0.5  | 2364.54    |
| Zn 206.200 | 107.850     | ppb   | 1.5174  | 1.4  | 515.253    |

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**680-90624-b-4-f msd (Samp) 5/29/2013, 5:26:09 AM Rack 4, Tube 20****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 51.3797                  | 52.1911 | 50.8659 |
| Al 308.215 | 6532.66                  | 6563.99 | 6456.09 |
| As 188.980 | 118.085                  | 120.948 | 120.043 |
| B 249.678  | 272.618                  | 274.300 | 269.598 |
| Ba 389.178 | 128.497                  | 128.852 | 126.089 |
| Be 313.042 | 52.9651                  | 53.1549 | 52.2885 |
| Ca 370.602 | 82889                    | 82945   | 82124   |
| Cd 226.502 | 52.1825                  | 52.6404 | 51.6128 |
| Co 228.615 | 87.3289                  | 87.2203 | 85.5967 |
| Cr 267.716 | 103.175                  | 103.646 | 102.403 |
| Cu 324.754 | 108.716                  | 111.727 | 107.500 |
| Fe 271.441 | 5405.91                  | 5438.98 | 5361.60 |
| K 766.491  | 7117.92                  | 7119.03 | 7022.11 |
| Mg 279.078 | 10150.2                  | 10224.9 | 10065.9 |
| Mn 257.610 | 1250.44                  | 1254.93 | 1237.86 |
| Mo 202.032 | 102.258                  | 102.275 | 101.787 |
| Na 330.237 | 9844.20                  | 9857.72 | 9829.14 |
| Ni 231.604 | 106.660                  | 104.120 | 103.423 |
| Pb 220.353 | 50.4781                  | 50.4924 | 52.5062 |
| Sb 206.834 | 50.2500                  | 52.2182 | 54.6940 |
| Se 196.026 | 107.282                  | 112.062 | 110.465 |
| Sn 189.925 | 199.792                  | 205.835 | 206.974 |
| Sr 216.596 | 173.816                  | 173.528 | 172.839 |
| Ti 334.941 | 110.967                  | 111.402 | 109.246 |
| Tl 190.794 | 43.7472                  | 42.6370 | 46.6159 |
| V 292.401  | 102.813                  | 102.786 | 101.152 |
| Zn 206.200 | 109.291                  | 107.693 | 107.187 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 51.4789     | ppb   | 0.6682  | 1.3  | 3587.12    |
| Al 308.215 | 6517.58     | ppb   | 55.5088 | 0.9  | 38621.2    |
| As 188.980 | 119.692     | ppb   | 1.4634  | 1.2  | 66.6081    |
| B 249.678  | 272.172     | ppb   | 2.3826  | 0.9  | 3751.71    |
| Ba 389.178 | 127.813     | ppb   | 1.5035  | 1.2  | 2343.30    |
| Be 313.042 | 52.8028     | ppb   | 0.4554  | 0.9  | 92974.8    |
| Ca 370.602 | 82652       | ppb   | 458.7   | 0.6  | 166290     |
| Cd 226.502 | 52.1452     | ppb   | 0.5148  | 1.0  | 1756.45    |
| Co 228.615 | 86.7153     | ppb   | 0.9703  | 1.1  | 978.796    |
| Cr 267.716 | 103.075     | ppb   | 0.6273  | 0.6  | 4677.26    |
| Cu 324.754 | 109.314     | ppb   | 2.1758  | 2.0  | 5991.18    |
| Fe 271.441 | 5402.16     | ppb   | 38.8260 | 0.7  | 8288.13    |
| K 766.491  | 7086.35     | ppb   | 55.6414 | 0.8  | 230167     |
| Mg 279.078 | 10147.0     | ppb   | 79.5884 | 0.8  | 21375.7    |
| Mn 257.610 | 1247.74     | ppb   | 8.8520  | 0.7  | 271959     |
| Mo 202.032 | 102.107     | ppb   | 0.2769  | 0.3  | 677.134    |
| Na 330.237 | 9843.68     | ppb   | 14.2983 | 0.1  | 501.925    |
| Ni 231.604 | 104.734     | ppb   | 1.7036  | 1.6  | 269.706    |
| Pb 220.353 | 51.1589     | ppb   | 1.1668  | 2.3  | 99.3494    |
| Sb 206.834 | 52.3874     | ppb   | 2.2268  | 4.3  | 45.4692    |
| Se 196.026 | 109.936     | ppb   | 2.4334  | 2.2  | 59.1196    |
| Sn 189.925 | 204.200     | ppb   | 3.8600  | 1.9  | 153.239    |
| Sr 216.596 | 173.394     | ppb   | 0.5020  | 0.3  | 1824.16    |
| Ti 334.941 | 110.538     | ppb   | 1.1401  | 1.0  | 27724.6    |
| Tl 190.794 | 44.3334     | ppb   | 2.0532  | 4.6  | 21.7021    |
| V 292.401  | 102.250     | ppb   | 0.9515  | 0.9  | 2382.65    |
| Zn 206.200 | 108.057     | ppb   | 1.0982  | 1.0  | 145.521    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90624-b-5-b (Samp) 5/29/2013, 5:30:47 AM Rack 4, Tube 21

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.3433u                 | -0.1417u | 0.1434   |
| Al 308.215 | 91.3755                  | 93.7615  | 90.7248  |
| As 188.980 | -5.8366u                 | 0.6298   | 0.6914   |
| B 249.678  | 46.3450                  | 44.5708  | 45.4809  |
| Ba 389.178 | 35.9129                  | 35.5934  | 35.4730  |
| Be 313.042 | 0.0086                   | 0.0048   | -0.0044  |
| Ca 370.602 | 40145                    | 40280    | 40096    |
| Cd 226.502 | 0.1440                   | 0.3619   | 0.2113   |
| Co 228.615 | 7.3487                   | 6.7009   | 6.8820   |
| Cr 267.716 | 0.0483                   | 0.2063   | 0.0864   |
| Cu 324.754 | 1.7128                   | 1.5704   | 1.1064   |
| Fe 271.441 | 219.077                  | 223.546  | 227.285  |
| K 766.491  | 4150.10                  | 4169.23  | 4178.32  |
| Mg 279.078 | 4388.35                  | 4387.63  | 4390.11  |
| Mn 257.610 | 1464.70                  | 1468.26  | 1466.60  |
| Mo 202.032 | 0.7380                   | 0.9826   | -0.1207u |
| Na 330.237 | 8903.10                  | 8814.67  | 8996.16  |
| Ni 231.604 | 20.1297                  | 21.2531  | 19.5222  |
| Pb 220.353 | -1.4433u                 | 0.5568   | 1.3807   |
| Sb 206.834 | 4.5467                   | 4.1261   | 6.0292   |
| Se 196.026 | -1.9293u                 | 1.6781   | -0.1187  |
| Sn 189.925 | 1.9312                   | 0.7609   | 0.3577   |
| Sr 216.596 | 117.627                  | 117.946  | 117.812  |
| Ti 334.941 | 2.4565                   | 2.6357   | 2.6727   |
| Tl 190.794 | 1.5875                   | 6.5886   | 5.2499   |
| V 292.401  | 0.3376                   | 0.3192   | -0.0971u |
| Zn 206.200 | 212.535                  | 211.607  | 209.804  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1139     | ppb   | 0.2445  | 214.7  | -52.1885   |
| Al 308.215 | 91.9539     | ppb   | 1.5988  | 1.7    | 725.844    |
| As 188.980 | -1.5051     | ppb   | 3.7513  | 249.2  | -4.9362    |
| B 249.678  | 45.4656     | ppb   | 0.8872  | 2.0    | 716.476    |
| Ba 389.178 | 35.6598     | ppb   | 0.2273  | 0.6    | 647.848    |
| Be 313.042 | 0.0030      | ppb   | 0.0067  | 224.8  | -229.323   |
| Ca 370.602 | 40174       | ppb   | 95.36   | 0.2    | 80940      |
| Cd 226.502 | 0.2391      | ppb   | 0.1116  | 46.7   | 27.2803    |
| Co 228.615 | 6.9772      | ppb   | 0.3342  | 4.8    | 82.0920    |
| Cr 267.716 | 0.1137      | ppb   | 0.0825  | 72.6   | 17.5806    |
| Cu 324.754 | 1.4632      | ppb   | 0.3171  | 21.7   | 233.609    |
| Fe 271.441 | 223.303     | ppb   | 4.1093  | 1.8    | 362.026    |
| K 766.491  | 4165.88     | ppb   | 14.4050 | 0.3    | 135431     |
| Mg 279.078 | 4388.70     | ppb   | 1.2731  | 0.0    | 9249.55    |
| Mn 257.610 | 1466.52     | ppb   | 1.7805  | 0.1    | 319565     |
| Mo 202.032 | 0.5333      | ppb   | 0.5794  | 108.6  | 12.4905    |
| Na 330.237 | 8904.64     | ppb   | 90.7540 | 1.0    | 458.477    |
| Ni 231.604 | 20.3017     | ppb   | 0.8781  | 4.3    | 50.7046    |
| Pb 220.353 | 0.1647      | ppb   | 1.4522  | 881.7  | 23.5893    |
| Sb 206.834 | 4.9007      | ppb   | 0.9997  | 20.4   | -0.2142    |
| Se 196.026 | -0.1233     | ppb   | 1.8037  | 1462.9 | 7.4639     |
| Sn 189.925 | 1.0166      | ppb   | 0.8173  | 80.4   | -12.0023   |
| Sr 216.596 | 117.795     | ppb   | 0.1605  | 0.1    | 1242.20    |
| Ti 334.941 | 2.5883      | ppb   | 0.1156  | 4.5    | 610.215    |
| Tl 190.794 | 4.4753      | ppb   | 2.5889  | 57.8   | -10.7527   |
| V 292.401  | 0.1866      | ppb   | 0.2458  | 131.8  | -11.0942   |
| Zn 206.200 | 211.316     | ppb   | 1.3889  | 0.7    | 289.100    |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

mb 680-278176/1-a (Samp) 5/29/2013, 5:35:25 AM Rack 4, Tube 22

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.0561u                 | -0.1123u  | 0.2419    |
| Al 308.215 | 5.9467                   | 5.8741    | 4.9156    |
| As 188.980 | -2.7574u                 | -4.0377u  | 0.7549    |
| B 249.678  | 8.9878                   | 8.9459    | 8.5464    |
| Ba 389.178 | 0.9490                   | 0.2197    | 0.2288    |
| Be 313.042 | -0.0054u                 | 0.0060    | -0.0015u  |
| Ca 370.602 | 5.175                    | 8.210     | 10.73     |
| Cd 226.502 | -0.2135u                 | -0.1088u  | -0.2710u  |
| Co 228.615 | 0.3265                   | -0.6717u  | -0.0017u  |
| Cr 267.716 | -0.0856u                 | 0.2922    | 0.1310    |
| Cu 324.754 | 0.1182                   | 0.2054    | 0.6616    |
| Fe 271.441 | 1.9455                   | 0.1334    | 4.9639    |
| K 766.491  | 1.1396                   | 1.1380    | 2.0492    |
| Mg 279.078 | -3.5930u                 | 1.5144    | -0.3083u  |
| Mn 257.610 | 0.1881                   | 0.2518    | 0.3519    |
| Mo 202.032 | 0.2708                   | 0.0192    | 0.1930    |
| Na 330.237 | -2.1378u                 | -36.8896u | -293.593u |
| Ni 231.604 | 0.7983                   | 1.0510    | -1.2093u  |
| Pb 220.353 | 0.1450                   | -2.2688u  | -2.9633u  |
| Sb 206.834 | 4.7199                   | 3.5984    | 0.0874    |
| Se 196.026 | -6.2894u                 | 6.2936    | -4.6866u  |
| Sn 189.925 | 1.5391                   | 0.4545    | 0.9903    |
| Sr 216.596 | -0.3950u                 | -0.3489u  | 0.0218    |
| Ti 334.941 | 0.0498                   | 0.0331    | 0.1025    |
| Tl 190.794 | -0.9826u                 | 2.0734    | 0.8872    |
| V 292.401  | -0.0204u                 | 0.1262    | 0.4251    |
| Zn 206.200 | -1.3507u                 | 0.0659    | -1.0055u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0245      | ppb   | 0.1904  | 778.0  | -43.6344   |
| Al 308.215 | 5.5788      | ppb   | 0.5755  | 10.3   | 216.528    |
| As 188.980 | -2.0134     | ppb   | 2.4814  | 123.2  | -5.2349    |
| B 249.678  | 8.8267      | ppb   | 0.2436  | 2.8    | 224.783    |
| Ba 389.178 | 0.4658      | ppb   | 0.4185  | 89.8   | -1.9338    |
| Be 313.042 | -0.0003     | ppb   | 0.0058  | 1952.5 | -246.803   |
| Ca 370.602 | 8.038       | ppb   | 2.781   | 34.6   | 4.385      |
| Cd 226.502 | -0.1977     | ppb   | 0.0822  | 41.6   | 12.2641    |
| Co 228.615 | -0.1156     | ppb   | 0.5087  | 440.0  | 2.2698     |
| Cr 267.716 | 0.1125      | ppb   | 0.1896  | 168.5  | 11.3659    |
| Cu 324.754 | 0.3284      | ppb   | 0.2918  | 88.9   | 172.984    |
| Fe 271.441 | 2.3476      | ppb   | 2.4403  | 103.9  | 23.4739    |
| K 766.491  | 1.4423      | ppb   | 0.5256  | 36.4   | 343.061    |
| Mg 279.078 | -0.7956     | ppb   | 2.5883  | 325.3  | 31.2430    |
| Mn 257.610 | 0.2639      | ppb   | 0.0826  | 31.3   | 86.6907    |
| Mo 202.032 | 0.1610      | ppb   | 0.1288  | 80.0   | 10.0629    |
| Na 330.237 | -110.874    | ppb   | 159.191 | 143.6  | 40.7384    |
| Ni 231.604 | 0.2133      | ppb   | 1.2385  | 580.6  | -1.4043    |
| Pb 220.353 | -1.6957     | ppb   | 1.6315  | 96.2   | 20.5331    |
| Sb 206.834 | 2.8019      | ppb   | 2.4168  | 86.3   | -2.2263    |
| Se 196.026 | -1.5608     | ppb   | 6.8491  | 438.8  | 6.4441     |
| Sn 189.925 | 0.9946      | ppb   | 0.5423  | 54.5   | -12.0403   |
| Sr 216.596 | -0.2407     | ppb   | 0.2285  | 94.9   | 15.7634    |
| Ti 334.941 | 0.0618      | ppb   | 0.0362  | 58.6   | -40.8178   |
| Tl 190.794 | 0.6594      | ppb   | 1.5407  | 233.7  | -13.3088   |
| V 292.401  | 0.1770      | ppb   | 0.2270  | 128.3  | -11.2805   |
| Zn 206.200 | -0.7634     | ppb   | 0.7386  | 96.8   | -1.2729    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

lcs 680-278176/2-a (Samp) 5/29/2013, 5:40:03 AM Rack 4, Tube 23

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 10.6668                  | 10.8425 | 11.2463 |
| Al 308.215 | 219.279                  | 219.498 | 223.698 |
| As 188.980 | 20.6554                  | 12.7466 | 23.3141 |
| B 249.678  | 114.612                  | 114.944 | 116.519 |
| Ba 389.178 | 10.8765                  | 10.1330 | 9.9268  |
| Be 313.042 | 4.4496                   | 4.4452  | 4.4806  |
| Ca 370.602 | 522.5                    | 521.0   | 532.2   |
| Cd 226.502 | 5.4263                   | 5.4046  | 5.6083  |
| Co 228.615 | 12.1713                  | 11.0788 | 11.4126 |
| Cr 267.716 | 10.7360                  | 10.6046 | 10.8234 |
| Cu 324.754 | 21.6145                  | 21.7715 | 22.3474 |
| Fe 271.441 | 55.9160                  | 60.4934 | 55.3491 |
| K 766.491  | 1122.16                  | 1120.28 | 1130.45 |
| Mg 279.078 | 556.431                  | 560.329 | 563.406 |
| Mn 257.610 | 11.5317                  | 11.5988 | 11.7583 |
| Mo 202.032 | 10.4237                  | 11.1627 | 10.2893 |
| Na 330.237 | 772.955                  | 926.424 | 1045.04 |
| Ni 231.604 | 43.9691                  | 43.0113 | 43.9613 |
| Pb 220.353 | 7.5538                   | 8.4034  | 11.1048 |
| Sb 206.834 | 21.6492                  | 23.0842 | 27.5415 |
| Se 196.026 | 24.5814                  | 21.1506 | 21.9288 |
| Sn 189.925 | 52.4795                  | 56.4430 | 53.8323 |
| Sr 216.596 | 9.7394                   | 10.0483 | 10.6928 |
| Ti 334.941 | 10.4064                  | 10.3727 | 10.5675 |
| Tl 190.794 | 29.6862                  | 28.0809 | 25.6098 |
| V 292.401  | 10.9838                  | 10.6015 | 10.9250 |
| Zn 206.200 | 21.5799                  | 20.3885 | 22.3308 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 10.9185     | ppb   | 0.2971  | 2.7  | 725.098    |
| Al 308.215 | 220.825     | ppb   | 2.4907  | 1.1  | 1484.76    |
| As 188.980 | 18.9054     | ppb   | 5.4968  | 29.1 | 7.1151     |
| B 249.678  | 115.358     | ppb   | 1.0189  | 0.9  | 1655.52    |
| Ba 389.178 | 10.3121     | ppb   | 0.4995  | 4.8  | 178.551    |
| Be 313.042 | 4.4585      | ppb   | 0.0193  | 0.4  | 7622.39    |
| Ca 370.602 | 525.2       | ppb   | 6.054   | 1.2  | 1047       |
| Cd 226.502 | 5.4797      | ppb   | 0.1119  | 2.0  | 200.091    |
| Co 228.615 | 11.5542     | ppb   | 0.5598  | 4.8  | 133.452    |
| Cr 267.716 | 10.7213     | ppb   | 0.1101  | 1.0  | 491.524    |
| Cu 324.754 | 21.9112     | ppb   | 0.3859  | 1.8  | 1324.67    |
| Fe 271.441 | 57.2528     | ppb   | 2.8207  | 4.9  | 108.844    |
| K 766.491  | 1124.30     | ppb   | 5.4097  | 0.5  | 36766.7    |
| Mg 279.078 | 560.056     | ppb   | 3.4955  | 0.6  | 1211.83    |
| Mn 257.610 | 11.6296     | ppb   | 0.1164  | 1.0  | 2567.27    |
| Mo 202.032 | 10.6252     | ppb   | 0.4703  | 4.4  | 78.5566    |
| Na 330.237 | 914.805     | ppb   | 136.412 | 14.9 | 88.2504    |
| Ni 231.604 | 43.6472     | ppb   | 0.5508  | 1.3  | 111.261    |
| Pb 220.353 | 9.0207      | ppb   | 1.8542  | 20.6 | 36.4383    |
| Sb 206.834 | 24.0916     | ppb   | 3.0727  | 12.8 | 18.1788    |
| Se 196.026 | 22.5536     | ppb   | 1.7987  | 8.0  | 17.7725    |
| Sn 189.925 | 54.2516     | ppb   | 2.0148  | 3.7  | 31.2672    |
| Sr 216.596 | 10.1602     | ppb   | 0.4865  | 4.8  | 122.752    |
| Ti 334.941 | 10.4489     | ppb   | 0.1041  | 1.0  | 2568.07    |
| Tl 190.794 | 27.7923     | ppb   | 2.0535  | 7.4  | 8.8010     |
| V 292.401  | 10.8368     | ppb   | 0.2059  | 1.9  | 238.740    |
| Zn 206.200 | 21.4330     | ppb   | 0.9795  | 4.6  | 33.1077    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

Ics 680-278176/3-a (Samp) 5/29/2013, 5:44:40 AM Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 21.6459                  | 21.3502 | 21.0271 |
| Al 308.215 | 2045.61                  | 2036.94 | 2033.08 |
| As 188.980 | 47.3982                  | 47.7639 | 44.6163 |
| B 249.678  | 91.3369                  | 90.9749 | 90.6825 |
| Ba 389.178 | 39.9539                  | 38.7144 | 39.6057 |
| Be 313.042 | 21.5412                  | 21.4127 | 21.4810 |
| Ca 370.602 | 1960                     | 1957    | 1953    |
| Cd 226.502 | 21.1702                  | 20.6724 | 20.9638 |
| Co 228.615 | 21.6010                  | 21.3406 | 21.0252 |
| Cr 267.716 | 41.4053                  | 41.0479 | 41.2763 |
| Cu 324.754 | 42.4613                  | 42.1378 | 42.2457 |
| Fe 271.441 | 2066.74                  | 2053.45 | 2052.80 |
| K 766.491  | 2169.74                  | 2162.93 | 2156.28 |
| Mg 279.078 | 2136.43                  | 2122.66 | 2119.22 |
| Mn 257.610 | 216.706                  | 215.404 | 215.710 |
| Mo 202.032 | 40.4505                  | 41.1719 | 41.1865 |
| Na 330.237 | 1864.62                  | 1828.68 | 2058.64 |
| Ni 231.604 | 42.8786                  | 42.0876 | 43.1754 |
| Pb 220.353 | 17.6950                  | 17.5446 | 16.4824 |
| Sb 206.834 | 23.3319                  | 21.1736 | 25.4307 |
| Se 196.026 | 36.5501                  | 35.7406 | 41.3992 |
| Sn 189.925 | 81.2898                  | 84.0804 | 81.4491 |
| Sr 216.596 | 40.6586                  | 40.1539 | 40.0588 |
| Ti 334.941 | 40.2685                  | 39.9928 | 40.1199 |
| Tl 190.794 | 20.5159                  | 18.2102 | 20.6497 |
| V 292.401  | 41.1117                  | 41.3830 | 41.6670 |
| Zn 206.200 | 41.5861                  | 42.6668 | 42.2797 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 21.3410     | ppb   | 0.3095  | 1.5  | 1460.63    |
| Al 308.215 | 2038.54     | ppb   | 6.4206  | 0.3  | 12205.1    |
| As 188.980 | 46.5928     | ppb   | 1.7214  | 3.7  | 23.4532    |
| B 249.678  | 90.9981     | ppb   | 0.3278  | 0.4  | 1324.59    |
| Ba 389.178 | 39.4247     | ppb   | 0.6393  | 1.6  | 714.051    |
| Be 313.042 | 21.4783     | ppb   | 0.0643  | 0.3  | 37662.5    |
| Ca 370.602 | 1957        | ppb   | 3.462   | 0.2  | 3845       |
| Cd 226.502 | 20.9355     | ppb   | 0.2501  | 1.2  | 716.137    |
| Co 228.615 | 21.3223     | ppb   | 0.2883  | 1.4  | 243.278    |
| Cr 267.716 | 41.2431     | ppb   | 0.1810  | 0.4  | 1874.04    |
| Cu 324.754 | 42.2816     | ppb   | 0.1647  | 0.4  | 2412.67    |
| Fe 271.441 | 2057.66     | ppb   | 7.8690  | 0.4  | 3167.91    |
| K 766.491  | 2162.98     | ppb   | 6.7301  | 0.3  | 70460.1    |
| Mg 279.078 | 2126.10     | ppb   | 9.1112  | 0.4  | 4505.58    |
| Mn 257.610 | 215.940     | ppb   | 0.6806  | 0.3  | 47096.1    |
| Mo 202.032 | 40.9363     | ppb   | 0.4208  | 1.0  | 276.875    |
| Na 330.237 | 1917.31     | ppb   | 123.708 | 6.5  | 134.105    |
| Ni 231.604 | 42.7139     | ppb   | 0.5623  | 1.3  | 108.861    |
| Pb 220.353 | 17.2407     | ppb   | 0.6610  | 3.8  | 48.7362    |
| Sb 206.834 | 23.3121     | ppb   | 2.1286  | 9.1  | 17.4992    |
| Se 196.026 | 37.8966     | ppb   | 3.0602  | 8.1  | 25.0328    |
| Sn 189.925 | 82.2731     | ppb   | 1.5671  | 1.9  | 54.0543    |
| Sr 216.596 | 40.2904     | ppb   | 0.3224  | 0.8  | 436.314    |
| Ti 334.941 | 40.1271     | ppb   | 0.1380  | 0.3  | 10022.5    |
| Tl 190.794 | 19.7919     | ppb   | 1.3714  | 6.9  | 2.1307     |
| V 292.401  | 41.3872     | ppb   | 0.2777  | 0.7  | 955.235    |
| Zn 206.200 | 42.1775     | ppb   | 0.5475  | 1.3  | 60.0077    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

190-805-a-1-b (Samp) 5/29/2013, 5:58:35 AM Rack 4, Tube 27

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.3496u                 | 0.2151   | -0.2906u |
| Al 308.215 | 9.1637                   | 8.3852   | 6.3711   |
| As 188.980 | -2.2550u                 | -3.3264u | 4.0952   |
| B 249.678  | 18.8768                  | 18.8328  | 18.4902  |
| Ba 389.178 | 69.8784                  | 70.2649  | 70.9673  |
| Be 313.042 | -0.0099                  | -0.0156u | -0.0187u |
| Ca 370.602 | 71334                    | 71300    | 71271    |
| Cd 226.502 | -0.0718u                 | 0.2989   | 0.0700   |
| Co 228.615 | -0.4768u                 | 0.0000   | -0.4772u |
| Cr 267.716 | 0.0533                   | 0.1035   | 0.1222   |
| Cu 324.754 | 6.2491                   | 6.0598   | 5.8289   |
| Fe 271.441 | 216.357                  | 222.182  | 219.186  |
| K 766.491  | 1189.65                  | 1192.91  | 1197.60  |
| Mg 279.078 | 29134.5                  | 29171.5  | 29224.2  |
| Mn 257.610 | 40.9432                  | 41.0487  | 41.1320  |
| Mo 202.032 | 0.3562                   | 0.9640   | 0.1314   |
| Na 330.237 | 7596.95                  | 7518.46  | 7538.67  |
| Ni 231.604 | 8.8719                   | 9.0308   | 10.0304  |
| Pb 220.353 | 1.9754                   | 2.3236   | 2.2800   |
| Sb 206.834 | 1.3289                   | 3.5256   | 2.3243   |
| Se 196.026 | -9.0271u                 | -4.3624u | -3.4098u |
| Sn 189.925 | 2.2926                   | 2.2364   | -0.4084u |
| Sr 216.596 | 90.5174                  | 90.5343  | 91.6456  |
| Ti 334.941 | -0.2220                  | -0.2082  | -0.1882  |
| Tl 190.794 | 5.2232                   | 4.7426   | 2.0586   |
| V 292.401  | 0.0683                   | 0.2093   | 0.2061   |
| Zn 206.200 | 390.607                  | 391.283  | 392.673  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1417     | ppb   | 0.3104  | 219.1 | -59.5760   |
| Al 308.215 | 7.9733      | ppb   | 1.4412  | 18.1  | 230.676    |
| As 188.980 | -0.4954     | ppb   | 4.0115  | 809.8 | -4.3407    |
| B 249.678  | 18.7333     | ppb   | 0.2117  | 1.1   | 357.436    |
| Ba 389.178 | 70.3702     | ppb   | 0.5520  | 0.8   | 1330.25    |
| Be 313.042 | -0.0148     | ppb   | 0.0045  | 30.2  | -250.306   |
| Ca 370.602 | 71301       | ppb   | 31.65   | 0.0   | 143624     |
| Cd 226.502 | 0.0990      | ppb   | 0.1870  | 188.8 | 22.9143    |
| Co 228.615 | -0.3180     | ppb   | 0.2754  | 86.6  | -0.0024    |
| Cr 267.716 | 0.0930      | ppb   | 0.0356  | 38.3  | 10.8166    |
| Cu 324.754 | 6.0459      | ppb   | 0.2105  | 3.5   | 478.102    |
| Fe 271.441 | 219.242     | ppb   | 2.9127  | 1.3   | 354.977    |
| K 766.491  | 1193.39     | ppb   | 3.9941  | 0.3   | 39008.0    |
| Mg 279.078 | 29176.8     | ppb   | 45.0867 | 0.2   | 61461.6    |
| Mn 257.610 | 41.0413     | ppb   | 0.0946  | 0.2   | 9194.75    |
| Mo 202.032 | 0.4839      | ppb   | 0.4307  | 89.0  | 12.1670    |
| Na 330.237 | 7551.36     | ppb   | 40.7531 | 0.5   | 392.919    |
| Ni 231.604 | 9.3110      | ppb   | 0.6280  | 6.7   | 22.2048    |
| Pb 220.353 | 2.1930      | ppb   | 0.1897  | 8.7   | 26.3328    |
| Sb 206.834 | 2.3929      | ppb   | 1.1000  | 46.0  | -2.6177    |
| Se 196.026 | -5.5998     | ppb   | 3.0061  | 53.7  | 4.5577     |
| Sn 189.925 | 1.3735      | ppb   | 1.5435  | 112.4 | -11.6993   |
| Sr 216.596 | 90.8991     | ppb   | 0.6465  | 0.7   | 966.992    |
| Ti 334.941 | -0.2061     | ppb   | 0.0170  | 8.3   | 8.7266     |
| Tl 190.794 | 4.0081      | ppb   | 1.7053  | 42.5  | -10.6104   |
| V 292.401  | 0.1612      | ppb   | 0.0805  | 49.9  | -11.4448   |
| Zn 206.200 | 391.521     | ppb   | 1.0533  | 0.3   | 514.472    |

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680-90512-y-8-e (Samp) 5/29/2013, 6:03:13 AM Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1871                   | -0.1205u | -0.3534u |
| Al 308.215 | 76.1712                  | 75.9443  | 76.8016  |
| As 188.980 | 0.7724                   | 0.1728   | -1.7378u |
| B 249.678  | 36.7437                  | 36.6761  | 36.4371  |
| Ba 389.178 | 12.3920                  | 12.4903  | 12.0959  |
| Be 313.042 | -0.0177                  | -0.0222u | -0.0370u |
| Ca 370.602 | 111479                   | 111589   | 111522   |
| Cd 226.502 | 0.0729                   | 0.0865   | 0.1046   |
| Co 228.615 | -0.7556u                 | 0.0767   | -0.1717u |
| Cr 267.716 | 1.3537                   | 1.4334   | 1.4978   |
| Cu 324.754 | 1.0806                   | 0.9510   | 0.6063   |
| Fe 271.441 | 0.2852                   | 11.4003  | 5.9827   |
| K 766.491  | 2031.70                  | 2033.09  | 2041.22  |
| Mg 279.078 | 6490.56                  | 6488.28  | 6510.63  |
| Mn 257.610 | -0.0202                  | -0.0199  | 0.0744   |
| Mo 202.032 | 0.0836                   | 0.0163   | 0.5102   |
| Na 330.237 | 31728.3                  | 31787.1  | 32103.2  |
| Ni 231.604 | 0.8569                   | 1.6745   | 1.1713   |
| Pb 220.353 | -0.7947u                 | -4.8299u | 1.3859   |
| Sb 206.834 | 5.4765                   | 8.5619   | 5.0952   |
| Se 196.026 | -1.4743u                 | 3.6673   | 5.2537   |
| Sn 189.925 | 0.2669                   | 0.5482   | -1.5299u |
| Sr 216.596 | 207.581                  | 206.873  | 207.310  |
| Ti 334.941 | 0.1813                   | 0.1000   | 0.1482   |
| Tl 190.794 | 0.7493                   | 3.8773   | 1.5479   |
| V 292.401  | 0.3983                   | 0.4259   | 0.4068   |
| Zn 206.200 | 5.6304                   | 6.8445   | 6.1083   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.0956     | ppb   | 0.2711  | 283.5 | -61.1388   |
| Al 308.215 | 76.3057     | ppb   | 0.4442  | 0.6   | 633.772    |
| As 188.980 | -0.2642     | ppb   | 1.3109  | 496.1 | -4.2015    |
| B 249.678  | 36.6190     | ppb   | 0.1611  | 0.4   | 598.065    |
| Ba 389.178 | 12.3260     | ppb   | 0.2053  | 1.7   | 227.215    |
| Be 313.042 | -0.0257     | ppb   | 0.0101  | 39.3  | -257.937   |
| Ca 370.602 | 111530      | ppb   | 55.42   | 0.0   | 224681     |
| Cd 226.502 | 0.0880      | ppb   | 0.0159  | 18.1  | 21.6303    |
| Co 228.615 | -0.2835     | ppb   | 0.4273  | 150.7 | 0.3909     |
| Cr 267.716 | 1.4283      | ppb   | 0.0722  | 5.1   | 71.4528    |
| Cu 324.754 | 0.8793      | ppb   | 0.2451  | 27.9  | 202.376    |
| Fe 271.441 | 5.8894      | ppb   | 5.5582  | 94.4  | 28.8726    |
| K 766.491  | 2035.33     | ppb   | 5.1422  | 0.3   | 66319.4    |
| Mg 279.078 | 6496.49     | ppb   | 12.2987 | 0.2   | 13710.7    |
| Mn 257.610 | 0.0115      | ppb   | 0.0545  | 475.6 | 82.5807    |
| Mo 202.032 | 0.2034      | ppb   | 0.2678  | 131.7 | 10.3399    |
| Na 330.237 | 31872.9     | ppb   | 201.648 | 0.6   | 1533.01    |
| Ni 231.604 | 1.2342      | ppb   | 0.4124  | 33.4  | 1.2449     |
| Pb 220.353 | -1.4129     | ppb   | 3.1537  | 223.2 | 20.9522    |
| Sb 206.834 | 6.3779      | ppb   | 1.9010  | 29.8  | 1.2096     |
| Se 196.026 | 2.4822      | ppb   | 3.5171  | 141.7 | 8.3430     |
| Sn 189.925 | -0.2383     | ppb   | 1.1274  | 473.2 | -12.9846   |
| Sr 216.596 | 207.255     | ppb   | 0.3573  | 0.2   | 2176.10    |
| Ti 334.941 | 0.1432      | ppb   | 0.0409  | 28.5  | 3.5272     |
| Tl 190.794 | 2.0582      | ppb   | 1.6252  | 79.0  | -12.1705   |
| V 292.401  | 0.4103      | ppb   | 0.0141  | 3.4   | -5.9791    |
| Zn 206.200 | 6.1944      | ppb   | 0.6116  | 9.8   | 133179     |

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**680-90512-y-8-eSD^5 (Samp) 5/29/2013, 6:07:51 AM Rack 4, Tube 29****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.4844                   | 0.2664   | 0.0293   |
| Al 308.215 | 16.5745                  | 18.7418  | 22.9990  |
| As 188.980 | 1.5312                   | -4.6174u | -2.0474u |
| B 249.678  | 9.6195                   | 9.8082   | 9.7458   |
| Ba 389.178 | 0.7043                   | 0.7274   | 1.2578   |
| Be 313.042 | -0.0127u                 | -0.0068u | -0.0144u |
| Ca 370.602 | 22118                    | 22093    | 22810    |
| Cd 226.502 | -0.0535u                 | -0.0508u | 0.0444   |
| Co 228.615 | 0.5624                   | 0.2043   | 0.1040   |
| Cr 267.716 | 0.3860                   | 0.3528   | 0.2502   |
| Cu 324.754 | 0.2484                   | 0.4378   | 0.3908   |
| Fe 271.441 | 0.9389                   | 3.0101   | -4.1114u |
| K 766.491  | 359.680                  | 356.644  | 362.295  |
| Mg 279.078 | 1316.23                  | 1307.37  | 1341.45  |
| Mn 257.610 | 0.0147                   | 0.0066   | 0.0315   |
| Mo 202.032 | 0.0534                   | 0.0867   | 0.1720   |
| Na 330.237 | 6036.88                  | 5906.22  | 6165.84  |
| Ni 231.604 | 1.6320                   | 1.4880   | 0.3718   |
| Pb 220.353 | -1.0570u                 | -0.2049u | -3.6752u |
| Sb 206.834 | 5.8696                   | 2.4657   | 2.7077   |
| Se 196.026 | -5.0106u                 | -2.9032u | 0.9763   |
| Sn 189.925 | 1.9234                   | -0.1704u | 1.2524   |
| Sr 216.596 | 42.4904                  | 40.9369  | 42.6322  |
| Ti 334.941 | 0.0533                   | 0.0490   | 0.0092   |
| Tl 190.794 | 3.5119                   | 2.8172   | 3.1241   |
| V 292.401  | -0.1075u                 | 0.3025   | -0.0450u |
| Zn 206.200 | 1.7287                   | 1.4236   | 2.1210   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.2600      | ppb   | 0.2276  | 87.5   | -28.8338   |
| Al 308.215 | 19.4385     | ppb   | 3.2684  | 16.8   | 298.300    |
| As 188.980 | -1.7112     | ppb   | 3.0880  | 180.5  | -5.0563    |
| B 249.678  | 9.7245      | ppb   | 0.0961  | 1.0    | 236.844    |
| Ba 389.178 | 0.8965      | ppb   | 0.3131  | 34.9   | 8.6004     |
| Be 313.042 | -0.0113     | ppb   | 0.0040  | 35.7   | -259.445   |
| Ca 370.602 | 22340       | ppb   | 406.7   | 1.8    | 44996      |
| Cd 226.502 | -0.0200     | ppb   | 0.0558  | 279.5  | 18.1225    |
| Co 228.615 | 0.2903      | ppb   | 0.2410  | 83.0   | 6.8375     |
| Cr 267.716 | 0.3297      | ppb   | 0.0708  | 21.5   | 21.2979    |
| Cu 324.754 | 0.3590      | ppb   | 0.0986  | 27.5   | 174.616    |
| Fe 271.441 | -0.0541     | ppb   | 3.6631  | 6765.6 | 19.8481    |
| K 766.491  | 359.540     | ppb   | 2.8283  | 0.8    | 11959.2    |
| Mg 279.078 | 1321.68     | ppb   | 17.6816 | 1.3    | 2815.61    |
| Mn 257.610 | 0.0176      | ppb   | 0.0127  | 72.2   | 43.3724    |
| Mo 202.032 | 0.1040      | ppb   | 0.0612  | 58.8   | 9.6902     |
| Na 330.237 | 6036.31     | ppb   | 129.810 | 2.2    | 327.532    |
| Ni 231.604 | 1.1639      | ppb   | 0.6898  | 59.3   | 1.0613     |
| Pb 220.353 | -1.6457     | ppb   | 1.8085  | 109.9  | 20.6069    |
| Sb 206.834 | 3.6810      | ppb   | 1.8992  | 51.6   | -1.3820    |
| Se 196.026 | -2.3125     | ppb   | 3.0368  | 131.3  | 6.0910     |
| Sn 189.925 | 1.0018      | ppb   | 1.0692  | 106.7  | -12.0229   |
| Sr 216.596 | 42.0199     | ppb   | 0.9405  | 2.2    | 455.722    |
| Ti 334.941 | 0.0371      | ppb   | 0.0243  | 65.5   | -42.1237   |
| Tl 190.794 | 3.1511      | ppb   | 0.3481  | 11.0   | -11.2793   |
| V 292.401  | 0.0500      | ppb   | 0.2209  | 441.5  | -14.3099   |
| Zn 206.200 | 1.7578      | ppb   | 0.3496  | 19.8   | 51.5512    |

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680-90512-y-8-ePDS (Samp) 5/29/2013, 6:12:29 AM Rack 4, Tube 30

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 43.2269                  | 43.1987 | 42.2797 |
| Al 308.215 | 1775.01                  | 1773.39 | 1768.81 |
| As 188.980 | 1939.20                  | 1940.56 | 1920.13 |
| B 249.678  | 961.253                  | 969.023 | 968.386 |
| Ba 389.178 | 1662.02                  | 1659.89 | 1648.11 |
| Be 313.042 | 43.7784                  | 43.8106 | 43.6077 |
| Ca 370.602 | 114250                   | 113885  | 113292  |
| Cd 226.502 | 43.0550                  | 43.0001 | 42.8023 |
| Co 228.615 | 433.884                  | 436.090 | 434.076 |
| Cr 267.716 | 170.081                  | 171.084 | 169.607 |
| Cu 324.754 | 217.456                  | 218.696 | 215.657 |
| Fe 271.441 | 853.722                  | 858.497 | 856.195 |
| K 766.491  | 7421.64                  | 7422.96 | 7406.20 |
| Mg 279.078 | 11115.1                  | 11129.2 | 11091.0 |
| Mn 257.610 | 439.018                  | 439.539 | 437.956 |
| Mo 202.032 | 454.613                  | 453.775 | 456.462 |
| Na 330.237 | 36292.1                  | 36482.9 | 36225.4 |
| Ni 231.604 | 419.732                  | 421.015 | 422.301 |
| Pb 220.353 | 434.482                  | 437.890 | 435.409 |
| Sb 206.834 | 427.341                  | 425.265 | 429.832 |
| Se 196.026 | 1839.80                  | 1845.56 | 1834.90 |
| Sn 189.925 | 911.963                  | 899.758 | 909.379 |
| Sr 216.596 | 650.158                  | 651.545 | 647.172 |
| Ti 334.941 | 866.060                  | 865.794 | 860.854 |
| Tl 190.794 | 1772.07                  | 1775.49 | 1764.82 |
| V 292.401  | 418.403                  | 419.238 | 417.938 |
| Zn 206.200 | 437.437                  | 435.883 | 426.976 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 42.9018     | ppb   | 0.5389  | 1.3  | 2959.77    |
| Al 308.215 | 1772.40     | ppb   | 3.2165  | 0.2  | 10577.5    |
| As 188.980 | 1933.30     | ppb   | 11.4222 | 0.6  | 1137.33    |
| B 249.678  | 966.221     | ppb   | 4.3141  | 0.4  | 13082.0    |
| Ba 389.178 | 1656.67     | ppb   | 7.4922  | 0.5  | 30170.5    |
| Be 313.042 | 43.7322     | ppb   | 0.1090  | 0.2  | 76906.7    |
| Ca 370.602 | 113809      | ppb   | 483.1   | 0.4  | 229533     |
| Cd 226.502 | 42.9525     | ppb   | 0.1329  | 0.3  | 1440.93    |
| Co 228.615 | 434.683     | ppb   | 1.2218  | 0.3  | 4898.55    |
| Cr 267.716 | 170.258     | ppb   | 0.7542  | 0.4  | 7712.99    |
| Cu 324.754 | 217.270     | ppb   | 1.5281  | 0.7  | 11756.4    |
| Fe 271.441 | 856.138     | ppb   | 2.3879  | 0.3  | 1382.23    |
| K 766.491  | 7416.93     | ppb   | 9.3184  | 0.1  | 240891     |
| Mg 279.078 | 11111.8     | ppb   | 19.3201 | 0.2  | 23420.5    |
| Mn 257.610 | 438.838     | ppb   | 0.8069  | 0.2  | 95724.1    |
| Mo 202.032 | 454.950     | ppb   | 1.3751  | 0.3  | 2987.03    |
| Na 330.237 | 36333.5     | ppb   | 133.671 | 0.4  | 1732.31    |
| Ni 231.604 | 421.016     | ppb   | 1.2844  | 0.3  | 1089.47    |
| Pb 220.353 | 435.927     | ppb   | 1.7624  | 0.4  | 669.842    |
| Sb 206.834 | 427.479     | ppb   | 2.2868  | 0.5  | 401.107    |
| Se 196.026 | 1840.08     | ppb   | 5.3358  | 0.3  | 871.490    |
| Sn 189.925 | 907.033     | ppb   | 6.4316  | 0.7  | 724.783    |
| Sr 216.596 | 649.625     | ppb   | 2.2348  | 0.3  | 6746.23    |
| Ti 334.941 | 864.236     | ppb   | 2.9318  | 0.3  | 216871     |
| Tl 190.794 | 1770.80     | ppb   | 5.4480  | 0.3  | 1428.57    |
| V 292.401  | 418.526     | ppb   | 0.6587  | 0.2  | 9811.87    |
| Zn 206.200 | 433.432     | ppb   | 5.6447  | 1.3  | 568.441    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90512-y-8-f ms (Samp) 5/29/2013, 6:17:07 AM Rack 4, Tube 31****Weight: 1****Volume: 1****Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |         |         |
|--------------|---------------------------------|---------|---------|
| Ag 328.068   | 21.8256                         | 21.6835 | 22.1105 |
| Al 308.215   | 2238.61                         | 2232.54 | 2237.44 |
| As 188.980   | 53.1505                         | 44.6785 | 52.4291 |
| B 249.678    | 140.449                         | 139.638 | 139.583 |
| Ba 389.178   | 55.0240                         | 54.9224 | 54.7889 |
| Be 313.042   | 22.1079                         | 22.0957 | 22.1747 |
| Ca 370.602   | 121279                          | 121270  | 120986  |
| Cd 226.502   | 21.1307                         | 21.3152 | 21.2786 |
| Co 228.615   | 21.4288                         | 21.7604 | 21.9593 |
| Cr 267.716   | 44.2360                         | 43.7388 | 44.0401 |
| Cu 324.754   | 45.7251                         | 44.9443 | 44.6391 |
| Fe 271.441   | 2107.83                         | 2099.70 | 2112.49 |
| K 766.491    | 4614.64                         | 4645.56 | 4649.12 |
| Mg 279.078   | 9145.53                         | 9132.28 | 9154.91 |
| Mn 257.610   | 220.464                         | 219.929 | 220.749 |
| Mo 202.032   | 43.3390                         | 43.3240 | 43.0036 |
| Na 330.237   | 36124.2                         | 36090.0 | 36348.0 |
| Ni 231.604   | 42.3985                         | 45.2376 | 44.0724 |
| Pb 220.353   | 19.6122                         | 17.2764 | 19.2928 |
| Sb 206.834   | 26.1053                         | 26.9199 | 19.6705 |
| Se 196.026   | 47.7477                         | 44.2887 | 45.6793 |
| Sn 189.925   | 82.6423                         | 85.8437 | 86.6415 |
| Sr 216.596   | 261.461                         | 260.886 | 263.692 |
| Ti 334.941   | 41.3581                         | 41.2786 | 41.5215 |
| Tl 190.794   | 16.2338                         | 14.4713 | 18.0346 |
| V 292.401    | 42.7922                         | 42.7134 | 43.0908 |
| Zn 206.200   | 51.2568                         | 50.8382 | 51.4043 |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | 21.8732            | ppb          | 0.2174    | 1.0         | 1488.56           |
| Al 308.215   | 2236.20            | ppb          | 3.2210    | 0.1         | 13371.1           |
| As 188.980   | 50.0861            | ppb          | 4.6970    | 9.4         | 25.5166           |
| B 249.678    | 139.890            | ppb          | 0.4851    | 0.3         | 1981.18           |
| Ba 389.178   | 54.9118            | ppb          | 0.1179    | 0.2         | 1010.34           |
| Be 313.042   | 22.1261            | ppb          | 0.0425    | 0.2         | 38841.7           |
| Ca 370.602   | 121178             | ppb          | 166.7     | 0.1         | 244030            |
| Cd 226.502   | 21.2415            | ppb          | 0.0977    | 0.5         | 726.287           |
| Co 228.615   | 21.7162            | ppb          | 0.2680    | 1.2         | 247.685           |
| Cr 267.716   | 44.0050            | ppb          | 0.2505    | 0.6         | 1999.65           |
| Cu 324.754   | 45.1028            | ppb          | 0.5601    | 1.2         | 2563.25           |
| Fe 271.441   | 2106.67            | ppb          | 6.4750    | 0.3         | 3242.88           |
| K 766.491    | 4636.44            | ppb          | 18.9598   | 0.4         | 150696            |
| Mg 279.078   | 9144.24            | ppb          | 11.3746   | 0.1         | 19281.6           |
| Mn 257.610   | 220.381            | ppb          | 0.4161    | 0.2         | 48118.7           |
| Mo 202.032   | 43.2222            | ppb          | 0.1894    | 0.4         | 291.837           |
| Na 330.237   | 36187.4            | ppb          | 140.139   | 0.4         | 1733.02           |
| Ni 231.604   | 43.9028            | ppb          | 1.4271    | 3.3         | 111.946           |
| Pb 220.353   | 18.7272            | ppb          | 1.2665    | 6.8         | 50.9423           |
| Sb 206.834   | 24.2319            | ppb          | 3.9713    | 16.4        | 18.3825           |
| Se 196.026   | 45.9052            | ppb          | 1.7405    | 3.8         | 28.7954           |
| Sn 189.925   | 85.0425            | ppb          | 2.1166    | 2.5         | 56.3687           |
| Sr 216.596   | 262.013            | ppb          | 1.4820    | 0.6         | 2744.79           |
| Ti 334.941   | 41.3861            | ppb          | 0.1238    | 0.3         | 10364.3           |
| Tl 190.794   | 16.2466            | ppb          | 1.7817    | 11.0        | -0.7591           |
| V 292.401    | 42.8655            | ppb          | 0.1991    | 0.5         | 989.564           |
| Zn 206.200   | 51.1665            | ppb          | 0.2937    | 0.6         | 5136901           |



680-90512-y-8-g msd (Samp) 5/29/2013, 6:21:46 AM Rack 4, Tube 32

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 22.1196                  | 22.2634 | 22.5599 |
| Al 308.215 | 2167.09                  | 2170.04 | 2175.81 |
| As 188.980 | 49.6772                  | 47.9596 | 45.2522 |
| B 249.678  | 128.856                  | 130.252 | 128.870 |
| Ba 389.178 | 52.9857                  | 53.6804 | 53.7788 |
| Be 313.042 | 21.4000                  | 21.4572 | 21.4440 |
| Ca 370.602 | 115931                   | 117021  | 116486  |
| Cd 226.502 | 20.6936                  | 20.6946 | 21.0354 |
| Co 228.615 | 21.0100                  | 20.3911 | 21.3747 |
| Cr 267.716 | 42.1885                  | 42.3775 | 42.6909 |
| Cu 324.754 | 43.0058                  | 43.2381 | 43.2421 |
| Fe 271.441 | 2038.50                  | 2040.73 | 2041.86 |
| K 766.491  | 4453.38                  | 4464.51 | 4477.74 |
| Mg 279.078 | 8800.71                  | 8824.83 | 8823.83 |
| Mn 257.610 | 213.288                  | 214.242 | 214.232 |
| Mo 202.032 | 40.9825                  | 41.7217 | 41.9819 |
| Na 330.237 | 34874.5                  | 34665.9 | 35064.3 |
| Ni 231.604 | 41.0318                  | 40.7553 | 42.6282 |
| Pb 220.353 | 20.9063                  | 20.5187 | 19.3659 |
| Sb 206.834 | 20.0340                  | 19.9313 | 20.7403 |
| Se 196.026 | 43.0633                  | 44.1072 | 40.8894 |
| Sn 189.925 | 86.1959                  | 82.2700 | 80.1161 |
| Sr 216.596 | 251.031                  | 253.247 | 253.215 |
| Ti 334.941 | 39.7855                  | 40.0401 | 40.0125 |
| Tl 190.794 | 13.4502                  | 19.4156 | 19.2447 |
| V 292.401  | 41.5786                  | 41.7173 | 41.7897 |
| Zn 206.200 | 49.9580                  | 47.5908 | 50.2023 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 22.3143     | ppb   | 0.2245  | 1.0  | 1520.07    |
| Al 308.215 | 2170.98     | ppb   | 4.4357  | 0.2  | 12986.5    |
| As 188.980 | 47.6297     | ppb   | 2.2309  | 4.7  | 24.0666    |
| B 249.678  | 129.326     | ppb   | 0.8024  | 0.6  | 1839.42    |
| Ba 389.178 | 53.4816     | ppb   | 0.4323  | 0.8  | 983.552    |
| Be 313.042 | 21.4338     | ppb   | 0.0300  | 0.1  | 37618.4    |
| Ca 370.602 | 116479      | ppb   | 544.9   | 0.5  | 234566     |
| Cd 226.502 | 20.8078     | ppb   | 0.1970  | 0.9  | 711.788    |
| Co 228.615 | 20.9253     | ppb   | 0.4972  | 2.4  | 238.799    |
| Cr 267.716 | 42.4190     | ppb   | 0.2538  | 0.6  | 1927.80    |
| Cu 324.754 | 43.1620     | ppb   | 0.1353  | 0.3  | 2459.65    |
| Fe 271.441 | 2040.36     | ppb   | 1.7047  | 0.1  | 3141.42    |
| K 766.491  | 4465.21     | ppb   | 12.1956 | 0.3  | 145141     |
| Mg 279.078 | 8816.46     | ppb   | 13.6450 | 0.2  | 18591.6    |
| Mn 257.610 | 213.920     | ppb   | 0.5481  | 0.3  | 46708.4    |
| Mo 202.032 | 41.5620     | ppb   | 0.5185  | 1.2  | 280.973    |
| Na 330.237 | 34868.2     | ppb   | 199.289 | 0.6  | 1671.51    |
| Ni 231.604 | 41.4718     | ppb   | 1.0110  | 2.4  | 105.639    |
| Pb 220.353 | 20.2637     | ppb   | 0.8012  | 4.0  | 53.2240    |
| Sb 206.834 | 20.2352     | ppb   | 0.4404  | 2.2  | 14.5531    |
| Se 196.026 | 42.6866     | ppb   | 1.6416  | 3.8  | 27.2820    |
| Sn 189.925 | 82.8607     | ppb   | 3.0826  | 3.7  | 54.5920    |
| Sr 216.596 | 252.498     | ppb   | 1.2705  | 0.5  | 2645.75    |
| Ti 334.941 | 39.9460     | ppb   | 0.1397  | 0.3  | 10001.6    |
| Tl 190.794 | 17.3702     | ppb   | 3.3959  | 19.6 | 0.1597     |
| V 292.401  | 41.6952     | ppb   | 0.1073  | 0.3  | 962.211    |
| Zn 206.200 | 49.2504     | ppb   | 1.4424  | 2.9  | 69.2026    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90554-t-1-b (Samp)**                      **5/29/2013, 6:26:24 AM**                      **Rack 4, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.4168u                 | -0.2928u | 0.0810u  |
| Al 308.215 | 14.9309                  | 10.0668  | 10.4892  |
| As 188.980 | 0.7612                   | -1.2864u | 0.0811   |
| B 249.678  | 300.918                  | 301.669  | 302.191  |
| Ba 389.178 | 137.193                  | 136.840  | 135.410  |
| Be 313.042 | -0.0114u                 | -0.0095u | -0.0082u |
| Ca 370.602 | 38922                    | 38800    | 39054    |
| Cd 226.502 | -0.0002                  | -0.0043  | -0.0134  |
| Co 228.615 | 0.4103                   | 0.1965   | 0.7370   |
| Cr 267.716 | 0.2202                   | 0.3202   | 0.2924   |
| Cu 324.754 | 1.9173                   | 1.6131   | 1.6280   |
| Fe 271.441 | 2548.34                  | 2540.66  | 2544.68  |
| K 766.491  | 8234.24                  | 8194.85  | 8197.98  |
| Mg 279.078 | 18230.6                  | 18221.1  | 18184.8  |
| Mn 257.610 | 101.761                  | 101.620  | 101.693  |
| Mo 202.032 | 7.1488                   | 6.4011   | 7.4416   |
| Na 330.237 | 60092.3                  | 59687.2  | 59720.9  |
| Ni 231.604 | 1.8714                   | 2.7961   | 3.7327   |
| Pb 220.353 | -0.4998u                 | -0.9362u | -0.8878u |
| Sb 206.834 | 2.5106                   | 1.4899   | 5.8681   |
| Se 196.026 | 7.7314                   | -4.1843u | 1.3377   |
| Sn 189.925 | -2.2495u                 | -0.6936u | -4.2525u |
| Sr 216.596 | 1452.13                  | 1451.17  | 1448.33  |
| Ti 334.941 | -0.0672                  | -0.0796  | -0.0246  |
| Tl 190.794 | 2.5665                   | 5.8226   | -1.1912u |
| V 292.401  | 0.1735                   | 0.0588   | 0.2303   |
| Zn 206.200 | 1154.30                  | 1157.76  | 1162.66  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2095     | ppb   | 0.2591  | 123.7 | -121.367   |
| Al 308.215 | 11.8290     | ppb   | 2.6946  | 22.8  | 253.734    |
| As 188.980 | -0.1480     | ppb   | 1.0428  | 704.6 | -4.1589    |
| B 249.678  | 301.593     | ppb   | 0.6401  | 0.2   | 4152.23    |
| Ba 389.178 | 136.481     | ppb   | 0.9446  | 0.7   | 2513.85    |
| Be 313.042 | -0.0097     | ppb   | 0.0016  | 17.0  | -258.787   |
| Ca 370.602 | 38925       | ppb   | 127.0   | 0.3   | 78282      |
| Cd 226.502 | -0.0060     | ppb   | 0.0067  | 112.9 | 24.9872    |
| Co 228.615 | 0.4480      | ppb   | 0.2722  | 60.8  | 8.5204     |
| Cr 267.716 | 0.2776      | ppb   | 0.0516  | 18.6  | 20.7915    |
| Cu 324.754 | 1.7195      | ppb   | 0.1715  | 10.0  | 248.204    |
| Fe 271.441 | 2544.56     | ppb   | 3.8414  | 0.2   | 3909.35    |
| K 766.491  | 8209.02     | ppb   | 21.8926 | 0.3   | 266585     |
| Mg 279.078 | 18212.2     | ppb   | 24.1669 | 0.1   | 38376.1    |
| Mn 257.610 | 101.691     | ppb   | 0.0707  | 0.1   | 22329.8    |
| Mo 202.032 | 6.9972      | ppb   | 0.5366  | 7.7   | 54.7076    |
| Na 330.237 | 59833.4     | ppb   | 224.766 | 0.4   | 2821.47    |
| Ni 231.604 | 2.8000      | ppb   | 0.9306  | 33.2  | 5.3590     |
| Pb 220.353 | -0.7746     | ppb   | 0.2392  | 30.9  | 22.0734    |
| Sb 206.834 | 3.2895      | ppb   | 2.2907  | 69.6  | -1.7859    |
| Se 196.026 | 1.6283      | ppb   | 5.9632  | 366.2 | 7.9741     |
| Sn 189.925 | -2.3986     | ppb   | 1.7841  | 74.4  | -14.7625   |
| Sr 216.596 | 1450.54     | ppb   | 1.9787  | 0.1   | 15047.7    |
| Ti 334.941 | -0.0571     | ppb   | 0.0289  | 50.5  | -1.3053    |
| Tl 190.794 | 2.3993      | ppb   | 3.5099  | 146.3 | -12.0650   |
| V 292.401  | 0.1542      | ppb   | 0.0874  | 56.7  | -13.0299   |
| Zn 206.200 | 1158.24     | ppb   | 4.2923  | 301.4 | 1511.67    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90573-a-1-a (Samp) 5/29/2013, 6:31:02 AM Rack 4, Tube 34

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1258u                 | 0.0094u  | 0.1321   |
| Al 308.215 | 234.723                  | 236.631  | 234.162  |
| As 188.980 | -2.8199u                 | -6.1805u | -0.7612u |
| B 249.678  | 61.0681                  | 60.4015  | 60.4810  |
| Ba 389.178 | 46.4522                  | 46.7491  | 47.1482  |
| Be 313.042 | 0.0146                   | 0.0117   | 0.0094   |
| Ca 370.602 | 28265                    | 28088    | 27952    |
| Cd 226.502 | 0.1104                   | 0.1979   | 0.1161   |
| Co 228.615 | 0.5038                   | 0.3163   | 0.2010   |
| Cr 267.716 | 2.4960                   | 2.5175   | 2.4078   |
| Cu 324.754 | 139.791                  | 140.499  | 139.863  |
| Fe 271.441 | 1251.49                  | 1259.63  | 1243.62  |
| K 766.491  | 12091.4                  | 12030.1  | 11991.3  |
| Mg 279.078 | 8838.71                  | 8812.05  | 8811.39  |
| Mn 257.610 | 16.1470                  | 16.1125  | 16.0990  |
| Mo 202.032 | 1.9880                   | 1.4465   | 1.4757   |
| Na 330.237 | 91939.8x                 | 91807.0x | 91396.0  |
| Ni 231.604 | 3.5296                   | 3.2990   | 4.3169   |
| Pb 220.353 | 7.6244                   | 0.5802   | 1.9396   |
| Sb 206.834 | 4.6612                   | 1.9032   | 5.0252   |
| Se 196.026 | -8.4791u                 | -1.1560u | -1.1046u |
| Sn 189.925 | 0.8912                   | 1.7762   | -3.7403u |
| Sr 216.596 | 185.372                  | 184.370  | 182.984  |
| Ti 334.941 | 38.4987                  | 39.1191  | 40.4957  |
| Tl 190.794 | 2.4924                   | 1.6361   | 0.3401   |
| V 292.401  | 0.4013                   | 0.9310   | 0.5907   |
| Zn 206.200 | 145.633                  | 145.946  | 141.513  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0052b     | ppb   | 0.1290  | 2470.8 | -52.8553   |
| Al 308.215 | 235.172b    | ppb   | 1.2944  | 0.6    | 1571.06    |
| As 188.980 | -3.2538b    | ppb   | 2.7356  | 84.1   | -5.9772    |
| B 249.678  | 60.6502b    | ppb   | 0.3641  | 0.6    | 918.523    |
| Ba 389.178 | 46.7832b    | ppb   | 0.3492  | 0.7    | 860.557    |
| Be 313.042 | 0.0119b     | ppb   | 0.0026  | 21.7   | -226.840   |
| Ca 370.602 | 28102b      | ppb   | 156.9   | 0.6    | 56553      |
| Cd 226.502 | 0.1414b     | ppb   | 0.0489  | 34.6   | 26.3072    |
| Co 228.615 | 0.3404b     | ppb   | 0.1528  | 44.9   | 8.2789     |
| Cr 267.716 | 2.4738b     | ppb   | 0.0581  | 2.4    | 120.176    |
| Cu 324.754 | 140.051b    | ppb   | 0.3898  | 0.3    | 7627.83    |
| Fe 271.441 | 1251.58b    | ppb   | 8.0030  | 0.6    | 1933.02    |
| K 766.491  | 12037.6b    | ppb   | 50.4738 | 0.4    | 390778     |
| Mg 279.078 | 8820.71b    | ppb   | 15.5869 | 0.2    | 18604.1    |
| Mn 257.610 | 16.1195b    | ppb   | 0.0247  | 0.2    | 3611.57    |
| Mo 202.032 | 1.6367b     | ppb   | 0.3045  | 18.6   | 19.6679    |
| Na 330.237 | 91714.3xb   | ppb   | 283.495 | 0.3    | 4322.90    |
| Ni 231.604 | 3.7152b     | ppb   | 0.5337  | 14.4   | 7.7059     |
| Pb 220.353 | 3.3814b     | ppb   | 3.7369  | 110.5  | 28.1347    |
| Sb 206.834 | 3.8632b     | ppb   | 1.7072  | 44.2   | -1.1804    |
| Se 196.026 | -3.5799b    | ppb   | 4.2429  | 118.5  | 5.5037     |
| Sn 189.925 | -0.3577b    | ppb   | 2.9627  | 828.4  | -13.0966   |
| Sr 216.596 | 184.242b    | ppb   | 1.1988  | 0.7    | 1930.31    |
| Ti 334.941 | 39.3712b    | ppb   | 1.0221  | 2.6    | 9853.39    |
| Tl 190.794 | 1.4895b     | ppb   | 1.0836  | 72.8   | -12.7034   |
| V 292.401  | 0.6410b     | ppb   | 0.2684  | 41.9   | -0.6322    |
| Zn 206.200 | 144.364b    | ppb   | 2.4739  | 302.1  | 513.026    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90639-a-1-a (Samp)**                      **5/29/2013, 6:35:40 AM**                      **Rack 4, Tube 35****Weight: 1**    **Volume: 1**    **Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |          |          |
|--------------|---------------------------------|----------|----------|
| Ag 328.068   | 1.5364                          | 1.4719   | 1.3721   |
| Al 308.215   | 20.1487                         | 22.6383  | 22.2132  |
| As 188.980   | 2.2257                          | 1.2589   | 2.2771   |
| B 249.678    | 9.7096                          | 9.1968   | 8.5811   |
| Ba 389.178   | 14.5410                         | 15.0972  | 15.2205  |
| Be 313.042   | -0.0020u                        | -0.0023u | 0.0028   |
| Ca 370.602   | 5304                            | 5289     | 5288     |
| Cd 226.502   | -0.0341u                        | -0.1805u | -0.2793u |
| Co 228.615   | 0.4849                          | -0.1605u | 0.3474   |
| Cr 267.716   | 0.5011                          | 0.3779   | 0.5016   |
| Cu 324.754   | 114.984                         | 113.384  | 113.134  |
| Fe 271.441   | 43.0910                         | 44.7338  | 38.8680  |
| K 766.491    | 593.546                         | 592.919  | 591.003  |
| Mg 279.078   | 1248.05                         | 1248.61  | 1246.28  |
| Mn 257.610   | 18.6023                         | 18.6423  | 18.5308  |
| Mo 202.032   | -0.2917u                        | 0.7103   | 0.1312   |
| Na 330.237   | 7567.17                         | 7395.44  | 7437.21  |
| Ni 231.604   | 0.6656                          | 1.0509   | 1.9997   |
| Pb 220.353   | -1.0884u                        | -2.1735u | -2.7962u |
| Sb 206.834   | 4.1620                          | 3.7106   | 2.0932   |
| Se 196.026   | 1.0901                          | 0.3617   | -4.7901u |
| Sn 189.925   | 0.1699                          | 0.6999   | -0.1476u |
| Sr 216.596   | 18.7261                         | 18.0781  | 18.0447  |
| Ti 334.941   | 0.3527                          | 0.3849   | 0.3495   |
| Tl 190.794   | 4.6906                          | 8.0241   | 0.5198   |
| V 292.401    | -0.0484u                        | -0.3765u | 0.1328   |
| Zn 206.200   | 5.7900                          | 7.6863   | 4.4031   |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | 1.4601             | ppb          | 0.0828    | 5.7         | 57.0034           |
| Al 308.215   | 21.6667            | ppb          | 1.3317    | 6.1         | 311.477           |
| As 188.980   | 1.9206             | ppb          | 0.5736    | 29.9        | -2.9124           |
| B 249.678    | 9.1625             | ppb          | 0.5650    | 6.2         | 229.222           |
| Ba 389.178   | 14.9529            | ppb          | 0.3620    | 2.4         | 264.352           |
| Be 313.042   | -0.0005            | ppb          | 0.0028    | 544.9       | -246.303          |
| Ca 370.602   | 5293               | ppb          | 8.728     | 0.2         | 10651             |
| Cd 226.502   | -0.1646            | ppb          | 0.1234    | 74.9        | 13.4340           |
| Co 228.615   | 0.2239             | ppb          | 0.3399    | 151.8       | 6.0986            |
| Cr 267.716   | 0.4602             | ppb          | 0.0712    | 15.5        | 27.3152           |
| Cu 324.754   | 113.834            | ppb          | 1.0037    | 0.9         | 6228.71           |
| Fe 271.441   | 42.2309            | ppb          | 3.0260    | 7.2         | 84.4735           |
| K 766.491    | 592.489            | ppb          | 1.3247    | 0.2         | 19515.7           |
| Mg 279.078   | 1247.64            | ppb          | 1.2149    | 0.1         | 2659.44           |
| Mn 257.610   | 18.5918            | ppb          | 0.0565    | 0.3         | 4089.33           |
| Mo 202.032   | 0.1832             | ppb          | 0.5030    | 274.5       | 10.2073           |
| Na 330.237   | 7466.61            | ppb          | 89.5593   | 1.2         | 394.204           |
| Ni 231.604   | 1.2387             | ppb          | 0.6866    | 55.4        | 1.2563            |
| Pb 220.353   | -2.0194            | ppb          | 0.8643    | 42.8        | 20.0576           |
| Sb 206.834   | 3.3220             | ppb          | 1.0878    | 32.7        | -1.7249           |
| Se 196.026   | -1.1128            | ppb          | 3.2054    | 288.1       | 6.6590            |
| Sn 189.925   | 0.2408             | ppb          | 0.4282    | 177.8       | -12.6485          |
| Sr 216.596   | 18.2830            | ppb          | 0.3841    | 2.1         | 208.178           |
| Ti 334.941   | 0.3624             | ppb          | 0.0196    | 5.4         | 39.1132           |
| Tl 190.794   | 4.4115             | ppb          | 3.7599    | 85.2        | -10.2625          |
| V 292.401    | -0.0974            | ppb          | 0.2581    | 265.0       | -17.8169          |
| Zn 206.200   | 5.9598             | ppb          | 1.6482    | 27.6        | 13.0162           |

680-90639-a-2-a (Samp) 5/29/2013, 6:40:18 AM Rack 4, Tube 36  
 Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | 1.3366                   | 1.9648   | 1.4632    |
| Al 308.215 | 38.2224                  | 40.6453  | 43.3294   |
| As 188.980 | 0.3865                   | 2.3782   | -6.7012u  |
| B 249.678  | 6.7998                   | 6.7151   | 7.1268    |
| Ba 389.178 | 17.2867                  | 16.7364  | 17.0396   |
| Be 313.042 | 0.0015                   | -0.0081u | 0.0015    |
| Ca 370.602 | 5334                     | 5337     | 5342      |
| Cd 226.502 | -0.0316u                 | 0.2514   | 0.1827    |
| Co 228.615 | 0.3687                   | 0.3895   | 0.5228    |
| Cr 267.716 | -0.1549u                 | 0.1389   | -0.0753u  |
| Cu 324.754 | 155.826                  | 156.758  | 156.631   |
| Fe 271.441 | 135.992                  | 130.952  | 133.968   |
| K 766.491  | 598.298                  | 598.345  | 601.561   |
| Mg 279.078 | 1258.53                  | 1257.68  | 1265.66   |
| Mn 257.610 | 77.9397                  | 77.7669  | 78.2353   |
| Mo 202.032 | 0.4776                   | -0.3984u | -0.1198u  |
| Na 330.237 | 7558.51                  | 7603.54  | 7578.62   |
| Ni 231.604 | 2.1305                   | 1.4021   | 0.7298    |
| Pb 220.353 | -0.4920u                 | -3.1472u | -2.4505u  |
| Sb 206.834 | 3.3753                   | 5.4989   | 5.8034    |
| Se 196.026 | -5.5434u                 | -0.3281u | -10.4722u |
| Sn 189.925 | -1.4413u                 | 1.8678   | 1.3925    |
| Sr 216.596 | 18.4915                  | 18.3091  | 18.4856   |
| Ti 334.941 | 1.1481                   | 1.1316   | 1.1105    |
| Tl 190.794 | 3.7563                   | 1.6911   | 2.8354    |
| V 292.401  | 0.3541                   | 0.1880   | -0.2681u  |
| Zn 206.200 | 6.9877                   | 5.2706   | 7.5747    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 1.5882      | ppb   | 0.3322  | 20.9   | 66.2880    |
| Al 308.215 | 40.7323     | ppb   | 2.5546  | 6.3    | 423.907    |
| As 188.980 | -1.3122     | ppb   | 4.7721  | 363.7  | -4.8218    |
| B 249.678  | 6.8806      | ppb   | 0.2174  | 3.2    | 198.394    |
| Ba 389.178 | 17.0209     | ppb   | 0.2756  | 1.6    | 302.123    |
| Be 313.042 | -0.0017     | ppb   | 0.0056  | 333.3  | -248.302   |
| Ca 370.602 | 5338        | ppb   | 4.034   | 0.1    | 10737      |
| Cd 226.502 | 0.1342      | ppb   | 0.1476  | 110.0  | 23.5561    |
| Co 228.615 | 0.4270      | ppb   | 0.0836  | 19.6   | 8.4057     |
| Cr 267.716 | -0.0304     | ppb   | 0.1519  | 499.4  | 5.3702     |
| Cu 324.754 | 156.405     | ppb   | 0.5056  | 0.3    | 8499.95    |
| Fe 271.441 | 133.637     | ppb   | 2.5364  | 1.9    | 224.214    |
| K 766.491  | 599.402     | ppb   | 1.8706  | 0.3    | 19740.0    |
| Mg 279.078 | 1260.62     | ppb   | 4.3865  | 0.3    | 2685.83    |
| Mn 257.610 | 77.9807     | ppb   | 0.2369  | 0.3    | 17028.3    |
| Mo 202.032 | -0.0135     | ppb   | 0.4475  | 3310.9 | 8.9143     |
| Na 330.237 | 7580.22     | ppb   | 22.5550 | 0.3    | 399.468    |
| Ni 231.604 | 1.4208      | ppb   | 0.7006  | 49.3   | 1.7302     |
| Pb 220.353 | -2.0299     | ppb   | 1.3766  | 67.8   | 20.0589    |
| Sb 206.834 | 4.8925      | ppb   | 1.3227  | 27.0   | -0.2195    |
| Se 196.026 | -5.4479     | ppb   | 5.0727  | 93.1   | 4.6372     |
| Sn 189.925 | 0.6063      | ppb   | 1.7891  | 295.1  | -12.3511   |
| Sr 216.596 | 18.4287     | ppb   | 0.1036  | 0.6    | 209.785    |
| Ti 334.941 | 1.1301      | ppb   | 0.0189  | 1.7    | 231.822    |
| Tl 190.794 | 2.7609      | ppb   | 1.0346  | 37.5   | -11.6331   |
| V 292.401  | 0.0914      | ppb   | 0.3221  | 352.6  | -13.2958   |
| Zn 206.200 | 6.6110      | ppb   | 1.1974  | 18.1   | 513.8655   |

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**680-90639-a-4-a (Samp)**                      **5/29/2013, 6:54:14 AM**                      **Rack 4, Tube 39**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 9.1160                   | 8.8502   | 9.1013   |
| Al 308.215 | 21.7193                  | 22.5049  | 23.0550  |
| As 188.980 | 3.7736                   | -5.2628u | -2.5145u |
| B 249.678  | 8.4439                   | 8.5534   | 8.4394   |
| Ba 389.178 | 14.3710                  | 15.6693  | 15.6221  |
| Be 313.042 | -0.0003                  | 0.0097   | 0.0092   |
| Ca 370.602 | 5355                     | 5395     | 5413     |
| Cd 226.502 | -0.1092u                 | 0.1342   | -0.1981u |
| Co 228.615 | 0.3116                   | -0.1630u | -0.0021u |
| Cr 267.716 | 0.1403                   | -0.0768u | 0.0908   |
| Cu 324.754 | 382.604                  | 387.514  | 387.584  |
| Fe 271.441 | 34.4286                  | 39.6502  | 44.9993  |
| K 766.491  | 587.123                  | 584.793  | 587.667  |
| Mg 279.078 | 1251.46                  | 1255.44  | 1255.60  |
| Mn 257.610 | 15.7904                  | 15.9826  | 15.9408  |
| Mo 202.032 | -0.3954u                 | 0.0704   | 0.0921   |
| Na 330.237 | 7633.05                  | 7406.43  | 7621.58  |
| Ni 231.604 | 2.3764                   | 1.9123   | 2.6341   |
| Pb 220.353 | -0.6804u                 | -0.2570u | -2.0362u |
| Sb 206.834 | 3.1642                   | 4.6673   | 6.5972   |
| Se 196.026 | -2.9072u                 | 0.8843   | 1.3839   |
| Sn 189.925 | -0.7197u                 | 0.4511   | -0.3695u |
| Sr 216.596 | 18.8027                  | 18.3235  | 18.4766  |
| Ti 334.941 | 0.3358                   | 0.2780   | 0.2771   |
| Tl 190.794 | 0.5416                   | 5.6501   | 2.2634   |
| V 292.401  | 0.4045                   | 0.2121   | 0.1694   |
| Zn 206.200 | 13.8458                  | 15.1195  | 17.1820  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 9.0225      | ppb   | 0.1494  | 1.7    | 590.842    |
| Al 308.215 | 22.4264     | ppb   | 0.6713  | 3.0    | 315.889    |
| As 188.980 | -1.3346     | ppb   | 4.6323  | 347.1  | -4.8342    |
| B 249.678  | 8.4789      | ppb   | 0.0646  | 0.8    | 220.047    |
| Ba 389.178 | 15.2208     | ppb   | 0.7363  | 4.8    | 269.241    |
| Be 313.042 | 0.0062      | ppb   | 0.0056  | 90.5   | -234.381   |
| Ca 370.602 | 5387        | ppb   | 29.53   | 0.5    | 10840      |
| Cd 226.502 | -0.0577     | ppb   | 0.1720  | 298.1  | 16.9587    |
| Co 228.615 | 0.0488      | ppb   | 0.2414  | 494.5  | 4.1333     |
| Cr 267.716 | 0.0514      | ppb   | 0.1138  | 221.3  | 8.7979     |
| Cu 324.754 | 385.901     | ppb   | 2.8554  | 0.7    | 20743.9    |
| Fe 271.441 | 39.6927     | ppb   | 5.2855  | 13.3   | 80.5772    |
| K 766.491  | 586.528     | ppb   | 1.5263  | 0.3    | 19322.4    |
| Mg 279.078 | 1254.16     | ppb   | 2.3470  | 0.2    | 2673.21    |
| Mn 257.610 | 15.9046     | ppb   | 0.1011  | 0.6    | 3503.93    |
| Mo 202.032 | -0.0777     | ppb   | 0.2754  | 354.7  | 8.4986     |
| Na 330.237 | 7553.69     | ppb   | 127.658 | 1.7    | 398.143    |
| Ni 231.604 | 2.3076      | ppb   | 0.3658  | 15.9   | 4.0297     |
| Pb 220.353 | -0.9912     | ppb   | 0.9294  | 93.8   | 21.5850    |
| Sb 206.834 | 4.8096      | ppb   | 1.7209  | 35.8   | -0.3001    |
| Se 196.026 | -0.2130     | ppb   | 2.3466  | 1101.7 | 7.0809     |
| Sn 189.925 | -0.2127     | ppb   | 0.6009  | 282.5  | -13.0171   |
| Sr 216.596 | 18.5343     | ppb   | 0.2448  | 1.3    | 210.783    |
| Ti 334.941 | 0.2970      | ppb   | 0.0336  | 11.3   | 22.7205    |
| Tl 190.794 | 2.8184      | ppb   | 2.5991  | 92.2   | -11.5584   |
| V 292.401  | 0.2620      | ppb   | 0.1253  | 47.8   | -9.2687    |
| Zn 206.200 | 15.3824     | ppb   | 1.6836  | 10.9   | 25.2723    |

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680-90639-a-5-a (Samp) 5/29/2013, 6:58:52 AM Rack 4, Tube 40

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 14.4042                  | 14.9957  | 14.6853  |
| Al 308.215 | 22.7422                  | 22.8692  | 21.8050  |
| As 188.980 | 0.2445                   | -0.0936u | -0.2254u |
| B 249.678  | 6.6767                   | 6.9895   | 6.6676   |
| Ba 389.178 | 13.9211                  | 15.9166  | 14.3101  |
| Be 313.042 | -0.0020u                 | 0.0021   | 0.0009   |
| Ca 370.602 | 5383                     | 5424     | 5332     |
| Cd 226.502 | -0.1836u                 | -0.2303u | -0.0075u |
| Co 228.615 | 0.0271                   | 0.3109   | 0.5477   |
| Cr 267.716 | -0.1073u                 | 0.3538   | -0.0713u |
| Cu 324.754 | 464.112                  | 465.935  | 460.485  |
| Fe 271.441 | 46.2266                  | 39.2983  | 43.2220  |
| K 766.491  | 593.345                  | 602.534  | 589.178  |
| Mg 279.078 | 1256.60                  | 1271.68  | 1247.54  |
| Mn 257.610 | 21.5383                  | 21.7951  | 21.4592  |
| Mo 202.032 | 0.4313                   | 0.4161   | 0.0131   |
| Na 330.237 | 7652.78                  | 7657.28  | 7367.18  |
| Ni 231.604 | -0.8646u                 | 0.7095   | 1.6484   |
| Pb 220.353 | -3.0573u                 | -1.2396u | -1.7258u |
| Sb 206.834 | 2.8154                   | 5.9018   | 3.8453   |
| Se 196.026 | 1.0436                   | 0.2015   | -3.0449u |
| Sn 189.925 | 0.9015                   | -0.2769u | 0.0087   |
| Sr 216.596 | 17.6289                  | 18.9298  | 18.2159  |
| Ti 334.941 | 0.7504                   | 0.7900   | 0.8219   |
| Tl 190.794 | 7.4598                   | -1.1891u | 3.9639   |
| V 292.401  | 0.2362                   | -0.2610u | 0.3352   |
| Zn 206.200 | 13.6031                  | 14.2617  | 14.8567  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 14.6951     | ppb   | 0.2959  | 2.0   | 991.331    |
| Al 308.215 | 22.4721     | ppb   | 0.5812  | 2.6   | 316.192    |
| As 188.980 | -0.0248     | ppb   | 0.2424  | 976.9 | -4.0610    |
| B 249.678  | 6.7779      | ppb   | 0.1832  | 2.7   | 197.189    |
| Ba 389.178 | 14.7159     | ppb   | 1.0578  | 7.2   | 260.065    |
| Be 313.042 | 0.0003      | ppb   | 0.0021  | 622.7 | -244.734   |
| Ca 370.602 | 5379        | ppb   | 46.44   | 0.9   | 10824      |
| Cd 226.502 | -0.1405     | ppb   | 0.1175  | 83.7  | 14.2395    |
| Co 228.615 | 0.2952      | ppb   | 0.2607  | 88.3  | 6.9057     |
| Cr 267.716 | 0.0584      | ppb   | 0.2565  | 439.2 | 9.1406     |
| Cu 324.754 | 463.511     | ppb   | 2.7746  | 0.6   | 24884.5    |
| Fe 271.441 | 42.9157     | ppb   | 3.4743  | 8.1   | 85.5312    |
| K 766.491  | 595.019     | ppb   | 6.8336  | 1.1   | 19597.8    |
| Mg 279.078 | 1258.61     | ppb   | 12.1923 | 1.0   | 2682.48    |
| Mn 257.610 | 21.5975     | ppb   | 0.1756  | 0.8   | 4744.25    |
| Mo 202.032 | 0.2868      | ppb   | 0.2372  | 82.7  | 10.8849    |
| Na 330.237 | 7559.08     | ppb   | 166.210 | 2.2   | 398.406    |
| Ni 231.604 | 0.4978      | ppb   | 1.2698  | 255.1 | -0.6662    |
| Pb 220.353 | -2.0076     | ppb   | 0.9410  | 46.9  | 20.0755    |
| Sb 206.834 | 4.1875      | ppb   | 1.5714  | 37.5  | -0.9001    |
| Se 196.026 | -0.5999     | ppb   | 2.1588  | 359.8 | 6.9005     |
| Sn 189.925 | 0.2111      | ppb   | 0.6147  | 291.2 | -12.6725   |
| Sr 216.596 | 18.2582     | ppb   | 0.6515  | 3.6   | 207.945    |
| Ti 334.941 | 0.7874      | ppb   | 0.0358  | 4.5   | 145.826    |
| Tl 190.794 | 3.4116      | ppb   | 4.3508  | 127.5 | -11.0776   |
| V 292.401  | 0.1035      | ppb   | 0.3195  | 308.7 | -13.0615   |
| Zn 206.200 | 14.2405     | ppb   | 0.6271  | 4.4   | 237872     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90612-x-13-a (Samp)      5/29/2013, 7:03:41 AM      Rack 4, Tube 41  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0491u                  | -0.0429u | 0.0265u  |
| Al 308.215 | 32.8461                  | 31.9969  | 30.8257  |
| As 188.980 | -1.8908u                 | -4.1627u | -2.6007u |
| B 249.678  | 336.038                  | 336.445  | 336.929  |
| Ba 389.178 | 1.1767                   | 1.9746   | 0.5226   |
| Be 313.042 | -0.0112u                 | -0.0107u | -0.0146u |
| Ca 370.602 | 62554                    | 62277    | 62644    |
| Cd 226.502 | -0.1770u                 | 0.0151   | 0.1588   |
| Co 228.615 | -0.3955u                 | 0.1843   | 1.0080   |
| Cr 267.716 | 0.9889                   | 0.8317   | 0.9329   |
| Cu 324.754 | 37.8646                  | 38.3987  | 38.2952  |
| Fe 271.441 | 22.6634                  | 34.7816  | 30.2177  |
| K 766.491  | 7761.09                  | 7756.51  | 7781.86  |
| Mg 279.078 | 16854.4                  | 16781.3  | 16894.0  |
| Mn 257.610 | 2.0371                   | 2.0623   | 2.0440   |
| Mo 202.032 | 2.8837                   | 2.5260   | 3.0416   |
| Na 330.237 | 141190x                  | 140861x  | 141555x  |
| Ni 231.604 | 6.8175                   | 7.1048   | 7.6694   |
| Pb 220.353 | -3.5428u                 | -2.7171u | -1.7003u |
| Sb 206.834 | -2.1437u                 | 8.1024   | 5.8918   |
| Se 196.026 | -2.7262u                 | 1.8654   | 1.8557   |
| Sn 189.925 | -2.2612u                 | -2.0589u | -1.9293u |
| Sr 216.596 | 1000.78                  | 996.128  | 1003.02  |
| Ti 334.941 | 1.0705                   | 1.0957   | 1.0404   |
| Tl 190.794 | -1.3477u                 | 1.0554   | -1.2209u |
| V 292.401  | 1.9577                   | 1.8432   | 1.9470   |
| Zn 206.200 | 6.3820                   | 5.1942   | 7.5405   |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | 0.0109b     | ppb   | 0.0479  | 439.2   | -87.1124   |
| Al 308.215 | 31.8896b    | ppb   | 1.0144  | 3.2     | 371.592    |
| As 188.980 | -2.8847b    | ppb   | 1.1623  | 40.3    | -5.7500    |
| B 249.678  | 336.471b    | ppb   | 0.4461  | 0.1     | 4625.39    |
| Ba 389.178 | 1.2246b     | ppb   | 0.7272  | 59.4    | 46.3448    |
| Be 313.042 | -0.0122b    | ppb   | 0.0021  | 17.6    | -263.288   |
| Ca 370.602 | 62492b      | ppb   | 191.5   | 0.3     | 125885     |
| Cd 226.502 | -0.0010b    | ppb   | 0.1685  | 16468.0 | 18.3315    |
| Co 228.615 | 0.2656b     | ppb   | 0.7053  | 265.5   | 6.5232     |
| Cr 267.716 | 0.9178b     | ppb   | 0.0797  | 8.7     | 50.1591    |
| Cu 324.754 | 38.1861b    | ppb   | 0.2832  | 0.7     | 2192.82    |
| Fe 271.441 | 29.2209b    | ppb   | 6.1203  | 20.9    | 64.6111    |
| K 766.491  | 7766.49b    | ppb   | 13.5083 | 0.2     | 252230     |
| Mg 279.078 | 16843.2b    | ppb   | 57.1693 | 0.3     | 35494.9    |
| Mn 257.610 | 2.0478b     | ppb   | 0.0130  | 0.6     | 604.247    |
| Mo 202.032 | 2.8171b     | ppb   | 0.2642  | 9.4     | 27.4497    |
| Na 330.237 | 141202xb    | ppb   | 346.904 | 0.2     | 6634.31    |
| Ni 231.604 | 7.1972b     | ppb   | 0.4334  | 6.0     | 16.7151    |
| Pb 220.353 | -2.6534b    | ppb   | 0.9229  | 34.8    | 19.1078    |
| Sb 206.834 | 3.9502b     | ppb   | 5.3920  | 136.5   | -1.1520    |
| Se 196.026 | 0.3316b     | ppb   | 2.6482  | 798.5   | 7.3336     |
| Sn 189.925 | -2.0831b    | ppb   | 0.1673  | 8.0     | -14.4681   |
| Sr 216.596 | 999.976b    | ppb   | 3.5151  | 0.4     | 10381.3    |
| Ti 334.941 | 1.0689b     | ppb   | 0.0277  | 2.6     | 269.978    |
| Tl 190.794 | -0.5044b    | ppb   | 1.3523  | 268.1   | -14.2578   |
| V 292.401  | 1.9160b     | ppb   | 0.0632  | 3.3     | 28.6272    |
| Zn 206.200 | 6.3722b     | ppb   | 1.1731  | 18.4    | 5135509    |



**680-90612-x-14-a (Samp)**                      **5/29/2013, 7:08:21 AM**                      **Rack 4, Tube 42**

**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0055u                 | 0.2908   | 0.1721   |
| Al 308.215 | 8.1602                   | 8.3464   | 10.6118  |
| As 188.980 | -2.8103u                 | 2.6047   | -2.0110u |
| B 249.678  | 350.332                  | 353.033  | 361.109  |
| Ba 389.178 | -1.0720u                 | -1.1002u | -0.7194u |
| Be 313.042 | -0.0040u                 | -0.0032u | -0.0074u |
| Ca 370.602 | 6276                     | 6264     | 6379     |
| Cd 226.502 | -0.1267u                 | 0.0629   | -0.0616u |
| Co 228.615 | 0.4670                   | 0.2728   | 0.3158   |
| Cr 267.716 | -0.0955u                 | -0.0321u | 0.0873   |
| Cu 324.754 | 1.4599                   | 1.4614   | 1.8449   |
| Fe 271.441 | 11.4865                  | 10.1753  | 8.9859   |
| K 766.491  | 3111.88                  | 3151.42  | 3208.15  |
| Mg 279.078 | 1629.16                  | 1633.04  | 1659.68  |
| Mn 257.610 | 0.2122                   | 0.2281   | 0.2812   |
| Mo 202.032 | -0.0495u                 | -0.4379u | 0.1619   |
| Na 330.237 | 65947.3                  | 66124.1  | 67227.8  |
| Ni 231.604 | 1.6902                   | 1.0297   | 1.4171   |
| Pb 220.353 | -3.0211u                 | -0.9943u | 0.2545   |
| Sb 206.834 | 5.3895                   | 6.9984   | -3.4839u |
| Se 196.026 | -1.4503u                 | -4.2206u | 0.6377   |
| Sn 189.925 | -0.1221u                 | 1.1841   | 1.3474   |
| Sr 216.596 | 104.135                  | 106.396  | 106.843  |
| Ti 334.941 | 0.0568                   | 0.0644   | 0.0287   |
| Tl 190.794 | 4.4536                   | 4.6689   | -0.8811u |
| V 292.401  | 0.7071                   | 0.5536   | 0.1570   |
| Zn 206.200 | 0.9672                   | 1.6602   | 1.9956   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1525      | ppb   | 0.1491  | 97.8  | -39.0820   |
| Al 308.215 | 9.0395      | ppb   | 1.3649  | 15.1  | 236.865    |
| As 188.980 | -0.7389     | ppb   | 2.9231  | 395.6 | -4.4823    |
| B 249.678  | 354.824     | ppb   | 5.6073  | 1.6   | 4871.92    |
| Ba 389.178 | -0.9639     | ppb   | 0.2122  | 22.0  | -24.5936   |
| Be 313.042 | -0.0049     | ppb   | 0.0022  | 45.6  | -260.078   |
| Ca 370.602 | 6306        | ppb   | 63.03   | 1.0   | 12693      |
| Cd 226.502 | -0.0418     | ppb   | 0.0963  | 230.4 | 17.1293    |
| Co 228.615 | 0.3519      | ppb   | 0.1020  | 29.0  | 7.5373     |
| Cr 267.716 | -0.0134     | ppb   | 0.0928  | 690.8 | 6.7655     |
| Cu 324.754 | 1.5887      | ppb   | 0.2218  | 14.0  | 240.217    |
| Fe 271.441 | 10.2159     | ppb   | 1.2508  | 12.2  | 35.5568    |
| K 766.491  | 3157.15     | ppb   | 48.3921 | 1.5   | 102709     |
| Mg 279.078 | 1640.63     | ppb   | 16.6138 | 1.0   | 3487.13    |
| Mn 257.610 | 0.2405      | ppb   | 0.0361  | 15.0  | 93.9066    |
| Mo 202.032 | -0.1085     | ppb   | 0.3042  | 280.3 | 8.2975     |
| Na 330.237 | 66433.0     | ppb   | 693.925 | 1.0   | 3145.66    |
| Ni 231.604 | 1.3790      | ppb   | 0.3319  | 24.1  | 1.6192     |
| Pb 220.353 | -1.2536     | ppb   | 1.6532  | 131.9 | 21.1905    |
| Sb 206.834 | 2.9680      | ppb   | 5.6451  | 190.2 | -2.0654    |
| Se 196.026 | -1.6777     | ppb   | 2.4371  | 145.3 | 6.3892     |
| Sn 189.925 | 0.8031      | ppb   | 0.8054  | 100.3 | -12.1705   |
| Sr 216.596 | 105.791     | ppb   | 1.4519  | 1.4   | 1114.59    |
| Ti 334.941 | 0.0500      | ppb   | 0.0188  | 37.6  | -41.7611   |
| Tl 190.794 | 2.7471      | ppb   | 3.1440  | 114.4 | -11.6082   |
| V 292.401  | 0.4726      | ppb   | 0.2839  | 60.1  | -4.6823    |
| Zn 206.200 | 1.5410      | ppb   | 0.5244  | 34.0  | 732704     |

680-90612-x-15-a (Samp) 5/29/2013, 7:12:59 AM Rack 4, Tube 43

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.3244                   | 0.1454   | 0.3378   |
| Al 308.215 | 10.3132                  | 12.3983  | 12.1649  |
| As 188.980 | -0.4168u                 | 0.3386   | 1.2343   |
| B 249.678  | 362.463                  | 367.287  | 361.657  |
| Ba 389.178 | -0.4460u                 | -0.9456u | -0.4164u |
| Be 313.042 | -0.0007u                 | -0.0011u | -0.0010u |
| Ca 370.602 | 6666                     | 6744     | 6634     |
| Cd 226.502 | 0.1258                   | 0.1946   | 0.2065   |
| Co 228.615 | 0.0372                   | -0.0643u | -0.2702u |
| Cr 267.716 | 0.3228                   | 0.2810   | 0.5753   |
| Cu 324.754 | 9.3833                   | 9.2189   | 8.9773   |
| Fe 271.441 | 32.2032                  | 31.1049  | 36.8834  |
| K 766.491  | 3198.87                  | 3204.49  | 3182.56  |
| Mg 279.078 | 1646.48                  | 1648.03  | 1631.25  |
| Mn 257.610 | 1.6351                   | 1.6345   | 1.6894   |
| Mo 202.032 | 0.3353                   | 0.8395   | -0.1618u |
| Na 330.237 | 67462.5                  | 67467.1  | 66801.1  |
| Ni 231.604 | 5.7131                   | 5.5110   | 4.6165   |
| Pb 220.353 | -2.1419u                 | -2.0166u | 0.9568   |
| Sb 206.834 | 3.7763                   | 7.2001   | 5.0977   |
| Se 196.026 | -9.6145u                 | 0.9133   | 4.0180   |
| Sn 189.925 | -0.8742u                 | -2.5888u | -1.4324u |
| Sr 216.596 | 104.950                  | 105.993  | 104.498  |
| Ti 334.941 | 0.0602                   | -0.0224u | -0.0092u |
| Tl 190.794 | 3.1719                   | 1.3788   | 2.5771   |
| V 292.401  | -0.0025u                 | 0.3591   | 0.5653   |
| Zn 206.200 | 441.453                  | 449.073  | 444.450  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.2692      | ppb   | 0.1074  | 39.9  | -30.8301   |
| Al 308.215 | 11.6255     | ppb   | 1.1424  | 9.8   | 252.187    |
| As 188.980 | 0.3853      | ppb   | 0.8266  | 214.5 | -3.8189    |
| B 249.678  | 363.803     | ppb   | 3.0446  | 0.8   | 4992.46    |
| Ba 389.178 | -0.6027     | ppb   | 0.2973  | 49.3  | -17.9882   |
| Be 313.042 | -0.0010     | ppb   | 0.0002  | 20.8  | -253.159   |
| Ca 370.602 | 6681        | ppb   | 56.76   | 0.8   | 13447      |
| Cd 226.502 | 0.1756      | ppb   | 0.0436  | 24.8  | 24.3779    |
| Co 228.615 | -0.0991     | ppb   | 0.1566  | 158.0 | 2.4560     |
| Cr 267.716 | 0.3930      | ppb   | 0.1592  | 40.5  | 25.1814    |
| Cu 324.754 | 9.1932      | ppb   | 0.2042  | 2.2   | 645.948    |
| Fe 271.441 | 33.3972     | ppb   | 3.0687  | 9.2   | 70.9389    |
| K 766.491  | 3195.30     | ppb   | 11.3921 | 0.4   | 103947     |
| Mg 279.078 | 1641.92     | ppb   | 9.2706  | 0.6   | 3489.83    |
| Mn 257.610 | 1.6530      | ppb   | 0.0315  | 1.9   | 401.705    |
| Mo 202.032 | 0.3377      | ppb   | 0.5007  | 148.3 | 11.2181    |
| Na 330.237 | 67243.6     | ppb   | 383.196 | 0.6   | 3177.51    |
| Ni 231.604 | 5.2802      | ppb   | 0.5836  | 11.1  | 11.7427    |
| Pb 220.353 | -1.0672     | ppb   | 1.7540  | 164.4 | 21.4690    |
| Sb 206.834 | 5.3580      | ppb   | 1.7267  | 32.2  | 0.2229     |
| Se 196.026 | -1.5611     | ppb   | 7.1451  | 457.7 | 6.4444     |
| Sn 189.925 | -1.6318     | ppb   | 0.8745  | 53.6  | -14.1501   |
| Sr 216.596 | 105.147     | ppb   | 0.7666  | 0.7   | 1107.91    |
| Ti 334.941 | 0.0095      | ppb   | 0.0443  | 464.9 | -51.9600   |
| Tl 190.794 | 2.3759      | ppb   | 0.9133  | 38.4  | -11.9135   |
| V 292.401  | 0.3073      | ppb   | 0.2874  | 93.5  | -8.6773    |
| Zn 206.200 | 444.992     | ppb   | 3.8388  | 0.8   | 584.012    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**680-90612-b-1-a (Samp)**      **5/29/2013, 7:17:38 AM**      **Rack 4, Tube 44**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1579u                 | -0.0931u | -0.1738u |
| Al 308.215 | 10.5255                  | 9.7815   | 11.2250  |
| As 188.980 | -3.3029u                 | -0.6506u | -5.4974u |
| B 249.678  | 346.307                  | 345.585  | 346.263  |
| Ba 389.178 | -0.6274u                 | 0.6779   | -0.0620  |
| Be 313.042 | -0.0087u                 | -0.0023u | -0.0010u |
| Ca 370.602 | 6509                     | 6478     | 6448     |
| Cd 226.502 | -0.0052u                 | 0.2009   | -0.0156u |
| Co 228.615 | 0.4159                   | -0.1612u | 0.6619   |
| Cr 267.716 | 0.4462                   | 0.2624   | 0.2924   |
| Cu 324.754 | 22.7133                  | 22.3767  | 22.7513  |
| Fe 271.441 | 13.8856                  | 6.4589   | 8.1948   |
| K 766.491  | 3118.00                  | 3117.95  | 3123.47  |
| Mg 279.078 | 1670.55                  | 1669.40  | 1666.85  |
| Mn 257.610 | 0.3348                   | 0.3606   | 0.3595   |
| Mo 202.032 | -0.6567u                 | 0.0677   | -0.0332u |
| Na 330.237 | 65462.8                  | 65522.1  | 65308.3  |
| Ni 231.604 | 11.7888                  | 12.3763  | 10.2499  |
| Pb 220.353 | -0.2377u                 | -1.8859u | -0.2721u |
| Sb 206.834 | -0.2885u                 | 3.5101   | -1.2836u |
| Se 196.026 | -1.4015u                 | 5.2152   | -9.7575u |
| Sn 189.925 | 1.0999                   | 1.0587   | 0.6354   |
| Sr 216.596 | 105.969                  | 106.188  | 105.689  |
| Ti 334.941 | 0.0355                   | 0.0678   | 0.0281   |
| Tl 190.794 | 3.9956                   | 6.7590   | 1.6750   |
| V 292.401  | 0.3342                   | 0.2523   | 0.3869   |
| Zn 206.200 | 161.648                  | 161.349  | 160.695  |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.1416     | ppb   | 0.0427  | 30.2    | -59.8572   |
| Al 308.215 | 10.5107     | ppb   | 0.7219  | 6.9     | 245.567    |
| As 188.980 | -3.1503     | ppb   | 2.4270  | 77.0    | -5.9061    |
| B 249.678  | 346.052     | ppb   | 0.4049  | 0.1     | 4754.09    |
| Ba 389.178 | -0.0039     | ppb   | 0.6546  | 16962.5 | -7.0609    |
| Be 313.042 | -0.0040     | ppb   | 0.0041  | 103.7   | -258.285   |
| Ca 370.602 | 6478        | ppb   | 30.94   | 0.5     | 13039      |
| Cd 226.502 | 0.0600      | ppb   | 0.1221  | 203.5   | 20.5076    |
| Co 228.615 | 0.3055      | ppb   | 0.4225  | 138.3   | 7.0194     |
| Cr 267.716 | 0.3337      | ppb   | 0.0986  | 29.5    | 22.4588    |
| Cu 324.754 | 22.6138     | ppb   | 0.2062  | 0.9     | 1361.93    |
| Fe 271.441 | 9.5131      | ppb   | 3.8849  | 40.8    | 34.4765    |
| K 766.491  | 3119.80     | ppb   | 3.1717  | 0.1     | 101498     |
| Mg 279.078 | 1668.93     | ppb   | 1.8935  | 0.1     | 3546.72    |
| Mn 257.610 | 0.3517      | ppb   | 0.0146  | 4.1     | 118.351    |
| Mo 202.032 | -0.2074     | ppb   | 0.3924  | 189.2   | 7.6501     |
| Na 330.237 | 65431.1     | ppb   | 110.356 | 0.2     | 3096.76    |
| Ni 231.604 | 11.4717     | ppb   | 1.0981  | 9.6     | 27.8047    |
| Pb 220.353 | -0.7986     | ppb   | 0.9418  | 117.9   | 21.8670    |
| Sb 206.834 | 0.6460      | ppb   | 2.5298  | 391.6   | -4.2858    |
| Se 196.026 | -1.9812     | ppb   | 7.5031  | 378.7   | 6.2467     |
| Sn 189.925 | 0.9313      | ppb   | 0.2571  | 27.6    | -12.0666   |
| Sr 216.596 | 105.949     | ppb   | 0.2501  | 0.2     | 1116.08    |
| Ti 334.941 | 0.0438      | ppb   | 0.0211  | 48.2    | -43.1226   |
| Tl 190.794 | 4.1432      | ppb   | 2.5452  | 61.4    | -10.4720   |
| V 292.401  | 0.3245      | ppb   | 0.0678  | 20.9    | -8.1757    |
| Zn 206.200 | 161.231     | ppb   | 0.4872  | 0.3     | 514.958    |

**680-90612-c-2-a (Samp)**                      **5/29/2013, 7:22:17 AM**                      **Rack 4, Tube 45**

**Weight: 1**    **Volume: 1**    **Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |          |          |
|--------------|---------------------------------|----------|----------|
| Ag 328.068   | 0.0763                          | 0.3398   | -0.1180u |
| Al 308.215   | 9.7410                          | 8.0514   | 9.2029   |
| As 188.980   | 4.9694                          | -0.3620u | -4.0631u |
| B 249.678    | 347.936                         | 349.694  | 350.606  |
| Ba 389.178   | -0.5754u                        | -0.8837u | -0.8796u |
| Be 313.042   | -0.0048u                        | -0.0009u | 0.0012u  |
| Ca 370.602   | 6900                            | 6935     | 6914     |
| Cd 226.502   | -0.0861u                        | 0.0468   | -0.0772u |
| Co 228.615   | -0.2581u                        | 0.5369   | 0.8920   |
| Cr 267.716   | 0.0092                          | 0.0302   | 0.0525   |
| Cu 324.754   | 2.5720                          | 2.3730   | 2.6932   |
| Fe 271.441   | 10.5618                         | 6.5039   | 8.7317   |
| K 766.491    | 3206.20                         | 3204.55  | 3196.29  |
| Mg 279.078   | 1765.74                         | 1768.88  | 1772.40  |
| Mn 257.610   | 0.2004                          | 0.1748   | 0.2094   |
| Mo 202.032   | 0.3313                          | -0.3599u | -0.2636u |
| Na 330.237   | 67201.3                         | 67182.2  | 67268.5  |
| Ni 231.604   | 0.4159                          | 1.9194   | 2.0104   |
| Pb 220.353   | -1.9659u                        | -2.9920u | -2.4753u |
| Sb 206.834   | 3.2381                          | 6.7800   | 6.9276   |
| Se 196.026   | -5.4068u                        | -7.3931u | -8.0485u |
| Sn 189.925   | -1.3343u                        | 3.0996   | -0.8104u |
| Sr 216.596   | 111.864                         | 112.314  | 111.684  |
| Ti 334.941   | 0.0623                          | 0.0392   | -0.0124u |
| Tl 190.794   | 2.9692                          | 5.1475   | 4.6027   |
| V 292.401    | -0.1276u                        | 0.3286   | 0.2257   |
| Zn 206.200   | 12.5345                         | 11.4089  | 11.5386  |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | 0.0994             | ppb          | 0.2298    | 231.2       | -43.1115          |
| Al 308.215   | 8.9985             | ppb          | 0.8632    | 9.6         | 236.676           |
| As 188.980   | 0.1814             | ppb          | 4.5407    | 2502.5      | -3.9389           |
| B 249.678    | 349.412            | ppb          | 1.3570    | 0.4         | 4799.23           |
| Ba 389.178   | -0.7796            | ppb          | 0.1768    | 22.7        | -20.9806          |
| Be 313.042   | -0.0015            | ppb          | 0.0030    | 202.1       | -253.981          |
| Ca 370.602   | 6916               | ppb          | 17.30     | 0.3         | 13922             |
| Cd 226.502   | -0.0388            | ppb          | 0.0743    | 191.4       | 17.2206           |
| Co 228.615   | 0.3903             | ppb          | 0.5889    | 150.9       | 7.9683            |
| Cr 267.716   | 0.0306             | ppb          | 0.0216    | 70.7        | 8.7724            |
| Cu 324.754   | 2.5461             | ppb          | 0.1617    | 6.3         | 291.295           |
| Fe 271.441   | 8.5991             | ppb          | 2.0322    | 23.6        | 33.0863           |
| K 766.491    | 3202.35            | ppb          | 5.3122    | 0.2         | 104176            |
| Mg 279.078   | 1769.00            | ppb          | 3.3296    | 0.2         | 3757.41           |
| Mn 257.610   | 0.1948             | ppb          | 0.0180    | 9.2         | 84.9309           |
| Mo 202.032   | -0.0974            | ppb          | 0.3744    | 384.5       | 8.3711            |
| Na 330.237   | 67217.3            | ppb          | 45.2871   | 0.1         | 3182.12           |
| Ni 231.604   | 1.4486             | ppb          | 0.8955    | 61.8        | 1.7997            |
| Pb 220.353   | -2.4777            | ppb          | 0.5131    | 20.7        | 19.3714           |
| Sb 206.834   | 5.6486             | ppb          | 2.0888    | 37.0        | 0.5032            |
| Se 196.026   | -6.9495            | ppb          | 1.3756    | 19.8        | 3.9133            |
| Sn 189.925   | 0.3183             | ppb          | 2.4229    | 761.1       | -12.5643          |
| Sr 216.596   | 111.954            | ppb          | 0.3246    | 0.3         | 1178.47           |
| Ti 334.941   | 0.0297             | ppb          | 0.0382    | 128.6       | -46.3755          |
| Tl 190.794   | 4.2398             | ppb          | 1.1336    | 26.7        | -10.3930          |
| V 292.401    | 0.1422             | ppb          | 0.2393    | 168.2       | -12.4953          |
| Zn 206.200   | 11.8273            | ppb          | 0.6158    | 5.2         | 20.6484           |

**680-90612-b-3-a (Samp)                      5/29/2013, 7:26:55 AM                      Rack 4, Tube 46**  
**Weight: 1    Volume: 1    Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0172u                 | 0.0205u  | 0.1090   |
| Al 308.215 | 9.2258                   | 7.1365   | 9.4671   |
| As 188.980 | -3.9468u                 | -4.2157u | 0.1535   |
| B 249.678  | 344.146                  | 344.577  | 346.783  |
| Ba 389.178 | 0.4218                   | -1.9047u | -0.0640  |
| Be 313.042 | 0.0054                   | 0.0036   | -0.0016u |
| Ca 370.602 | 6740                     | 6775     | 6806     |
| Cd 226.502 | -0.1233u                 | -0.0112u | -0.2456u |
| Co 228.615 | -0.2631u                 | 0.3018   | 0.0982   |
| Cr 267.716 | -0.0339u                 | -0.1099u | -0.0298u |
| Cu 324.754 | 2.4019                   | 2.1014   | 2.1592   |
| Fe 271.441 | 4.6577                   | 8.7746   | 8.5893   |
| K 766.491  | 3147.19                  | 3152.88  | 3152.04  |
| Mg 279.078 | 1751.04                  | 1745.68  | 1757.42  |
| Mn 257.610 | 0.1248                   | 0.1420   | 0.1653   |
| Mo 202.032 | -0.0123u                 | 0.0805   | -0.7925u |
| Na 330.237 | 65922.2                  | 66165.4  | 65930.9  |
| Ni 231.604 | 1.4996                   | 0.7006   | 0.7503   |
| Pb 220.353 | -2.2048u                 | 0.2685   | -5.6992u |
| Sb 206.834 | -0.5396u                 | 0.8299   | 1.3492   |
| Se 196.026 | -3.9574u                 | -1.6124u | -3.3048u |
| Sn 189.925 | -0.1585u                 | -1.3602u | -3.4314u |
| Sr 216.596 | 111.152                  | 110.663  | 110.240  |
| Ti 334.941 | -0.0145u                 | -0.0259u | 0.0569   |
| Tl 190.794 | 2.3833                   | 0.4644   | 4.8775   |
| V 292.401  | 0.1948                   | 0.3023   | 0.4716   |
| Zn 206.200 | 7.3449                   | 6.9944   | 7.3865   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0374      | ppb   | 0.0647  | 173.0 | -47.4454   |
| Al 308.215 | 8.6098      | ppb   | 1.2816  | 14.9  | 234.361    |
| As 188.980 | -2.6697     | ppb   | 2.4486  | 91.7  | -5.6223    |
| B 249.678  | 345.169     | ppb   | 1.4146  | 0.4   | 4742.24    |
| Ba 389.178 | -0.5156     | ppb   | 1.2272  | 238.0 | -16.2153   |
| Be 313.042 | 0.0025      | ppb   | 0.0036  | 146.9 | -246.893   |
| Ca 370.602 | 6774        | ppb   | 33.02   | 0.5   | 13635      |
| Cd 226.502 | -0.1267     | ppb   | 0.1172  | 92.5  | 14.3163    |
| Co 228.615 | 0.0456      | ppb   | 0.2861  | 626.7 | 4.0972     |
| Cr 267.716 | -0.0579     | ppb   | 0.0451  | 78.0  | 4.7472     |
| Cu 324.754 | 2.2208      | ppb   | 0.1594  | 7.2   | 273.935    |
| Fe 271.441 | 7.3405      | ppb   | 2.3252  | 31.7  | 31.1241    |
| K 766.491  | 3150.70     | ppb   | 3.0711  | 0.1   | 102500     |
| Mg 279.078 | 1751.38     | ppb   | 5.8807  | 0.3   | 3720.31    |
| Mn 257.610 | 0.1441      | ppb   | 0.0203  | 14.1  | 73.7307    |
| Mo 202.032 | -0.2414     | ppb   | 0.4795  | 198.6 | 7.4276     |
| Na 330.237 | 66006.2     | ppb   | 137.935 | 0.2   | 3125.66    |
| Ni 231.604 | 0.9835      | ppb   | 0.4477  | 45.5  | 0.5937     |
| Pb 220.353 | -2.5452     | ppb   | 2.9984  | 117.8 | 19.2714    |
| Sb 206.834 | 0.5465      | ppb   | 0.9758  | 178.6 | -4.3846    |
| Se 196.026 | -2.9582     | ppb   | 1.2103  | 40.9  | 5.7878     |
| Sn 189.925 | -1.6500     | ppb   | 1.6556  | 100.3 | -14.1653   |
| Sr 216.596 | 110.685     | ppb   | 0.4563  | 0.4   | 1165.32    |
| Ti 334.941 | 0.0055      | ppb   | 0.0449  | 817.7 | -52.4503   |
| Tl 190.794 | 2.5751      | ppb   | 2.2128  | 85.9  | -11.7488   |
| V 292.401  | 0.3229      | ppb   | 0.1395  | 43.2  | -8.1942    |
| Zn 206.200 | 7.2419      | ppb   | 0.2154  | 312.8 | 514.6850   |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90612-c-4-a (Samp) 5/29/2013, 7:31:34 AM Rack 4, Tube 47

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.4777                   | 0.3476   | 0.1130   |
| Al 308.215 | 6.1401                   | 8.0725   | 9.1616   |
| As 188.980 | -0.3201u                 | -3.4954u | 1.7642   |
| B 249.678  | 353.120                  | 353.659  | 354.349  |
| Ba 389.178 | -0.3067u                 | 0.3017   | 0.0089   |
| Be 313.042 | -0.0033u                 | -0.0034u | -0.0001u |
| Ca 370.602 | 7073                     | 7049     | 7063     |
| Cd 226.502 | -0.1320u                 | -0.2369u | 0.0609   |
| Co 228.615 | 0.2967                   | -0.0929u | 0.2191   |
| Cr 267.716 | -0.0071                  | 0.5151   | 0.1957   |
| Cu 324.754 | 3.3852                   | 3.4594   | 3.4089   |
| Fe 271.441 | 0.4457                   | 8.8327   | 4.1262   |
| K 766.491  | 3267.89                  | 3258.29  | 3252.36  |
| Mg 279.078 | 1796.18                  | 1791.57  | 1795.42  |
| Mn 257.610 | 0.1517                   | 0.1740   | 0.1996   |
| Mo 202.032 | 0.4502                   | -0.5607u | -0.2268u |
| Na 330.237 | 68060.1                  | 67705.7  | 68021.9  |
| Ni 231.604 | 2.3133                   | 2.3535   | 0.8259   |
| Pb 220.353 | -2.5958u                 | -1.2978u | -4.8129u |
| Sb 206.834 | -0.8072u                 | -4.2640u | 4.0482   |
| Se 196.026 | -4.8798u                 | 5.8094   | -0.8200u |
| Sn 189.925 | 0.3028                   | 0.9862   | -1.6335u |
| Sr 216.596 | 113.680                  | 114.185  | 114.473  |
| Ti 334.941 | 0.0492                   | -0.0357u | 0.0137   |
| Tl 190.794 | 5.2799                   | -0.4763u | 5.2064   |
| V 292.401  | -0.0163u                 | -0.1468u | 0.0513   |
| Zn 206.200 | 19.6949                  | 19.9787  | 16.9184  |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | 0.3128      | ppb   | 0.1848  | 59.1    | -28.1485   |
| Al 308.215 | 7.7914      | ppb   | 1.5302  | 19.6    | 229.596    |
| As 188.980 | -0.6838     | ppb   | 2.6486  | 387.4   | -4.4498    |
| B 249.678  | 353.709     | ppb   | 0.6163  | 0.2     | 4856.95    |
| Ba 389.178 | 0.0013      | ppb   | 0.3043  | 23131.7 | -6.7223    |
| Be 313.042 | -0.0023     | ppb   | 0.0019  | 81.9    | -255.368   |
| Ca 370.602 | 7062        | ppb   | 12.34   | 0.2     | 14215      |
| Cd 226.502 | -0.1027     | ppb   | 0.1511  | 147.2   | 15.1076    |
| Co 228.615 | 0.1410      | ppb   | 0.2062  | 146.3   | 5.1658     |
| Cr 267.716 | 0.2346      | ppb   | 0.2632  | 112.2   | 18.0184    |
| Cu 324.754 | 3.4178      | ppb   | 0.0379  | 1.1     | 337.807    |
| Fe 271.441 | 4.4682      | ppb   | 4.2039  | 94.1    | 26.7422    |
| K 766.491  | 3259.51     | ppb   | 7.8345  | 0.2     | 106030     |
| Mg 279.078 | 1794.39     | ppb   | 2.4749  | 0.1     | 3810.86    |
| Mn 257.610 | 0.1751      | ppb   | 0.0240  | 13.7    | 80.7986    |
| Mo 202.032 | -0.1124     | ppb   | 0.5151  | 458.1   | 8.2728     |
| Na 330.237 | 67929.2     | ppb   | 194.550 | 0.3     | 3215.24    |
| Ni 231.604 | 1.8309      | ppb   | 0.8706  | 47.5    | 2.7922     |
| Pb 220.353 | -2.9022     | ppb   | 1.7775  | 61.2    | 18.7409    |
| Sb 206.834 | -0.3410     | ppb   | 4.1756  | 1224.6  | -5.2335    |
| Se 196.026 | 0.0365      | ppb   | 5.3958  | 14776.3 | 7.1943     |
| Sn 189.925 | -0.1149     | ppb   | 1.3589  | 1183.2  | -12.9162   |
| Sr 216.596 | 114.113     | ppb   | 0.4017  | 0.4     | 1200.84    |
| Ti 334.941 | 0.0091      | ppb   | 0.0427  | 470.1   | -51.5189   |
| Tl 190.794 | 3.3367      | ppb   | 3.3024  | 99.0    | -11.1289   |
| V 292.401  | -0.0373     | ppb   | 0.1007  | 270.0   | -16.7490   |
| Zn 206.200 | 18.8640     | ppb   | 1.6909  | 9.0     | 29.7995    |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90612-b-5-a (Samp) 5/29/2013, 7:36:13 AM Rack 4, Tube 48

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1459                   | 0.0539u  | -0.1181u |
| Al 308.215 | 10.1833                  | 7.9988   | 10.0599  |
| As 188.980 | -3.3156u                 | -1.1051u | -4.5232u |
| B 249.678  | 353.933                  | 357.326  | 357.428  |
| Ba 389.178 | -0.8572u                 | -0.1653  | -1.2832u |
| Be 313.042 | 0.0019u                  | -0.0000u | -0.0078u |
| Ca 370.602 | 7026                     | 7050     | 6990     |
| Cd 226.502 | 0.1302                   | 0.0354   | 0.1073   |
| Co 228.615 | 0.2672                   | 0.1388   | 0.2502   |
| Cr 267.716 | 0.0321                   | -0.0302u | -0.0277u |
| Cu 324.754 | 2.6206                   | 2.7623   | 2.8920   |
| Fe 271.441 | 1.7029                   | 6.3624   | 8.6768   |
| K 766.491  | 3223.58                  | 3248.80  | 3258.50  |
| Mg 279.078 | 1789.94                  | 1802.53  | 1790.36  |
| Mn 257.610 | 0.1382                   | 0.1683   | 0.1443   |
| Mo 202.032 | -0.0430u                 | -0.1192u | -0.4492u |
| Na 330.237 | 67754.3                  | 68340.7  | 67976.3  |
| Ni 231.604 | 1.6814                   | 2.8399   | 2.2221   |
| Pb 220.353 | -2.7946u                 | -3.3641u | 1.6813   |
| Sb 206.834 | 0.5423                   | 3.5983   | 2.6598   |
| Se 196.026 | -2.2411u                 | 7.7473   | -2.2335u |
| Sn 189.925 | -2.1811u                 | -2.1367u | -2.5904u |
| Sr 216.596 | 113.908                  | 114.935  | 114.156  |
| Ti 334.941 | 0.0532                   | -0.0819u | -0.0147u |
| Tl 190.794 | 0.3645                   | 1.2321   | 1.6827   |
| V 292.401  | 0.3628                   | 0.2166   | 0.0231   |
| Zn 206.200 | 6.9095                   | 10.2744  | 8.0156   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0272      | ppb   | 0.1340  | 492.5 | -48.3105   |
| Al 308.215 | 9.4140      | ppb   | 1.2272  | 13.0  | 239.122    |
| As 188.980 | -2.9813     | ppb   | 1.7334  | 58.1  | -5.8063    |
| B 249.678  | 356.229     | ppb   | 1.9894  | 0.6   | 4890.79    |
| Ba 389.178 | -0.7686     | ppb   | 0.5642  | 73.4  | -20.7248   |
| Be 313.042 | -0.0020     | ppb   | 0.0051  | 260.6 | -254.841   |
| Ca 370.602 | 7022        | ppb   | 30.55   | 0.4   | 14135      |
| Cd 226.502 | 0.0910      | ppb   | 0.0495  | 54.4  | 21.5038    |
| Co 228.615 | 0.2187      | ppb   | 0.0697  | 31.9  | 6.0427     |
| Cr 267.716 | -0.0086     | ppb   | 0.0353  | 409.2 | 7.0092     |
| Cu 324.754 | 2.7583      | ppb   | 0.1357  | 4.9   | 302.614    |
| Fe 271.441 | 5.5807      | ppb   | 3.5520  | 63.6  | 28.4523    |
| K 766.491  | 3243.63     | ppb   | 18.0289 | 0.6   | 105515     |
| Mg 279.078 | 1794.28     | ppb   | 7.1493  | 0.4   | 3810.62    |
| Mn 257.610 | 0.1503      | ppb   | 0.0159  | 10.6  | 75.4270    |
| Mo 202.032 | -0.2038     | ppb   | 0.2159  | 105.9 | 7.6744     |
| Na 330.237 | 68023.8     | ppb   | 296.070 | 0.4   | 3219.79    |
| Ni 231.604 | 2.2478      | ppb   | 0.5796  | 25.8  | 3.8736     |
| Pb 220.353 | -1.4925     | ppb   | 2.7633  | 185.1 | 20.8356    |
| Sb 206.834 | 2.2668      | ppb   | 1.5655  | 69.1  | -2.7366    |
| Se 196.026 | 1.0909      | ppb   | 5.7646  | 528.4 | 7.6895     |
| Sn 189.925 | -2.3027     | ppb   | 0.2501  | 10.9  | -14.6953   |
| Sr 216.596 | 114.333     | ppb   | 0.5355  | 0.5   | 1203.12    |
| Ti 334.941 | -0.0145     | ppb   | 0.0675  | 466.2 | -57.4189   |
| Tl 190.794 | 1.0931      | ppb   | 0.6700  | 61.3  | -12.9549   |
| V 292.401  | 0.2008      | ppb   | 0.1704  | 84.8  | -11.0999   |
| Zn 206.200 | 8.3998      | ppb   | 1.7151  | 20.4  | 161908     |

**680-90612-c-6-a (Samp)**                      **5/29/2013, 7:50:08 AM**                      **Rack 4, Tube 51**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0207u                  | 0.0424u  | 0.1492   |
| Al 308.215 | 1.4560                   | -2.2901u | -1.3723u |
| As 188.980 | 4.1142                   | 1.6688   | 6.6376   |
| B 249.678  | 348.257                  | 348.516  | 347.497  |
| Ba 389.178 | 0.9141                   | 0.5586   | 0.6799   |
| Be 313.042 | -0.0165u                 | -0.0011u | -0.0097u |
| Ca 370.602 | 6612                     | 6592     | 6514     |
| Cd 226.502 | 0.0674                   | 0.2159   | 0.0479   |
| Co 228.615 | 0.1999                   | 0.7907   | 0.4920   |
| Cr 267.716 | 0.0417                   | 0.0905   | -0.0836u |
| Cu 324.754 | 3.8654                   | 3.8416   | 3.7070   |
| Fe 271.441 | 5.2238                   | 0.8421   | 6.6730   |
| K 766.491  | 3215.36                  | 3220.12  | 3180.60  |
| Mg 279.078 | 1812.43                  | 1809.73  | 1803.66  |
| Mn 257.610 | 0.2781                   | 0.2129   | 0.2699   |
| Mo 202.032 | 0.5108                   | 0.1509   | 0.2821   |
| Na 330.237 | 67521.1                  | 67461.4  | 66947.7  |
| Ni 231.604 | 2.1535                   | 2.4260   | 1.5728   |
| Pb 220.353 | -1.7310u                 | -4.4544u | -1.2380u |
| Sb 206.834 | 3.5156                   | -0.1048u | 1.2014   |
| Se 196.026 | -3.0444u                 | 1.4743   | 1.7024   |
| Sn 189.925 | 2.1214                   | -2.8802u | -1.7407u |
| Sr 216.596 | 112.998                  | 112.487  | 112.114  |
| Ti 334.941 | 0.0381                   | 0.0411   | 0.0367   |
| Tl 190.794 | 0.6790                   | -0.8629u | 8.0477   |
| V 292.401  | -0.2197u                 | 0.5997   | 0.3424   |
| Zn 206.200 | 7.2110                   | 7.6407   | 7.9911   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0708      | ppb   | 0.0688  | 97.3   | -45.4377   |
| Al 308.215 | -0.7355     | ppb   | 1.9526  | 265.5  | 179.248    |
| As 188.980 | 4.1402      | ppb   | 2.4845  | 60.0   | -1.6017    |
| B 249.678  | 348.090     | ppb   | 0.5297  | 0.2    | 4781.48    |
| Ba 389.178 | 0.7175      | ppb   | 0.1807  | 25.2   | 6.2564     |
| Be 313.042 | -0.0091     | ppb   | 0.0077  | 85.1   | -267.359   |
| Ca 370.602 | 6573        | ppb   | 51.87   | 0.8    | 13230      |
| Cd 226.502 | 0.1104      | ppb   | 0.0919  | 83.2   | 22.1483    |
| Co 228.615 | 0.4942      | ppb   | 0.2954  | 59.8   | 9.1270     |
| Cr 267.716 | 0.0162      | ppb   | 0.0898  | 554.9  | 8.1095     |
| Cu 324.754 | 3.8046      | ppb   | 0.0854  | 2.2    | 358.452    |
| Fe 271.441 | 4.2463      | ppb   | 3.0359  | 71.5   | 26.4486    |
| K 766.491  | 3205.36     | ppb   | 21.5773 | 0.7    | 104273     |
| Mg 279.078 | 1808.60     | ppb   | 4.4902  | 0.2    | 3840.79    |
| Mn 257.610 | 0.2537      | ppb   | 0.0356  | 14.0   | 97.7002    |
| Mo 202.032 | 0.3146      | ppb   | 0.1821  | 57.9   | 11.0685    |
| Na 330.237 | 67310.1     | ppb   | 315.261 | 0.5    | 3186.49    |
| Ni 231.604 | 2.0508      | ppb   | 0.4358  | 21.2   | 3.3617     |
| Pb 220.353 | -2.4745     | ppb   | 1.7323  | 70.0   | 19.3757    |
| Sb 206.834 | 1.5374      | ppb   | 1.8334  | 119.3  | -3.4392    |
| Se 196.026 | 0.0441      | ppb   | 2.6771  | 6072.0 | 7.1979     |
| Sn 189.925 | -0.8332     | ppb   | 2.6214  | 314.6  | -13.5007   |
| Sr 216.596 | 112.533     | ppb   | 0.4436  | 0.4    | 1184.46    |
| Ti 334.941 | 0.0386      | ppb   | 0.0022  | 5.8    | -44.1382   |
| Tl 190.794 | 2.6213      | ppb   | 4.7622  | 181.7  | -11.7103   |
| V 292.401  | 0.2408      | ppb   | 0.4190  | 174.0  | -10.2226   |
| Zn 206.200 | 7.6143      | ppb   | 0.3997  | 5.1    | 151.690    |



**680-90612-b-7-a (Samp)                      5/29/2013, 7:54:47 AM                      Rack 4, Tube 52**  
**Weight: 1    Volume: 1    Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |          |          |
|--------------|---------------------------------|----------|----------|
| Ag 328.068   | 0.3318                          | 0.1377   | -0.1586u |
| Al 308.215   | 2.4382                          | 2.2457   | 0.8189   |
| As 188.980   | -2.5187u                        | 0.8674   | 0.2654   |
| B 249.678    | 356.384                         | 355.214  | 354.893  |
| Ba 389.178   | 1.0980                          | -1.2747u | -0.1881  |
| Be 313.042   | -0.0148u                        | -0.0094u | -0.0038u |
| Ca 370.602   | 6367                            | 6312     | 6315     |
| Cd 226.502   | -0.0701u                        | -0.0930u | -0.0073u |
| Co 228.615   | 1.0829                          | 0.5081   | 0.9250   |
| Cr 267.716   | 0.2373                          | 0.3125   | -0.1227u |
| Cu 324.754   | 4.7598                          | 4.5201   | 4.4855   |
| Fe 271.441   | 74.1481                         | 72.2820  | 81.7264  |
| K 766.491    | 3164.88                         | 3143.69  | 3158.82  |
| Mg 279.078   | 1692.16                         | 1675.68  | 1679.34  |
| Mn 257.610   | 0.6882                          | 0.7403   | 0.7556   |
| Mo 202.032   | -0.6788u                        | -0.0278u | -0.0190u |
| Na 330.237   | 66948.7                         | 66181.1  | 66369.9  |
| Ni 231.604   | 2.8259                          | 0.9518   | 3.1094   |
| Pb 220.353   | -1.6313u                        | -2.3587u | -0.2964u |
| Sb 206.834   | 0.1946                          | -2.5127u | -1.9408u |
| Se 196.026   | -0.0048u                        | -3.4826u | 2.8447   |
| Sn 189.925   | 1.5472                          | -1.4516u | 2.1816   |
| Sr 216.596   | 107.147                         | 106.153  | 106.624  |
| Ti 334.941   | 0.0753                          | 0.0165   | 0.0126   |
| Tl 190.794   | 5.7207                          | 0.5825   | 1.6311   |
| V 292.401    | 0.4146                          | 0.1756   | 0.1946   |
| Zn 206.200   | 15.6156                         | 14.6085  | 14.0510  |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | 0.1036             | ppb          | 0.2470    | 238.3       | -42.7613          |
| Al 308.215   | 1.8343             | ppb          | 0.8846    | 48.2        | 194.365           |
| As 188.980   | -0.4620            | ppb          | 1.8064    | 391.0       | -4.3195           |
| B 249.678    | 355.497            | ppb          | 0.7845    | 0.2         | 4880.83           |
| Ba 389.178   | -0.1216            | ppb          | 1.1878    | 976.9       | -9.1727           |
| Be 313.042   | -0.0093            | ppb          | 0.0055    | 59.2        | -267.726          |
| Ca 370.602   | 6331               | ppb          | 30.91     | 0.5         | 12740             |
| Cd 226.502   | -0.0568            | ppb          | 0.0444    | 78.1        | 16.8059           |
| Co 228.615   | 0.8386             | ppb          | 0.2970    | 35.4        | 13.0174           |
| Cr 267.716   | 0.1424             | ppb          | 0.2326    | 163.4       | 13.8297           |
| Cu 324.754   | 4.5884             | ppb          | 0.1494    | 3.3         | 400.275           |
| Fe 271.441   | 76.0522            | ppb          | 5.0018    | 6.6         | 136.244           |
| K 766.491    | 3155.80            | ppb          | 10.9117   | 0.3         | 102666            |
| Mg 279.078   | 1682.40            | ppb          | 8.6533    | 0.5         | 3575.07           |
| Mn 257.610   | 0.7280             | ppb          | 0.0353    | 4.9         | 200.354           |
| Mo 202.032   | -0.2419            | ppb          | 0.3784    | 156.4       | 7.4216            |
| Na 330.237   | 66499.9            | ppb          | 399.926   | 0.6         | 3148.58           |
| Ni 231.604   | 2.2957             | ppb          | 1.1724    | 51.1        | 3.9979            |
| Pb 220.353   | -1.4288            | ppb          | 1.0460    | 73.2        | 20.9346           |
| Sb 206.834   | -1.4196            | ppb          | 1.4269    | 100.5       | -6.2629           |
| Se 196.026   | -0.2142            | ppb          | 3.1689    | 1479.1      | 7.0769            |
| Sn 189.925   | 0.7591             | ppb          | 1.9406    | 255.7       | -12.2064          |
| Sr 216.596   | 106.641            | ppb          | 0.4972    | 0.5         | 1123.48           |
| Ti 334.941   | 0.0348             | ppb          | 0.0351    | 100.9       | -45.4988          |
| Tl 190.794   | 2.6447             | ppb          | 2.7150    | 102.7       | -11.6941          |
| V 292.401    | 0.2616             | ppb          | 0.1329    | 50.8        | -9.6517           |
| Zn 206.200   | 14.7584            | ppb          | 0.7930    | 5.4         | 244.607           |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

680-90612-c-8-a (Samp) 5/29/2013, 7:59:26 AM Rack 4, Tube 53

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1350                   | 0.1817   | 0.0929   |
| Al 308.215 | 2.7975                   | 3.2639   | 1.8527   |
| As 188.980 | -5.4266u                 | 4.7333   | -2.1737u |
| B 249.678  | 514.590                  | 513.652  | 508.403  |
| Ba 389.178 | 0.7755                   | -0.0916  | -0.3065u |
| Be 313.042 | -0.0081u                 | -0.0126u | -0.0089u |
| Ca 370.602 | 1319                     | 1323     | 1304     |
| Cd 226.502 | 0.0058                   | -0.0643u | 0.0783   |
| Co 228.615 | 0.3300                   | 0.1260   | 0.8415   |
| Cr 267.716 | 0.1961                   | 0.0363   | 0.1709   |
| Cu 324.754 | 7.3159                   | 7.3424   | 7.1916   |
| Fe 271.441 | 97.2738                  | 97.9073  | 93.3996  |
| K 766.491  | 2215.47                  | 2219.70  | 2200.64  |
| Mg 279.078 | 993.774                  | 989.772  | 983.280  |
| Mn 257.610 | 1.0001                   | 1.0619   | 1.0230   |
| Mo 202.032 | 0.2517                   | 0.2145   | 0.3299   |
| Na 330.237 | 53262.6                  | 52961.0  | 52253.7  |
| Ni 231.604 | 2.1186                   | 2.6325   | 1.1400   |
| Pb 220.353 | 6.1523                   | 1.9534   | 8.1257   |
| Sb 206.834 | 3.6873                   | 2.2553   | 0.4333   |
| Se 196.026 | -4.6867u                 | 2.5465   | -1.7787u |
| Sn 189.925 | 0.2873                   | 3.6819   | 0.1255   |
| Sr 216.596 | 30.2071                  | 31.0059  | 30.0223  |
| Ti 334.941 | -0.0045u                 | 0.0200   | 0.0323   |
| Tl 190.794 | 1.1036                   | 4.0568   | 1.1021   |
| V 292.401  | 0.4789                   | 0.4884   | 0.2955   |
| Zn 206.200 | 26.9838                  | 28.2486  | 25.7137  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1366      | ppb   | 0.0444  | 32.5   | -37.0559   |
| Al 308.215 | 2.6380      | ppb   | 0.7190  | 27.3   | 199.121    |
| As 188.980 | -0.9557     | ppb   | 5.1883  | 542.9  | -4.6113    |
| B 249.678  | 512.215     | ppb   | 3.3346  | 0.7    | 6985.68    |
| Ba 389.178 | 0.1258      | ppb   | 0.5728  | 455.5  | -6.0231    |
| Be 313.042 | -0.0099     | ppb   | 0.0024  | 24.3   | -269.061   |
| Ca 370.602 | 1315        | ppb   | 10.02   | 0.8    | 2632       |
| Cd 226.502 | 0.0066      | ppb   | 0.0713  | 1078.6 | 19.0228    |
| Co 228.615 | 0.4325      | ppb   | 0.3686  | 85.2   | 8.4352     |
| Cr 267.716 | 0.1344      | ppb   | 0.0859  | 63.9   | 13.2492    |
| Cu 324.754 | 7.2833      | ppb   | 0.0805  | 1.1    | 544.071    |
| Fe 271.441 | 96.1936     | ppb   | 2.4403  | 2.5    | 166.987    |
| K 766.491  | 2211.94     | ppb   | 10.0122 | 0.5    | 72048.2    |
| Mg 279.078 | 988.942     | ppb   | 5.2958  | 0.5    | 2115.06    |
| Mn 257.610 | 1.0283      | ppb   | 0.0312  | 3.0    | 260.682    |
| Mo 202.032 | 0.2653      | ppb   | 0.0589  | 22.2   | 10.7413    |
| Na 330.237 | 52825.8     | ppb   | 517.876 | 1.0    | 2510.37    |
| Ni 231.604 | 1.9637      | ppb   | 0.7582  | 38.6   | 3.1379     |
| Pb 220.353 | 5.4105      | ppb   | 3.1523  | 58.3   | 31.0985    |
| Sb 206.834 | 2.1253      | ppb   | 1.6309  | 76.7   | -2.8726    |
| Se 196.026 | -1.3063     | ppb   | 3.6397  | 278.6  | 6.5641     |
| Sn 189.925 | 1.3649      | ppb   | 2.0082  | 147.1  | -11.7206   |
| Sr 216.596 | 30.4118     | ppb   | 0.5228  | 1.7    | 333.433    |
| Ti 334.941 | 0.0159      | ppb   | 0.0187  | 117.6  | -52.0211   |
| Tl 190.794 | 2.0875      | ppb   | 1.7055  | 81.7   | -12.1501   |
| V 292.401  | 0.4210      | ppb   | 0.1088  | 25.8   | -5.8760    |
| Zn 206.200 | 26.9820     | ppb   | 1.2675  | 4.7    | 403588     |

680-90612-b-9-a (Samp) 5/29/2013, 8:04:04 AM Rack 4, Tube 54  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2606u                  | -0.0663u | -0.1277u |
| Al 308.215 | 17.4100                  | 16.1504  | 16.6745  |
| As 188.980 | -1.6185u                 | -2.2422u | -1.3413u |
| B 249.678  | 353.974                  | 354.697  | 356.699  |
| Ba 389.178 | 1.5820                   | 0.6697   | 0.4398   |
| Be 313.042 | -0.0198u                 | -0.0127u | -0.0082u |
| Ca 370.602 | 34370                    | 34362    | 34364    |
| Cd 226.502 | 0.0039u                  | -0.0646u | -0.0103u |
| Co 228.615 | 0.7677                   | -0.5301u | 0.3207   |
| Cr 267.716 | 0.6718                   | 0.6019   | 0.6206   |
| Cu 324.754 | 18.3815                  | 18.4576  | 18.3384  |
| Fe 271.441 | 37.7470                  | 31.5842  | 32.1388  |
| K 766.491  | 5470.64                  | 5492.58  | 5472.85  |
| Mg 279.078 | 9766.56                  | 9761.47  | 9786.59  |
| Mn 257.610 | 0.6035                   | 0.6341   | 0.6013   |
| Mo 202.032 | 1.5804                   | 1.5967   | 0.8568   |
| Na 330.237 | 105775x                  | 105816x  | 105862x  |
| Ni 231.604 | 5.4015                   | 5.6127   | 4.4764   |
| Pb 220.353 | -0.6311u                 | -1.9024u | -1.1982u |
| Sb 206.834 | 3.6490                   | 4.4223   | 10.4876  |
| Se 196.026 | -3.2087u                 | -2.1997u | 0.1820   |
| Sn 189.925 | -0.7549u                 | 0.8382   | -1.5569u |
| Sr 216.596 | 586.069                  | 589.168  | 589.668  |
| Ti 334.941 | 0.5284                   | 0.4984   | 0.4928   |
| Tl 190.794 | 1.1957                   | 1.9422   | 1.6956   |
| V 292.401  | 1.0869                   | 1.0417   | 1.4910   |
| Zn 206.200 | 19.7842                  | 20.4282  | 20.7129  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0222b     | ppb   | 0.2087  | 940.1 | -69.3444   |
| Al 308.215 | 16.7450b    | ppb   | 0.6327  | 3.8   | 282.288    |
| As 188.980 | -1.7340b    | ppb   | 0.4614  | 26.6  | -5.0704    |
| B 249.678  | 355.123b    | ppb   | 1.4114  | 0.4   | 4875.91    |
| Ba 389.178 | 0.8972b     | ppb   | 0.6041  | 67.3  | 25.6679    |
| Be 313.042 | -0.0136b    | ppb   | 0.0058  | 42.9  | -270.405   |
| Ca 370.602 | 34365b      | ppb   | 4.112   | 0.0   | 69220      |
| Cd 226.502 | -0.0236b    | ppb   | 0.0361  | 152.9 | 17.6763    |
| Co 228.615 | 0.1861b     | ppb   | 0.6593  | 354.3 | 5.6515     |
| Cr 267.716 | 0.6314b     | ppb   | 0.0362  | 5.7   | 36.5980    |
| Cu 324.754 | 18.3925b    | ppb   | 0.0604  | 0.3   | 1136.77    |
| Fe 271.441 | 33.8233b    | ppb   | 3.4093  | 10.1  | 71.6318    |
| K 766.491  | 5478.69b    | ppb   | 12.0784 | 0.2   | 178017     |
| Mg 279.078 | 9771.54b    | ppb   | 13.2814 | 0.1   | 20606.1    |
| Mn 257.610 | 0.6130b     | ppb   | 0.0183  | 3.0   | 236.472    |
| Mo 202.032 | 1.3447b     | ppb   | 0.4226  | 31.4  | 17.8101    |
| Na 330.237 | 105818xb    | ppb   | 43.8130 | 0.0   | 4983.09    |
| Ni 231.604 | 5.1635b     | ppb   | 0.6044  | 11.7  | 11.4388    |
| Pb 220.353 | -1.2439b    | ppb   | 0.6369  | 51.2  | 21.2042    |
| Sb 206.834 | 6.1863b     | ppb   | 3.7450  | 60.5  | 1.0071     |
| Se 196.026 | -1.7421b    | ppb   | 1.7410  | 99.9  | 6.3592     |
| Sn 189.925 | -0.4912b    | ppb   | 1.2192  | 248.2 | -13.1974   |
| Sr 216.596 | 588.302b    | ppb   | 1.9497  | 0.3   | 6114.88    |
| Ti 334.941 | 0.5065b     | ppb   | 0.0191  | 3.8   | 102.373    |
| Tl 190.794 | 1.6112b     | ppb   | 0.3803  | 23.6  | -12.5347   |
| V 292.401  | 1.2065b     | ppb   | 0.2474  | 20.5  | 12.2493    |
| Zn 206.200 | 20.3084b    | ppb   | 0.4758  | 2.3   | 513.6769   |

680-90612-b-9-b ms (Samp) 5/29/2013, 8:08:43 AM Rack 4, Tube 55

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 21.9487                  | 21.6777 | 22.5435 |
| Al 308.215 | 2139.32                  | 2131.99 | 2196.45 |
| As 188.980 | 51.2415                  | 46.4347 | 46.9727 |
| B 249.678  | 445.289                  | 443.358 | 456.947 |
| Ba 389.178 | 40.8308                  | 39.4948 | 40.4130 |
| Be 313.042 | 22.2810                  | 22.2166 | 22.8671 |
| Ca 370.602 | 36885                    | 36821   | 37811   |
| Cd 226.502 | 22.1235                  | 21.5646 | 22.3364 |
| Co 228.615 | 21.2364                  | 20.8624 | 22.4147 |
| Cr 267.716 | 43.2086                  | 42.7761 | 44.3646 |
| Cu 324.754 | 61.4843                  | 61.6610 | 63.2510 |
| Fe 271.441 | 2122.08                  | 2101.93 | 2180.18 |
| K 766.491  | 8154.00                  | 8112.86 | 8316.60 |
| Mg 279.078 | 12056.0                  | 12014.4 | 12318.5 |
| Mn 257.610 | 218.363                  | 217.883 | 223.842 |
| Mo 202.032 | 44.1027                  | 43.4815 | 43.7974 |
| Na 330.237 | 109607x                  | 109293x | 111605x |
| Ni 231.604 | 45.9649                  | 47.2569 | 46.8808 |
| Pb 220.353 | 22.7740                  | 23.9756 | 21.1326 |
| Sb 206.834 | 20.7687                  | 20.3353 | 23.4979 |
| Se 196.026 | 37.6262                  | 44.2957 | 41.0092 |
| Sn 189.925 | 83.6301                  | 82.6291 | 78.8372 |
| Sr 216.596 | 636.640                  | 633.436 | 649.037 |
| Ti 334.941 | 40.9861                  | 40.8286 | 42.1134 |
| Tl 190.794 | 19.2078                  | 20.8973 | 15.5624 |
| V 292.401  | 43.4658                  | 43.5374 | 44.2437 |
| Zn 206.200 | 63.4582                  | 64.8846 | 64.8058 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 22.0566b    | ppb   | 0.4429  | 2.0  | 1485.28    |
| Al 308.215 | 2155.92b    | ppb   | 35.2933 | 1.6  | 12897.4    |
| As 188.980 | 48.2163b    | ppb   | 2.6337  | 5.5  | 24.4114    |
| B 249.678  | 448.531b    | ppb   | 7.3514  | 1.6  | 6126.54    |
| Ba 389.178 | 40.2462b    | ppb   | 0.6835  | 1.7  | 749.340    |
| Be 313.042 | 22.4549b    | ppb   | 0.3584  | 1.6  | 39386.0    |
| Ca 370.602 | 37173b      | ppb   | 553.9   | 1.5  | 74788      |
| Cd 226.502 | 22.0081b    | ppb   | 0.3986  | 1.8  | 751.381    |
| Co 228.615 | 21.5045b    | ppb   | 0.8101  | 3.8  | 245.293    |
| Cr 267.716 | 43.4498b    | ppb   | 0.8213  | 1.9  | 1975.73    |
| Cu 324.754 | 62.1321b    | ppb   | 0.9730  | 1.6  | 3471.80    |
| Fe 271.441 | 2134.73b    | ppb   | 40.6298 | 1.9  | 3285.74    |
| K 766.491  | 8194.49b    | ppb   | 107.736 | 1.3  | 266113     |
| Mg 279.078 | 12129.7b    | ppb   | 164.877 | 1.4  | 25567.2    |
| Mn 257.610 | 220.029b    | ppb   | 3.3108  | 1.5  | 48062.8    |
| Mo 202.032 | 43.7938b    | ppb   | 0.3106  | 0.7  | 295.577    |
| Na 330.237 | 110169xb    | ppb   | 1254.09 | 1.1  | 5184.80    |
| Ni 231.604 | 46.7009b    | ppb   | 0.6645  | 1.4  | 119.207    |
| Pb 220.353 | 22.6274b    | ppb   | 1.4272  | 6.3  | 56.7405    |
| Sb 206.834 | 21.5340b    | ppb   | 1.7146  | 8.0  | 15.7879    |
| Se 196.026 | 40.9770b    | ppb   | 3.3348  | 8.1  | 26.4812    |
| Sn 189.925 | 81.6988b    | ppb   | 2.5283  | 3.1  | 53.6395    |
| Sr 216.596 | 639.704b    | ppb   | 8.2395  | 1.3  | 6648.13    |
| Ti 334.941 | 41.3094b    | ppb   | 0.7007  | 1.7  | 10351.6    |
| Tl 190.794 | 18.5558b    | ppb   | 2.7265  | 14.7 | 1.1185     |
| V 292.401  | 43.7490b    | ppb   | 0.4300  | 1.0  | 1009.92    |
| Zn 206.200 | 64.3828b    | ppb   | 0.8017  | 1.2  | 888810     |

680-90612-b-9-c msd (Samp) 5/29/2013, 8:13:22 AM Rack 4, Tube 56

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 21.9168                  | 21.5879 | 21.8551 |
| Al 308.215 | 2097.90                  | 2073.45 | 2097.70 |
| As 188.980 | 47.0064                  | 51.3218 | 50.5617 |
| B 249.678  | 436.490                  | 431.758 | 436.958 |
| Ba 389.178 | 37.9647                  | 38.7026 | 40.5987 |
| Be 313.042 | 21.7135                  | 21.4737 | 21.6764 |
| Ca 370.602 | 36379                    | 36021   | 36362   |
| Cd 226.502 | 21.4790                  | 21.2622 | 21.2386 |
| Co 228.615 | 21.4985                  | 20.6125 | 20.6097 |
| Cr 267.716 | 42.1712                  | 41.4190 | 41.8253 |
| Cu 324.754 | 59.7897                  | 59.2094 | 59.7146 |
| Fe 271.441 | 2061.10                  | 2042.08 | 2058.24 |
| K 766.491  | 8058.64                  | 7976.42 | 8015.22 |
| Mg 279.078 | 11847.4                  | 11721.9 | 11823.0 |
| Mn 257.610 | 214.693                  | 212.153 | 214.143 |
| Mo 202.032 | 40.9174                  | 41.0738 | 41.6172 |
| Na 330.237 | 107612x                  | 106665x | 107141x |
| Ni 231.604 | 45.1936                  | 44.2288 | 45.9771 |
| Pb 220.353 | 19.8378                  | 16.7280 | 19.3206 |
| Sb 206.834 | 21.9924                  | 17.1970 | 25.7046 |
| Se 196.026 | 49.7136                  | 36.1702 | 45.8092 |
| Sn 189.925 | 76.7395                  | 77.3806 | 76.7477 |
| Sr 216.596 | 624.588                  | 615.197 | 623.318 |
| Ti 334.941 | 40.0417                  | 39.5116 | 40.0551 |
| Tl 190.794 | 20.5424                  | 19.0882 | 19.1682 |
| V 292.401  | 42.3865                  | 41.9132 | 42.0684 |
| Zn 206.200 | 65.3994                  | 63.0540 | 64.1615 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 21.7866b    | ppb   | 0.1748  | 0.8  | 1467.05    |
| Al 308.215 | 2089.68b    | ppb   | 14.0600 | 0.7  | 12506.8    |
| As 188.980 | 49.6300b    | ppb   | 2.3037  | 4.6  | 25.2469    |
| B 249.678  | 435.069b    | ppb   | 2.8768  | 0.7  | 5945.86    |
| Ba 389.178 | 39.0887b    | ppb   | 1.3588  | 3.5  | 727.536    |
| Be 313.042 | 21.6212b    | ppb   | 0.1291  | 0.6  | 37914.6    |
| Ca 370.602 | 36254b      | ppb   | 201.8   | 0.6  | 72941      |
| Cd 226.502 | 21.3266b    | ppb   | 0.1325  | 0.6  | 728.666    |
| Co 228.615 | 20.9069b    | ppb   | 0.5124  | 2.5  | 238.607    |
| Cr 267.716 | 41.8052b    | ppb   | 0.3765  | 0.9  | 1901.21    |
| Cu 324.754 | 59.5712b    | ppb   | 0.3156  | 0.5  | 3335.09    |
| Fe 271.441 | 2053.81b    | ppb   | 10.2559 | 0.5  | 3161.97    |
| K 766.491  | 8016.76b    | ppb   | 41.1328 | 0.5  | 260348     |
| Mg 279.078 | 11797.4b    | ppb   | 66.5925 | 0.6  | 24867.8    |
| Mn 257.610 | 213.663b    | ppb   | 1.3366  | 0.6  | 46673.2    |
| Mo 202.032 | 41.2028b    | ppb   | 0.3673  | 0.9  | 278.619    |
| Na 330.237 | 107140xb    | ppb   | 473.482 | 0.4  | 5043.50    |
| Ni 231.604 | 45.1332b    | ppb   | 0.8757  | 1.9  | 115.139    |
| Pb 220.353 | 18.6288b    | ppb   | 1.6663  | 8.9  | 50.7977    |
| Sb 206.834 | 21.6314b    | ppb   | 4.2653  | 19.7 | 15.8904    |
| Se 196.026 | 43.8977b    | ppb   | 6.9711  | 15.9 | 27.8510    |
| Sn 189.925 | 76.9560b    | ppb   | 0.3678  | 0.5  | 49.7813    |
| Sr 216.596 | 621.034b    | ppb   | 5.0947  | 0.8  | 6454.62    |
| Ti 334.941 | 39.8695b    | ppb   | 0.3100  | 0.8  | 9989.19    |
| Tl 190.794 | 19.5996b    | ppb   | 0.8174  | 4.2  | 1.9738     |
| V 292.401  | 42.1227b    | ppb   | 0.2413  | 0.6  | 971.940    |
| Zn 206.200 | 64.2050b    | ppb   | 1.1733  | 1.8  | 886543     |

E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

| X (Samp)   | 5/29/2013, 8:18:00 AM    | Rack 4, Tube 57 |          |
|------------|--------------------------|-----------------|----------|
| Weight: 1  | Volume: 1                | Dilution: 1     |          |
| Label      | Replicates Concentration |                 |          |
| Ag 328.068 | 0.2138                   | 0.2773          | 0.4356   |
| Al 308.215 | 2.0984                   | 3.3262          | 5.6698   |
| As 188.980 | -1.3366u                 | -0.7810u        | -9.5392u |
| B 249.678  | 15.9848                  | 14.5989         | 14.5483  |
| Ba 389.178 | -0.1743u                 | 0.2750          | -0.4682u |
| Be 313.042 | -0.0159u                 | -0.0107u        | -0.0066u |
| Ca 370.602 | -0.2170u                 | 9.074           | 1.210    |
| Cd 226.502 | -0.2037u                 | -0.1467u        | -0.0346u |
| Co 228.615 | 0.3756                   | -0.5747u        | 0.2117   |
| Cr 267.716 | 0.1637                   | -0.0828u        | -0.0709u |
| Cu 324.754 | 0.7278                   | 0.9244          | 0.8029   |
| Fe 271.441 | -2.2754u                 | 3.9602          | -7.1799u |
| K 766.491  | 0.0564                   | 0.0101          | 0.3347   |
| Mg 279.078 | -0.0709u                 | 1.9132          | -1.2733u |
| Mn 257.610 | -0.0132u                 | 0.0040          | -0.0288u |
| Mo 202.032 | 0.7228                   | 0.5325          | -0.0004u |
| Na 330.237 | -66.8475u                | -170.001u       | 110.588  |
| Ni 231.604 | -0.6083u                 | 0.3285          | -0.6713u |
| Pb 220.353 | 0.0855                   | -2.6863u        | -1.2681u |
| Sb 206.834 | 5.9074                   | -0.6290u        | 4.3842   |
| Se 196.026 | -7.4441u                 | -1.3973u        | -6.7049u |
| Sn 189.925 | -2.4035u                 | 0.5017          | 2.7055   |
| Sr 216.596 | -0.3792u                 | -0.3440u        | -0.4429u |
| Ti 334.941 | 0.0536                   | -0.0198u        | 0.0075   |
| Tl 190.794 | 6.8325                   | 1.8534          | -0.0875u |
| V 292.401  | -0.0693u                 | -0.1691u        | 0.0654   |
| Zn 206.200 | 0.8578                   | 0.3528          | -1.0188u |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | 0.3089      | ppb   | 0.1142  | 37.0    | -23.5509   |
| Al 308.215 | 3.6981      | ppb   | 1.8145  | 49.1    | 205.478    |
| As 188.980 | -3.8856     | ppb   | 4.9040  | 126.2   | -6.3403    |
| B 249.678  | 15.0440     | ppb   | 0.8152  | 5.4     | 308.293    |
| Ba 389.178 | -0.1225     | ppb   | 0.3743  | 305.5   | -12.6423   |
| Be 313.042 | -0.0111     | ppb   | 0.0046  | 41.8    | -265.844   |
| Ca 370.602 | 3.356       | ppb   | 5.003   | 149.1   | -4.949     |
| Cd 226.502 | -0.1283     | ppb   | 0.0860  | 67.1    | 14.5527    |
| Co 228.615 | 0.0042      | ppb   | 0.5080  | 12061.9 | 3.6102     |
| Cr 267.716 | 0.0034      | ppb   | 0.1390  | 4148.7  | 6.4252     |
| Cu 324.754 | 0.8184      | ppb   | 0.0992  | 12.1    | 199.135    |
| Fe 271.441 | -1.8317     | ppb   | 5.5833  | 304.8   | 17.0984    |
| K 766.491  | 0.1338      | ppb   | 0.1756  | 131.3   | 300.615    |
| Mg 279.078 | 0.1897      | ppb   | 1.6092  | 848.4   | 33.3216    |
| Mn 257.610 | -0.0126     | ppb   | 0.0164  | 129.9   | 26.4450    |
| Mo 202.032 | 0.4183      | ppb   | 0.3749  | 89.6    | 11.7480    |
| Na 330.237 | -42.0869    | ppb   | 141.924 | 337.2   | 43.9398    |
| Ni 231.604 | -0.3170     | ppb   | 0.5599  | 176.6   | -2.7805    |
| Pb 220.353 | -1.2896     | ppb   | 1.3860  | 107.5   | 21.1359    |
| Sb 206.834 | 3.2208      | ppb   | 3.4200  | 106.2   | -1.8292    |
| Se 196.026 | -5.1821     | ppb   | 3.2985  | 63.7    | 4.7433     |
| Sn 189.925 | 0.2679      | ppb   | 2.5625  | 956.5   | -12.6312   |
| Sr 216.596 | -0.3887     | ppb   | 0.0501  | 12.9    | 14.2435    |
| Ti 334.941 | 0.0138      | ppb   | 0.0371  | 269.1   | -52.8686   |
| Tl 190.794 | 2.8661      | ppb   | 3.5694  | 124.5   | -11.5120   |
| V 292.401  | -0.0577     | ppb   | 0.1177  | 204.1   | -16.8579   |
| Zn 206.200 | 0.0639      | ppb   | 0.9711  | 1518.8  | 5.3493     |

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CRI (Samp) 5/29/2013, 8:22:39 AM Rack 4, Tube 58

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 10.4792                  | 9.4595  | 9.9248  |
| Al 308.215 | 211.102                  | 209.901 | 207.531 |
| As 188.980 | 20.0790                  | 23.4336 | 25.9105 |
| B 249.678  | 111.306                  | 112.308 | 110.742 |
| Ba 389.178 | 10.0113                  | 10.2708 | 10.0721 |
| Be 313.042 | 4.3479                   | 4.3397  | 4.3314  |
| Ca 370.602 | 487.0                    | 477.0   | 478.5   |
| Cd 226.502 | 5.1455                   | 4.9878  | 5.2831  |
| Co 228.615 | 10.1889                  | 10.5067 | 10.6848 |
| Cr 267.716 | 10.2581                  | 10.2337 | 10.4213 |
| Cu 324.754 | 21.3438                  | 21.4428 | 20.8526 |
| Fe 271.441 | 47.4054                  | 52.6761 | 47.6517 |
| K 766.491  | 992.694                  | 998.177 | 997.286 |
| Mg 279.078 | 532.306                  | 522.479 | 517.041 |
| Mn 257.610 | 11.0049                  | 10.9749 | 10.9485 |
| Mo 202.032 | 10.3250                  | 10.2342 | 9.3300  |
| Na 330.237 | 922.412                  | 979.482 | 903.176 |
| Ni 231.604 | 40.7549                  | 40.3661 | 42.0790 |
| Pb 220.353 | 12.3693                  | 8.9598  | 5.5100  |
| Sb 206.834 | 23.9902                  | 22.2262 | 24.1445 |
| Se 196.026 | 26.5629                  | 24.6160 | 17.3555 |
| Sn 189.925 | 51.0909                  | 48.6750 | 49.6908 |
| Sr 216.596 | 9.1275                   | 9.8272  | 10.0090 |
| Ti 334.941 | 9.9692                   | 9.9619  | 9.8869  |
| Tl 190.794 | 28.9965                  | 26.0005 | 28.4503 |
| V 292.401  | 10.7022                  | 10.5032 | 10.4462 |
| Zn 206.200 | 22.3462                  | 22.2700 | 22.8507 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 9.9545      | ppb   | 0.5105  | 5.1  | 657.063    |
| Al 308.215 | 209.511     | ppb   | 1.8173  | 0.9  | 1418.06    |
| As 188.980 | 23.1410     | ppb   | 2.9267  | 12.6 | 9.6161     |
| B 249.678  | 111.452     | ppb   | 0.7933  | 0.7  | 1603.07    |
| Ba 389.178 | 10.1180     | ppb   | 0.1357  | 1.3  | 174.936    |
| Be 313.042 | 4.3396      | ppb   | 0.0082  | 0.2  | 7412.73    |
| Ca 370.602 | 480.8       | ppb   | 5.390   | 1.1  | 958.0      |
| Cd 226.502 | 5.1388      | ppb   | 0.1478  | 2.9  | 188.808    |
| Co 228.615 | 10.4602     | ppb   | 0.2512  | 2.4  | 121.157    |
| Cr 267.716 | 10.3044     | ppb   | 0.1020  | 1.0  | 472.652    |
| Cu 324.754 | 21.2130     | ppb   | 0.3161  | 1.5  | 1287.41    |
| Fe 271.441 | 49.2444     | ppb   | 2.9745  | 6.0  | 96.4719    |
| K 766.491  | 996.052     | ppb   | 2.9421  | 0.3  | 32606.7    |
| Mg 279.078 | 523.942     | ppb   | 7.7373  | 1.5  | 1135.81    |
| Mn 257.610 | 10.9761     | ppb   | 0.0283  | 0.3  | 2424.61    |
| Mo 202.032 | 9.9631      | ppb   | 0.5501  | 5.5  | 74.2219    |
| Na 330.237 | 935.023     | ppb   | 39.6854 | 4.2  | 89.1825    |
| Ni 231.604 | 41.0667     | ppb   | 0.8980  | 2.2  | 104.568    |
| Pb 220.353 | 8.9464      | ppb   | 3.4296  | 38.3 | 36.3290    |
| Sb 206.834 | 23.4536     | ppb   | 1.0658  | 4.5  | 17.5702    |
| Se 196.026 | 22.8448     | ppb   | 4.8525  | 21.2 | 17.9091    |
| Sn 189.925 | 49.8189     | ppb   | 1.2130  | 2.4  | 27.6627    |
| Sr 216.596 | 9.6546      | ppb   | 0.4654  | 4.8  | 117.562    |
| Ti 334.941 | 9.9393      | ppb   | 0.0456  | 0.5  | 2440.05    |
| Tl 190.794 | 27.8158     | ppb   | 1.5956  | 5.7  | 8.8180     |
| V 292.401  | 10.5505     | ppb   | 0.1344  | 1.3  | 232.083    |
| Zn 206.200 | 22.4889     | ppb   | 0.3156  | 1.4  | 344.823    |

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CCV (Samp) 5/29/2013, 8:27:18 AM Rack 4, Tube 59

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 489.878                  | 482.381 | 486.644 |
| Al 308.215 | 5033.98                  | 4995.28 | 5022.07 |
| As 188.980 | 507.969                  | 506.485 | 509.089 |
| B 249.678  | 536.356                  | 532.139 | 534.591 |
| Ba 389.178 | 4689.75                  | 4649.26 | 4687.75 |
| Be 313.042 | 511.493                  | 509.978 | 511.507 |
| Ca 370.602 | 4738                     | 4698    | 4730    |
| Cd 226.502 | 496.322                  | 491.653 | 495.829 |
| Co 228.615 | 502.179                  | 497.920 | 501.185 |
| Cr 267.716 | 4907.11                  | 4862.04 | 4906.62 |
| Cu 324.754 | 4893.86                  | 4831.63 | 4945.23 |
| Fe 271.441 | 4991.64                  | 4961.93 | 5000.89 |
| K 766.491  | 10067.7                  | 10004.7 | 10093.7 |
| Mg 279.078 | 5067.68                  | 5020.93 | 5056.63 |
| Mn 257.610 | 5004.63                  | 4977.16 | 4989.98 |
| Mo 202.032 | 483.599                  | 479.182 | 480.581 |
| Na 330.237 | 7515.09                  | 7670.70 | 7502.10 |
| Ni 231.604 | 2492.12                  | 2468.55 | 2479.73 |
| Pb 220.353 | 490.153                  | 488.139 | 496.370 |
| Sb 206.834 | 956.395                  | 952.416 | 961.324 |
| Se 196.026 | 5187.22                  | 5134.01 | 5174.81 |
| Sn 189.925 | 4965.36                  | 4846.58 | 4906.17 |
| Sr 216.596 | 2423.64                  | 2400.11 | 2423.02 |
| Ti 334.941 | 482.032                  | 478.289 | 482.561 |
| Tl 190.794 | 4901.25                  | 4850.66 | 4899.40 |
| V 292.401  | 4848.03                  | 4810.21 | 4855.63 |
| Zn 206.200 | 2546.13                  | 2527.77 | 2519.95 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 486.301     | ppb   | 3.7604  | 0.8  | 34231.9    |
| Al 308.215 | 5017.11     | ppb   | 19.8189 | 0.4  | 28995.8    |
| As 188.980 | 507.848     | ppb   | 1.3061  | 0.3  | 295.683    |
| B 249.678  | 534.362     | ppb   | 2.1177  | 0.4  | 7273.89    |
| Ba 389.178 | 4675.59     | ppb   | 22.8195 | 0.5  | 85120.7    |
| Be 313.042 | 510.993     | ppb   | 0.8787  | 0.2  | 901577     |
| Ca 370.602 | 4722        | ppb   | 21.13   | 0.4  | 9529       |
| Cd 226.502 | 494.601     | ppb   | 2.5652  | 0.5  | 16382.1    |
| Co 228.615 | 500.428     | ppb   | 2.2280  | 0.4  | 5641.15    |
| Cr 267.716 | 4891.92     | ppb   | 25.8792 | 0.5  | 221413     |
| Cu 324.754 | 4890.24     | ppb   | 56.8838 | 1.2  | 261022     |
| Fe 271.441 | 4984.82     | ppb   | 20.3554 | 0.4  | 7737.46    |
| K 766.491  | 10055.4     | ppb   | 45.7605 | 0.5  | 326477     |
| Mg 279.078 | 5048.41     | ppb   | 24.4362 | 0.5  | 10581.6    |
| Mn 257.610 | 4990.59     | ppb   | 13.7482 | 0.3  | 1087346    |
| Mo 202.032 | 481.121     | ppb   | 2.2573  | 0.5  | 3150.69    |
| Na 330.237 | 7562.63     | ppb   | 93.8175 | 1.2  | 361.923    |
| Ni 231.604 | 2480.13     | ppb   | 11.7922 | 0.5  | 6431.76    |
| Pb 220.353 | 491.554     | ppb   | 4.2910  | 0.9  | 753.724    |
| Sb 206.834 | 956.712     | ppb   | 4.4625  | 0.5  | 952.034    |
| Se 196.026 | 5165.35     | ppb   | 27.8414 | 0.5  | 2434.30    |
| Sn 189.925 | 4906.04     | ppb   | 59.3915 | 1.2  | 3976.59    |
| Sr 216.596 | 2415.59     | ppb   | 13.4061 | 0.6  | 24994.9    |
| Ti 334.941 | 480.961     | ppb   | 2.3289  | 0.5  | 120664     |
| Tl 190.794 | 4883.77     | ppb   | 28.6870 | 0.6  | 3962.79    |
| V 292.401  | 4837.96     | ppb   | 24.3309 | 0.5  | 114016     |
| Zn 206.200 | 2531.28     | ppb   | 13.4379 | 0.5  | 3281.79    |



E05282013A.wvq. All Data Report 5/29/2013, 10:41:28 AM

**CCB (Samp) 5/29/2013, 8:31:56 AM Rack 4, Tube 60**  
**Weight: 1 Volume: 1 Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.4287                   | -0.0596u  | -0.0999u  |
| Al 308.215 | 4.1221                   | 5.6600    | 6.9774    |
| As 188.980 | -1.1798u                 | 1.1661    | -1.4284u  |
| B 249.678  | 13.8402                  | 13.3275   | 13.1140   |
| Ba 389.178 | -0.0149u                 | 0.3384    | -1.6924u  |
| Be 313.042 | 0.0064                   | 0.0075    | 0.0031    |
| Ca 370.602 | 8.350                    | 2.184     | -2.542u   |
| Cd 226.502 | 0.0681                   | 0.1399    | 0.1631    |
| Co 228.615 | -0.1566u                 | -0.5394u  | -0.2010u  |
| Cr 267.716 | -0.2254u                 | 0.1060    | 0.2065    |
| Cu 324.754 | 0.3776                   | 0.5037    | 0.6964    |
| Fe 271.441 | 0.5526                   | -1.4326u  | -3.8270u  |
| K 766.491  | -0.6703u                 | -0.5029u  | 0.1861    |
| Mg 279.078 | 0.1229                   | 1.1799    | -2.2167u  |
| Mn 257.610 | 0.0351                   | 0.0978    | 0.0916    |
| Mo 202.032 | 0.1889                   | 0.1481    | 0.3796    |
| Na 330.237 | -128.825u                | -125.198u | -49.5736u |
| Ni 231.604 | 0.2828                   | 1.7700    | 0.9860    |
| Pb 220.353 | -3.2508u                 | -3.7815u  | 0.2119    |
| Sb 206.834 | 5.6775                   | 9.9629    | 7.5377    |
| Se 196.026 | 2.7286                   | 3.5520    | 5.9857    |
| Sn 189.925 | 1.4018                   | -1.7260u  | 1.8770    |
| Sr 216.596 | -0.1752u                 | -0.3830u  | 0.2994    |
| Ti 334.941 | 0.0831                   | 0.0475    | 0.0098    |
| Tl 190.794 | 3.0636                   | 1.2519    | 4.1914    |
| V 292.401  | 0.3051                   | 0.3119    | 0.1373    |
| Zn 206.200 | -1.0128u                 | 1.0079    | -0.4562u  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0897      | ppb   | 0.2942  | 327.9 | -39.0184   |
| Al 308.215 | 5.5865      | ppb   | 1.4291  | 25.6  | 216.572    |
| As 188.980 | -0.4807     | ppb   | 1.4316  | 297.8 | -4.3299    |
| B 249.678  | 13.4272     | ppb   | 0.3733  | 2.8   | 286.580    |
| Ba 389.178 | -0.4563     | ppb   | 1.0850  | 237.8 | -18.7216   |
| Be 313.042 | 0.0057      | ppb   | 0.0023  | 39.9  | -236.281   |
| Ca 370.602 | 2.664       | ppb   | 5.462   | 205.0 | -6.263     |
| Cd 226.502 | 0.1237      | ppb   | 0.0495  | 40.0  | 22.8800    |
| Co 228.615 | -0.2990     | ppb   | 0.2094  | 70.0  | 0.2050     |
| Cr 267.716 | 0.0291      | ppb   | 0.2260  | 777.9 | 7.5839     |
| Cu 324.754 | 0.5259      | ppb   | 0.1606  | 30.5  | 183.520    |
| Fe 271.441 | -1.5690     | ppb   | 2.1930  | 139.8 | 17.4673    |
| K 766.491  | -0.3291     | ppb   | 0.4539  | 137.9 | 285.602    |
| Mg 279.078 | -0.3046     | ppb   | 1.7382  | 570.6 | 32.2790    |
| Mn 257.610 | 0.0748      | ppb   | 0.0345  | 46.1  | 45.4849    |
| Mo 202.032 | 0.2389      | ppb   | 0.1236  | 51.7  | 10.5727    |
| Na 330.237 | -101.199    | ppb   | 44.7454 | 44.2  | 41.1838    |
| Ni 231.604 | 1.0130      | ppb   | 0.7439  | 73.4  | 0.6707     |
| Pb 220.353 | -2.2735     | ppb   | 2.1687  | 95.4  | 19.6742    |
| Sb 206.834 | 7.7261      | ppb   | 2.1489  | 27.8  | 2.4896     |
| Se 196.026 | 4.0888      | ppb   | 1.6936  | 41.4  | 9.0974     |
| Sn 189.925 | 0.5176      | ppb   | 1.9575  | 378.2 | -12.4282   |
| Sr 216.596 | -0.0863     | ppb   | 0.3498  | 405.3 | 17.3679    |
| Ti 334.941 | 0.0468      | ppb   | 0.0367  | 78.4  | -44.5918   |
| Tl 190.794 | 2.8356      | ppb   | 1.4829  | 52.3  | -11.5373   |
| V 292.401  | 0.2514      | ppb   | 0.0989  | 39.3  | -9.5289    |
| Zn 206.200 | -0.1537     | ppb   | 1.0437  | 679.1 | -5.0662    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

| Blank (Blk) | 5/30/2013, 1:08:26 PM    |          | Rack S, Tube 1 |
|-------------|--------------------------|----------|----------------|
| Label       | Replicates Concentration |          |                |
| Ag 328.068  | -0.0339                  | -0.0614  | 0.0953         |
| Al 308.215  | 0.5323                   | -0.7721  | 0.2399         |
| As 188.980  | -4.7737                  | 1.6629   | 3.1108         |
| B 249.678   | -0.0251                  | 0.2536   | -0.2285        |
| Ba 389.178  | 0.5945                   | 0.0739   | -0.6684        |
| Be 313.042  | -0.0013                  | 0.0061   | -0.0048        |
| Ca 370.602  | 1.409                    | 1.931    | -3.340         |
| Cd 226.502  | 0.0589                   | 0.1833   | -0.2422        |
| Co 228.615  | 0.0947                   | 0.2251   | -0.3198        |
| Cr 267.716  | 0.0072                   | -0.1467  | 0.1396         |
| Cu 324.754  | 0.0915                   | -0.0829  | -0.0086        |
| Fe 271.441  | 1.7121                   | -0.0591  | -1.6530        |
| K 766.491   | -0.5732                  | -0.2464  | 0.8197         |
| Mg 279.078  | 0.5035                   | 1.1269   | -1.6304        |
| Mn 257.610  | -0.0157                  | 0.0071   | 0.0086         |
| Mo 202.032  | 0.1696                   | -0.2811  | 0.1115         |
| Na 330.237  | 78.2728                  | -98.1643 | 19.8914        |
| Ni 231.604  | -0.2620                  | -0.0662  | 0.3281         |
| Pb 220.353  | -3.5992                  | -2.8267  | 6.4259         |
| Sb 206.834  | 1.4918                   | -1.8467  | 0.3549         |
| Se 196.026  | -0.3164                  | -3.4113  | 3.7277         |
| Sn 189.925  | 0.4797                   | -1.2719  | 0.7922         |
| Sr 216.596  | 0.4143                   | -0.0282  | -0.3861        |
| Ti 334.941  | 0.0413                   | -0.0273  | -0.0139        |
| Tl 190.794  | 2.6297                   | 5.4134   | -8.0432        |
| V 292.401   | -0.1173                  | 0.0985   | 0.0188         |
| Zn 206.200  | -0.6098                  | -0.2971  | 0.9069         |

| Label      | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|------------|-------------|-------|---------|-----------|------------|
| Ag 328.068 | 0.0000      | ppb   | 6.075   | 45.6      | -13.3258   |
| Al 308.215 | 0.0000      | ppb   | 4.229   | 2.3       | 182.732    |
| As 188.980 | 0.0000      | ppb   | 2.125   | 31.6      | -6.7192    |
| B 249.678  | 0.0000      | ppb   | 3.298   | 3.1       | 107.986    |
| Ba 389.178 | 0.0000      | ppb   | 11.868  | 91.1      | -13.0285   |
| Be 313.042 | 0.0000      | ppb   | 9.879   | 3.9       | -254.847   |
| Ca 370.602 | 0.0000      | ppb   | 5.711   | 190.7     | -2.995     |
| Cd 226.502 | 0.0000      | ppb   | 7.221   | 44.3      | 16.3171    |
| Co 228.615 | 0.0000      | ppb   | 3.275   | 51.7      | 6.3413     |
| Cr 267.716 | 0.0000      | ppb   | 6.624   | 93.3      | 7.1017     |
| Cu 324.754 | 0.0000      | ppb   | 4.844   | 2.6       | 184.512    |
| Fe 271.441 | 0.0000      | ppb   | 2.642   | 15.6      | 16.9109    |
| K 766.491  | 0.0000      | ppb   | 24.557  | 9.6       | 255.915    |
| Mg 279.078 | 0.0000      | ppb   | 3.077   | 8.7       | 35.4167    |
| Mn 257.610 | 0.0000      | ppb   | 3.043   | 10.0      | 30.5084    |
| Mo 202.032 | 0.0000      | ppb   | 1.662   | 15.7      | 10.5615    |
| Na 330.237 | 0.0000      | ppb   | 4.217   | 8.6       | 48.9444    |
| Ni 231.604 | 0.0000      | ppb   | 0.789   | 24.3      | -3.2478    |
| Pb 220.353 | 0.0000      | ppb   | 8.271   | 30.5      | 27.0837    |
| Sb 206.834 | 0.0000      | ppb   | 1.671   | 283.5     | 0.5892     |
| Se 196.026 | 0.0000      | ppb   | 1.649   | 25.7      | 6.4085     |
| Sn 189.925 | 0.0000      | ppb   | 0.928   | 6.4       | -14.5643   |
| Sr 216.596 | 0.0000      | ppb   | 4.206   | 27.9      | 15.0552    |
| Ti 334.941 | 0.0000      | ppb   | 9.456   | 16.1      | -58.6082   |
| Tl 190.794 | 0.0000      | ppb   | 3.459   | 35.6      | -9.7287    |
| V 292.401  | 0.0000      | ppb   | 2.661   | 14.4      | -18.4245   |
| Zn 206.200 | 0.0000      | ppb   | 1.031   | 20.8      | 4.9683     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

| HIGH STD (Std) | 5/30/2013, 1:13:01 PM    |         | Rack S, Tube 2 |
|----------------|--------------------------|---------|----------------|
| Label          | Replicates Concentration |         |                |
| Ag 328.068     | 997.888                  | 998.443 | 1003.67        |
| Al 308.215     | 10045.7                  | 9971.41 | 9982.85        |
| As 188.980     | 994.317                  | 1007.20 | 998.482        |
| B 249.678      | 999.479                  | 998.359 | 1002.16        |
| Ba 389.178     | 10028.8                  | 9970.95 | 10000.3        |
| Be 313.042     | 1004.20                  | 996.094 | 999.709        |
| Ca 370.602     | 9997                     | 9979    | 10024          |
| Cd 226.502     | 1006.75                  | 996.986 | 996.262        |
| Co 228.615     | 1003.19                  | 998.229 | 998.579        |
| Cr 267.716     | 10039.3                  | 9969.25 | 9991.47        |
| Cu 324.754     | 10146.1                  | 9984.80 | 9869.11        |
| Fe 271.441     | 10033.3                  | 9968.39 | 9998.27        |
| K 766.491      | 20049.3                  | 19923.5 | 20027.1        |
| Mg 279.078     | 10040.3                  | 9982.50 | 9977.18        |
| Mn 257.610     | 10033.0                  | 9990.95 | 9976.08        |
| Mo 202.032     | 1006.13                  | 997.508 | 996.366        |
| Na 330.237     | 14981.2                  | 15057.5 | 14961.2        |
| Ni 231.604     | 5018.30                  | 4988.22 | 4993.48        |
| Pb 220.353     | 999.008                  | 995.299 | 1005.69        |
| Sb 206.834     | 2005.60                  | 1991.32 | 2003.08        |
| Se 196.026     | 10071.5                  | 9951.36 | 9977.19        |
| Sn 189.925     | 9992.56                  | 9943.65 | 10063.8        |
| Sr 216.596     | 5018.06                  | 4988.18 | 4993.76        |
| Ti 334.941     | 1005.18                  | 996.847 | 997.976        |
| Tl 190.794     | 10017.4                  | 10001.2 | 9981.41        |
| V 292.401      | 10038.2                  | 9971.68 | 9990.08        |
| Zn 206.200     | 5016.42                  | 4997.89 | 4985.69        |

| Label      | Sol'n Conc. | Units | SD(Int)  | %RSD(Int) | Int. (c/s) |
|------------|-------------|-------|----------|-----------|------------|
| Ag 328.068 | 1000.00     | ppb   | 231.592  | 0.3       | 72580.3    |
| Al 308.215 | 10000.0     | ppb   | 247.264  | 0.4       | 61968.9    |
| As 188.980 | 1000.00     | ppb   | 3.329    | 0.7       | 499.670    |
| B 249.678  | 1000.00     | ppb   | 26.631   | 0.2       | 13735.7    |
| Ba 389.178 | 10000.0     | ppb   | 540.436  | 0.3       | 186983     |
| Be 313.042 | 1000.00     | ppb   | 7217.049 | 0.4       | 1777867    |
| Ca 370.602 | 10000       | ppb   | 44.907   | 0.2       | 19660      |
| Cd 226.502 | 1000.00     | ppb   | 193.376  | 0.6       | 33021.6    |
| Co 228.615 | 1000.00     | ppb   | 31.894   | 0.3       | 11519.2    |
| Cr 267.716 | 10000.0     | ppb   | 1654.951 | 0.4       | 462409     |
| Cu 324.754 | 10000.0     | ppb   | 7697.223 | 1.4       | 553484     |
| Fe 271.441 | 10000.0     | ppb   | 51.033   | 0.3       | 15715.1    |
| K 766.491  | 20000.0     | ppb   | 2263.431 | 0.3       | 674521     |
| Mg 279.078 | 10000.0     | ppb   | 74.535   | 0.3       | 21317.6    |
| Mn 257.610 | 10000.0     | ppb   | 6608.799 | 0.3       | 2240232    |
| Mo 202.032 | 1000.00     | ppb   | 36.180   | 0.5       | 6790.89    |
| Na 330.237 | 15000.0     | ppb   | 2.385    | 0.3       | 752.745    |
| Ni 231.604 | 5000.00     | ppb   | 42.182   | 0.3       | 13122.8    |
| Pb 220.353 | 1000.00     | ppb   | 7.810    | 0.5       | 1509.69    |
| Sb 206.834 | 2000.00     | ppb   | 7.502    | 0.4       | 1969.07    |
| Se 196.026 | 10000.0     | ppb   | 29.122   | 0.6       | 4613.47    |
| Sn 189.925 | 10000.0     | ppb   | 50.397   | 0.6       | 8326.78    |
| Sr 216.596 | 5000.00     | ppb   | 166.639  | 0.3       | 52458.1    |
| Ti 334.941 | 1000.00     | ppb   | 1174.938 | 0.5       | 259915     |
| Tl 190.794 | 10000.0     | ppb   | 8.767    | 0.2       | 4859.64    |
| V 292.401  | 10000.0     | ppb   | 838.102  | 0.3       | 243835     |
| Zn 206.200 | 5000.00     | ppb   | 19.928   | 0.3       | 6444.47    |

**Ag 328.068 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -13.3258   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 72580.3    | 1000.00   | 1000.00    | 0.0002 | 0.0    |

Curve Type: Linear Equation:  $y = 72.6 x + -13.3$ **Al 308.215 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 182.732    | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 61968.9    | 10000.0   | 10000.00   | -0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 6.2 x + 182.7$ **As 188.980 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -6.7192    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 499.670    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.5 x + -6.7$ **B 249.678 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 107.986    | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 13735.7    | 1000.00   | 1000.000   | -0.0001 | 0.0    |

Curve Type: Linear Equation:  $y = 13.6 x + 108.0$ **Ba 389.178 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -13.0285   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 186983     | 10000.0   | 10000.0    | 0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 18.7 x + -13.0$ **Be 313.042 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -254.847   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 1777867    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 1778.1 x + -254.8$ **Ca 370.602 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | -2.995     | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 19660      | 10000     | 10000      | -0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 2.0 x + -3.0$

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**Cd 226.502 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 16.3171    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 33021.6    | 1000.00   | 1000.00    | 0.0001 | 0.0    |

Curve Type: Linear Equation:  $y = 33.0 x + 16.3$ **Co 228.615 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 6.3413     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 11519.2    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 11.5 x + 6.3$ **Cr 267.716 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 7.1017     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 462409     | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 46.2 x + 7.1$ **Cu 324.754 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 184.512    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 553484     | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 55.3 x + 184.5$ **Fe 271.441 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 16.9109    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 15715.1    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 1.6 x + 16.9$ **K 766.491 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 255.915    | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 674521     | 20000.0   | 20000.0    | -0.0020 | 0.0    |

Curve Type: Linear Equation:  $y = 33.7 x + 255.9$ **Mg 279.078 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 35.4167    | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 21317.6    | 10000.0   | 10000.00   | -0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 2.1 x + 35.4$

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**Mn 257.610 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 30.5084    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 2240232    | 10000.0   | 10000.0    | 0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 224.0 x + 30.5$ **Mo 202.032 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 10.5615    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 6790.89    | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 6.8 x + 10.6$ **Na 330.237 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 48.9444    | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 752.745    | 15000.0   | 15000.0    | -0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 0.0 x + 48.9$ **Ni 231.604 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -3.2478    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 13122.8    | 5000.00   | 5000.00    | 0.0005 | 0.0    |

Curve Type: Linear Equation:  $y = 2.6 x + -3.2$ **Pb 220.353 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 27.0837    | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 1509.69    | 1000.00   | 1000.000   | -0.0001 | 0.0    |

Curve Type: Linear Equation:  $y = 1.5 x + 27.1$ **Sb 206.834 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error   | %Error |
|----------|-------|------------|-----------|------------|---------|--------|
| Blank    |       | 0.5892     | 0.0000    | 0.0000     | -       | -      |
| HIGH STD |       | 1969.07    | 2000.00   | 2000.00    | -0.0001 | 0.0    |

Curve Type: Linear Equation:  $y = 1.0 x + 0.6$ **Se 196.026 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 6.4085     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 4613.47    | 10000.0   | 10000.0    | 0.0010 | 0.0    |

Curve Type: Linear Equation:  $y = 0.5 x + 6.4$

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**Sn 189.925 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -14.5643   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 8326.78    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.8 x + -14.6$ **Sr 216.596 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 15.0552    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 52458.1    | 5000.00   | 5000.00    | 0.0005 | 0.0    |

Curve Type: Linear Equation:  $y = 10.5 x + 15.1$ **Ti 334.941 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -58.6082   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 259915     | 1000.00   | 1000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 260.0 x + -58.6$ **Tl 190.794 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -9.7287    | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 4859.64    | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 0.5 x + -9.7$ **V 292.401 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | -18.4245   | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 243835     | 10000.0   | 10000.0    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 24.4 x + -18.4$ **Zn 206.200 Calibration (ppb) 5/30/2013, 1:13:01 PM Correlation Coefficient: 1.000000**

| Label    | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error  | %Error |
|----------|-------|------------|-----------|------------|--------|--------|
| Blank    |       | 4.9683     | 0.0000    | 0.0000     | -      | -      |
| HIGH STD |       | 6444.47    | 5000.00   | 5000.00    | 0.0000 | 0.0    |

Curve Type: Linear Equation:  $y = 1.3 x + 5.0$ **LRA1 (Samp) 5/30/2013, 1:52:59 PM Rack S, Tube 7****Weight: 1 Volume: 1 Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.9519                  | -0.8673  | -0.9772  |
| Al 308.215 | 130.244                  | 125.698  | 106.897  |
| As 188.980 | 10236.1                  | 10412.2  | 10351.5  |
| B 249.678  | 4855.34                  | 4930.16  | 4943.22  |
| Ba 389.178 | -1.4148u                 | -2.6274u | -1.5144u |



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| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Be 313.042 | 0.1869                   | 0.1921   | 0.1477   |
| Ca 370.602 | 1760                     | 1883     | 1806     |
| Cd 226.502 | -1.9726u                 | -1.5617u | -1.5582u |
| Co 228.615 | 9787.23                  | 9895.49  | 9874.37  |
| Cr 267.716 | -1.8977                  | -1.5680  | -1.7920  |
| Cu 324.754 | 0.0756                   | -0.1373u | -0.0749u |
| Fe 271.441 | 40.6934                  | 40.1210  | 29.3212  |
| K 766.491  | 3.0842                   | 3.9601   | 2.4436   |
| Mg 279.078 | 110.856u                 | 108.896u | 85.4560u |
| Mn 257.610 | 26609.6                  | 26891.4  | 26937.6  |
| Mo 202.032 | 0.2483                   | 0.1274   | -0.3238u |
| Na 330.237 | 104801x                  | 105632x  | 105467x  |
| Ni 231.604 | 9761.55x                 | 9880.95x | 9837.75x |
| Pb 220.353 | 20245.5x                 | 20426.3x | 20333.4x |
| Sb 206.834 | 10.1474                  | 7.6233   | 8.8529   |
| Se 196.026 | 4.8612                   | 9.3020   | 1.0588   |
| Sn 189.925 | 2.5696                   | 3.2586   | -2.0629u |
| Sr 216.596 | -5.2791u                 | -5.7964u | -5.4979u |
| Ti 334.941 | 31582.3                  | 31816.4  | 31825.6  |
| Tl 190.794 | 105.981                  | 115.502  | 107.208  |
| V 292.401  | -5.6084                  | -5.2783  | -5.9378  |
| Zn 206.200 | 0.0870                   | 0.1243   | 1.4048   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.9321b    | ppb   | 0.0576  | 6.2    | 39.1134    |
| Al 308.215 | 120.946b    | ppb   | 12.3779 | 10.2   | 499.759    |
| As 188.980 | 10333.3b    | ppb   | 89.4404 | 0.9    | 5225.92    |
| B 249.678  | 4909.57b    | ppb   | 47.4195 | 1.0    | 67012.5    |
| Ba 389.178 | -1.8522b    | ppb   | 0.6732  | 36.3   | -46.9379   |
| Be 313.042 | 0.1756b     | ppb   | 0.0243  | 13.8   | 31.6494    |
| Ca 370.602 | 1816b       | ppb   | 62.39   | 3.4    | 14599      |
| Cd 226.502 | -1.6975b    | ppb   | 0.2383  | 14.0   | -38.0256   |
| Co 228.615 | 9852.36b    | ppb   | 57.3858 | 0.6    | 114147     |
| Cr 267.716 | -1.7525b    | ppb   | 0.1683  | 9.6    | 98.0428    |
| Cu 324.754 | -0.0455b    | ppb   | 0.1095  | 240.5  | 181.932    |
| Fe 271.441 | 36.7119b    | ppb   | 6.4069  | 17.5   | 1248.24    |
| K 766.491  | 3.1626b     | ppb   | 0.7613  | 24.1   | 362.537    |
| Mg 279.078 | 101.736b    | ppb   | 14.1329 | 13.9   | -181.597   |
| Mn 257.610 | 26812.9b    | ppb   | 177.524 | 0.7    | 6006652    |
| Mo 202.032 | 0.0173b     | ppb   | 0.3015  | 1742.8 | 10.6182    |
| Na 330.237 | 105300xb    | ppb   | 440.341 | 0.4    | 4884.02    |
| Ni 231.604 | 9826.75xb   | ppb   | 60.4596 | 0.6    | 25773.3    |
| Pb 220.353 | 20335.1xb   | ppb   | 90.4169 | 0.4    | 30162.9    |
| Sb 206.834 | 8.8745b     | ppb   | 1.2622  | 14.2   | 9.3537     |
| Se 196.026 | 5.0740b     | ppb   | 4.1257  | 81.3   | 14.9122    |
| Sn 189.925 | 1.2551b     | ppb   | 2.8941  | 230.6  | -13.4819   |
| Sr 216.596 | -5.5245b    | ppb   | 0.2597  | 4.7    | -204.177   |
| Ti 334.941 | 31741.4b    | ppb   | 137.907 | 0.4    | 8251871    |
| Tl 190.794 | 109.564b    | ppb   | 5.1790  | 4.7    | 51.6335    |
| V 292.401  | -5.6082b    | ppb   | 0.3298  | 5.9    | 288.679    |
| Zn 206.200 | 0.5387b     | ppb   | 0.7503  | 139.3  | 5.6627     |

LRA2 (Samp) 5/30/2013, 1:57:36 PM Rack S, Tube 8  
 Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.4406u                 | -1.3467u | -1.0287u |
| Al 308.215 | 866167                   | 866904   | 867925x  |

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| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| As 188.980 | 34.6972                  | 9.9568    | 14.7320   |
| B 249.678  | 124.904u                 | 113.907u  | 104.306u  |
| Ba 389.178 | 22.1128                  | 20.5332   | 22.5489   |
| Be 313.042 | -0.1891u                 | -0.1791u  | -0.1779u  |
| Ca 370.602 | 778028                   | 780860    | 779232    |
| Cd 226.502 | 9.0851                   | 8.1964    | 8.3631    |
| Co 228.615 | -9.2241u                 | -6.1066u  | -8.7441u  |
| Cr 267.716 | -2.5408                  | -2.0178   | -2.3039   |
| Cu 324.754 | 5.4593                   | 4.9755    | 4.7152    |
| Fe 271.441 | 911621                   | 914955    | 910606    |
| K 766.491  | 432663x                  | 432405x   | 431860x   |
| Mg 279.078 | 814541                   | 814591    | 815203    |
| Mn 257.610 | 4.3107                   | 4.3745    | 4.3148    |
| Mo 202.032 | 3.1885u                  | 5.6547u   | 5.6208u   |
| Na 330.237 | -2220.92u                | -2191.87u | -2213.50u |
| Ni 231.604 | -4.1486                  | -2.2981   | -2.4540   |
| Pb 220.353 | 0.0221                   | 1.7900    | 5.1336    |
| Sb 206.834 | 3.7962                   | -1.3632   | 21.1486   |
| Se 196.026 | 7.4876u                  | 12.8984u  | -12.3849u |
| Sn 189.925 | -3.2078u                 | 5.5612    | 5.9408    |
| Sr 216.596 | 22.6132                  | 23.1880   | 23.2074   |
| Ti 334.941 | 6.1077                   | 5.8517    | 5.5205    |
| Tl 190.794 | -21.7236u                | -25.6825u | -51.4254u |
| V 292.401  | 7.4688                   | 6.8713    | 6.1660    |
| Zn 206.200 | 26559.5                  | 26644.7   | 26640.4   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.2720b    | ppb   | 0.2159  | 17.0  | -120.752   |
| Al 308.215 | 866999xb    | ppb   | 882.753 | 0.1   | 5357035    |
| As 188.980 | 19.7953b    | ppb   | 13.1244 | 66.3  | 2.9167     |
| B 249.678  | 114.373b    | ppb   | 10.3070 | 9.0   | -64.9272   |
| Ba 389.178 | 21.7317b    | ppb   | 1.0605  | 4.9   | 3159.87    |
| Be 313.042 | -0.1820b    | ppb   | 0.0061  | 3.4   | -317.667   |
| Ca 370.602 | 779374b     | ppb   | 1421    | 0.2   | 1487434    |
| Cd 226.502 | 8.5482b     | ppb   | 0.4724  | 5.5   | 2509.84    |
| Co 228.615 | -8.0249b    | ppb   | 1.6786  | 20.9  | -54.1179   |
| Cr 267.716 | -2.2875b    | ppb   | 0.2619  | 11.4  | 116.408    |
| Cu 324.754 | 5.0500b     | ppb   | 0.3776  | 7.5   | 763.119    |
| Fe 271.441 | 912394b     | ppb   | 2274.90 | 0.2   | 1432310    |
| K 766.491  | 432309xb    | ppb   | 410.116 | 0.1   | 14574811   |
| Mg 279.078 | 814778b     | ppb   | 368.838 | 0.0   | 1733972    |
| Mn 257.610 | 4.3333b     | ppb   | 0.0357  | 0.8   | 9877.70    |
| Mo 202.032 | 4.8213b     | ppb   | 1.4142  | 29.3  | 0.4398     |
| Na 330.237 | -2208.77b   | ppb   | 15.0924 | 0.7   | -662.560   |
| Ni 231.604 | -2.9669b    | ppb   | 1.0263  | 34.6  | 8.2561     |
| Pb 220.353 | 2.3152b     | ppb   | 2.5959  | 112.1 | 74.0794    |
| Sb 206.834 | 7.8605b     | ppb   | 11.7934 | 150.0 | 28.7739    |
| Se 196.026 | 2.6670b     | ppb   | 13.3132 | 499.2 | -3.5687    |
| Sn 189.925 | 2.7647b     | ppb   | 5.1759  | 187.2 | -11.9648   |
| Sr 216.596 | 23.0029b    | ppb   | 0.3376  | 1.5   | 1120.74    |
| Ti 334.941 | 5.8266b     | ppb   | 0.2944  | 5.1   | 5011.27    |
| Tl 190.794 | -32.9438b   | ppb   | 16.1274 | 49.0  | -54.3244   |
| V 292.401  | 6.8354b     | ppb   | 0.6522  | 9.5   | 152.078    |
| Zn 206.200 | 26614.9b    | ppb   | 47.9792 | 0.2   | 34290.4    |

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**RINSE (Samp)** 5/30/2013, 2:02:12 PM **Rack S, Tube 1****Weight: 1** **Volume: 1** **Dilution: 1**

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.0823u                 | -0.5633u | -0.2133u  |
| Al 308.215 | 53.5445                  | 54.3554  | 52.1849   |
| As 188.980 | 6.7762                   | 7.8984   | 9.1848    |
| B 249.678  | 37.7907                  | 35.1450  | 34.2461   |
| Ba 389.178 | -0.6537u                 | 0.7838   | 0.4905    |
| Be 313.042 | 0.0181                   | 0.0184   | 0.0092    |
| Ca 370.602 | 53.91                    | 61.75    | 47.65     |
| Cd 226.502 | -0.0509u                 | -0.1115u | 0.1358    |
| Co 228.615 | -0.0617u                 | -0.3658u | -0.3334u  |
| Cr 267.716 | 0.0137                   | 0.1570   | 0.2827    |
| Cu 324.754 | 0.0794                   | -0.2842u | -0.0393u  |
| Fe 271.441 | 65.8557                  | 77.6227  | 65.5180   |
| K 766.491  | 31.0681                  | 32.0178  | 27.4611   |
| Mg 279.078 | 52.7492                  | 53.6131  | 52.1664   |
| Mn 257.610 | 0.3369                   | 0.3403   | 0.3469    |
| Mo 202.032 | 0.5454                   | 0.6760   | -0.3450u  |
| Na 330.237 | -115.933u                | -6.4593u | -22.7548u |
| Ni 231.604 | 0.6145                   | 0.3947   | -0.1055u  |
| Pb 220.353 | -2.7681u                 | -1.6158u | 1.2240    |
| Sb 206.834 | -3.7421u                 | -3.4154u | -5.5185u  |
| Se 196.026 | -1.3155u                 | -6.0695u | 5.2252    |
| Sn 189.925 | 2.8183                   | 1.6916   | 3.9737    |
| Sr 216.596 | -0.3648u                 | 0.8171   | 0.5280    |
| Ti 334.941 | 0.4765                   | 0.4963   | 0.5972    |
| Tl 190.794 | -5.8933u                 | 8.5882   | -2.5986u  |
| V 292.401  | 0.1964                   | 0.6176   | 0.4932    |
| Zn 206.200 | 1.3292                   | 1.3363   | 1.5889    |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.2863     | ppb   | 0.2487  | 86.9    | -34.1121   |
| Al 308.215 | 53.3616     | ppb   | 1.0968  | 2.1     | 512.385    |
| As 188.980 | 7.9531      | ppb   | 1.2053  | 15.2    | -2.6920    |
| B 249.678  | 35.7273     | ppb   | 1.8427  | 5.2     | 594.741    |
| Ba 389.178 | 0.2069      | ppb   | 0.7596  | 367.2   | -8.9720    |
| Be 313.042 | 0.0152      | ppb   | 0.0052  | 34.3    | -227.779   |
| Ca 370.602 | 54.44       | ppb   | 7.067   | 13.0    | 101.0      |
| Cd 226.502 | -0.0089     | ppb   | 0.1289  | 1453.8  | 16.1840    |
| Co 228.615 | -0.2537     | ppb   | 0.1670  | 65.8    | 3.4252     |
| Cr 267.716 | 0.1511      | ppb   | 0.1346  | 89.1    | 14.1014    |
| Cu 324.754 | -0.0813     | ppb   | 0.1854  | 227.9   | 180.037    |
| Fe 271.441 | 69.6655     | ppb   | 6.8933  | 9.9     | 126.245    |
| K 766.491  | 30.1823     | ppb   | 2.4040  | 8.0     | 1273.46    |
| Mg 279.078 | 52.8429     | ppb   | 0.7279  | 1.4     | 147.869    |
| Mn 257.610 | 0.3414      | ppb   | 0.0051  | 1.5     | 107.574    |
| Mo 202.032 | 0.2922      | ppb   | 0.5556  | 190.2   | 12.5386    |
| Na 330.237 | -48.3825    | ppb   | 59.0654 | 122.1   | 46.6355    |
| Ni 231.604 | 0.3012      | ppb   | 0.3690  | 122.5   | -2.4551    |
| Pb 220.353 | -1.0533     | ppb   | 2.0546  | 195.1   | 25.5249    |
| Sb 206.834 | -4.2253     | ppb   | 1.1318  | 26.8    | -3.5702    |
| Se 196.026 | -0.7200     | ppb   | 5.6709  | 787.7   | 6.0761     |
| Sn 189.925 | 2.8279      | ppb   | 1.1411  | 40.4    | -12.2055   |
| Sr 216.596 | 0.3268      | ppb   | 0.6161  | 188.5   | 18.5348    |
| Ti 334.941 | 0.5233      | ppb   | 0.0647  | 12.4    | 77.6820    |
| Tl 190.794 | 0.0321      | ppb   | 7.5907  | 23656.3 | -9.7156    |
| V 292.401  | 0.4357      | ppb   | 0.2164  | 49.7    | -7.8415    |
| Zn 206.200 | 1.4182      | ppb   | 0.1479  | 10.4    | 6.7948     |

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**mb 680-278443/20-a (Samp)      5/30/2013, 2:17:39 PM      Rack 1, Tube 3**  
**Weight: 1      Volume: 1      Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1625                   | -0.7002u | -0.1384u |
| Al 308.215 | 67.9572                  | 69.7495  | 66.7612  |
| As 188.980 | 0.6265                   | -1.9191u | 2.4073   |
| B 249.678  | 12.6367                  | 11.9681  | 11.8321  |
| Ba 389.178 | 0.8537                   | 0.5633   | 0.1485   |
| Be 313.042 | 0.0108                   | 0.0030   | 0.0098   |
| Ca 370.602 | 38.96                    | 36.05    | 41.99    |
| Cd 226.502 | 0.0051                   | 0.2842   | 0.4675   |
| Co 228.615 | -0.1911u                 | -0.2632u | 0.3938   |
| Cr 267.716 | 1.5110                   | 1.9575   | 1.8240   |
| Cu 324.754 | 0.2964                   | 0.2838   | 0.5938   |
| Fe 271.441 | 96.1698                  | 92.3167  | 94.7124  |
| K 766.491  | 22.8383                  | 22.5782  | 22.5739  |
| Mg 279.078 | 12.3329                  | 15.3480  | 18.1298  |
| Mn 257.610 | 1.1469                   | 1.1759   | 1.1419   |
| Mo 202.032 | 0.3779                   | 0.4529   | 0.7342   |
| Na 330.237 | 362.142                  | 97.2828  | 97.0100  |
| Ni 231.604 | 0.2477                   | 1.4356   | 0.9546   |
| Pb 220.353 | 1.7785                   | 4.0110   | -0.3957u |
| Sb 206.834 | -1.9874u                 | -1.4426u | -7.7365u |
| Se 196.026 | 0.7690                   | -1.4409u | -0.1357u |
| Sn 189.925 | 27.3637                  | 23.5013  | 21.8950  |
| Sr 216.596 | -0.6839u                 | 0.2556   | 0.5455   |
| Ti 334.941 | 2.7162                   | 2.7758   | 2.6852   |
| Tl 190.794 | -6.9169u                 | 0.7004   | -0.8273u |
| V 292.401  | 0.3547                   | 0.2500   | 0.2874   |
| Zn 206.200 | 10.1524                  | 12.1090  | 11.3010  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2254     | ppb   | 0.4379  | 194.3  | -29.6862   |
| Al 308.215 | 68.1559     | ppb   | 1.5040  | 2.2    | 603.821    |
| As 188.980 | 0.3716      | ppb   | 2.1744  | 585.2  | -6.5314    |
| B 249.678  | 12.1456     | ppb   | 0.4307  | 3.5    | 273.324    |
| Ba 389.178 | 0.5218      | ppb   | 0.3544  | 67.9   | -3.1285    |
| Be 313.042 | 0.0079      | ppb   | 0.0043  | 54.1   | -240.917   |
| Ca 370.602 | 39.00       | ppb   | 2.967   | 7.6    | 69.98      |
| Cd 226.502 | 0.2523      | ppb   | 0.2329  | 92.3   | 24.8707    |
| Co 228.615 | -0.0202     | ppb   | 0.3603  | 1786.6 | 6.1476     |
| Cr 267.716 | 1.7642      | ppb   | 0.2292  | 13.0   | 88.7038    |
| Cu 324.754 | 0.3913      | ppb   | 0.1754  | 44.8   | 206.208    |
| Fe 271.441 | 94.3996     | ppb   | 1.9455  | 2.1    | 165.104    |
| K 766.491  | 22.6635     | ppb   | 0.1515  | 0.7    | 1019.97    |
| Mg 279.078 | 15.2702     | ppb   | 2.8992  | 19.0   | 67.8937    |
| Mn 257.610 | 1.1549      | ppb   | 0.0184  | 1.6    | 289.599    |
| Mo 202.032 | 0.5217      | ppb   | 0.1878  | 36.0   | 14.0937    |
| Na 330.237 | 185.478     | ppb   | 152.995 | 82.5   | 57.4628    |
| Ni 231.604 | 0.8793      | ppb   | 0.5975  | 68.0   | -0.9375    |
| Pb 220.353 | 1.7980      | ppb   | 2.2034  | 122.6  | 29.7525    |
| Sb 206.834 | -3.7222     | ppb   | 3.4872  | 93.7   | -3.0591    |
| Se 196.026 | -0.2692     | ppb   | 1.1110  | 412.7  | 6.2836     |
| Sn 189.925 | 24.2534     | ppb   | 2.8109  | 11.6   | 5.6663     |
| Sr 216.596 | 0.0391      | ppb   | 0.6427  | 1645.1 | 15.5302    |
| Ti 334.941 | 2.7257      | ppb   | 0.0461  | 1.7    | 650.086    |
| Tl 190.794 | -2.3479     | ppb   | 4.0299  | 171.6  | -10.8753   |
| V 292.401  | 0.2974      | ppb   | 0.0531  | 17.8   | -11.2968   |
| Zn 206.200 | 11.1875     | ppb   | 0.9832  | 8.8    | 10.3719    |

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Ics 680-278443/2-a (Samp) 5/30/2013, 2:22:13 PM Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 50.3952                  | 51.2376 | 50.6769 |
| Al 308.215 | 4929.35                  | 5012.08 | 4969.83 |
| As 188.980 | 97.9424                  | 114.335 | 104.029 |
| B 249.678  | 197.706                  | 201.227 | 200.456 |
| Ba 389.178 | 101.687                  | 103.166 | 102.703 |
| Be 313.042 | 51.5056                  | 52.2248 | 51.7675 |
| Ca 370.602 | 4980                     | 5054    | 5028    |
| Cd 226.502 | 51.5671                  | 52.7942 | 51.8107 |
| Co 228.615 | 50.9712                  | 51.1178 | 51.3501 |
| Cr 267.716 | 103.402                  | 105.363 | 104.165 |
| Cu 324.754 | 102.954                  | 102.844 | 103.148 |
| Fe 271.441 | 4992.09                  | 5064.35 | 5039.81 |
| K 766.491  | 4949.21                  | 5006.98 | 4988.23 |
| Mg 279.078 | 5019.70                  | 5088.71 | 5034.74 |
| Mn 257.610 | 528.057                  | 536.249 | 531.746 |
| Mo 202.032 | 103.879                  | 105.428 | 104.964 |
| Na 330.237 | 5156.53                  | 5223.47 | 5281.42 |
| Ni 231.604 | 102.507                  | 103.331 | 100.015 |
| Pb 220.353 | 53.8338                  | 54.8268 | 52.8262 |
| Sb 206.834 | 43.7574                  | 40.0038 | 43.5926 |
| Se 196.026 | 95.8555                  | 102.270 | 91.8364 |
| Sn 189.925 | 205.869                  | 216.035 | 213.071 |
| Sr 216.596 | 101.728                  | 103.442 | 102.276 |
| Ti 334.941 | 101.204                  | 102.774 | 101.891 |
| Tl 190.794 | 37.5962                  | 41.2537 | 41.8095 |
| V 292.401  | 102.731                  | 103.978 | 103.604 |
| Zn 206.200 | 103.101                  | 103.159 | 103.070 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 50.7699     | ppb   | 0.4288  | 0.8  | 3670.69    |
| Al 308.215 | 4970.42     | ppb   | 41.3669 | 0.8  | 30878.8    |
| As 188.980 | 105.436     | ppb   | 8.2863  | 7.9  | 46.6486    |
| B 249.678  | 199.797     | ppb   | 1.8510  | 0.9  | 2821.20    |
| Ba 389.178 | 102.519     | ppb   | 0.7567  | 0.7  | 1921.04    |
| Be 313.042 | 51.8326     | ppb   | 0.3640  | 0.7  | 91892.0    |
| Ca 370.602 | 5021        | ppb   | 37.78   | 0.8  | 9664       |
| Cd 226.502 | 52.0573     | ppb   | 0.6496  | 1.2  | 1746.67    |
| Co 228.615 | 51.1464     | ppb   | 0.1911  | 0.4  | 594.937    |
| Cr 267.716 | 104.310     | ppb   | 0.9884  | 0.9  | 4832.68    |
| Cu 324.754 | 102.982     | ppb   | 0.1539  | 0.1  | 5886.21    |
| Fe 271.441 | 5032.09     | ppb   | 36.7461 | 0.7  | 7923.42    |
| K 766.491  | 4981.47     | ppb   | 29.4688 | 0.6  | 168198     |
| Mg 279.078 | 5047.71     | ppb   | 36.2894 | 0.7  | 10768.9    |
| Mn 257.610 | 532.017     | ppb   | 4.1024  | 0.8  | 119266     |
| Mo 202.032 | 104.757     | ppb   | 0.7946  | 0.8  | 720.430    |
| Na 330.237 | 5220.47     | ppb   | 62.4997 | 1.2  | 290.784    |
| Ni 231.604 | 101.951     | ppb   | 1.7265  | 1.7  | 264.394    |
| Pb 220.353 | 53.8289     | ppb   | 1.0003  | 1.9  | 107.042    |
| Sb 206.834 | 42.4513     | ppb   | 2.1212  | 5.0  | 42.5288    |
| Se 196.026 | 96.6539     | ppb   | 5.2623  | 5.4  | 50.9981    |
| Sn 189.925 | 211.658     | ppb   | 5.2283  | 2.5  | 161.991    |
| Sr 216.596 | 102.482     | ppb   | 0.8752  | 0.9  | 1091.80    |
| Ti 334.941 | 101.956     | ppb   | 0.7869  | 0.8  | 26468.8    |
| Tl 190.794 | 40.2198     | ppb   | 2.2890  | 5.7  | 9.6532     |
| V 292.401  | 103.438     | ppb   | 0.6397  | 0.6  | 2484.74    |
| Zn 206.200 | 103.110     | ppb   | 0.0453  | 0.8  | 5137.478   |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

lb 680-278256/3-d (Samp) 5/30/2013, 2:26:48 PM Rack 1, Tube 5

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2301u                 | 0.1589   | 0.1030   |
| Al 308.215 | 65.4527                  | 66.8230  | 62.7366  |
| As 188.980 | -3.0928u                 | -3.1835u | -1.2133u |
| B 249.678  | 17.3232                  | 16.7998  | 16.7053  |
| Ba 389.178 | 0.4894                   | -0.0310u | -0.8983u |
| Be 313.042 | 0.0045                   | 0.0149   | 0.0005u  |
| Ca 370.602 | 114.0                    | 109.3    | 108.8    |
| Cd 226.502 | 0.1816                   | -0.1154u | 0.2524   |
| Co 228.615 | -0.4311u                 | -0.3643u | 0.2253   |
| Cr 267.716 | 3.6155                   | 3.9133   | 3.8223   |
| Cu 324.754 | -0.1280u                 | 0.3864   | 0.1356   |
| Fe 271.441 | 61.7444                  | 63.1151  | 61.5595  |
| K 766.491  | 42.7077                  | 42.3933  | 42.7377  |
| Mg 279.078 | 27.2730                  | 28.6407  | 27.8044  |
| Mn 257.610 | 1.2771                   | 1.2901   | 1.3065   |
| Mo 202.032 | 0.3312                   | -0.1188u | 0.0540   |
| Na 330.237 | 22740.1                  | 22961.6  | 22708.1  |
| Ni 231.604 | 4.7314                   | 3.5275   | 5.3061   |
| Pb 220.353 | -0.3440u                 | 0.6507   | 0.5758   |
| Sb 206.834 | 0.6136                   | 0.4961   | -1.5587u |
| Se 196.026 | 6.3956                   | -0.4586u | -8.7180u |
| Sn 189.925 | 23.3845                  | 23.9057  | 24.6325  |
| Sr 216.596 | -0.0355u                 | 0.5664   | 0.2381   |
| Ti 334.941 | 2.3355                   | 2.3616   | 2.3408   |
| Tl 190.794 | -4.8739u                 | -9.0840u | -7.3350u |
| V 292.401  | 0.4160                   | 0.4616   | 0.2976   |
| Zn 206.200 | 4.1179                   | 1.6841   | 0.2789   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0106      | ppb   | 0.2103  | 1988.5 | -12.5537   |
| Al 308.215 | 65.0041     | ppb   | 2.0798  | 3.2    | 584.313    |
| As 188.980 | -2.4965     | ppb   | 1.1122  | 44.6   | -7.9834    |
| B 249.678  | 16.9428     | ppb   | 0.3329  | 2.0    | 338.762    |
| Ba 389.178 | -0.1467     | ppb   | 0.7010  | 478.0  | -15.6423   |
| Be 313.042 | 0.0066      | ppb   | 0.0074  | 112.3  | -245.491   |
| Ca 370.602 | 110.7       | ppb   | 2.875   | 2.6    | 212.5      |
| Cd 226.502 | 0.1062      | ppb   | 0.1951  | 183.7  | 19.8596    |
| Co 228.615 | -0.1900     | ppb   | 0.3612  | 190.1  | 4.2011     |
| Cr 267.716 | 3.7837      | ppb   | 0.1526  | 4.0    | 182.458    |
| Cu 324.754 | 0.1313      | ppb   | 0.2573  | 195.9  | 191.797    |
| Fe 271.441 | 62.1397     | ppb   | 0.8498  | 1.4    | 114.447    |
| K 766.491  | 42.6129     | ppb   | 0.1908  | 0.4    | 1692.54    |
| Mg 279.078 | 27.9060     | ppb   | 0.6895  | 2.5    | 94.7778    |
| Mn 257.610 | 1.2912      | ppb   | 0.0147  | 1.1    | 320.039    |
| Mo 202.032 | 0.0888      | ppb   | 0.2270  | 255.7  | 11.1600    |
| Na 330.237 | 22803.3     | ppb   | 138.050 | 0.6    | 1118.83    |
| Ni 231.604 | 4.5216      | ppb   | 0.9077  | 20.1   | 8.6241     |
| Pb 220.353 | 0.2942      | ppb   | 0.5539  | 188.3  | 27.5217    |
| Sb 206.834 | -0.1497     | ppb   | 1.2217  | 816.3  | 0.4793     |
| Se 196.026 | -0.9270     | ppb   | 7.5677  | 816.4  | 5.9810     |
| Sn 189.925 | 23.9742     | ppb   | 0.6268  | 2.6    | 5.4414     |
| Sr 216.596 | 0.2563      | ppb   | 0.3013  | 117.6  | 17.7357    |
| Ti 334.941 | 2.3460      | ppb   | 0.0138  | 0.6    | 549.811    |
| Tl 190.794 | -7.0976     | ppb   | 2.1151  | 29.8   | -13.1872   |
| V 292.401  | 0.3917      | ppb   | 0.0847  | 21.6   | -9.1870    |
| Zn 206.200 | 2.0270      | ppb   | 1.9423  | 95.8   | 7.5674     |

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640-43567-a-21-1 (Samp)      5/30/2013, 2:31:23 PM      Rack 1, Tube 6  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1953u                 | -0.3501u | -0.0219  |
| Al 308.215 | 156.782                  | 154.279  | 157.247  |
| As 188.980 | 0.9791                   | -1.9858u | 0.2111   |
| B 249.678  | 101.210                  | 101.713  | 100.592  |
| Ba 389.178 | 1.2414                   | 1.4725   | 1.0547   |
| Be 313.042 | 0.0365                   | 0.0310u  | 0.0371   |
| Ca 370.602 | 320.0                    | 325.4    | 319.6    |
| Cd 226.502 | 173.781                  | 174.839  | 172.694  |
| Co 228.615 | 1.6948                   | 1.6650   | 1.5921   |
| Cr 267.716 | 5.0604                   | 4.9648   | 5.3111   |
| Cu 324.754 | 8.1271                   | 8.0633   | 7.9633   |
| Fe 271.441 | 6660.35                  | 6681.21  | 6647.97  |
| K 766.491  | 401.080                  | 402.030  | 400.607  |
| Mg 279.078 | 76.7827                  | 74.8560  | 77.2473  |
| Mn 257.610 | 1401.60                  | 1403.78  | 1397.05  |
| Mo 202.032 | 0.4189                   | 0.7351   | -0.1097u |
| Na 330.237 | 523047x                  | 523645x  | 522796x  |
| Ni 231.604 | 86.2666                  | 86.2797  | 86.3216  |
| Pb 220.353 | -4.3372u                 | 2.7753   | 0.9669   |
| Sb 206.834 | -5.4223u                 | 0.7340   | -8.7005u |
| Se 196.026 | 4.4259                   | 10.3235  | -5.6255u |
| Sn 189.925 | 165.240                  | 165.218  | 167.253  |
| Sr 216.596 | 1.9023                   | 1.7715   | 1.1313   |
| Ti 334.941 | 4.0810                   | 4.0145   | 3.9987   |
| Tl 190.794 | -3.2629u                 | -0.6455u | -4.3100u |
| V 292.401  | 0.6994                   | 0.5871   | 0.2414   |
| Zn 206.200 | 2.9998                   | 3.5406   | 4.0061   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1891b    | ppb   | 0.1642  | 86.8   | -20.9317   |
| Al 308.215 | 156.103b    | ppb   | 1.5963  | 1.0    | 1147.12    |
| As 188.980 | -0.2652b    | ppb   | 1.5387  | 580.2  | -6.9057    |
| B 249.678  | 101.172b    | ppb   | 0.5615  | 0.6    | 1474.07    |
| Ba 389.178 | 1.2562b     | ppb   | 0.2093  | 16.7   | 18.2379    |
| Be 313.042 | 0.0349b     | ppb   | 0.0034  | 9.7    | -249.459   |
| Ca 370.602 | 321.7b      | ppb   | 3.263   | 1.0    | 326.6      |
| Cd 226.502 | 173.771b    | ppb   | 1.0725  | 0.6    | 5765.23    |
| Co 228.615 | 1.6506b     | ppb   | 0.0528  | 3.2    | 25.5538    |
| Cr 267.716 | 5.1121b     | ppb   | 0.1789  | 3.5    | 258.047    |
| Cu 324.754 | 8.0513b     | ppb   | 0.0826  | 1.0    | 632.180    |
| Fe 271.441 | 6663.18b    | ppb   | 16.7988 | 0.3    | 10477.1    |
| K 766.491  | 401.239b    | ppb   | 0.7250  | 0.2    | 13783.0    |
| Mg 279.078 | 76.2953b    | ppb   | 1.2679  | 1.7    | 176.313    |
| Mn 257.610 | 1400.81b    | ppb   | 3.4334  | 0.2    | 313855     |
| Mo 202.032 | 0.3481b     | ppb   | 0.4268  | 122.6  | 12.6087    |
| Na 330.237 | 523163xb    | ppb   | 436.052 | 0.1    | 24593.9    |
| Ni 231.604 | 86.2893b    | ppb   | 0.0287  | 0.0    | 223.415    |
| Pb 220.353 | -0.1984b    | ppb   | 3.6966  | 1863.4 | 27.4741    |
| Sb 206.834 | -4.4629b    | ppb   | 4.7899  | 107.3  | -3.5797    |
| Se 196.026 | 3.0413b     | ppb   | 8.0642  | 265.2  | 8.0503     |
| Sn 189.925 | 165.904b    | ppb   | 1.1690  | 0.7    | 124.005    |
| Sr 216.596 | 1.6017b     | ppb   | 0.4126  | 25.8   | 36.2149    |
| Ti 334.941 | 4.0314b     | ppb   | 0.0437  | 1.1    | 953.256    |
| Tl 190.794 | -2.7395b    | ppb   | 1.8875  | 68.9   | -11.5864   |
| V 292.401  | 0.5093b     | ppb   | 0.2387  | 46.9   | -9.8708    |
| Zn 206.200 | 3.5155b     | ppb   | 0.5936  | 14.3   | 9.5381     |

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640-43567-a-21-m ms (Samp)      5/30/2013, 2:35:58 PM      Rack 1, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 115.482                  | 115.563 | 115.055 |
| Al 308.215 | 10548.9                  | 10525.8 | 10509.5 |
| As 188.980 | 224.503                  | 223.351 | 222.827 |
| B 249.678  | 485.184                  | 484.353 | 485.152 |
| Ba 389.178 | 204.119                  | 204.051 | 203.404 |
| Be 313.042 | 106.817                  | 106.732 | 106.506 |
| Ca 370.602 | 10341                    | 10308   | 10280   |
| Cd 226.502 | 263.796                  | 264.156 | 264.149 |
| Co 228.615 | 103.383                  | 103.158 | 103.138 |
| Cr 267.716 | 212.654                  | 212.466 | 212.012 |
| Cu 324.754 | 222.295                  | 221.573 | 219.960 |
| Fe 271.441 | 18215.6                  | 18179.0 | 18182.5 |
| K 766.491  | 15035.5                  | 15011.4 | 14920.0 |
| Mg 279.078 | 9796.45                  | 9792.37 | 9780.16 |
| Mn 257.610 | 2381.31                  | 2376.24 | 2372.62 |
| Mo 202.032 | 208.658                  | 210.510 | 210.316 |
| Na 330.237 | 503172x                  | 502322x | 500586x |
| Ni 231.604 | 281.749                  | 281.146 | 281.400 |
| Pb 220.353 | 99.2103                  | 104.483 | 101.452 |
| Sb 206.834 | 101.737                  | 91.3365 | 93.9292 |
| Se 196.026 | 222.989                  | 209.451 | 213.020 |
| Sn 189.925 | 539.581                  | 544.600 | 545.874 |
| Sr 216.596 | 205.171                  | 206.232 | 206.970 |
| Ti 334.941 | 206.845                  | 206.330 | 205.715 |
| Tl 190.794 | 77.7652                  | 80.3363 | 85.9073 |
| V 292.401  | 207.807                  | 207.322 | 207.197 |
| Zn 206.200 | 211.685                  | 206.886 | 212.264 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 115.367b    | ppb   | 0.2731  | 0.2  | 8364.15    |
| Al 308.215 | 10528.0b    | ppb   | 19.7766 | 0.2  | 65202.8    |
| As 188.980 | 223.560b    | ppb   | 0.8573  | 0.4  | 106.382    |
| B 249.678  | 484.896b    | ppb   | 0.4706  | 0.1  | 6681.47    |
| Ba 389.178 | 203.858b    | ppb   | 0.3945  | 0.2  | 3841.73    |
| Be 313.042 | 106.685b    | ppb   | 0.1604  | 0.2  | 189355     |
| Ca 370.602 | 10310b      | ppb   | 30.45   | 0.3  | 19482      |
| Cd 226.502 | 264.033b    | ppb   | 0.2060  | 0.1  | 8772.43    |
| Co 228.615 | 103.226b    | ppb   | 0.1357  | 0.1  | 1194.54    |
| Cr 267.716 | 212.377b    | ppb   | 0.3299  | 0.2  | 9846.10    |
| Cu 324.754 | 221.276b    | ppb   | 1.1952  | 0.5  | 12437.8    |
| Fe 271.441 | 18192.4b    | ppb   | 20.1752 | 0.1  | 28589.9    |
| K 766.491  | 14989.0b    | ppb   | 60.9112 | 0.4  | 505583     |
| Mg 279.078 | 9789.66b    | ppb   | 8.4795  | 0.1  | 20831.7    |
| Mn 257.610 | 2376.72b    | ppb   | 4.3636  | 0.2  | 532587     |
| Mo 202.032 | 209.828b    | ppb   | 1.0177  | 0.5  | 1432.05    |
| Na 330.237 | 502027xb    | ppb   | 1317.99 | 0.3  | 23595.6    |
| Ni 231.604 | 281.432b    | ppb   | 0.3025  | 0.1  | 735.735    |
| Pb 220.353 | 101.715b    | ppb   | 2.6460  | 2.6  | 178.943    |
| Sb 206.834 | 95.6675b    | ppb   | 5.4137  | 5.7  | 95.3250    |
| Se 196.026 | 215.154b    | ppb   | 7.0167  | 3.3  | 105.855    |
| Sn 189.925 | 543.352b    | ppb   | 3.3273  | 0.6  | 438.844    |
| Sr 216.596 | 206.124b    | ppb   | 0.9039  | 0.4  | 2186.46    |
| Ti 334.941 | 206.297b    | ppb   | 0.5662  | 0.3  | 53580.8    |
| Tl 190.794 | 81.3363b    | ppb   | 4.1622  | 5.1  | 28.9211    |
| V 292.401  | 207.442b    | ppb   | 0.3221  | 0.2  | 4998.09    |
| Zn 206.200 | 210.278b    | ppb   | 2.9519  | 1.4  | 513.274    |



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640-43567-a-21-n msd (Samp) 5/30/2013, 2:40:34 PM Rack 1, Tube 8  
 Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 120.274                  | 119.249 | 121.086 |
| Al 308.215 | 10526.9                  | 10438.3 | 10560.7 |
| As 188.980 | 223.563                  | 221.864 | 216.472 |
| B 249.678  | 488.878                  | 487.063 | 494.756 |
| Ba 389.178 | 204.690                  | 203.474 | 204.811 |
| Be 313.042 | 106.802                  | 105.766 | 107.147 |
| Ca 370.602 | 10341                    | 10246   | 10365   |
| Cd 226.502 | 260.658                  | 258.554 | 262.459 |
| Co 228.615 | 104.764                  | 103.534 | 103.972 |
| Cr 267.716 | 211.424                  | 209.410 | 212.360 |
| Cu 324.754 | 220.219                  | 218.744 | 221.420 |
| Fe 271.441 | 16025.9                  | 15872.5 | 16089.6 |
| K 766.491  | 14894.1                  | 14829.4 | 14978.9 |
| Mg 279.078 | 9825.12                  | 9722.14 | 9851.75 |
| Mn 257.610 | 2357.59                  | 2335.89 | 2365.89 |
| Mo 202.032 | 210.949                  | 208.554 | 211.594 |
| Na 330.237 | 492686x                  | 489777x | 495369x |
| Ni 231.604 | 281.038                  | 280.062 | 281.112 |
| Pb 220.353 | 109.016                  | 104.161 | 103.476 |
| Sb 206.834 | 99.9390                  | 97.3359 | 101.701 |
| Se 196.026 | 218.470                  | 215.641 | 216.553 |
| Sn 189.925 | 533.248                  | 529.858 | 542.257 |
| Sr 216.596 | 206.198                  | 204.939 | 207.548 |
| Ti 334.941 | 206.154                  | 204.175 | 206.858 |
| Tl 190.794 | 67.4358                  | 67.5896 | 82.2822 |
| V 292.401  | 208.056                  | 206.046 | 208.551 |
| Zn 206.200 | 208.507                  | 205.162 | 209.593 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 120.203b    | ppb   | 0.9205  | 0.8  | 8715.17    |
| Al 308.215 | 10508.6b    | ppb   | 63.2399 | 0.6  | 65082.7    |
| As 188.980 | 220.633b    | ppb   | 3.7022  | 1.7  | 104.917    |
| B 249.678  | 490.232b    | ppb   | 4.0211  | 0.8  | 6758.36    |
| Ba 389.178 | 204.325b    | ppb   | 0.7394  | 0.4  | 3847.96    |
| Be 313.042 | 106.572b    | ppb   | 0.7188  | 0.7  | 189154     |
| Ca 370.602 | 10317b      | ppb   | 62.78   | 0.6  | 19605      |
| Cd 226.502 | 260.557b    | ppb   | 1.9543  | 0.8  | 8652.42    |
| Co 228.615 | 104.090b    | ppb   | 0.6232  | 0.6  | 1204.38    |
| Cr 267.716 | 211.064b    | ppb   | 1.5074  | 0.7  | 9784.66    |
| Cu 324.754 | 220.128b    | ppb   | 1.3401  | 0.6  | 12373.6    |
| Fe 271.441 | 15996.0b    | ppb   | 111.599 | 0.7  | 25142.1    |
| K 766.491  | 14900.8b    | ppb   | 74.9548 | 0.5  | 502610     |
| Mg 279.078 | 9799.67b    | ppb   | 68.4507 | 0.7  | 20853.0    |
| Mn 257.610 | 2353.12b    | ppb   | 15.4894 | 0.7  | 527295     |
| Mo 202.032 | 210.366b    | ppb   | 1.6017  | 0.8  | 1435.80    |
| Na 330.237 | 492611xb    | ppb   | 2796.75 | 0.6  | 23154.4    |
| Ni 231.604 | 280.737b    | ppb   | 0.5858  | 0.2  | 733.865    |
| Pb 220.353 | 105.551b    | ppb   | 3.0200  | 2.9  | 184.487    |
| Sb 206.834 | 99.6585b    | ppb   | 2.1959  | 2.2  | 99.1836    |
| Se 196.026 | 216.888b    | ppb   | 1.4438  | 0.7  | 106.675    |
| Sn 189.925 | 535.121b    | ppb   | 6.4077  | 1.2  | 431.975    |
| Sr 216.596 | 206.228b    | ppb   | 1.3047  | 0.6  | 2185.67    |
| Ti 334.941 | 205.729b    | ppb   | 1.3908  | 0.7  | 53433.6    |
| Tl 190.794 | 72.4359b    | ppb   | 8.5275  | 11.8 | 24.6625    |
| V 292.401  | 207.551b    | ppb   | 1.3265  | 0.6  | 5000.78    |
| Zn 206.200 | 207.754b    | ppb   | 2.3995  | 1.1  | 5173.007   |

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**680-90676-a-1-a^10 (Samp)**      **5/30/2013, 2:45:09 PM**      **Rack 1, Tube 9**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1869                   | 0.0395u  | 0.2678   |
| Al 308.215 | 7.9306                   | 8.5729   | 11.7244  |
| As 188.980 | 27.4218                  | 20.6754  | 24.5002  |
| B 249.678  | 20.7814                  | 19.4532  | 18.5975  |
| Ba 389.178 | 183.242                  | 178.412  | 178.479  |
| Be 313.042 | -0.0020                  | 0.0067   | 0.0166   |
| Ca 370.602 | 54656                    | 53343    | 53485    |
| Cd 226.502 | -0.1438                  | -0.0960  | 0.1396   |
| Co 228.615 | 0.1252                   | -0.0937u | -0.0858u |
| Cr 267.716 | 0.1780                   | 0.2493   | 0.1273   |
| Cu 324.754 | -0.5502u                 | -0.3557u | -0.4252u |
| Fe 271.441 | 3660.14                  | 3578.48  | 3569.67  |
| K 766.491  | 408.666                  | 400.565  | 400.767  |
| Mg 279.078 | 42374.6                  | 41379.4  | 41240.8  |
| Mn 257.610 | 35.4217                  | 34.8234  | 34.9869  |
| Mo 202.032 | 0.4816                   | 0.2311   | 0.5884   |
| Na 330.237 | 18296.2                  | 18131.6  | 17806.0  |
| Ni 231.604 | 0.4367                   | 2.1700   | 1.3546   |
| Pb 220.353 | -1.6028u                 | 1.6600   | -0.4270u |
| Sb 206.834 | -1.3520u                 | -4.1204u | -4.3882u |
| Se 196.026 | 0.9522                   | 3.2836   | -3.0644u |
| Sn 189.925 | -1.2685u                 | 2.0052   | 1.7166   |
| Sr 216.596 | 233.308                  | 228.153  | 227.013  |
| Ti 334.941 | -0.5322                  | -0.4731  | -0.3869  |
| Tl 190.794 | 4.4575                   | -0.3523u | 0.5449   |
| V 292.401  | -0.0522u                 | 0.2472   | 0.2276   |
| Zn 206.200 | 0.7411                   | 0.6650   | 0.4877   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1647      | ppb   | 0.1157  | 70.3   | -11.9257   |
| Al 308.215 | 9.4093      | ppb   | 2.0305  | 21.6   | 240.855    |
| As 188.980 | 24.1991     | ppb   | 3.3832  | 14.0   | 5.5061     |
| B 249.678  | 19.6107     | ppb   | 1.1004  | 5.6    | 368.396    |
| Ba 389.178 | 180.044     | ppb   | 2.7697  | 1.5    | 3445.61    |
| Be 313.042 | 0.0071      | ppb   | 0.0093  | 131.7  | -227.984   |
| Ca 370.602 | 53828       | ppb   | 720.7   | 1.3    | 105660     |
| Cd 226.502 | -0.0334     | ppb   | 0.1517  | 454.4  | 24.2840    |
| Co 228.615 | -0.0181     | ppb   | 0.1241  | 684.8  | 6.2487     |
| Cr 267.716 | 0.1849      | ppb   | 0.0613  | 33.2   | 16.9228    |
| Cu 324.754 | -0.4437     | ppb   | 0.0986  | 22.2   | 161.153    |
| Fe 271.441 | 3602.76     | ppb   | 49.8861 | 1.4    | 5672.60    |
| K 766.491  | 403.333     | ppb   | 4.6199  | 1.1    | 13853.6    |
| Mg 279.078 | 41664.9     | ppb   | 618.503 | 1.5    | 88707.6    |
| Mn 257.610 | 35.0773     | ppb   | 0.3092  | 0.9    | 8227.23    |
| Mo 202.032 | 0.4337      | ppb   | 0.1834  | 42.3   | 13.3331    |
| Na 330.237 | 18077.9     | ppb   | 249.463 | 1.4    | 896.169    |
| Ni 231.604 | 1.3204      | ppb   | 0.8672  | 65.7   | 0.2934     |
| Pb 220.353 | -0.1233     | ppb   | 1.6525  | 1340.6 | 27.1342    |
| Sb 206.834 | -3.2869     | ppb   | 1.6810  | 51.1   | -2.5685    |
| Se 196.026 | 0.3905      | ppb   | 3.2111  | 822.4  | 6.5525     |
| Sn 189.925 | 0.8178      | ppb   | 1.8125  | 221.6  | -13.8529   |
| Sr 216.596 | 229.491     | ppb   | 3.3538  | 1.5    | 2430.61    |
| Ti 334.941 | -0.4641     | ppb   | 0.0731  | 15.8   | -5.8646    |
| Tl 190.794 | 1.5501      | ppb   | 2.5576  | 165.0  | -9.0950    |
| V 292.401  | 0.1409      | ppb   | 0.1675  | 118.9  | -14.7360   |
| Zn 206.200 | 0.6313      | ppb   | 0.1300  | 20.6   | 5.8127     |

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680-90676-a-4-a^10 (Samp) 5/30/2013, 2:49:46 PM Rack 1, Tube 10

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.3761u                 | -0.3614u | -0.3641u |
| Al 308.215 | 10.3609                  | 11.1692  | 12.5561  |
| As 188.980 | 3.5452                   | -1.5080u | -1.4402u |
| B 249.678  | 10.4274                  | 10.4723  | 10.0780  |
| Ba 389.178 | 28.3108                  | 26.5328  | 25.2576  |
| Be 313.042 | -0.0437u                 | -0.0420u | -0.0500u |
| Ca 370.602 | 295044                   | 291191   | 286559   |
| Cd 226.502 | -0.1387                  | 0.1500   | -0.1039  |
| Co 228.615 | -0.5203u                 | -0.1584u | -0.2543u |
| Cr 267.716 | -0.1864u                 | -0.6362u | -0.1684  |
| Cu 324.754 | -0.9935u                 | -0.8403u | -0.5849u |
| Fe 271.441 | 10696.0                  | 10588.4  | 10395.5  |
| K 766.491  | 1242.97                  | 1222.52  | 1197.09  |
| Mg 279.078 | 108107                   | 106772   | 104708   |
| Mn 257.610 | 91.6888                  | 90.6196  | 88.6450  |
| Mo 202.032 | -0.5409u                 | -0.2948u | -0.6408u |
| Na 330.237 | 302391x                  | 297321x  | 289815x  |
| Ni 231.604 | 2.9008                   | 1.2299   | 2.8690   |
| Pb 220.353 | -2.3928u                 | -1.6996u | 2.0897   |
| Sb 206.834 | -3.7862u                 | -9.7501u | -3.7259u |
| Se 196.026 | -2.8562u                 | -1.8068u | -0.7162u |
| Sn 189.925 | 2.4439                   | 4.3578   | -1.3172u |
| Sr 216.596 | 453.941                  | 449.297  | 440.264  |
| Ti 334.941 | -1.2714                  | -1.2575  | -1.2413  |
| Tl 190.794 | 1.3095                   | 4.6635   | -8.3032u |
| V 292.401  | 0.1351                   | 0.5031   | 0.1716   |
| Zn 206.200 | 2.3817                   | 3.0410   | 1.6607   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.3672b    | ppb   | 0.0078  | 2.1    | -61.2864   |
| Al 308.215 | 11.3621b    | ppb   | 1.1103  | 9.8    | 252.857    |
| As 188.980 | 0.1990b     | ppb   | 2.8981  | 1456.2 | -6.7028    |
| B 249.678  | 10.3259b    | ppb   | 0.2159  | 2.1    | 228.647    |
| Ba 389.178 | 26.7004b    | ppb   | 1.5335  | 5.7    | 723.313    |
| Be 313.042 | -0.0452b    | ppb   | 0.0042  | 9.4    | -275.143   |
| Ca 370.602 | 290932b     | ppb   | 4249    | 1.5    | 571522     |
| Cd 226.502 | -0.0309b    | ppb   | 0.1576  | 510.7  | 40.5418    |
| Co 228.615 | -0.3110b    | ppb   | 0.1875  | 60.3   | 3.1441     |
| Cr 267.716 | -0.3303b    | ppb   | 0.2650  | 80.2   | -0.3821    |
| Cu 324.754 | -0.8063b    | ppb   | 0.2064  | 25.6   | 143.346    |
| Fe 271.441 | 10560.0b    | ppb   | 152.274 | 1.4    | 16594.1    |
| K 766.491  | 1220.86b    | ppb   | 22.9857 | 1.9    | 41415.2    |
| Mg 279.078 | 106529b     | ppb   | 1712.22 | 1.6    | 226753     |
| Mn 257.610 | 90.3178b    | ppb   | 1.5442  | 1.7    | 21135.9    |
| Mo 202.032 | -0.4922b    | ppb   | 0.1781  | 36.2   | 6.7283     |
| Na 330.237 | 296509xb    | ppb   | 6327.17 | 2.1    | 13958.2    |
| Ni 231.604 | 2.3332b     | ppb   | 0.9556  | 41.0   | 3.0972     |
| Pb 220.353 | -0.6676b    | ppb   | 2.4129  | 361.4  | 26.7781    |
| Sb 206.834 | -5.7541b    | ppb   | 3.4608  | 60.1   | -4.8334    |
| Se 196.026 | -1.7931b    | ppb   | 1.0700  | 59.7   | 5.4742     |
| Sn 189.925 | 1.8282b     | ppb   | 2.8872  | 157.9  | -12.8123   |
| Sr 216.596 | 447.834b    | ppb   | 6.9548  | 1.6    | 4750.40    |
| Ti 334.941 | -1.2567b    | ppb   | 0.0151  | 1.2    | 41.4904    |
| Tl 190.794 | -0.7767b    | ppb   | 6.7304  | 866.5  | -10.4590   |
| V 292.401  | 0.2699b     | ppb   | 0.2028  | 75.1   | -12.6512   |
| Zn 206.200 | 2.3612b     | ppb   | 0.6904  | 29.2   | 8.1039     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90676-a-5-a^10 (Samp)**      **5/30/2013, 2:54:22 PM**      **Rack 1, Tube 11****Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.3272u                 | -0.1301u | -0.2574u |
| Al 308.215 | 8.6520                   | 9.8118   | 11.3062  |
| As 188.980 | -1.0364u                 | 0.0602   | 0.4868   |
| B 249.678  | 10.7106                  | 10.8219  | 10.1779  |
| Ba 389.178 | 35.5727                  | 36.4010  | 33.9651  |
| Be 313.042 | -0.0128u                 | -0.0159u | -0.0151u |
| Ca 370.602 | 110647                   | 108746   | 106703   |
| Cd 226.502 | 0.1801                   | 0.2057   | 0.1630   |
| Co 228.615 | 0.4084                   | -0.7241u | -0.4812u |
| Cr 267.716 | -0.0314                  | -0.2233u | -0.2208u |
| Cu 324.754 | -0.4896u                 | -0.3692u | -0.6930u |
| Fe 271.441 | 3445.49                  | 3352.40  | 3284.05  |
| K 766.491  | 1887.36                  | 1831.80  | 1785.23  |
| Mg 279.078 | 88790.5                  | 86713.7  | 85177.3  |
| Mn 257.610 | 76.0729                  | 74.3614  | 72.8658  |
| Mo 202.032 | -0.4019u                 | 0.2466   | -0.4959u |
| Na 330.237 | 284671x                  | 278034x  | 270830x  |
| Ni 231.604 | 3.1008                   | 1.5928   | 1.4361   |
| Pb 220.353 | -2.5798u                 | 0.9115   | -0.4763u |
| Sb 206.834 | -3.5363u                 | -6.6458u | -3.6211u |
| Se 196.026 | 0.4402                   | -1.0934u | -4.8743u |
| Sn 189.925 | 1.6519                   | -0.8830u | -1.4522u |
| Sr 216.596 | 406.406                  | 399.143  | 392.974  |
| Ti 334.941 | -1.1985                  | -1.2236  | -1.1795  |
| Tl 190.794 | -6.7020u                 | -3.3875u | -0.4874u |
| V 292.401  | 0.4146                   | 0.3889   | 0.1452   |
| Zn 206.200 | 2.8257                   | 0.7245   | 1.0418   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2382b    | ppb   | 0.0999  | 41.9  | -49.2113   |
| Al 308.215 | 9.9234b     | ppb   | 1.3306  | 13.4  | 243.982    |
| As 188.980 | -0.1631b    | ppb   | 0.7858  | 481.7 | -6.8286    |
| B 249.678  | 10.5701b    | ppb   | 0.3442  | 3.3   | 245.660    |
| Ba 389.178 | 35.3129b    | ppb   | 1.2385  | 3.5   | 834.329    |
| Be 313.042 | -0.0146b    | ppb   | 0.0016  | 10.9  | -277.679   |
| Ca 370.602 | 108699b     | ppb   | 1972    | 1.8   | 213562     |
| Cd 226.502 | 0.1829b     | ppb   | 0.0215  | 11.7  | 30.0785    |
| Co 228.615 | -0.2656b    | ppb   | 0.5962  | 224.5 | 3.4083     |
| Cr 267.716 | -0.1585b    | ppb   | 0.1101  | 69.4  | 5.5258     |
| Cu 324.754 | -0.5173b    | ppb   | 0.1637  | 31.6  | 156.981    |
| Fe 271.441 | 3360.65b    | ppb   | 81.0358 | 2.4   | 5292.49    |
| K 766.491  | 1834.80b    | ppb   | 51.1322 | 2.8   | 62112.9    |
| Mg 279.078 | 86893.8b    | ppb   | 1813.34 | 2.1   | 184964     |
| Mn 257.610 | 74.4333b    | ppb   | 1.6048  | 2.2   | 17399.7    |
| Mo 202.032 | -0.2171b    | ppb   | 0.4043  | 186.3 | 8.9317     |
| Na 330.237 | 277845xb    | ppb   | 6922.78 | 2.5   | 13084.5    |
| Ni 231.604 | 2.0432b     | ppb   | 0.9192  | 45.0  | 2.1863     |
| Pb 220.353 | -0.7149b    | ppb   | 1.7579  | 245.9 | 26.2505    |
| Sb 206.834 | -4.6011b    | ppb   | 1.7713  | 38.5  | -3.8629    |
| Se 196.026 | -1.8425b    | ppb   | 2.7353  | 148.5 | 5.5362     |
| Sn 189.925 | -0.2277b    | ppb   | 1.6525  | 725.6 | -14.6107   |
| Sr 216.596 | 399.508b    | ppb   | 6.7236  | 1.7   | 4219.16    |
| Ti 334.941 | -1.2005b    | ppb   | 0.0222  | 1.8   | -26.2677   |
| Tl 190.794 | -3.5256b    | ppb   | 3.1096  | 88.2  | -11.5683   |
| V 292.401  | 0.3162b     | ppb   | 0.1486  | 47.0  | -11.6592   |
| Zn 206.200 | 1.5306b     | ppb   | 1.1327  | 74.0  | 6.9696     |

**X (Samp)** **5/30/2013, 2:58:59 PM** **Rack 1, Tube 12**  
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.2879u                 | -0.3678u | 0.0384    |
| Al 308.215 | 8.0709                   | 9.4161   | 8.6594    |
| As 188.980 | -0.7484u                 | -3.3235u | -2.8686u  |
| B 249.678  | 2.6644                   | 2.4082   | 2.6938    |
| Ba 389.178 | 0.7810                   | 0.3945   | 0.5825    |
| Be 313.042 | 0.0568                   | 0.0543   | 0.0555    |
| Ca 370.602 | 11.04                    | 37.60    | 46.99     |
| Cd 226.502 | 0.2429                   | 0.0915   | 0.0455    |
| Co 228.615 | 0.2175                   | 0.4569   | 0.1289    |
| Cr 267.716 | 0.6635                   | 0.4138   | 0.5650    |
| Cu 324.754 | 0.1605                   | 0.1695   | 0.1231    |
| Fe 271.441 | 8.6586                   | 3.0155   | 11.8000   |
| K 766.491  | 3.8691                   | 4.4545   | 4.5968    |
| Mg 279.078 | 6.6316                   | 24.9186  | 25.9038   |
| Mn 257.610 | 0.6426                   | 0.7667   | 0.7839    |
| Mo 202.032 | -0.1270u                 | 0.0833   | 0.0457    |
| Na 330.237 | 130.885                  | 5.6062   | 121.622   |
| Ni 231.604 | 1.1058                   | 0.7058   | 2.3178    |
| Pb 220.353 | 1.0243                   | -0.8392u | -2.0417u  |
| Sb 206.834 | -8.3915u                 | -2.3172u | -3.3003u  |
| Se 196.026 | -5.6620u                 | -8.3113u | -14.4519u |
| Sn 189.925 | 0.4621                   | 4.1279   | 0.3343    |
| Sr 216.596 | -0.1598u                 | 0.2278   | 0.4238    |
| Ti 334.941 | 0.1816                   | 0.2885   | 0.1776    |
| Tl 190.794 | 2.0486                   | 0.8765   | -5.0627u  |
| V 292.401  | 0.5039                   | 0.8168   | 0.4676    |
| Zn 206.200 | -0.1382u                 | 0.9862   | 0.1844    |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.2058     | ppb   | 0.2152  | 104.6   | -28.2672   |
| Al 308.215 | 8.7154      | ppb   | 0.6743  | 7.7     | 236.464    |
| As 188.980 | -2.3135     | ppb   | 1.3744  | 59.4    | -7.8908    |
| B 249.678  | 2.5888      | ppb   | 0.1571  | 6.1     | 143.254    |
| Ba 389.178 | 0.5860      | ppb   | 0.1932  | 33.0    | -2.0222    |
| Be 313.042 | 0.0555      | ppb   | 0.0013  | 2.3     | -156.111   |
| Ca 370.602 | 31.88       | ppb   | 18.65   | 58.5    | 59.47      |
| Cd 226.502 | 0.1267      | ppb   | 0.1033  | 81.5    | 20.5139    |
| Co 228.615 | 0.2678      | ppb   | 0.1697  | 63.4    | 9.4296     |
| Cr 267.716 | 0.5474      | ppb   | 0.1258  | 23.0    | 32.4096    |
| Cu 324.754 | 0.1510      | ppb   | 0.0246  | 16.3    | 192.864    |
| Fe 271.441 | 7.8247      | ppb   | 4.4512  | 56.9    | 29.2298    |
| K 766.491  | 4.3068      | ppb   | 0.3857  | 9.0     | 401.111    |
| Mg 279.078 | 19.1513     | ppb   | 10.8536 | 56.7    | 76.1621    |
| Mn 257.610 | 0.7310      | ppb   | 0.0771  | 10.5    | 194.447    |
| Mo 202.032 | 0.0007      | ppb   | 0.1122  | 16911.5 | 10.5647    |
| Na 330.237 | 86.0376     | ppb   | 69.8094 | 81.1    | 52.9742    |
| Ni 231.604 | 1.3765      | ppb   | 0.8394  | 61.0    | 0.3653     |
| Pb 220.353 | -0.6189     | ppb   | 1.5448  | 249.6   | 26.1664    |
| Sb 206.834 | -4.6697     | ppb   | 3.2605  | 69.8    | -4.0016    |
| Se 196.026 | -9.4751     | ppb   | 4.5090  | 47.6    | 2.0433     |
| Sn 189.925 | 1.6414      | ppb   | 2.1543  | 131.2   | -13.1951   |
| Sr 216.596 | 0.1639      | ppb   | 0.2970  | 181.2   | 16.7620    |
| Ti 334.941 | 0.2159      | ppb   | 0.0629  | 29.1    | -2.3827    |
| Tl 190.794 | -0.7125     | ppb   | 3.8127  | 535.1   | -10.0756   |
| V 292.401  | 0.5961      | ppb   | 0.1920  | 32.2    | -3.9106    |
| Zn 206.200 | 0.3441      | ppb   | 0.5790  | 168.2   | 5.4098     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

**mb 680-278184/1-a (Samp)**      **5/30/2013, 3:12:41 PM**      **Rack 1, Tube 15**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -0.3445u                 | -0.0349u  | -0.0128u |
| Al 308.215 | 25.6928                  | 26.5788   | 25.5413  |
| As 188.980 | -0.6053u                 | -4.2464u  | 1.1590   |
| B 249.678  | 5.2019                   | 5.2728    | 4.5128   |
| Ba 389.178 | 0.4806                   | -0.3589u  | -0.0481u |
| Be 313.042 | -0.0020u                 | 0.0098    | 0.0056   |
| Ca 370.602 | 57.86                    | 56.20     | 54.46    |
| Cd 226.502 | 0.1764                   | 0.0526    | -0.0404u |
| Co 228.615 | -0.5787u                 | 0.1281    | 0.1292   |
| Cr 267.716 | 0.0491                   | 0.0132    | 0.0225   |
| Cu 324.754 | -0.2163u                 | 0.1798    | -0.2181u |
| Fe 271.441 | 4.4652                   | 7.5482    | 4.6903   |
| K 766.491  | 3.1895                   | 2.5701    | 2.9594   |
| Mg 279.078 | 185.204                  | 185.426   | 181.955  |
| Mn 257.610 | 0.2338                   | 0.2368    | 0.2576   |
| Mo 202.032 | -0.3129u                 | 0.2018    | -0.7945u |
| Na 330.237 | 20.7326                  | 2.9048    | 26.1908  |
| Ni 231.604 | 0.9226                   | -0.9110u  | 0.3518   |
| Pb 220.353 | 0.3643                   | -2.3269u  | -1.7319u |
| Sb 206.834 | 1.1782                   | -1.3366u  | -5.1099u |
| Se 196.026 | -2.5002u                 | -10.6460u | -8.0825u |
| Sn 189.925 | 1.0850                   | 2.4013    | 7.6541   |
| Sr 216.596 | 0.2854                   | 0.4078    | 0.1699   |
| Ti 334.941 | 0.0776                   | 0.1309    | 0.0975   |
| Tl 190.794 | 7.3507                   | -2.1152u  | 0.8609   |
| V 292.401  | 0.1799                   | 0.3165    | 0.1127   |
| Zn 206.200 | 0.2981                   | 0.1702    | 1.2534   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1307     | ppb   | 0.1854  | 141.9  | -22.8257   |
| Al 308.215 | 25.9376     | ppb   | 0.5604  | 2.2    | 342.943    |
| As 188.980 | -1.2309     | ppb   | 2.7565  | 223.9  | -7.3423    |
| B 249.678  | 4.9958      | ppb   | 0.4198  | 8.4    | 176.060    |
| Ba 389.178 | 0.0245      | ppb   | 0.4244  | 1732.9 | -12.1774   |
| Be 313.042 | 0.0044      | ppb   | 0.0060  | 134.6  | -246.874   |
| Ca 370.602 | 56.18       | ppb   | 1.699   | 3.0    | 107.3      |
| Cd 226.502 | 0.0628      | ppb   | 0.1088  | 173.1  | 18.4039    |
| Co 228.615 | -0.1072     | ppb   | 0.4084  | 381.1  | 5.1154     |
| Cr 267.716 | 0.0283      | ppb   | 0.0187  | 65.9   | 8.4081     |
| Cu 324.754 | -0.0849     | ppb   | 0.2292  | 270.0  | 179.805    |
| Fe 271.441 | 5.5679      | ppb   | 1.7187  | 30.9   | 25.6403    |
| K 766.491  | 2.9063      | ppb   | 0.3131  | 10.8   | 353.896    |
| Mg 279.078 | 184.195     | ppb   | 1.9431  | 1.1    | 427.413    |
| Mn 257.610 | 0.2428      | ppb   | 0.0130  | 5.3    | 86.3603    |
| Mo 202.032 | -0.3019     | ppb   | 0.4983  | 165.1  | 8.5142     |
| Na 330.237 | 16.6094     | ppb   | 12.1782 | 73.3   | 49.7152    |
| Ni 231.604 | 0.1211      | ppb   | 0.9383  | 774.7  | -2.9296    |
| Pb 220.353 | -1.2315     | ppb   | 1.4137  | 114.8  | 25.2582    |
| Sb 206.834 | -1.7561     | ppb   | 3.1650  | 180.2  | -1.1347    |
| Se 196.026 | -7.0762     | ppb   | 4.1651  | 58.9   | 3.1484     |
| Sn 189.925 | 3.7135      | ppb   | 3.4756  | 93.6   | -11.4668   |
| Sr 216.596 | 0.2877      | ppb   | 0.1190  | 41.3   | 18.0755    |
| Ti 334.941 | 0.1020      | ppb   | 0.0269  | 26.4   | -31.3122   |
| Tl 190.794 | 2.0321      | ppb   | 4.8404  | 238.2  | -8.7394    |
| V 292.401  | 0.2030      | ppb   | 0.1038  | 51.1   | -13.4249   |
| Zn 206.200 | 0.5739      | ppb   | 0.5919  | 103.1  | 5.7074     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

ics 680-278184/2-a (Samp) 5/30/2013, 3:17:15 PM Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.8707                  | 50.6922 | 50.3607 |
| Al 308.215 | 4909.99                  | 4949.69 | 4903.48 |
| As 188.980 | 106.252                  | 100.968 | 107.161 |
| B 249.678  | 192.894                  | 195.164 | 194.359 |
| Ba 389.178 | 101.291                  | 102.236 | 101.066 |
| Be 313.042 | 51.1879                  | 51.6601 | 51.2920 |
| Ca 370.602 | 4961                     | 5019    | 4959    |
| Cd 226.502 | 50.8677                  | 51.8125 | 51.1686 |
| Co 228.615 | 50.3644                  | 52.0181 | 51.1919 |
| Cr 267.716 | 102.283                  | 103.363 | 102.357 |
| Cu 324.754 | 102.445                  | 102.638 | 102.122 |
| Fe 271.441 | 4953.32                  | 4994.14 | 4971.77 |
| K 766.491  | 4958.13                  | 5004.32 | 4948.83 |
| Mg 279.078 | 4976.64                  | 5019.10 | 4977.14 |
| Mn 257.610 | 524.733                  | 529.044 | 524.276 |
| Mo 202.032 | 102.964                  | 103.106 | 102.385 |
| Na 330.237 | 5012.46                  | 4875.84 | 4839.06 |
| Ni 231.604 | 101.939                  | 103.033 | 101.374 |
| Pb 220.353 | 51.0495                  | 47.2381 | 49.9825 |
| Sb 206.834 | 43.6967                  | 44.5411 | 49.0329 |
| Se 196.026 | 107.264                  | 99.9724 | 107.410 |
| Sn 189.925 | 209.921                  | 214.789 | 212.479 |
| Sr 216.596 | 100.650                  | 101.338 | 101.127 |
| Ti 334.941 | 100.445                  | 101.477 | 100.657 |
| Tl 190.794 | 45.6719                  | 37.5744 | 48.5072 |
| V 292.401  | 102.142                  | 102.192 | 101.851 |
| Zn 206.200 | 100.941                  | 102.226 | 101.551 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 50.3079     | ppb   | 0.4133  | 0.8  | 3637.19    |
| Al 308.215 | 4921.05     | ppb   | 25.0122 | 0.5  | 30573.9    |
| As 188.980 | 104.793     | ppb   | 3.3442  | 3.2  | 46.3240    |
| B 249.678  | 194.139     | ppb   | 1.1508  | 0.6  | 2744.21    |
| Ba 389.178 | 101.531     | ppb   | 0.6209  | 0.6  | 1902.38    |
| Be 313.042 | 51.3800     | ppb   | 0.2481  | 0.5  | 91087.5    |
| Ca 370.602 | 4980        | ppb   | 34.30   | 0.7  | 9586       |
| Cd 226.502 | 51.2829     | ppb   | 0.4826  | 0.9  | 1720.97    |
| Co 228.615 | 51.1915     | ppb   | 0.8268  | 1.6  | 595.476    |
| Cr 267.716 | 102.668     | ppb   | 0.6034  | 0.6  | 4756.70    |
| Cu 324.754 | 102.402     | ppb   | 0.2607  | 0.3  | 5854.04    |
| Fe 271.441 | 4973.08     | ppb   | 20.4417 | 0.4  | 7830.78    |
| K 766.491  | 4970.42     | ppb   | 29.7183 | 0.6  | 167825     |
| Mg 279.078 | 4990.96     | ppb   | 24.3725 | 0.5  | 10648.2    |
| Mn 257.610 | 526.018     | ppb   | 2.6307  | 0.5  | 117922     |
| Mo 202.032 | 102.818     | ppb   | 0.3823  | 0.4  | 707.292    |
| Na 330.237 | 4909.12     | ppb   | 91.3662 | 1.9  | 276.218    |
| Ni 231.604 | 102.115     | ppb   | 0.8436  | 0.8  | 264.825    |
| Pb 220.353 | 49.4234     | ppb   | 1.9663  | 4.0  | 100.509    |
| Sb 206.834 | 45.7569     | ppb   | 2.8684  | 6.3  | 45.7878    |
| Se 196.026 | 104.882     | ppb   | 4.2527  | 4.1  | 54.7883    |
| Sn 189.925 | 212.396     | ppb   | 2.4352  | 1.1  | 162.606    |
| Sr 216.596 | 101.038     | ppb   | 0.3526  | 0.3  | 1076.62    |
| Ti 334.941 | 100.860     | ppb   | 0.5449  | 0.5  | 26183.6    |
| Tl 190.794 | 43.9178     | ppb   | 5.6735  | 12.9 | 11.4574    |
| V 292.401  | 102.062     | ppb   | 0.1840  | 0.2  | 2451.54    |
| Zn 206.200 | 101.573     | ppb   | 0.6428  | 0.6  | 135.503    |

680-90622-b-13-a (Samp) 5/30/2013, 3:21:49 PM Rack 1, Tube 17  
 Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.9824                   | 0.8503   | -0.2036  |
| Al 308.215 | 115112                   | 118611   | 113301   |
| As 188.980 | 215.385                  | 216.947  | 201.470  |
| B 249.678  | 90.5953                  | 92.6257  | 89.0194  |
| Ba 389.178 | 2043.17                  | 2103.38  | 2012.95  |
| Be 313.042 | 16.6701                  | 17.2576  | 16.4169  |
| Ca 370.602 | 253266                   | 259993   | 247794   |
| Cd 226.502 | 8.5452                   | 8.7632   | 7.4674   |
| Co 228.615 | 81.5887                  | 84.6282  | 81.0821  |
| Cr 267.716 | 319.242                  | 328.617  | 314.218  |
| Cu 324.754 | 420.687                  | 434.970  | 414.625  |
| Fe 271.441 | 314655                   | 323878   | 309687   |
| K 766.491  | 14685.4                  | 15082.4  | 14584.2  |
| Mg 279.078 | 46661.3                  | 47985.9  | 45886.3  |
| Mn 257.610 | 9532.52                  | 9757.30  | 9345.36  |
| Mo 202.032 | 14.0136                  | 15.0350  | 14.4757  |
| Na 330.237 | 1821.81u                 | 1805.56u | 1923.95u |
| Ni 231.604 | 102.884                  | 105.896  | 100.612  |
| Pb 220.353 | 2059.69                  | 2122.45  | 2026.37  |
| Sb 206.834 | 41.6455                  | 40.6186  | 45.6358  |
| Se 196.026 | 7.9414                   | 6.2570   | 11.3825  |
| Sn 189.925 | 73.8312                  | 75.0487  | 71.2268  |
| Sr 216.596 | 627.333                  | 649.417  | 619.476  |
| Ti 334.941 | 1930.08                  | 1984.92  | 1901.65  |
| Tl 190.794 | 21.0097u                 | 21.0780u | 27.1896  |
| V 292.401  | 379.776                  | 391.933  | 374.048  |
| Zn 206.200 | 4151.21                  | 4256.59  | 4080.64  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.5430      | ppb   | 0.6500  | 119.7 | 41.0397    |
| Al 308.215 | 115675      | ppb   | 2699.49 | 2.3   | 714823     |
| As 188.980 | 211.267     | ppb   | 8.5203  | 4.0   | 98.6533    |
| B 249.678  | 90.7468     | ppb   | 1.8079  | 2.0   | 744.508    |
| Ba 389.178 | 2053.17     | ppb   | 46.0374 | 2.2   | 38842.0    |
| Be 313.042 | 16.7815     | ppb   | 0.4313  | 2.6   | 29650.8    |
| Ca 370.602 | 253685      | ppb   | 6110    | 2.4   | 484028     |
| Cd 226.502 | 8.2586      | ppb   | 0.6938  | 8.4   | 1052.33    |
| Co 228.615 | 82.4330     | ppb   | 1.9179  | 2.3   | 1010.30    |
| Cr 267.716 | 320.692     | ppb   | 7.3083  | 2.3   | 14948.6    |
| Cu 324.754 | 423.428     | ppb   | 10.4457 | 2.5   | 23712.6    |
| Fe 271.441 | 316073      | ppb   | 7200.96 | 2.3   | 496208     |
| K 766.491  | 14784.0     | ppb   | 263.343 | 1.8   | 498674     |
| Mg 279.078 | 46844.5     | ppb   | 1061.73 | 2.3   | 99599.9    |
| Mn 257.610 | 9545.06     | ppb   | 206.256 | 2.2   | 2139528    |
| Mo 202.032 | 14.5081     | ppb   | 0.5115  | 3.5   | 93.4301    |
| Na 330.237 | 1850.44     | ppb   | 64.1757 | 3.5   | -13.3005   |
| Ni 231.604 | 103.131     | ppb   | 2.6505  | 2.6   | 273.917    |
| Pb 220.353 | 2069.50     | ppb   | 48.7860 | 2.4   | 3114.26    |
| Sb 206.834 | 42.6333     | ppb   | 2.6504  | 6.2   | 52.4128    |
| Se 196.026 | 8.5270      | ppb   | 2.6124  | 30.6  | 8.6502     |
| Sn 189.925 | 73.3689     | ppb   | 1.9524  | 2.7   | 46.7335    |
| Sr 216.596 | 632.075     | ppb   | 15.5239 | 2.5   | 6941.17    |
| Ti 334.941 | 1938.88     | ppb   | 42.3295 | 2.2   | 504235     |
| Tl 190.794 | 23.0924     | ppb   | 3.5484  | 15.4  | -10.3214   |
| V 292.401  | 381.919     | ppb   | 9.1330  | 2.4   | 9304.62    |
| Zn 206.200 | 4162.82     | ppb   | 88.5484 | 2.1   | 5368.06    |



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**680-90622-b-13-aSD^5 (Samp) 5/30/2013, 3:26:24 PM Rack 1, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0635u                 | 0.0074   | -0.2641u |
| Al 308.215 | 25799.6                  | 25516.7  | 25339.1  |
| As 188.980 | 54.4366                  | 49.2333  | 51.8494  |
| B 249.678  | 23.5035                  | 23.4099  | 22.0680  |
| Ba 389.178 | 471.021                  | 466.331  | 464.386  |
| Be 313.042 | 3.8735                   | 3.8479   | 3.8199   |
| Ca 370.602 | 58095                    | 57461    | 56866    |
| Cd 226.502 | 1.6894                   | 1.7223   | 1.7101   |
| Co 228.615 | 18.9702                  | 19.3318  | 18.6832  |
| Cr 267.716 | 74.0862                  | 73.9878  | 73.4786  |
| Cu 324.754 | 91.9764                  | 92.2952  | 90.2253  |
| Fe 271.441 | 73239.4                  | 72452.3  | 72009.6  |
| K 766.491  | 2764.88                  | 2728.51  | 2719.39  |
| Mg 279.078 | 10905.8                  | 10795.5  | 10734.7  |
| Mn 257.610 | 2300.36                  | 2276.19  | 2260.85  |
| Mo 202.032 | 3.0575                   | 2.5692   | 3.0229   |
| Na 330.237 | 587.155u                 | 239.063u | 568.876u |
| Ni 231.604 | 24.9579                  | 24.7339  | 22.7064  |
| Pb 220.353 | 493.210                  | 479.615  | 477.238  |
| Sb 206.834 | 8.1835                   | 4.6299   | 10.0558  |
| Se 196.026 | 1.0198                   | 5.1521   | 6.3711   |
| Sn 189.925 | 18.5231                  | 21.4036  | 20.7345  |
| Sr 216.596 | 147.168                  | 145.315  | 145.025  |
| Ti 334.941 | 442.419                  | 438.131  | 434.589  |
| Tl 190.794 | 8.9535                   | 7.4432   | 6.7141   |
| V 292.401  | 88.5798                  | 87.8356  | 87.5560  |
| Zn 206.200 | 982.926                  | 972.321  | 967.857  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1067     | ppb   | 0.1408  | 132.0 | -17.2845   |
| Al 308.215 | 25551.8     | ppb   | 232.235 | 0.9   | 158041     |
| As 188.980 | 51.8398     | ppb   | 2.6017  | 5.0   | 19.1541    |
| B 249.678  | 22.9938     | ppb   | 0.8031  | 3.5   | 283.549    |
| Ba 389.178 | 467.246     | ppb   | 3.4111  | 0.7   | 8830.35    |
| Be 313.042 | 3.8471      | ppb   | 0.0268  | 0.7   | 6600.87    |
| Ca 370.602 | 57474       | ppb   | 614.6   | 1.1   | 109611     |
| Cd 226.502 | 1.7073      | ppb   | 0.0166  | 1.0   | 247.945    |
| Co 228.615 | 18.9951     | ppb   | 0.3250  | 1.7   | 237.499    |
| Cr 267.716 | 73.8509     | ppb   | 0.3261  | 0.4   | 3448.17    |
| Cu 324.754 | 91.4989     | ppb   | 1.1145  | 1.2   | 5270.05    |
| Fe 271.441 | 72567.1     | ppb   | 622.913 | 0.9   | 113937     |
| K 766.491  | 2737.59     | ppb   | 24.0635 | 0.9   | 92549.2    |
| Mg 279.078 | 10812.0     | ppb   | 86.7340 | 0.8   | 23014.6    |
| Mn 257.610 | 2279.13     | ppb   | 19.9182 | 0.9   | 510881     |
| Mo 202.032 | 2.8832      | ppb   | 0.2725  | 9.5   | 26.5511    |
| Na 330.237 | 465.031     | ppb   | 195.908 | 42.1  | 36.3039    |
| Ni 231.604 | 24.1327     | ppb   | 1.2403  | 5.1   | 61.5801    |
| Pb 220.353 | 483.354     | ppb   | 8.6177  | 1.8   | 748.087    |
| Sb 206.834 | 7.6231      | ppb   | 2.7560  | 36.2  | 10.3643    |
| Se 196.026 | 4.1810      | ppb   | 2.8047  | 67.1  | 7.9676     |
| Sn 189.925 | 20.2204     | ppb   | 1.5075  | 7.5   | 2.3247     |
| Sr 216.596 | 145.836     | ppb   | 1.1627  | 0.8   | 1612.74    |
| Ti 334.941 | 438.380     | ppb   | 3.9209  | 0.9   | 113963     |
| Tl 190.794 | 7.7036      | ppb   | 1.1422  | 14.8  | -8.7149    |
| V 292.401  | 87.9905     | ppb   | 0.5291  | 0.6   | 2129.48    |
| Zn 206.200 | 974.368     | ppb   | 7.7402  | 0.8   | 1260.27    |

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**680-90622-b-13-aPDS (Samp) 5/30/2013, 3:31:10 PM Rack 1, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 52.0845                  | 51.3551 | 51.5907 |
| Al 308.215 | 114769                   | 114531  | 115274  |
| As 188.980 | 2438.11                  | 2430.50 | 2434.89 |
| B 249.678  | 1112.47                  | 1118.07 | 1126.23 |
| Ba 389.178 | 3973.19                  | 3972.43 | 3993.48 |
| Be 313.042 | 66.0213                  | 66.0100 | 66.2638 |
| Ca 370.602 | 251947                   | 252549  | 252105  |
| Cd 226.502 | 56.5064                  | 56.4435 | 56.7550 |
| Co 228.615 | 579.230                  | 577.414 | 575.005 |
| Cr 267.716 | 511.124                  | 510.451 | 513.101 |
| Cu 324.754 | 678.284                  | 679.241 | 675.385 |
| Fe 271.441 | 308150                   | 308033  | 309559  |
| K 766.491  | 20394.9                  | 20375.2 | 20528.7 |
| Mg 279.078 | 50746.8                  | 50728.4 | 50894.7 |
| Mn 257.610 | 9817.16                  | 9773.55 | 9783.21 |
| Mo 202.032 | 541.648                  | 540.977 | 545.361 |
| Na 330.237 | 7391.96                  | 7459.64 | 7536.55 |
| Ni 231.604 | 588.660                  | 589.515 | 592.060 |
| Pb 220.353 | 2510.63                  | 2517.94 | 2523.65 |
| Sb 206.834 | 542.230                  | 534.069 | 540.627 |
| Se 196.026 | 2136.63                  | 2126.74 | 2126.81 |
| Sn 189.925 | 1076.04                  | 1079.53 | 1067.93 |
| Sr 216.596 | 1114.21                  | 1114.97 | 1119.38 |
| Ti 334.941 | 2808.47                  | 2826.19 | 2841.55 |
| Tl 190.794 | 2042.55                  | 2009.16 | 2034.89 |
| V 292.401  | 871.795                  | 873.056 | 876.808 |
| Zn 206.200 | 4520.97                  | 4500.37 | 4529.95 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 51.6768     | ppb   | 0.3723  | 0.7  | 3736.14    |
| Al 308.215 | 114858      | ppb   | 379.357 | 0.3  | 709701     |
| As 188.980 | 2434.50     | ppb   | 3.8181  | 0.2  | 1224.41    |
| B 249.678  | 1118.92     | ppb   | 6.9179  | 0.6  | 14770.3    |
| Ba 389.178 | 3979.70     | ppb   | 11.9408 | 0.3  | 74870.2    |
| Be 313.042 | 66.0984     | ppb   | 0.1434  | 0.2  | 117245     |
| Ca 370.602 | 252200      | ppb   | 311.9   | 0.1  | 481780     |
| Cd 226.502 | 56.5683     | ppb   | 0.1647  | 0.3  | 2628.84    |
| Co 228.615 | 577.217     | ppb   | 2.1195  | 0.4  | 6711.59    |
| Cr 267.716 | 511.559     | ppb   | 1.3772  | 0.3  | 23770.3    |
| Cu 324.754 | 677.637     | ppb   | 2.0077  | 0.3  | 37786.2    |
| Fe 271.441 | 308581      | ppb   | 849.218 | 0.3  | 484509     |
| K 766.491  | 20432.9     | ppb   | 83.5552 | 0.4  | 689117     |
| Mg 279.078 | 50790.0     | ppb   | 91.1842 | 0.2  | 107992     |
| Mn 257.610 | 9791.31     | ppb   | 22.9039 | 0.2  | 2194704    |
| Mo 202.032 | 542.662     | ppb   | 2.3614  | 0.4  | 3673.97    |
| Na 330.237 | 7462.71     | ppb   | 72.3419 | 1.0  | 244.341    |
| Ni 231.604 | 590.078     | ppb   | 1.7686  | 0.3  | 1551.06    |
| Pb 220.353 | 2517.41     | ppb   | 6.5275  | 0.3  | 3776.71    |
| Sb 206.834 | 538.975     | ppb   | 4.3237  | 0.8  | 536.433    |
| Se 196.026 | 2130.06     | ppb   | 5.6905  | 0.3  | 986.201    |
| Sn 189.925 | 1074.50     | ppb   | 5.9528  | 0.6  | 881.813    |
| Sr 216.596 | 1116.19     | ppb   | 2.7920  | 0.3  | 11997.5    |
| Ti 334.941 | 2825.40     | ppb   | 16.5559 | 0.6  | 734723     |
| Tl 190.794 | 2028.87     | ppb   | 17.4893 | 0.9  | 967.255    |
| V 292.401  | 873.886     | ppb   | 2.6077  | 0.3  | 21225.7    |
| Zn 206.200 | 4517.10     | ppb   | 15.1660 | 0.3  | 5823.67    |

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**680-90622-b-13-b ms (Samp) 5/30/2013, 3:35:45 PM Rack 1, Tube 20****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 48.2251                  | 48.2659 | 48.5191 |
| Al 308.215 | 115655                   | 115870  | 115790  |
| As 188.980 | 328.039                  | 330.122 | 338.760 |
| B 249.678  | 264.155                  | 262.911 | 262.370 |
| Ba 389.178 | 2503.27                  | 2506.74 | 2502.80 |
| Be 313.042 | 63.6844                  | 63.8163 | 63.5039 |
| Ca 370.602 | 208692                   | 208546  | 207995  |
| Cd 226.502 | 56.8778                  | 57.5183 | 57.5223 |
| Co 228.615 | 138.942                  | 139.455 | 139.567 |
| Cr 267.716 | 423.806                  | 425.516 | 424.499 |
| Cu 324.754 | 568.869                  | 568.042 | 570.240 |
| Fe 271.441 | 311553                   | 312787  | 312511  |
| K 766.491  | 20272.9                  | 20312.2 | 20265.6 |
| Mg 279.078 | 50449.1                  | 50533.3 | 50539.5 |
| Mn 257.610 | 12537.2                  | 12541.1 | 12569.6 |
| Mo 202.032 | 108.427                  | 108.207 | 108.745 |
| Na 330.237 | 6813.53                  | 6909.96 | 7006.00 |
| Ni 231.604 | 204.966                  | 204.915 | 204.402 |
| Pb 220.353 | 2420.04                  | 2414.79 | 2420.63 |
| Sb 206.834 | 87.7050                  | 81.9592 | 88.3552 |
| Se 196.026 | 100.895                  | 110.188 | 95.6698 |
| Sn 189.925 | 262.298                  | 257.882 | 260.425 |
| Sr 216.596 | 748.800                  | 750.539 | 750.271 |
| Ti 334.941 | 2020.87                  | 2026.52 | 2023.04 |
| Tl 190.794 | 71.0352                  | 59.5853 | 60.2475 |
| V 292.401  | 426.860                  | 428.444 | 427.223 |
| Zn 206.200 | 5492.55                  | 5493.58 | 5512.44 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 48.3367     | ppb   | 0.1593  | 0.3  | 3519.01    |
| Al 308.215 | 115771      | ppb   | 108.454 | 0.1  | 715416     |
| As 188.980 | 332.307     | ppb   | 5.6847  | 1.7  | 159.957    |
| B 249.678  | 263.145     | ppb   | 0.9150  | 0.3  | 3101.09    |
| Ba 389.178 | 2504.27     | ppb   | 2.1555  | 0.1  | 47281.1    |
| Be 313.042 | 63.6682     | ppb   | 0.1568  | 0.2  | 112989     |
| Ca 370.602 | 208411      | ppb   | 367.9   | 0.2  | 395277     |
| Cd 226.502 | 57.3061     | ppb   | 0.3710  | 0.6  | 2662.05    |
| Co 228.615 | 139.321     | ppb   | 0.3330  | 0.2  | 1664.63    |
| Cr 267.716 | 424.607     | ppb   | 0.8604  | 0.2  | 19764.6    |
| Cu 324.754 | 569.050     | ppb   | 1.1102  | 0.2  | 31771.0    |
| Fe 271.441 | 312283      | ppb   | 647.544 | 0.2  | 490266     |
| K 766.491  | 20283.6     | ppb   | 25.0783 | 0.1  | 684081     |
| Mg 279.078 | 50507.3     | ppb   | 50.5234 | 0.1  | 107346     |
| Mn 257.610 | 12549.3     | ppb   | 17.6776 | 0.1  | 2812558    |
| Mo 202.032 | 108.460     | ppb   | 0.2704  | 0.2  | 730.552    |
| Na 330.237 | 6909.83     | ppb   | 96.2331 | 1.4  | 206.787    |
| Ni 231.604 | 204.761     | ppb   | 0.3115  | 0.2  | 540.521    |
| Pb 220.353 | 2418.49     | ppb   | 3.2132  | 0.1  | 3631.83    |
| Sb 206.834 | 86.0065     | ppb   | 3.5200  | 4.1  | 95.1515    |
| Se 196.026 | 102.251     | ppb   | 7.3536  | 7.2  | 52.5677    |
| Sn 189.925 | 260.202     | ppb   | 2.2165  | 0.9  | 202.560    |
| Sr 216.596 | 749.870     | ppb   | 0.9366  | 0.1  | 8166.12    |
| Ti 334.941 | 2023.48     | ppb   | 2.8463  | 0.1  | 526241     |
| Tl 190.794 | 63.6227     | ppb   | 6.4279  | 10.1 | 8.9232     |
| V 292.401  | 427.509     | ppb   | 0.8300  | 0.2  | 10398.5    |
| Zn 206.200 | 5499.52     | ppb   | 11.1970 | 0.2  | 7089.24    |

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**680-90622-b-13-c msd (Samp) 5/30/2013, 3:40:21 PM Rack 1, Tube 21**  
**Weight: 1 Volume: 1 Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 48.9732                  | 47.5725 | 48.0414 |
| Al 308.215 | 131982                   | 132004  | 132707  |
| As 188.980 | 317.371                  | 319.600 | 323.237 |
| B 249.678  | 280.912                  | 282.381 | 284.285 |
| Ba 389.178 | 2383.70                  | 2382.71 | 2397.04 |
| Be 313.042 | 66.2700                  | 66.4474 | 66.8009 |
| Ca 370.602 | 282320                   | 279187  | 280192  |
| Cd 226.502 | 54.6752                  | 55.5894 | 55.6564 |
| Co 228.615 | 122.467                  | 122.076 | 123.210 |
| Cr 267.716 | 409.093                  | 409.068 | 411.758 |
| Cu 324.754 | 501.748                  | 507.939 | 505.756 |
| Fe 271.441 | 279781                   | 280340  | 281425  |
| K 766.491  | 24498.7                  | 24573.6 | 24658.8 |
| Mg 279.078 | 55462.8                  | 55571.9 | 55791.0 |
| Mn 257.610 | 10612.1                  | 10630.8 | 10644.8 |
| Mo 202.032 | 106.362                  | 107.300 | 107.300 |
| Na 330.237 | 7059.06                  | 6973.77 | 7140.49 |
| Ni 231.604 | 194.471                  | 192.008 | 192.754 |
| Pb 220.353 | 2225.39                  | 2229.14 | 2225.30 |
| Sb 206.834 | 72.4353                  | 71.7005 | 64.7247 |
| Se 196.026 | 102.185                  | 99.6991 | 106.958 |
| Sn 189.925 | 247.023                  | 247.796 | 250.480 |
| Sr 216.596 | 797.338                  | 799.624 | 800.055 |
| Ti 334.941 | 2258.56                  | 2265.56 | 2280.09 |
| Tl 190.794 | 50.4593                  | 54.7356 | 68.2673 |
| V 292.401  | 420.332                  | 422.369 | 422.701 |
| Zn 206.200 | 4207.85                  | 4206.51 | 4204.16 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 48.1957     | ppb   | 0.7130  | 1.5  | 3498.24    |
| Al 308.215 | 132231      | ppb   | 412.113 | 0.3  | 817115     |
| As 188.980 | 320.069     | ppb   | 2.9607  | 0.9  | 154.145    |
| B 249.678  | 282.526     | ppb   | 1.6912  | 0.6  | 3425.54    |
| Ba 389.178 | 2387.82     | ppb   | 8.0067  | 0.3  | 45077.8    |
| Be 313.042 | 66.5061     | ppb   | 0.2703  | 0.4  | 118062     |
| Ca 370.602 | 280566      | ppb   | 1600    | 0.6  | 538766     |
| Cd 226.502 | 55.3070     | ppb   | 0.5482  | 1.0  | 2519.45    |
| Co 228.615 | 122.584     | ppb   | 0.5758  | 0.5  | 1476.32    |
| Cr 267.716 | 409.973     | ppb   | 1.5460  | 0.4  | 19073.4    |
| Cu 324.754 | 505.148     | ppb   | 3.1403  | 0.6  | 28224.9    |
| Fe 271.441 | 280515      | ppb   | 835.973 | 0.3  | 440394     |
| K 766.491  | 24577.0     | ppb   | 80.1188 | 0.3  | 828828     |
| Mg 279.078 | 55608.6     | ppb   | 167.108 | 0.3  | 118223     |
| Mn 257.610 | 10629.2     | ppb   | 16.4056 | 0.2  | 2382375    |
| Mo 202.032 | 106.988     | ppb   | 0.5417  | 0.5  | 722.070    |
| Na 330.237 | 7057.77     | ppb   | 83.3674 | 1.2  | 239.039    |
| Ni 231.604 | 193.078     | ppb   | 1.2632  | 0.7  | 509.229    |
| Pb 220.353 | 2226.61     | ppb   | 2.1922  | 0.1  | 3344.61    |
| Sb 206.834 | 69.6202     | ppb   | 4.2555  | 6.1  | 78.2187    |
| Se 196.026 | 102.948     | ppb   | 3.6891  | 3.6  | 52.8366    |
| Sn 189.925 | 248.433     | ppb   | 1.8145  | 0.7  | 192.775    |
| Sr 216.596 | 799.006     | ppb   | 1.4600  | 0.2  | 8661.36    |
| Ti 334.941 | 2268.07     | ppb   | 10.9815 | 0.5  | 589848     |
| Tl 190.794 | 57.8207     | ppb   | 9.2963  | 16.1 | 7.5031     |
| V 292.401  | 421.801     | ppb   | 1.2824  | 0.3  | 10263.6    |
| Zn 206.200 | 4206.17     | ppb   | 1.8678  | 0.0  | 5423.30    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90622-a-14-a (Samp) 5/30/2013, 3:44:57 PM Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.1890                   | -0.4203u | 0.1741   |
| Al 308.215 | 123289                   | 124013   | 124522   |
| As 188.980 | 225.770                  | 233.269  | 233.980  |
| B 249.678  | 100.984                  | 101.964  | 100.347  |
| Ba 389.178 | 2380.92                  | 2387.62  | 2404.24  |
| Be 313.042 | 18.0232                  | 18.0925  | 18.1263  |
| Ca 370.602 | 213019                   | 212017   | 215134   |
| Cd 226.502 | 11.1071                  | 11.3912  | 11.5109  |
| Co 228.615 | 104.452                  | 105.203  | 106.044  |
| Cr 267.716 | 379.274                  | 380.763  | 382.867  |
| Cu 324.754 | 501.211                  | 495.947  | 501.140  |
| Fe 271.441 | 326998                   | 328014   | 329945   |
| K 766.491  | 25410.6                  | 25359.8  | 25472.0  |
| Mg 279.078 | 43871.4                  | 44174.9  | 44250.9  |
| Mn 257.610 | 12395.1                  | 12504.6  | 12542.0  |
| Mo 202.032 | 17.4557                  | 17.7423  | 17.2241  |
| Na 330.237 | 2261.82u                 | 2100.56u | 1808.01u |
| Ni 231.604 | 124.303                  | 124.090  | 126.043  |
| Pb 220.353 | 2858.57                  | 2875.57  | 2890.31  |
| Sb 206.834 | 151.627                  | 166.830  | 155.866  |
| Se 196.026 | 2.7808                   | 12.0886  | 27.0752  |
| Sn 189.925 | 95.1559                  | 101.016  | 95.8535  |
| Sr 216.596 | 603.205                  | 604.803  | 609.346  |
| Ti 334.941 | 2201.17                  | 2198.93  | 2212.38  |
| Tl 190.794 | 16.4610u                 | 22.8474u | 15.0674u |
| V 292.401  | 352.937                  | 354.448  | 356.629  |
| Zn 206.200 | 5290.17                  | 5319.94  | 5346.58  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0191     | ppb   | 0.3476  | 1820.3 | 14.3269    |
| Al 308.215 | 123941      | ppb   | 619.987 | 0.5    | 765903     |
| As 188.980 | 231.006     | ppb   | 4.5488  | 2.0    | 108.616    |
| B 249.678  | 101.098     | ppb   | 0.8143  | 0.8    | 862.329    |
| Ba 389.178 | 2390.93     | ppb   | 12.0033 | 0.5    | 45165.9    |
| Be 313.042 | 18.0807     | ppb   | 0.0526  | 0.3    | 31947.4    |
| Ca 370.602 | 213390      | ppb   | 1591    | 0.7    | 404334     |
| Cd 226.502 | 11.3364     | ppb   | 0.2074  | 1.8    | 1183.47    |
| Co 228.615 | 105.233     | ppb   | 0.7966  | 0.8    | 1279.27    |
| Cr 267.716 | 380.968     | ppb   | 1.8048  | 0.5    | 17751.5    |
| Cu 324.754 | 499.433     | ppb   | 3.0190  | 0.6    | 27922.3    |
| Fe 271.441 | 328319      | ppb   | 1496.82 | 0.5    | 515434     |
| K 766.491  | 25414.1     | ppb   | 56.2105 | 0.2    | 857049     |
| Mg 279.078 | 44099.1     | ppb   | 200.787 | 0.5    | 93709.3    |
| Mn 257.610 | 12480.6     | ppb   | 76.3820 | 0.6    | 2797155    |
| Mo 202.032 | 17.4741     | ppb   | 0.2596  | 1.5    | 113.014    |
| Na 330.237 | 2056.80     | ppb   | 230.046 | 11.2   | -23.4936   |
| Ni 231.604 | 124.812     | ppb   | 1.0715  | 0.9    | 331.044    |
| Pb 220.353 | 2874.82     | ppb   | 15.8849 | 0.6    | 4309.28    |
| Sb 206.834 | 158.107     | ppb   | 7.8453  | 5.0    | 166.845    |
| Se 196.026 | 13.9815     | ppb   | 12.2573 | 87.7   | 11.6883    |
| Sn 189.925 | 97.3418     | ppb   | 3.2009  | 3.3    | 66.7131    |
| Sr 216.596 | 605.785     | ppb   | 3.1861  | 0.5    | 6671.72    |
| Ti 334.941 | 2204.16     | ppb   | 7.2067  | 0.3    | 573190     |
| Tl 190.794 | 18.1253     | ppb   | 4.1484  | 22.9   | -13.7631   |
| V 292.401  | 354.672     | ppb   | 1.8564  | 0.5    | 8640.51    |
| Zn 206.200 | 5318.90     | ppb   | 28.2190 | 0.5    | 6856.89    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90622-b-20-a (Samp) 5/30/2013, 3:49:32 PM Rack 1, Tube 23****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1219                  | 0.5773   | 0.0415   |
| Al 308.215 | 111392                   | 111227   | 111371   |
| As 188.980 | 216.687                  | 215.543  | 216.904  |
| B 249.678  | 66.9623                  | 65.4416  | 65.7689  |
| Ba 389.178 | 2772.89                  | 2765.61  | 2768.43  |
| Be 313.042 | 11.9002                  | 11.8710  | 11.8808  |
| Ca 370.602 | 228004                   | 226679   | 227172   |
| Cd 226.502 | 27.9129                  | 27.3666  | 27.7997  |
| Co 228.615 | 82.2210                  | 82.5761  | 84.2881  |
| Cr 267.716 | 481.952                  | 481.873  | 481.272  |
| Cu 324.754 | 1078.88                  | 1065.31  | 1059.82  |
| Fe 271.441 | 301438                   | 300813   | 301154   |
| K 766.491  | 11642.3                  | 11622.1  | 11651.1  |
| Mg 279.078 | 100418                   | 100137   | 100361   |
| Mn 257.610 | 12168.0                  | 12136.4  | 12134.4  |
| Mo 202.032 | 25.4144                  | 25.9990  | 25.5779  |
| Na 330.237 | 314.718u                 | 219.885u | 518.926u |
| Ni 231.604 | 164.973                  | 165.546  | 164.762  |
| Pb 220.353 | 3133.60                  | 3125.93  | 3133.29  |
| Sb 206.834 | 17.6990                  | 12.7142  | 14.6161  |
| Se 196.026 | 2.8312                   | 4.4464   | 8.5407   |
| Sn 189.925 | 122.136                  | 112.055  | 108.439  |
| Sr 216.596 | 357.885                  | 355.987  | 357.373  |
| Ti 334.941 | 1478.91                  | 1478.13  | 1481.38  |
| Tl 190.794 | 30.6411                  | 28.2977  | 17.8127u |
| V 292.401  | 425.789                  | 424.744  | 425.603  |
| Zn 206.200 | 7513.44                  | 7481.69  | 7484.28  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1656      | ppb   | 0.3657  | 220.9 | 36.6985    |
| Al 308.215 | 111330      | ppb   | 89.8652 | 0.1   | 687972     |
| As 188.980 | 216.378     | ppb   | 0.7310  | 0.3   | 101.323    |
| B 249.678  | 66.0576     | ppb   | 0.8004  | 1.2   | 436.412    |
| Ba 389.178 | 2768.98     | ppb   | 3.6699  | 0.1   | 52322.9    |
| Be 313.042 | 11.8840     | ppb   | 0.0148  | 0.1   | 20928.0    |
| Ca 370.602 | 227285      | ppb   | 669.4   | 0.3   | 432749     |
| Cd 226.502 | 27.6931     | ppb   | 0.2883  | 1.0   | 1658.33    |
| Co 228.615 | 83.0284     | ppb   | 1.1053  | 1.3   | 1006.53    |
| Cr 267.716 | 481.699     | ppb   | 0.3718  | 0.1   | 22399.4    |
| Cu 324.754 | 1068.00     | ppb   | 9.8067  | 0.9   | 59371.9    |
| Fe 271.441 | 301135      | ppb   | 312.921 | 0.1   | 472758     |
| K 766.491  | 11638.5     | ppb   | 14.8640 | 0.1   | 392627     |
| Mg 279.078 | 100305      | ppb   | 148.698 | 0.1   | 213332     |
| Mn 257.610 | 12146.3     | ppb   | 18.8607 | 0.2   | 2722634    |
| Mo 202.032 | 25.6638     | ppb   | 0.3016  | 1.2   | 169.694    |
| Na 330.237 | 351.177     | ppb   | 152.818 | 43.5  | -123.033   |
| Ni 231.604 | 165.093     | ppb   | 0.4057  | 0.2   | 436.274    |
| Pb 220.353 | 3130.94     | ppb   | 4.3385  | 0.1   | 4687.78    |
| Sb 206.834 | 15.0098     | ppb   | 2.5156  | 16.8  | 26.1166    |
| Se 196.026 | 5.2728      | ppb   | 2.9431  | 55.8  | 7.9333     |
| Sn 189.925 | 114.210     | ppb   | 7.0984  | 6.2   | 80.7888    |
| Sr 216.596 | 357.081     | ppb   | 0.9818  | 0.3   | 4040.15    |
| Ti 334.941 | 1479.48     | ppb   | 1.6955  | 0.1   | 385023     |
| Tl 190.794 | 25.5838     | ppb   | 6.8312  | 26.7  | -9.2233    |
| V 292.401  | 425.378     | ppb   | 0.5575  | 0.1   | 10349.3    |
| Zn 206.200 | 7493.14     | ppb   | 17.6299 | 0.2   | 9656.54    |

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680-90622-b-21-a (Samp) 5/30/2013, 3:54:09 PM Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.9826                   | 0.5331   | 0.6616   |
| Al 308.215 | 121276                   | 120864   | 121188   |
| As 188.980 | 239.801                  | 244.140  | 257.004  |
| B 249.678  | 78.8729                  | 79.1446  | 79.8976  |
| Ba 389.178 | 3229.42                  | 3218.90  | 3223.42  |
| Be 313.042 | 13.9429                  | 13.8908  | 13.9037  |
| Ca 370.602 | 231593                   | 230490   | 231845   |
| Cd 226.502 | 28.3297                  | 27.8709  | 27.9899  |
| Co 228.615 | 88.8441                  | 88.9228  | 88.5218  |
| Cr 267.716 | 535.149                  | 533.247  | 533.491  |
| Cu 324.754 | 1141.96                  | 1142.80  | 1130.85  |
| Fe 271.441 | 352178                   | 350961   | 351739   |
| K 766.491  | 13123.2                  | 13080.6  | 13066.9  |
| Mg 279.078 | 101290                   | 100999   | 101073   |
| Mn 257.610 | 12776.9                  | 12753.4  | 12811.1  |
| Mo 202.032 | 31.5764                  | 31.8878  | 31.0904  |
| Na 330.237 | 743.029u                 | 773.406u | 541.017u |
| Ni 231.604 | 177.447                  | 175.995  | 176.049  |
| Pb 220.353 | 3837.61                  | 3821.43  | 3847.91  |
| Sb 206.834 | 21.2058                  | 14.1019  | 15.5783  |
| Se 196.026 | 9.2095                   | 6.1892   | 15.1052  |
| Sn 189.925 | 123.346                  | 122.905  | 123.279  |
| Sr 216.596 | 448.586                  | 446.344  | 450.228  |
| Ti 334.941 | 1803.82                  | 1795.78  | 1796.14  |
| Tl 190.794 | 32.8610                  | 29.1871  | 33.9215  |
| V 292.401  | 477.207                  | 475.900  | 476.059  |
| Zn 206.200 | 7629.21                  | 7626.96  | 7622.00  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 0.7258      | ppb   | 0.2315  | 31.9 | 76.1913    |
| Al 308.215 | 121109      | ppb   | 217.124 | 0.2  | 748386     |
| As 188.980 | 246.982     | ppb   | 8.9465  | 3.6  | 116.494    |
| B 249.678  | 79.3050     | ppb   | 0.5308  | 0.7  | 521.038    |
| Ba 389.178 | 3223.91     | ppb   | 5.2754  | 0.2  | 60889.5    |
| Be 313.042 | 13.9125     | ppb   | 0.0271  | 0.2  | 24533.0    |
| Ca 370.602 | 231310      | ppb   | 720.5   | 0.3  | 438288     |
| Cd 226.502 | 28.0635     | ppb   | 0.2381  | 0.8  | 1792.49    |
| Co 228.615 | 88.7629     | ppb   | 0.2125  | 0.2  | 1081.45    |
| Cr 267.716 | 533.962     | ppb   | 1.0353  | 0.2  | 24830.4    |
| Cu 324.754 | 1138.54     | ppb   | 6.6686  | 0.6  | 63290.7    |
| Fe 271.441 | 351626      | ppb   | 616.391 | 0.2  | 552022     |
| K 766.491  | 13090.2     | ppb   | 29.3752 | 0.2  | 441571     |
| Mg 279.078 | 101121      | ppb   | 151.387 | 0.1  | 215064     |
| Mn 257.610 | 12780.5     | ppb   | 28.9860 | 0.2  | 2864844    |
| Mo 202.032 | 31.5182     | ppb   | 0.4018  | 1.3  | 206.930    |
| Na 330.237 | 685.817     | ppb   | 126.317 | 18.4 | -124.019   |
| Ni 231.604 | 176.497     | ppb   | 0.8230  | 0.5  | 467.249    |
| Pb 220.353 | 3835.65     | ppb   | 13.3487 | 0.3  | 5735.57    |
| Sb 206.834 | 16.9620     | ppb   | 3.7487  | 22.1 | 29.5724    |
| Se 196.026 | 10.1680     | ppb   | 4.5346  | 44.6 | 9.7142     |
| Sn 189.925 | 123.176     | ppb   | 0.2376  | 0.2  | 88.2688    |
| Sr 216.596 | 448.386     | ppb   | 1.9498  | 0.4  | 5041.67    |
| Ti 334.941 | 1798.58     | ppb   | 4.5422  | 0.3  | 467990     |
| Tl 190.794 | 31.9899     | ppb   | 2.4845  | 7.8  | -7.8075    |
| V 292.401  | 476.389     | ppb   | 0.7132  | 0.1  | 11594.3    |
| Zn 206.200 | 7626.06     | ppb   | 3.6898  | 0.0  | 9828.01    |

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**680-90622-b-27-a (Samp)**                      **5/30/2013, 4:07:51 PM**                      **Rack 1, Tube 27**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 2.8542                   | 3.1629   | 1.9478   |
| Al 308.215 | 108842                   | 108816   | 108782   |
| As 188.980 | 318.946                  | 303.313  | 317.204  |
| B 249.678  | 62.6901                  | 62.7223  | 61.2710  |
| Ba 389.178 | 2824.83                  | 2829.00  | 2826.59  |
| Be 313.042 | 11.2926                  | 11.3137  | 11.3043  |
| Ca 370.602 | 71930                    | 71733    | 71850    |
| Cd 226.502 | 21.1235                  | 21.1005  | 20.8753  |
| Co 228.615 | 120.171                  | 120.721  | 119.655  |
| Cr 267.716 | 381.911                  | 382.320  | 381.043  |
| Cu 324.754 | 794.938                  | 789.010  | 795.169  |
| Fe 271.441 | 408349                   | 410134   | 410557   |
| K 766.491  | 11744.6                  | 11746.9  | 11760.4  |
| Mg 279.078 | 10871.3                  | 10877.7  | 10870.3  |
| Mn 257.610 | 18575.2                  | 18576.4  | 18540.8  |
| Mo 202.032 | 38.4921                  | 37.8291  | 38.7338  |
| Na 330.237 | 1077.86u                 | 981.816u | 1137.74u |
| Ni 231.604 | 184.724                  | 180.702  | 180.864  |
| Pb 220.353 | 3295.31                  | 3289.75  | 3285.83  |
| Sb 206.834 | 23.5057                  | 31.7670  | 27.0166  |
| Se 196.026 | 8.9778                   | 7.5576   | 8.1011   |
| Sn 189.925 | 221.416                  | 232.633  | 224.918  |
| Sr 216.596 | 515.201                  | 517.251  | 514.753  |
| Ti 334.941 | 1864.77                  | 1868.64  | 1867.32  |
| Tl 190.794 | 45.8356                  | 44.9053  | 38.5008  |
| V 292.401  | 364.891                  | 366.326  | 365.249  |
| Zn 206.200 | 7720.40                  | 7713.37  | 7689.86  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 2.6550      | ppb   | 0.6316  | 23.8 | 239.727    |
| Al 308.215 | 108813      | ppb   | 30.4006 | 0.0  | 672430     |
| As 188.980 | 313.154     | ppb   | 8.5670  | 2.7  | 149.437    |
| B 249.678  | 62.2278     | ppb   | 0.8288  | 1.3  | 178.041    |
| Ba 389.178 | 2826.81     | ppb   | 2.0931  | 0.1  | 53340.0    |
| Be 313.042 | 11.3036     | ppb   | 0.0106  | 0.1  | 19843.3    |
| Ca 370.602 | 71837       | ppb   | 99.39   | 0.1  | 121984     |
| Cd 226.502 | 21.0331     | ppb   | 0.1371  | 0.7  | 1699.60    |
| Co 228.615 | 120.182     | ppb   | 0.5331  | 0.4  | 1445.89    |
| Cr 267.716 | 381.758     | ppb   | 0.6520  | 0.2  | 17830.8    |
| Cu 324.754 | 793.039     | ppb   | 3.4908  | 0.4  | 44194.8    |
| Fe 271.441 | 409680      | ppb   | 1172.31 | 0.3  | 643159     |
| K 766.491  | 11750.6     | ppb   | 8.5349  | 0.1  | 396407     |
| Mg 279.078 | 10873.1     | ppb   | 4.0058  | 0.0  | 22918.3    |
| Mn 257.610 | 18564.1     | ppb   | 20.2363 | 0.1  | 4159937    |
| Mo 202.032 | 38.3517     | ppb   | 0.4684  | 1.2  | 250.734    |
| Na 330.237 | 1065.81     | ppb   | 78.6577 | 7.4  | -123.383   |
| Ni 231.604 | 182.097     | ppb   | 2.2766  | 1.3  | 483.084    |
| Pb 220.353 | 3290.30     | ppb   | 4.7628  | 0.1  | 4931.95    |
| Sb 206.834 | 27.4298     | ppb   | 4.1461  | 15.1 | 39.7831    |
| Se 196.026 | 8.2122      | ppb   | 0.7166  | 8.7  | 9.4294     |
| Sn 189.925 | 226.322     | ppb   | 5.7385  | 2.5  | 174.236    |
| Sr 216.596 | 515.735     | ppb   | 1.3319  | 0.3  | 5781.98    |
| Ti 334.941 | 1866.91     | ppb   | 1.9653  | 0.1  | 485382     |
| Tl 190.794 | 43.0806     | ppb   | 3.9934  | 9.3  | -5.5169    |
| V 292.401  | 365.489     | ppb   | 0.7469  | 0.2  | 8896.17    |
| Zn 206.200 | 7707.88     | ppb   | 15.9911 | 0.2  | 9934.38    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90622-a-40-a (Samp)      5/30/2013, 4:12:25 PM      Rack 1, Tube 28  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 4.9604                   | 4.2982   | 4.9773   |
| Al 308.215 | 96599.9                  | 97315.8  | 96669.8  |
| As 188.980 | 369.119                  | 377.552  | 357.195  |
| B 249.678  | 99.7624u                 | 99.8201u | 99.6629u |
| Ba 389.178 | 2409.28                  | 2428.34  | 2416.24  |
| Be 313.042 | 14.0366                  | 14.1412  | 14.0465  |
| Ca 370.602 | 164091                   | 165690   | 165250   |
| Cd 226.502 | 17.9947                  | 18.2145  | 17.5478  |
| Co 228.615 | 138.214                  | 143.862  | 142.065  |
| Cr 267.716 | 546.753                  | 550.997  | 547.590  |
| Cu 324.754 | 966.686                  | 955.783  | 948.161  |
| Fe 271.441 | 841108                   | 842862   | 839287   |
| K 766.491  | 13158.2                  | 13187.9  | 13076.3  |
| Mg 279.078 | 31088.8                  | 31301.6  | 31155.9  |
| Mn 257.610 | 19383.8                  | 19509.5  | 19399.5  |
| Mo 202.032 | 59.1924                  | 58.5299  | 59.0176  |
| Na 330.237 | 1440.81u                 | 1419.52u | 1616.69u |
| Ni 231.604 | 226.234                  | 226.201  | 227.192  |
| Pb 220.353 | 3159.11                  | 3203.91  | 3195.73  |
| Sb 206.834 | 3.9905                   | 12.2988  | 4.2955   |
| Se 196.026 | 0.6437u                  | 4.0198u  | 10.0653u |
| Sn 189.925 | 191.540                  | 193.540  | 188.297  |
| Sr 216.596 | 511.199                  | 515.640  | 510.011  |
| Ti 334.941 | 1559.24                  | 1569.32  | 1560.30  |
| Tl 190.794 | 40.6430u                 | 43.5357u | 30.7387u |
| V 292.401  | 461.924                  | 465.612  | 461.754  |
| Zn 206.200 | 9625.20                  | 9732.14  | 9705.46  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 4.7453      | ppb   | 0.3873  | 8.2  | 393.231    |
| Al 308.215 | 96861.8     | ppb   | 394.688 | 0.4  | 598571     |
| As 188.980 | 367.955     | ppb   | 10.2287 | 2.8  | 173.636    |
| B 249.678  | 99.7485     | ppb   | 0.0795  | 0.1  | -129.642   |
| Ba 389.178 | 2417.95     | ppb   | 9.6468  | 0.4  | 46231.8    |
| Be 313.042 | 14.0748     | ppb   | 0.0578  | 0.4  | 24783.4    |
| Ca 370.602 | 165011      | ppb   | 826.0   | 0.5  | 283822     |
| Cd 226.502 | 17.9190     | ppb   | 0.3397  | 1.9  | 2638.09    |
| Co 228.615 | 141.380     | ppb   | 2.8855  | 2.0  | 1697.97    |
| Cr 267.716 | 548.447     | ppb   | 2.2482  | 0.4  | 25638.6    |
| Cu 324.754 | 956.877     | ppb   | 9.3107  | 1.0  | 53400.9    |
| Fe 271.441 | 841086      | ppb   | 1787.26 | 0.2  | 1320391    |
| K 766.491  | 13140.8     | ppb   | 57.8257 | 0.4  | 443275     |
| Mg 279.078 | 31182.1     | ppb   | 108.777 | 0.3  | 66208.6    |
| Mn 257.610 | 19430.9     | ppb   | 68.4857 | 0.4  | 4355429    |
| Mo 202.032 | 58.9133     | ppb   | 0.3433  | 0.6  | 369.746    |
| Na 330.237 | 1492.34     | ppb   | 108.216 | 7.3  | -247.194   |
| Ni 231.604 | 226.543     | ppb   | 0.5629  | 0.2  | 608.667    |
| Pb 220.353 | 3186.25     | ppb   | 23.8576 | 0.7  | 4805.34    |
| Sb 206.834 | 6.8616      | ppb   | 4.7112  | 68.7 | 30.4465    |
| Se 196.026 | 4.9096      | ppb   | 4.7734  | 97.2 | 2.8078     |
| Sn 189.925 | 191.126     | ppb   | 2.6458  | 1.4  | 144.903    |
| Sr 216.596 | 512.283     | ppb   | 2.9666  | 0.6  | 6126.54    |
| Ti 334.941 | 1562.96     | ppb   | 5.5388  | 0.4  | 406493     |
| Tl 190.794 | 38.3058     | ppb   | 6.7110  | 17.5 | -21.4801   |
| V 292.401  | 463.097     | ppb   | 2.1800  | 0.5  | 11261.8    |
| Zn 206.200 | 9687.60     | ppb   | 55.6624 | 0.6  | 12487.4    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

680-90622-a-41-a (Samp) 5/30/2013, 4:16:59 PM Rack 1, Tube 29

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 2.6479                   | 2.5350   | 2.5784   |
| Al 308.215 | 99409.4                  | 99908.7  | 99605.1  |
| As 188.980 | 295.185                  | 301.376  | 300.025  |
| B 249.678  | 56.9297                  | 57.1906  | 56.4996  |
| Ba 389.178 | 2852.19                  | 2869.47  | 2860.54  |
| Be 313.042 | 10.2950                  | 10.3744  | 10.3332  |
| Ca 370.602 | 57368                    | 57660    | 57476    |
| Cd 226.502 | 20.8941                  | 20.9382  | 20.3201  |
| Co 228.615 | 112.240                  | 112.319  | 113.029  |
| Cr 267.716 | 329.298                  | 331.468  | 330.897  |
| Cu 324.754 | 825.072                  | 825.758  | 832.645  |
| Fe 271.441 | 354494                   | 356034   | 355761   |
| K 766.491  | 10887.6                  | 10921.4  | 10932.0  |
| Mg 279.078 | 9764.56                  | 9832.10  | 9792.59  |
| Mn 257.610 | 16771.2                  | 16884.0  | 16793.0  |
| Mo 202.032 | 29.3927                  | 29.2417  | 30.3010  |
| Na 330.237 | 851.962u                 | 781.788u | 669.909u |
| Ni 231.604 | 177.293                  | 175.329  | 173.995  |
| Pb 220.353 | 3389.18                  | 3413.03  | 3381.65  |
| Sb 206.834 | 46.4609                  | 35.8564  | 42.9925  |
| Se 196.026 | 17.2533                  | 9.7379   | 16.1096  |
| Sn 189.925 | 269.016                  | 269.091  | 266.865  |
| Sr 216.596 | 510.613                  | 513.269  | 508.979  |
| Ti 334.941 | 1575.39                  | 1585.20  | 1580.93  |
| Tl 190.794 | 33.5219                  | 27.2471u | 33.1072  |
| V 292.401  | 324.978                  | 327.542  | 325.487  |
| Zn 206.200 | 7547.24                  | 7610.20  | 7558.47  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 2.5871      | ppb   | 0.0569  | 2.2  | 227.246    |
| Al 308.215 | 99641.0     | ppb   | 251.603 | 0.3  | 615767     |
| As 188.980 | 298.862     | ppb   | 3.2552  | 1.1  | 142.564    |
| B 249.678  | 56.8733     | ppb   | 0.3489  | 0.6  | 208.085    |
| Ba 389.178 | 2860.73     | ppb   | 8.6454  | 0.3  | 53909.9    |
| Be 313.042 | 10.3342     | ppb   | 0.0397  | 0.4  | 18118.6    |
| Ca 370.602 | 57501       | ppb   | 147.7   | 0.3  | 96345      |
| Cd 226.502 | 20.7175     | ppb   | 0.3449  | 1.7  | 1558.23    |
| Co 228.615 | 112.529     | ppb   | 0.4345  | 0.4  | 1349.56    |
| Cr 267.716 | 330.554     | ppb   | 1.1244  | 0.3  | 15443.3    |
| Cu 324.754 | 827.825     | ppb   | 4.1884  | 0.5  | 46101.9    |
| Fe 271.441 | 355430      | ppb   | 821.460 | 0.2  | 557994     |
| K 766.491  | 10913.7     | ppb   | 23.1922 | 0.2  | 368192     |
| Mg 279.078 | 9796.42     | ppb   | 33.9306 | 0.3  | 20647.9    |
| Mn 257.610 | 16816.1     | ppb   | 59.8160 | 0.4  | 3768186    |
| Mo 202.032 | 29.6451     | ppb   | 0.5730  | 1.9  | 194.316    |
| Na 330.237 | 767.886     | ppb   | 91.8195 | 12.0 | -119.734   |
| Ni 231.604 | 175.539     | ppb   | 1.6589  | 0.9  | 464.756    |
| Pb 220.353 | 3394.62     | ppb   | 16.3795 | 0.5  | 5083.16    |
| Sb 206.834 | 41.7699     | ppb   | 5.4069  | 12.9 | 52.3406    |
| Se 196.026 | 14.3669     | ppb   | 4.0494  | 28.2 | 12.5295    |
| Sn 189.925 | 268.324     | ppb   | 1.2642  | 0.5  | 209.267    |
| Sr 216.596 | 510.954     | ppb   | 2.1654  | 0.4  | 5683.78    |
| Ti 334.941 | 1580.50     | ppb   | 4.9199  | 0.3  | 410914     |
| Tl 190.794 | 31.2921     | ppb   | 3.5092  | 11.2 | -9.1837    |
| V 292.401  | 326.003     | ppb   | 1.3576  | 0.4  | 7933.02    |
| Zn 206.200 | 7571.97     | ppb   | 33.5828 | 0.4  | 9759.03    |

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680-90622-a-42-a (Samp) 5/30/2013, 4:21:34 PM Rack 1, Tube 30

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.5482                   | 0.4508   | 0.3166   |
| Al 308.215 | 125011                   | 127427   | 127554   |
| As 188.980 | 262.422                  | 258.051  | 261.555  |
| B 249.678  | 69.7097                  | 70.1823  | 70.1303  |
| Ba 389.178 | 3308.06                  | 3369.04  | 3374.45  |
| Be 313.042 | 14.4030                  | 14.6616  | 14.6577  |
| Ca 370.602 | 231103                   | 235575   | 235390   |
| Cd 226.502 | 27.6877                  | 27.8282  | 28.1679  |
| Co 228.615 | 101.385                  | 103.411  | 102.276  |
| Cr 267.716 | 534.557                  | 544.053  | 544.049  |
| Cu 324.754 | 1143.05                  | 1162.39  | 1163.12  |
| Fe 271.441 | 378431                   | 386168   | 385502   |
| K 766.491  | 12576.3                  | 12725.0  | 12759.6  |
| Mg 279.078 | 100470                   | 102436   | 102425   |
| Mn 257.610 | 15232.8                  | 15526.7  | 15566.4  |
| Mo 202.032 | 37.1344                  | 37.5811  | 36.7860  |
| Na 330.237 | 562.131u                 | 609.861u | 612.354u |
| Ni 231.604 | 180.636                  | 186.285  | 187.274  |
| Pb 220.353 | 3273.98                  | 3346.31  | 3353.84  |
| Sb 206.834 | 12.1737                  | 12.5498  | 13.5982  |
| Se 196.026 | 3.7807                   | -1.9828u | 17.4020  |
| Sn 189.925 | 108.083                  | 113.637  | 111.586  |
| Sr 216.596 | 393.041                  | 399.258  | 402.162  |
| Ti 334.941 | 1676.26                  | 1705.04  | 1705.49  |
| Tl 190.794 | 33.9200                  | 37.0687  | 20.1866u |
| V 292.401  | 552.176                  | 562.195  | 561.135  |
| Zn 206.200 | 7428.36                  | 7565.57  | 7579.59  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.4386      | ppb   | 0.1163  | 26.5  | 69.6748    |
| Al 308.215 | 126664      | ppb   | 1432.73 | 1.1   | 782691     |
| As 188.980 | 260.676     | ppb   | 2.3145  | 0.9   | 123.217    |
| B 249.678  | 70.0074     | ppb   | 0.2591  | 0.4   | 334.046    |
| Ba 389.178 | 3350.52     | ppb   | 36.8627 | 1.1   | 63294.9    |
| Be 313.042 | 14.5741     | ppb   | 0.1482  | 1.0   | 25705.8    |
| Ca 370.602 | 234023      | ppb   | 2530    | 1.1   | 442069     |
| Cd 226.502 | 27.8946     | ppb   | 0.2469  | 0.9   | 1863.54    |
| Co 228.615 | 102.357     | ppb   | 1.0154  | 1.0   | 1236.62    |
| Cr 267.716 | 540.886     | ppb   | 5.4815  | 1.0   | 25168.0    |
| Cu 324.754 | 1156.19     | ppb   | 11.3853 | 1.0   | 64277.1    |
| Fe 271.441 | 383367      | ppb   | 4287.54 | 1.1   | 601851     |
| K 766.491  | 12686.9     | ppb   | 97.3509 | 0.8   | 427974     |
| Mg 279.078 | 101777      | ppb   | 1132.06 | 1.1   | 216422     |
| Mn 257.610 | 15441.9     | ppb   | 182.231 | 1.2   | 3461159    |
| Mo 202.032 | 37.1671     | ppb   | 0.3986  | 1.1   | 243.597    |
| Na 330.237 | 594.782     | ppb   | 28.3041 | 4.8   | -135.262   |
| Ni 231.604 | 184.732     | ppb   | 3.5811  | 1.9   | 489.500    |
| Pb 220.353 | 3324.71     | ppb   | 44.0935 | 1.3   | 4980.51    |
| Sb 206.834 | 12.7739     | ppb   | 0.7382  | 5.8   | 26.1595    |
| Se 196.026 | 6.4000      | ppb   | 9.9543  | 155.5 | 8.2007     |
| Sn 189.925 | 111.102     | ppb   | 2.8084  | 2.5   | 78.1971    |
| Sr 216.596 | 398.154     | ppb   | 4.6597  | 1.2   | 4542.24    |
| Ti 334.941 | 1695.60     | ppb   | 16.7444 | 1.0   | 441224     |
| Tl 190.794 | 30.3918     | ppb   | 8.9771  | 29.5  | -10.1442   |
| V 292.401  | 558.502     | ppb   | 5.5041  | 1.0   | 13594.0    |
| Zn 206.200 | 7524.51     | ppb   | 83.5627 | 1.1   | 9697.48    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90622-a-43-a (Samp) 5/30/2013, 4:26:09 PM Rack 1, Tube 31

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.8226                   | 0.0155   | 1.3339   |
| Al 308.215 | 121024                   | 121277   | 120523   |
| As 188.980 | 239.202                  | 239.428  | 233.373  |
| B 249.678  | 68.1544                  | 70.0497  | 68.0901  |
| Ba 389.178 | 2923.21                  | 2928.29  | 2913.48  |
| Be 313.042 | 13.9515                  | 13.9702  | 13.9022  |
| Ca 370.602 | 229179                   | 228568   | 228204   |
| Cd 226.502 | 27.0922                  | 27.2067  | 27.1844  |
| Co 228.615 | 86.1890                  | 86.1801  | 86.3388  |
| Cr 267.716 | 607.981                  | 609.201  | 607.102  |
| Cu 324.754 | 1131.16                  | 1122.97  | 1126.78  |
| Fe 271.441 | 364729                   | 368390   | 366492   |
| K 766.491  | 12180.6                  | 12202.8  | 12176.3  |
| Mg 279.078 | 103412                   | 103645   | 103139   |
| Mn 257.610 | 13038.4                  | 13047.5  | 12988.1  |
| Mo 202.032 | 27.4002                  | 27.8046  | 27.9589  |
| Na 330.237 | 953.316u                 | 695.496u | 926.404u |
| Ni 231.604 | 176.566                  | 180.955  | 175.939  |
| Pb 220.353 | 3414.70                  | 3405.05  | 3386.45  |
| Sb 206.834 | 13.1543                  | 29.8304  | 19.5837  |
| Se 196.026 | 17.0378                  | 15.6375  | 6.2470   |
| Sn 189.925 | 122.596                  | 124.941  | 115.372  |
| Sr 216.596 | 381.037                  | 381.016  | 377.290  |
| Ti 334.941 | 1699.80                  | 1702.74  | 1695.36  |
| Tl 190.794 | 16.9904u                 | 19.2241u | 19.5417u |
| V 292.401  | 526.511                  | 527.736  | 524.701  |
| Zn 206.200 | 6786.28                  | 6793.90  | 6760.56  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 0.7240      | ppb   | 0.6647  | 91.8 | 80.3395    |
| Al 308.215 | 120941      | ppb   | 383.430 | 0.3  | 747340     |
| As 188.980 | 237.334     | ppb   | 3.4326  | 1.4  | 111.488    |
| B 249.678  | 68.7647     | ppb   | 1.1133  | 1.6  | 349.016    |
| Ba 389.178 | 2921.66     | ppb   | 7.5250  | 0.3  | 55259.6    |
| Be 313.042 | 13.9413     | ppb   | 0.0351  | 0.3  | 24581.5    |
| Ca 370.602 | 228650      | ppb   | 492.9   | 0.2  | 432294     |
| Cd 226.502 | 27.1611     | ppb   | 0.0607  | 0.2  | 1798.80    |
| Co 228.615 | 86.2360     | ppb   | 0.0891  | 0.1  | 1050.98    |
| Cr 267.716 | 608.095     | ppb   | 1.0540  | 0.2  | 28262.1    |
| Cu 324.754 | 1126.97     | ppb   | 4.1004  | 0.4  | 62655.0    |
| Fe 271.441 | 366537      | ppb   | 1830.82 | 0.5  | 575429     |
| K 766.491  | 12186.5     | ppb   | 14.2047 | 0.1  | 411104     |
| Mg 279.078 | 103399      | ppb   | 253.387 | 0.2  | 219912     |
| Mn 257.610 | 13024.6     | ppb   | 32.0123 | 0.2  | 2919604    |
| Mo 202.032 | 27.7212     | ppb   | 0.2885  | 1.0  | 180.397    |
| Na 330.237 | 858.405     | ppb   | 141.724 | 16.5 | -108.264   |
| Ni 231.604 | 177.820     | ppb   | 2.7331  | 1.5  | 471.036    |
| Pb 220.353 | 3402.07     | ppb   | 14.3572 | 0.4  | 5093.79    |
| Sb 206.834 | 20.8561     | ppb   | 8.4106  | 40.3 | 34.4312    |
| Se 196.026 | 12.9741     | ppb   | 5.8677  | 45.2 | 10.8792    |
| Sn 189.925 | 120.970     | ppb   | 4.9871  | 4.1  | 86.4260    |
| Sr 216.596 | 379.781     | ppb   | 2.1574  | 0.6  | 4334.64    |
| Ti 334.941 | 1699.30     | ppb   | 3.7165  | 0.2  | 442191     |
| Tl 190.794 | 18.5854     | ppb   | 1.3904  | 7.5  | -14.8480   |
| V 292.401  | 526.316     | ppb   | 1.5268  | 0.3  | 12807.5    |
| Zn 206.200 | 6780.25     | ppb   | 17.4702 | 0.3  | 8738.59    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-2-a (Samp) 5/30/2013, 4:30:44 PM Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.4034u                 | -1.8351u | -1.5959u |
| Al 308.215 | 153606                   | 154160   | 154457   |
| As 188.980 | 4.4348                   | 4.3711   | 5.0721   |
| B 249.678  | 7.9089u                  | 7.6084u  | 7.4330u  |
| Ba 389.178 | 904.250                  | 906.832  | 907.400  |
| Be 313.042 | 17.0025                  | 17.0153  | 17.0073  |
| Ca 370.602 | 1813u                    | 1685u    | 1701u    |
| Cd 226.502 | -1.8093                  | -2.1408  | -2.1918  |
| Co 228.615 | 197.962                  | 200.723  | 200.481  |
| Cr 267.716 | 278.428                  | 279.622  | 279.679  |
| Cu 324.754 | 347.930                  | 351.059  | 351.638  |
| Fe 271.441 | 261143                   | 262300   | 262144   |
| K 766.491  | 41095.4x                 | 41345.4x | 41406.2x |
| Mg 279.078 | 55629.9                  | 55704.5  | 55764.4  |
| Mn 257.610 | 8414.58                  | 8478.59  | 8429.87  |
| Mo 202.032 | 3.8314                   | 4.2362   | 4.5757   |
| Na 330.237 | 695.198u                 | 848.928u | 975.762u |
| Ni 231.604 | 116.567                  | 116.498  | 117.828  |
| Pb 220.353 | 72.2782                  | 72.4258  | 68.0741  |
| Sb 206.834 | 2.4144                   | -5.8564  | 1.3837   |
| Se 196.026 | -1.1875u                 | -0.6076u | 2.2593u  |
| Sn 189.925 | 23.4385                  | 21.5233  | 18.9178  |
| Sr 216.596 | 13.2980                  | 12.2474  | 13.0210  |
| Ti 334.941 | 10055.7                  | 10127.2  | 10113.2  |
| Tl 190.794 | 27.8982                  | 23.3504  | 20.8085  |
| V 292.401  | 877.026                  | 881.216  | 882.535  |
| Zn 206.200 | 321.706                  | 324.488  | 319.763  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.9448b    | ppb   | 0.4147  | 21.3   | -113.858   |
| Al 308.215 | 154074b     | ppb   | 432.331 | 0.3    | 951988     |
| As 188.980 | 4.6260b     | ppb   | 0.3876  | 8.4    | -5.2457    |
| B 249.678  | 7.6501b     | ppb   | 0.2407  | 3.1    | -284.919   |
| Ba 389.178 | 906.161b    | ppb   | 1.6789  | 0.2    | 17350.5    |
| Be 313.042 | 17.0084b    | ppb   | 0.0065  | 0.0    | 29959.7    |
| Ca 370.602 | 1733b       | ppb   | 69.27   | 4.0    | -5993      |
| Cd 226.502 | -2.0473b    | ppb   | 0.2077  | 10.1   | 581.434    |
| Co 228.615 | 199.722b    | ppb   | 1.5294  | 0.8    | 2541.78    |
| Cr 267.716 | 279.243b    | ppb   | 0.7060  | 0.3    | 13025.9    |
| Cu 324.754 | 350.209b    | ppb   | 1.9947  | 0.6    | 19637.7    |
| Fe 271.441 | 261862b     | ppb   | 628.121 | 0.2    | 411126     |
| K 766.491  | 41282.3xb   | ppb   | 164.708 | 0.4    | 1392017    |
| Mg 279.078 | 55699.6b    | ppb   | 67.3869 | 0.1    | 118442     |
| Mn 257.610 | 8441.01b    | ppb   | 33.4290 | 0.4    | 1892121    |
| Mo 202.032 | 4.2145b     | ppb   | 0.3726  | 8.8    | 25.2901    |
| Na 330.237 | 839.963b    | ppb   | 140.497 | 16.7   | -21.1622   |
| Ni 231.604 | 116.964b    | ppb   | 0.7490  | 0.6    | 308.839    |
| Pb 220.353 | 70.9260b    | ppb   | 2.4709  | 3.5    | 142.968    |
| Sb 206.834 | -0.6861b    | ppb   | 4.5072  | 656.9  | 8.3182     |
| Se 196.026 | 0.1547b     | ppb   | 1.8455  | 1192.6 | 5.2049     |
| Sn 189.925 | 21.2932b    | ppb   | 2.2691  | 10.7   | 3.1892     |
| Sr 216.596 | 12.8555b    | ppb   | 0.5445  | 4.2    | 374.230    |
| Ti 334.941 | 10098.7b    | ppb   | 37.9231 | 0.4    | 2625600    |
| Tl 190.794 | 24.0191b    | ppb   | 3.5919  | 15.0   | -7.6096    |
| V 292.401  | 880.259b    | ppb   | 2.8767  | 0.3    | 21574.3    |
| Zn 206.200 | 321.986b    | ppb   | 2.3751  | 0.7    | 421.095    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-2-a (Samp) 5/30/2013, 4:35:19 PM Rack 1, Tube 33

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -0.4790u                 | -0.6425u  | -0.3494u |
| Al 308.215 | 20691.0                  | 20218.8   | 19580.6  |
| As 188.980 | -2.4648u                 | -0.8083u  | 4.1293   |
| B 249.678  | 1.9696u                  | 2.5312u   | 1.6166u  |
| Ba 389.178 | 124.088                  | 121.412   | 117.505  |
| Be 313.042 | 2.3220                   | 2.2746    | 2.1958   |
| Ca 370.602 | 270.1u                   | 292.5u    | 302.0u   |
| Cd 226.502 | -0.5947                  | -0.2718   | -0.3454  |
| Co 228.615 | 27.4790                  | 27.3598   | 25.4729  |
| Cr 267.716 | 38.2824                  | 37.3798   | 36.3313  |
| Cu 324.754 | 46.6556                  | 45.7589   | 44.2434  |
| Fe 271.441 | 36256.4                  | 35467.1   | 34336.3  |
| K 766.491  | 5051.03                  | 4948.78   | 4825.80  |
| Mg 279.078 | 7714.08                  | 7530.61   | 7300.40  |
| Mn 257.610 | 1200.51                  | 1173.87   | 1136.97  |
| Mo 202.032 | 0.6129                   | -0.4489u  | 0.7941   |
| Na 330.237 | -35.6690u                | -97.4346u | 89.8134u |
| Ni 231.604 | 17.0386                  | 16.4917   | 15.7295  |
| Pb 220.353 | 7.7499                   | 7.2501    | 6.8910   |
| Sb 206.834 | -5.8542u                 | -8.0208u  | -4.3785u |
| Se 196.026 | -1.5651u                 | 4.1815    | -0.4607u |
| Sn 189.925 | 6.3017                   | 5.5700    | 2.5383   |
| Sr 216.596 | 1.8362                   | 2.0645    | 1.5118   |
| Ti 334.941 | 1422.67                  | 1392.03   | 1350.21  |
| Tl 190.794 | -1.8516u                 | -2.2971u  | 3.2137   |
| V 292.401  | 120.606                  | 118.431   | 114.718  |
| Zn 206.200 | 45.7303                  | 43.3943   | 43.6791  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.4903     | ppb   | 0.1469  | 30.0   | -43.3127   |
| Al 308.215 | 20163.5     | ppb   | 557.276 | 2.8    | 124743     |
| As 188.980 | 0.2854      | ppb   | 3.4304  | 1202.1 | -6.6971    |
| B 249.678  | 2.0391      | ppb   | 0.4612  | 22.6   | 68.6576    |
| Ba 389.178 | 121.002     | ppb   | 3.3105  | 2.7    | 2306.18    |
| Be 313.042 | 2.2641      | ppb   | 0.0637  | 2.8    | 3767.32    |
| Ca 370.602 | 288.2       | ppb   | 16.35   | 5.7    | -696.3     |
| Cd 226.502 | -0.4039     | ppb   | 0.1692  | 41.9   | 88.3984    |
| Co 228.615 | 26.7706     | ppb   | 1.1254  | 4.2    | 346.970    |
| Cr 267.716 | 37.3312     | ppb   | 0.9764  | 2.6    | 1747.86    |
| Cu 324.754 | 45.5526     | ppb   | 1.2193  | 2.7    | 2715.22    |
| Fe 271.441 | 35353.3     | ppb   | 965.111 | 2.7    | 55519.5    |
| K 766.491  | 4941.87     | ppb   | 112.775 | 2.3    | 166862     |
| Mg 279.078 | 7515.03     | ppb   | 207.278 | 2.8    | 16010.6    |
| Mn 257.610 | 1170.45     | ppb   | 31.9076 | 2.7    | 262388     |
| Mo 202.032 | 0.3193      | ppb   | 0.6715  | 210.3  | 10.8591    |
| Na 330.237 | -14.4301    | ppb   | 95.4137 | 661.2  | 33.3916    |
| Ni 231.604 | 16.4199     | ppb   | 0.6575  | 4.0    | 40.5371    |
| Pb 220.353 | 7.2970      | ppb   | 0.4314  | 5.9    | 39.3554    |
| Sb 206.834 | -6.0845     | ppb   | 1.8320  | 30.1   | -4.2652    |
| Se 196.026 | 0.7186      | ppb   | 3.0494  | 424.4  | 6.5745     |
| Sn 189.925 | 4.8033      | ppb   | 1.9954  | 41.5   | -10.5587   |
| Sr 216.596 | 1.8042      | ppb   | 0.2777  | 15.4   | 64.2791    |
| Ti 334.941 | 1388.31     | ppb   | 36.3738 | 2.6    | 360900     |
| Tl 190.794 | -0.3117     | ppb   | 3.0612  | 982.1  | -11.1807   |
| V 292.401  | 117.918     | ppb   | 2.9770  | 2.5    | 2874.65    |
| Zn 206.200 | 44.2679     | ppb   | 1.2744  | 2.8    | 621766     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-3-a (Samp) 5/30/2013, 4:39:55 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -1.5037u                 | -2.9194u  | -1.7469u |
| Al 308.215 | 222976                   | 219792    | 222048   |
| As 188.980 | 11.0324                  | 5.5006    | 7.5725   |
| B 249.678  | 8.4054u                  | 7.3152u   | 7.6259u  |
| Ba 389.178 | 762.632                  | 750.633   | 759.600  |
| Be 313.042 | 20.2055                  | 19.9017   | 20.0697  |
| Ca 370.602 | 1844u                    | 1791u     | 1763u    |
| Cd 226.502 | -1.7503                  | -2.4568   | -2.3605  |
| Co 228.615 | 106.649                  | 104.367   | 106.441  |
| Cr 267.716 | 372.055                  | 366.453   | 369.621  |
| Cu 324.754 | 201.698                  | 199.250   | 201.688  |
| Fe 271.441 | 285818                   | 281665    | 284486   |
| K 766.491  | 21211.4                  | 20992.0   | 21129.7  |
| Mg 279.078 | 32895.7                  | 32408.2   | 32730.5  |
| Mn 257.610 | 3595.12                  | 3548.68   | 3581.38  |
| Mo 202.032 | 4.4587                   | 4.1711    | 4.3059   |
| Na 330.237 | 873.031u                 | 895.813u  | 588.026u |
| Ni 231.604 | 116.738                  | 113.669   | 114.122  |
| Pb 220.353 | 88.4280                  | 86.6648   | 83.2860  |
| Sb 206.834 | 0.6136                   | 3.8256    | 0.1561   |
| Se 196.026 | -4.2250u                 | -11.8343u | 5.7320u  |
| Sn 189.925 | 44.7110                  | 46.4634   | 51.2897  |
| Sr 216.596 | 19.9249                  | 18.7937   | 19.0253  |
| Ti 334.941 | 9900.89                  | 9741.05   | 9835.08  |
| Tl 190.794 | 10.2423u                 | 3.5086u   | 7.6248u  |
| V 292.401  | 964.966                  | 949.869   | 960.808  |
| Zn 206.200 | 257.041                  | 250.204   | 251.239  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.0567     | ppb   | 0.7569  | 36.8  | -142.763   |
| Al 308.215 | 221605      | ppb   | 1637.83 | 0.7   | 1369226    |
| As 188.980 | 8.0352      | ppb   | 2.7948  | 34.8  | -3.1587    |
| B 249.678  | 7.7822      | ppb   | 0.5616  | 7.2   | -325.167   |
| Ba 389.178 | 757.622     | ppb   | 6.2393  | 0.8   | 14550.0    |
| Be 313.042 | 20.0590     | ppb   | 0.1522  | 0.8   | 35390.0    |
| Ca 370.602 | 1800        | ppb   | 41.45   | 2.3   | -7130      |
| Cd 226.502 | -2.1892     | ppb   | 0.3831  | 17.5  | 629.881    |
| Co 228.615 | 105.819     | ppb   | 1.2617  | 1.2   | 1455.54    |
| Cr 267.716 | 369.376     | ppb   | 2.8090  | 0.8   | 17177.9    |
| Cu 324.754 | 200.879     | ppb   | 1.4104  | 0.7   | 11381.7    |
| Fe 271.441 | 283990      | ppb   | 2120.53 | 0.7   | 445851     |
| K 766.491  | 21111.0     | ppb   | 110.853 | 0.5   | 711977     |
| Mg 279.078 | 32678.2     | ppb   | 247.917 | 0.8   | 69510.0    |
| Mn 257.610 | 3575.06     | ppb   | 23.8566 | 0.7   | 801927     |
| Mo 202.032 | 4.3119      | ppb   | 0.1439  | 3.3   | 24.7756    |
| Na 330.237 | 785.624     | ppb   | 171.503 | 21.8  | -27.9157   |
| Ni 231.604 | 114.843     | ppb   | 1.6570  | 1.4   | 303.952    |
| Pb 220.353 | 86.1263     | ppb   | 2.6129  | 3.0   | 165.037    |
| Sb 206.834 | 1.5318      | ppb   | 1.9996  | 130.5 | 11.8031    |
| Se 196.026 | -3.4424     | ppb   | 8.8093  | 255.9 | 2.1554     |
| Sn 189.925 | 47.4880     | ppb   | 3.4069  | 7.2   | 25.0385    |
| Sr 216.596 | 19.2480     | ppb   | 0.5976  | 3.1   | 460.431    |
| Ti 334.941 | 9825.67     | ppb   | 80.3386 | 0.8   | 2554535    |
| Tl 190.794 | 7.1252      | ppb   | 3.3945  | 47.6  | -15.5395   |
| V 292.401  | 958.547     | ppb   | 7.7981  | 0.8   | 23474.7    |
| Zn 206.200 | 252.828     | ppb   | 3.6847  | 1.5   | 331.939    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-4-a (Samp) 5/30/2013, 4:44:31 PM Rack 1, Tube 35

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.1494u                 | -2.3022u | -2.4338u |
| Al 308.215 | 229604                   | 233702   | 234817   |
| As 188.980 | 12.2525                  | 23.9199  | 12.9173  |
| B 249.678  | 9.7760u                  | 8.4034u  | 8.6505u  |
| Ba 389.178 | 854.866                  | 869.326  | 875.455  |
| Be 313.042 | 21.8443                  | 22.2742  | 22.4017  |
| Ca 370.602 | 2839u                    | 2719u    | 2729u    |
| Cd 226.502 | -3.2805                  | -2.9300  | -2.8283  |
| Co 228.615 | 133.252                  | 133.197  | 136.692  |
| Cr 267.716 | 625.436                  | 637.143  | 640.704  |
| Cu 324.754 | 290.868                  | 301.458  | 305.586  |
| Fe 271.441 | 350795                   | 355699   | 359525   |
| K 766.491  | 30208.7                  | 30795.3  | 30888.1  |
| Mg 279.078 | 38066.2                  | 38675.5  | 38967.4  |
| Mn 257.610 | 2974.57                  | 3029.51  | 3050.21  |
| Mo 202.032 | 3.8298                   | 4.2864   | 3.9832   |
| Na 330.237 | 1163.98u                 | 977.817u | 891.875u |
| Ni 231.604 | 108.368                  | 108.965  | 110.723  |
| Pb 220.353 | 145.272                  | 145.610  | 148.856  |
| Sb 206.834 | -0.6212                  | -1.4607  | 1.3586   |
| Se 196.026 | 10.5872                  | 6.3765u  | -0.5457u |
| Sn 189.925 | 27.7357                  | 29.6195  | 27.2282  |
| Sr 216.596 | 35.8735                  | 35.7052  | 37.1073  |
| Ti 334.941 | 14143.7                  | 14405.4  | 14543.4  |
| Tl 190.794 | 17.0313u                 | 10.1234u | 2.3156u  |
| V 292.401  | 1110.07                  | 1132.02  | 1137.83  |
| Zn 206.200 | 335.927                  | 334.344  | 339.532  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.2952     | ppb   | 0.1424  | 6.2   | -162.683   |
| Al 308.215 | 232708      | ppb   | 2744.91 | 1.2   | 1437793    |
| As 188.980 | 16.3632     | ppb   | 6.5527  | 40.0  | 0.5754     |
| B 249.678  | 8.9433      | ppb   | 0.7317  | 8.2   | -444.854   |
| Ba 389.178 | 866.549     | ppb   | 10.5713 | 1.2   | 16681.4    |
| Be 313.042 | 22.1734     | ppb   | 0.2920  | 1.3   | 39143.2    |
| Ca 370.602 | 2762        | ppb   | 66.87   | 2.4   | -7254      |
| Cd 226.502 | -3.0129     | ppb   | 0.2372  | 7.9   | 775.041    |
| Co 228.615 | 134.380     | ppb   | 2.0018  | 1.5   | 1889.32    |
| Cr 267.716 | 634.428     | ppb   | 7.9879  | 1.3   | 29454.7    |
| Cu 324.754 | 299.304     | ppb   | 7.5919  | 2.5   | 16849.0    |
| Fe 271.441 | 355340      | ppb   | 4376.08 | 1.2   | 557864     |
| K 766.491  | 30630.7     | ppb   | 368.385 | 1.2   | 1032917    |
| Mg 279.078 | 38569.7     | ppb   | 459.853 | 1.2   | 82067.3    |
| Mn 257.610 | 3018.10     | ppb   | 39.0905 | 1.3   | 677392     |
| Mo 202.032 | 4.0331      | ppb   | 0.2324  | 5.8   | 19.2369    |
| Na 330.237 | 1011.22     | ppb   | 139.092 | 13.8  | -53.0384   |
| Ni 231.604 | 109.352     | ppb   | 1.2239  | 1.1   | 290.943    |
| Pb 220.353 | 146.579     | ppb   | 1.9788  | 1.3   | 256.686    |
| Sb 206.834 | -0.2411     | ppb   | 1.4476  | 600.3 | 13.9777    |
| Se 196.026 | 5.4727      | ppb   | 5.6212  | 102.7 | 5.2573     |
| Sn 189.925 | 28.1945     | ppb   | 1.2599  | 4.5   | 8.9430     |
| Sr 216.596 | 36.2287     | ppb   | 0.7655  | 2.1   | 700.376    |
| Ti 334.941 | 14364.2     | ppb   | 202.989 | 1.4   | 3734457    |
| Tl 190.794 | 9.8234      | ppb   | 7.3624  | 74.9  | -16.2367   |
| V 292.401  | 1126.64     | ppb   | 14.6416 | 1.3   | 27624.7    |
| Zn 206.200 | 336.601     | ppb   | 2.6591  | 0.8   | 439.625    |



E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-5-a (Samp) 5/30/2013, 4:49:07 PM Rack 1, Tube 36

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -3.0230u                 | -2.9614u | -2.6951u |
| Al 308.215 | 236840                   | 232901   | 234326   |
| As 188.980 | 27.5802                  | 19.2603  | 14.6715  |
| B 249.678  | 11.4399u                 | 11.5302u | 11.5083u |
| Ba 389.178 | 903.956                  | 886.595  | 894.380  |
| Be 313.042 | 11.5224                  | 11.2912  | 11.3905  |
| Ca 370.602 | 3429u                    | 3407u    | 3413u    |
| Cd 226.502 | -1.1920                  | -1.6470  | -1.4268  |
| Co 228.615 | 146.397                  | 144.102  | 146.154  |
| Cr 267.716 | 306.503                  | 300.477  | 302.690  |
| Cu 324.754 | 187.098                  | 185.010  | 187.825  |
| Fe 271.441 | 215819                   | 211659   | 213231   |
| K 766.491  | 9762.83                  | 9660.46  | 9699.36  |
| Mg 279.078 | 25833.2                  | 25354.0  | 25533.1  |
| Mn 257.610 | 6005.10                  | 5910.93  | 5942.10  |
| Mo 202.032 | 5.1940                   | 5.1835   | 4.9314   |
| Na 330.237 | 418.438u                 | 578.957u | 399.634u |
| Ni 231.604 | 116.204                  | 114.296  | 114.622  |
| Pb 220.353 | 144.172                  | 135.035  | 133.970  |
| Sb 206.834 | -4.5785                  | 0.9831   | -4.1437  |
| Se 196.026 | -1.3207u                 | 4.6743   | 6.2430   |
| Sn 189.925 | 23.5598                  | 18.6733  | 21.4511  |
| Sr 216.596 | 44.7277                  | 44.2650  | 43.4077  |
| Ti 334.941 | 7047.24                  | 6922.95  | 6987.35  |
| Tl 190.794 | 15.5269u                 | 15.1476u | 24.3781  |
| V 292.401  | 549.523                  | 539.456  | 543.377  |
| Zn 206.200 | 476.325                  | 465.818  | 465.428  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.8932     | ppb   | 0.1743  | 6.0   | -195.975   |
| Al 308.215 | 234689      | ppb   | 1994.83 | 0.8   | 1450134    |
| As 188.980 | 20.5040     | ppb   | 6.5436  | 31.9  | 3.8230     |
| B 249.678  | 11.4928     | ppb   | 0.0471  | 0.4   | -140.894   |
| Ba 389.178 | 894.977     | ppb   | 8.6959  | 1.0   | 17022.0    |
| Be 313.042 | 11.4014     | ppb   | 0.1160  | 1.0   | 20013.1    |
| Ca 370.602 | 3416        | ppb   | 11.52   | 0.3   | -1384      |
| Cd 226.502 | -1.4219     | ppb   | 0.2276  | 16.0  | 485.137    |
| Co 228.615 | 145.551     | ppb   | 1.2608  | 0.9   | 1846.70    |
| Cr 267.716 | 303.223     | ppb   | 3.0485  | 1.0   | 14111.5    |
| Cu 324.754 | 186.644     | ppb   | 1.4609  | 0.8   | 10575.6    |
| Fe 271.441 | 213570      | ppb   | 2100.56 | 1.0   | 335306     |
| K 766.491  | 9707.55     | ppb   | 51.6767 | 0.5   | 327529     |
| Mg 279.078 | 25573.4     | ppb   | 242.158 | 0.9   | 54334.4    |
| Mn 257.610 | 5952.71     | ppb   | 47.9746 | 0.8   | 1334326    |
| Mo 202.032 | 5.1030      | ppb   | 0.1486  | 2.9   | 34.1775    |
| Na 330.237 | 465.676     | ppb   | 98.5533 | 21.2  | -17.1542   |
| Ni 231.604 | 115.041     | ppb   | 1.0202  | 0.9   | 302.943    |
| Pb 220.353 | 137.726     | ppb   | 5.6080  | 4.1   | 238.704    |
| Sb 206.834 | -2.5797     | ppb   | 3.0931  | 119.9 | 5.5184     |
| Se 196.026 | 3.1988      | ppb   | 3.9919  | 124.8 | 6.6279     |
| Sn 189.925 | 21.2281     | ppb   | 2.4509  | 11.5  | 3.1372     |
| Sr 216.596 | 44.1335     | ppb   | 0.6698  | 1.5   | 660.780    |
| Ti 334.941 | 6985.85     | ppb   | 62.1623 | 0.9   | 1816218    |
| Tl 190.794 | 18.3508     | ppb   | 5.2232  | 28.5  | -8.4627    |
| V 292.401  | 544.119     | ppb   | 5.0740  | 0.9   | 13331.7    |
| Zn 206.200 | 469.191     | ppb   | 6.1820  | 1.3   | 619.175    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-6-a (Samp) 5/30/2013, 5:02:50 PM Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.8376u                 | -2.2198u | -1.6771u |
| Al 308.215 | 271855                   | 271533   | 270642   |
| As 188.980 | 26.2768                  | 32.5343  | 28.1833  |
| B 249.678  | 22.3139u                 | 21.7731u | 21.2511u |
| Ba 389.178 | 451.848                  | 449.998  | 450.001  |
| Be 313.042 | 7.8107                   | 7.8007   | 7.7840   |
| Ca 370.602 | 4904u                    | 4879u    | 4876u    |
| Cd 226.502 | -2.1014                  | -2.1260  | -1.5239  |
| Co 228.615 | 57.8505                  | 57.0903  | 57.5595  |
| Cr 267.716 | 446.742                  | 445.744  | 445.091  |
| Cu 324.754 | 217.579                  | 218.814  | 215.622  |
| Fe 271.441 | 292802                   | 292937   | 292361   |
| K 766.491  | 9304.32                  | 9319.56  | 9290.53  |
| Mg 279.078 | 15363.3                  | 15326.4  | 15290.4  |
| Mn 257.610 | 1369.29                  | 1367.85  | 1366.11  |
| Mo 202.032 | 6.6006                   | 7.8711   | 6.3479   |
| Na 330.237 | 472.219u                 | 779.803u | 568.802u |
| Ni 231.604 | 100.273                  | 101.693  | 99.3106  |
| Pb 220.353 | 127.041                  | 129.121  | 126.734  |
| Sb 206.834 | -6.1434                  | 1.0249   | -2.4389  |
| Se 196.026 | 6.8425u                  | -3.8693u | 1.6666u  |
| Sn 189.925 | 23.8334                  | 23.7720  | 24.4120  |
| Sr 216.596 | 63.8142                  | 63.9442  | 63.9416  |
| Ti 334.941 | 6383.56                  | 6403.22  | 6384.28  |
| Tl 190.794 | -5.7517u                 | 12.2795u | -6.1276u |
| V 292.401  | 722.410                  | 723.111  | 720.535  |
| Zn 206.200 | 332.875                  | 338.804  | 333.785  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.9115     | ppb   | 0.2788  | 14.6   | -144.870   |
| Al 308.215 | 271343      | ppb   | 628.485 | 0.2    | 1676581    |
| As 188.980 | 28.9981     | ppb   | 3.2074  | 11.1   | 7.7825     |
| B 249.678  | 21.7794     | ppb   | 0.5314  | 2.4    | -150.990   |
| Ba 389.178 | 450.615     | ppb   | 1.0672  | 0.2    | 8782.16    |
| Be 313.042 | 7.7985      | ppb   | 0.0135  | 0.2    | 13604.2    |
| Ca 370.602 | 4886        | ppb   | 15.43   | 0.3    | -2676      |
| Cd 226.502 | -1.9171     | ppb   | 0.3407  | 17.8   | 659.698    |
| Co 228.615 | 57.5001     | ppb   | 0.3835  | 0.7    | 822.769    |
| Cr 267.716 | 445.859     | ppb   | 0.8316  | 0.2    | 20703.6    |
| Cu 324.754 | 217.338     | ppb   | 1.6092  | 0.7    | 12298.0    |
| Fe 271.441 | 292700      | ppb   | 301.576 | 0.1    | 459517     |
| K 766.491  | 9304.80     | ppb   | 14.5217 | 0.2    | 313951     |
| Mg 279.078 | 15326.7     | ppb   | 36.4808 | 0.2    | 32604.8    |
| Mn 257.610 | 1367.75     | ppb   | 1.5916  | 0.1    | 307332     |
| Mo 202.032 | 6.9399      | ppb   | 0.8163  | 11.8   | 42.6069    |
| Na 330.237 | 606.941     | ppb   | 157.299 | 25.9   | -28.4020   |
| Ni 231.604 | 100.426     | ppb   | 1.1983  | 1.2    | 266.417    |
| Pb 220.353 | 127.632     | ppb   | 1.2985  | 1.0    | 227.565    |
| Sb 206.834 | -2.5191     | ppb   | 3.5848  | 142.3  | 8.5405     |
| Se 196.026 | 1.5466      | ppb   | 5.3569  | 346.4  | 3.8387     |
| Sn 189.925 | 24.0058     | ppb   | 0.3532  | 1.5    | 5.4524     |
| Sr 216.596 | 63.9000     | ppb   | 0.0743  | 0.1    | 936.848    |
| Ti 334.941 | 6390.35     | ppb   | 11.1506 | 0.2    | 1661373    |
| Tl 190.794 | 0.1334      | ppb   | 10.5205 | 7886.9 | -18.8531   |
| V 292.401  | 722.018     | ppb   | 1.3320  | 0.2    | 17654.3    |
| Zn 206.200 | 335.154     | ppb   | 3.1929  | 0.9    | 437.803    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-7-a (Samp) 5/30/2013, 5:07:24 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.2580u                 | -0.8798u | -1.4103u |
| Al 308.215 | 374275                   | 375371   | 375927   |
| As 188.980 | 28.1786                  | 33.5209  | 15.7832  |
| B 249.678  | 15.4151u                 | 15.4878u | 15.6491u |
| Ba 389.178 | 506.238                  | 508.128  | 507.608  |
| Be 313.042 | 6.4586                   | 6.4902   | 6.4862   |
| Ca 370.602 | 2619u                    | 2592u    | 2563u    |
| Cd 226.502 | -1.8957                  | -1.8083  | -1.9140  |
| Co 228.615 | 33.9365                  | 33.5940  | 34.7012  |
| Cr 267.716 | 339.323                  | 341.041  | 341.141  |
| Cu 324.754 | 309.964                  | 310.405  | 310.550  |
| Fe 271.441 | 332842                   | 334547   | 335072   |
| K 766.491  | 10810.3                  | 10851.5  | 10890.2  |
| Mg 279.078 | 10616.9                  | 10665.1  | 10667.3  |
| Mn 257.610 | 1323.17                  | 1328.66  | 1331.06  |
| Mo 202.032 | 8.1495                   | 7.6934   | 9.5327   |
| Na 330.237 | 914.690u                 | 759.743u | 603.039u |
| Ni 231.604 | 107.951                  | 111.066  | 111.938  |
| Pb 220.353 | 136.586                  | 135.626  | 132.617  |
| Sb 206.834 | -4.2418                  | -8.8233  | -7.8415  |
| Se 196.026 | 2.1880u                  | 9.3564   | 7.8092u  |
| Sn 189.925 | 21.8204                  | 22.4011  | 22.9628  |
| Sr 216.596 | 36.7899                  | 37.4762  | 37.8875  |
| Ti 334.941 | 7022.99                  | 7057.50  | 7063.93  |
| Tl 190.794 | 7.8651u                  | 9.7770u  | -0.8274u |
| V 292.401  | 886.828                  | 892.041  | 893.674  |
| Zn 206.200 | 344.038                  | 344.498  | 344.281  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.1827     | ppb   | 0.2732  | 23.1  | -89.6538   |
| Al 308.215 | 375191      | ppb   | 840.598 | 0.2   | 2318190    |
| As 188.980 | 25.8276     | ppb   | 9.0995  | 35.2  | 6.6720     |
| B 249.678  | 15.5173     | ppb   | 0.1197  | 0.8   | -315.034   |
| Ba 389.178 | 507.325     | ppb   | 0.9764  | 0.2   | 9880.54    |
| Be 313.042 | 6.4783      | ppb   | 0.0172  | 0.3   | 11258.5    |
| Ca 370.602 | 2592        | ppb   | 28.12   | 1.1   | -9013      |
| Cd 226.502 | -1.8727     | ppb   | 0.0565  | 3.0   | 761.162    |
| Co 228.615 | 34.0772     | ppb   | 0.5668  | 1.7   | 568.909    |
| Cr 267.716 | 340.502     | ppb   | 1.0218  | 0.3   | 15841.7    |
| Cu 324.754 | 310.306     | ppb   | 0.3049  | 0.1   | 17453.6    |
| Fe 271.441 | 334154      | ppb   | 1165.48 | 0.3   | 524590     |
| K 766.491  | 10850.7     | ppb   | 39.9378 | 0.4   | 366068     |
| Mg 279.078 | 10649.7     | ppb   | 28.4716 | 0.3   | 22628.6    |
| Mn 257.610 | 1327.63     | ppb   | 4.0461  | 0.3   | 298417     |
| Mo 202.032 | 8.4585      | ppb   | 0.9578  | 11.3  | 50.6605    |
| Na 330.237 | 759.158     | ppb   | 155.827 | 20.5  | -34.9186   |
| Ni 231.604 | 110.318     | ppb   | 2.0959  | 1.9   | 293.332    |
| Pb 220.353 | 134.943     | ppb   | 2.0710  | 1.5   | 239.032    |
| Sb 206.834 | -6.9689     | ppb   | 2.4122  | 34.6  | 4.1514     |
| Se 196.026 | 6.4512      | ppb   | 3.7722  | 58.5  | 5.5795     |
| Sn 189.925 | 22.3947     | ppb   | 0.5712  | 2.6   | 4.1062     |
| Sr 216.596 | 37.3845     | ppb   | 0.5545  | 1.5   | 694.094    |
| Ti 334.941 | 7048.14     | ppb   | 22.0185 | 0.3   | 1832369    |
| Tl 190.794 | 5.6049      | ppb   | 5.6520  | 100.8 | -17.4666   |
| V 292.401  | 890.848     | ppb   | 3.5753  | 0.4   | 21784.5    |
| Zn 206.200 | 344.272     | ppb   | 0.2302  | 0.1   | 459.249    |

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680-90599-a-8-a (Samp) 5/30/2013, 5:11:59 PM Rack 1, Tube 41

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.7781u                 | -1.0061u | -1.1463u |
| Al 308.215 | 101262                   | 101162   | 101564   |
| As 188.980 | 75.4547                  | 74.8196  | 79.4625  |
| B 249.678  | 9.9266u                  | 9.5526u  | 9.7801u  |
| Ba 389.178 | 370.213                  | 370.699  | 370.790  |
| Be 313.042 | 6.1969                   | 6.1703   | 6.2239   |
| Ca 370.602 | 1282u                    | 1284u    | 1287u    |
| Cd 226.502 | -0.8522                  | -0.9637  | -0.8653  |
| Co 228.615 | 176.001                  | 176.111  | 176.688  |
| Cr 267.716 | 727.660                  | 727.442  | 730.583  |
| Cu 324.754 | 171.651                  | 173.846  | 173.596  |
| Fe 271.441 | 166674                   | 166529   | 167151   |
| K 766.491  | 1907.04                  | 1909.93  | 1914.12  |
| Mg 279.078 | 10399.8                  | 10391.3  | 10426.4  |
| Mn 257.610 | 4137.92                  | 4137.99  | 4150.61  |
| Mo 202.032 | 4.8413                   | 4.5863   | 4.5621   |
| Na 330.237 | 107.522u                 | 293.986u | 362.445u |
| Ni 231.604 | 233.517                  | 237.130  | 235.968  |
| Pb 220.353 | 187.664                  | 189.173  | 191.714  |
| Sb 206.834 | 5.2591                   | 4.2484   | 1.4566   |
| Se 196.026 | -1.5822u                 | -5.3899u | 9.2318   |
| Sn 189.925 | 19.2645                  | 17.0330  | 20.3125  |
| Sr 216.596 | 17.5846                  | 16.9166  | 17.1876  |
| Ti 334.941 | 2133.33                  | 2135.32  | 2134.53  |
| Tl 190.794 | 10.3570u                 | 10.0553u | 7.6373u  |
| V 292.401  | 243.026                  | 242.293  | 243.527  |
| Zn 206.200 | 188.498                  | 188.033  | 190.040  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.9768     | ppb   | 0.1858  | 19.0   | -65.6862   |
| Al 308.215 | 101329      | ppb   | 209.049 | 0.2    | 626207     |
| As 188.980 | 76.5789     | ppb   | 2.5174  | 3.3    | 31.5310    |
| B 249.678  | 9.7531      | ppb   | 0.1884  | 1.9    | -75.8074   |
| Ba 389.178 | 370.567     | ppb   | 0.3106  | 0.1    | 7129.80    |
| Be 313.042 | 6.1970      | ppb   | 0.0268  | 0.4    | 10759.5    |
| Ca 370.602 | 1284        | ppb   | 2.554   | 0.2    | -4921      |
| Cd 226.502 | -0.8937     | ppb   | 0.0610  | 6.8    | 389.511    |
| Co 228.615 | 176.266     | ppb   | 0.3690  | 0.2    | 2091.42    |
| Cr 267.716 | 728.561     | ppb   | 1.7539  | 0.2    | 33753.7    |
| Cu 324.754 | 173.031     | ppb   | 1.2012  | 0.7    | 9810.43    |
| Fe 271.441 | 166785      | ppb   | 325.396 | 0.2    | 261863     |
| K 766.491  | 1910.36     | ppb   | 3.5607  | 0.2    | 64660.4    |
| Mg 279.078 | 10405.8     | ppb   | 18.2988 | 0.2    | 22114.7    |
| Mn 257.610 | 4142.17     | ppb   | 7.3065  | 0.2    | 928486     |
| Mo 202.032 | 4.6632      | ppb   | 0.1547  | 3.3    | 33.9278    |
| Na 330.237 | 254.651     | ppb   | 131.935 | 51.8   | 5.6325     |
| Ni 231.604 | 235.538     | ppb   | 1.8441  | 0.8    | 618.210    |
| Pb 220.353 | 189.517     | ppb   | 2.0464  | 1.1    | 316.659    |
| Sb 206.834 | 3.6547      | ppb   | 1.9695  | 53.9   | 14.2486    |
| Se 196.026 | 0.7532      | ppb   | 7.5855  | 1007.1 | 5.6591     |
| Sn 189.925 | 18.8700     | ppb   | 1.6749  | 8.9    | 1.1711     |
| Sr 216.596 | 17.2296     | ppb   | 0.3360  | 2.0    | 336.036    |
| Ti 334.941 | 2134.39     | ppb   | 0.9987  | 0.0    | 554893     |
| Tl 190.794 | 9.3499      | ppb   | 1.4908  | 15.9   | -11.0160   |
| V 292.401  | 242.949     | ppb   | 0.6206  | 0.3    | 5900.26    |
| Zn 206.200 | 188.857     | ppb   | 1.0596  | 0.6    | 547.370    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-9-a (Samp) 5/30/2013, 5:16:33 PM Rack 1, Tube 42

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.7310u                 | -0.7330u | -1.4111u |
| Al 308.215 | 94612.5                  | 94078.9  | 94385.5  |
| As 188.980 | 64.2007                  | 55.7883  | 57.2293  |
| B 249.678  | 9.8448u                  | 9.5860u  | 8.6774u  |
| Ba 389.178 | 392.223                  | 389.885  | 390.083  |
| Be 313.042 | 6.0512                   | 6.0210   | 6.0445   |
| Ca 370.602 | 1133u                    | 1133u    | 1097u    |
| Cd 226.502 | -0.7664                  | -1.0361  | -1.2305  |
| Co 228.615 | 185.615                  | 183.210  | 184.033  |
| Cr 267.716 | 590.332                  | 586.149  | 588.173  |
| Cu 324.754 | 155.842                  | 155.982  | 156.527  |
| Fe 271.441 | 149006                   | 147945   | 148535   |
| K 766.491  | 1724.47                  | 1715.04  | 1722.93  |
| Mg 279.078 | 9842.04                  | 9782.31  | 9828.20  |
| Mn 257.610 | 4044.89                  | 4021.35  | 4032.49  |
| Mo 202.032 | 4.0311                   | 5.0141   | 4.0827   |
| Na 330.237 | 191.558u                 | 336.778u | 283.654u |
| Ni 231.604 | 220.820                  | 223.143  | 223.420  |
| Pb 220.353 | 157.069                  | 157.514  | 156.906  |
| Sb 206.834 | 3.2015                   | -1.4925  | -0.2427  |
| Se 196.026 | 3.5087                   | -0.4648u | 12.1096  |
| Sn 189.925 | 14.0083                  | 21.0846  | 15.9017  |
| Sr 216.596 | 16.4199                  | 15.8980  | 16.6201  |
| Ti 334.941 | 1983.43                  | 1969.50  | 1977.81  |
| Tl 190.794 | 11.8776                  | 4.2243u  | 14.4235  |
| V 292.401  | 216.377                  | 214.628  | 216.350  |
| Zn 206.200 | 180.576                  | 176.429  | 177.808  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.9583     | ppb   | 0.3921  | 40.9  | -64.8902   |
| Al 308.215 | 94359.0     | ppb   | 267.781 | 0.3   | 583146     |
| As 188.980 | 59.0728     | ppb   | 4.4990  | 7.6   | 22.7567    |
| B 249.678  | 9.3694      | ppb   | 0.6131  | 6.5   | -46.3002   |
| Ba 389.178 | 390.730     | ppb   | 1.2969  | 0.3   | 7484.60    |
| Be 313.042 | 6.0389      | ppb   | 0.0159  | 0.3   | 10479.1    |
| Ca 370.602 | 1121        | ppb   | 21.21   | 1.9   | -4394      |
| Cd 226.502 | -1.0110     | ppb   | 0.2331  | 23.1  | 341.478    |
| Co 228.615 | 184.286     | ppb   | 1.2222  | 0.7   | 2179.15    |
| Cr 267.716 | 588.218     | ppb   | 2.0915  | 0.4   | 27259.5    |
| Cu 324.754 | 156.117     | ppb   | 0.3621  | 0.2   | 8868.89    |
| Fe 271.441 | 148496      | ppb   | 531.480 | 0.4   | 233153     |
| K 766.491  | 1720.81     | ppb   | 5.0594  | 0.3   | 58270.1    |
| Mg 279.078 | 9817.52     | ppb   | 31.2631 | 0.3   | 20863.2    |
| Mn 257.610 | 4032.91     | ppb   | 11.7744 | 0.3   | 903955     |
| Mo 202.032 | 4.3759      | ppb   | 0.5532  | 12.6  | 32.8856    |
| Na 330.237 | 270.663     | ppb   | 73.4764 | 27.1  | 12.0524    |
| Ni 231.604 | 222.461     | ppb   | 1.4281  | 0.6   | 583.480    |
| Pb 220.353 | 157.163     | ppb   | 0.3147  | 0.2   | 267.702    |
| Sb 206.834 | 0.4888      | ppb   | 2.4309  | 497.4 | 9.5072     |
| Se 196.026 | 5.0512      | ppb   | 6.4275  | 127.2 | 7.8388     |
| Sn 189.925 | 16.9982     | ppb   | 3.6633  | 21.6  | -0.3897    |
| Sr 216.596 | 16.3126     | ppb   | 0.3728  | 2.3   | 310.811    |
| Ti 334.941 | 1976.91     | ppb   | 7.0061  | 0.4   | 513948     |
| Tl 190.794 | 10.1751     | ppb   | 5.3084  | 52.2  | -10.0127   |
| V 292.401  | 215.785     | ppb   | 1.0024  | 0.5   | 5242.37    |
| Zn 206.200 | 178.271     | ppb   | 2.1121  | 1.2   | 234.018    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-10-a (Samp) 5/30/2013, 5:21:08 PM Rack 1, Tube 43

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.8609u                 | -0.7033u | 0.3199   |
| Al 308.215 | 140238                   | 139817   | 140933   |
| As 188.980 | 16.9552                  | 10.6735  | 18.0024  |
| B 249.678  | 9.3544u                  | 8.6298u  | 8.2841u  |
| Ba 389.178 | 196.693                  | 195.282  | 197.244  |
| Be 313.042 | 3.7677                   | 3.7615   | 3.8007   |
| Ca 370.602 | 557.0u                   | 594.8u   | 579.8u   |
| Cd 226.502 | -2.0869                  | -2.1254  | -2.1613  |
| Co 228.615 | 25.4900                  | 25.3780  | 25.4158  |
| Cr 267.716 | 575.724                  | 573.010  | 578.386  |
| Cu 324.754 | 190.727                  | 192.088  | 191.141  |
| Fe 271.441 | 250738                   | 249735   | 252140   |
| K 766.491  | 2014.45                  | 2012.38  | 2025.48  |
| Mg 279.078 | 3213.72                  | 3189.77  | 3230.80  |
| Mn 257.610 | 420.572                  | 417.777  | 422.035  |
| Mo 202.032 | 5.6749                   | 5.9062   | 6.2576   |
| Na 330.237 | 401.443u                 | 420.397u | 344.138u |
| Ni 231.604 | 167.761                  | 169.051  | 171.856  |
| Pb 220.353 | 147.256                  | 138.702  | 146.881  |
| Sb 206.834 | -0.2446                  | -5.4435  | 1.1791   |
| Se 196.026 | -2.6509u                 | 2.1817u  | 5.1076u  |
| Sn 189.925 | 19.4511                  | 21.3081  | 16.6448  |
| Sr 216.596 | 7.4810                   | 8.3393   | 8.7288   |
| Ti 334.941 | 3539.95                  | 3527.86  | 3565.82  |
| Tl 190.794 | 3.0314u                  | -6.9786u | 1.9783u  |
| V 292.401  | 334.856                  | 333.449  | 337.194  |
| Zn 206.200 | 109.039                  | 109.018  | 109.948  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.4148     | ppb   | 0.6411  | 154.6 | -40.5400   |
| Al 308.215 | 140329      | ppb   | 563.283 | 0.4   | 867164     |
| As 188.980 | 15.2104     | ppb   | 3.9638  | 26.1  | 0.0927     |
| B 249.678  | 8.7561      | ppb   | 0.5462  | 6.2   | -249.032   |
| Ba 389.178 | 196.406     | ppb   | 1.0119  | 0.5   | 3954.47    |
| Be 313.042 | 3.7767      | ppb   | 0.0211  | 0.6   | 6455.09    |
| Ca 370.602 | 577.2       | ppb   | 19.01   | 3.3   | -10052     |
| Cd 226.502 | -2.1245     | ppb   | 0.0372  | 1.8   | 551.725    |
| Co 228.615 | 25.4279     | ppb   | 0.0570  | 0.2   | 388.801    |
| Cr 267.716 | 575.707     | ppb   | 2.6884  | 0.5   | 26691.4    |
| Cu 324.754 | 191.319     | ppb   | 0.6980  | 0.4   | 10848.9    |
| Fe 271.441 | 250871      | ppb   | 1208.11 | 0.5   | 393846     |
| K 766.491  | 2017.44     | ppb   | 7.0389  | 0.3   | 68270.3    |
| Mg 279.078 | 3211.43     | ppb   | 20.6086 | 0.6   | 6867.37    |
| Mn 257.610 | 420.128     | ppb   | 2.1634  | 0.5   | 94839.1    |
| Mo 202.032 | 5.9462      | ppb   | 0.2934  | 4.9   | 38.5184    |
| Na 330.237 | 388.659     | ppb   | 39.7040 | 10.2  | -14.7069   |
| Ni 231.604 | 169.556     | ppb   | 2.0936  | 1.2   | 447.061    |
| Pb 220.353 | 144.280     | ppb   | 4.8340  | 3.4   | 252.907    |
| Sb 206.834 | -1.5030     | ppb   | 3.4860  | 231.9 | 9.7022     |
| Se 196.026 | 1.5462      | ppb   | 3.9181  | 253.4 | 4.1345     |
| Sn 189.925 | 19.1347     | ppb   | 2.3477  | 12.3  | 1.3889     |
| Sr 216.596 | 8.1830      | ppb   | 0.6384  | 7.8   | 314.757    |
| Ti 334.941 | 3544.54     | ppb   | 19.3932 | 0.5   | 921475     |
| Tl 190.794 | -0.6563     | ppb   | 5.5005  | 838.1 | -17.8622   |
| V 292.401  | 335.166     | ppb   | 1.8915  | 0.6   | 8175.56    |
| Zn 206.200 | 109.335     | ppb   | 0.5306  | 0.5   | 146.187    |

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**680-90599-a-11-a (Samp)**                      **5/30/2013, 5:25:43 PM**                      **Rack 1, Tube 44**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -0.4671u                 | -0.7358u  | -1.3687u |
| Al 308.215 | 120768                   | 120474    | 120878   |
| As 188.980 | 9.2554                   | 18.5612   | 8.3720   |
| B 249.678  | 4.2820u                  | 4.5591u   | 4.5270u  |
| Ba 389.178 | 239.827                  | 240.673   | 240.840  |
| Be 313.042 | 3.4554                   | 3.4542    | 3.4638   |
| Ca 370.602 | 410.5u                   | 396.5u    | 377.4u   |
| Cd 226.502 | -1.2678                  | -0.9303   | -0.7804  |
| Co 228.615 | 15.9122                  | 16.4720   | 15.4587  |
| Cr 267.716 | 194.285                  | 193.904   | 194.011  |
| Cu 324.754 | 254.685                  | 250.997   | 255.570  |
| Fe 271.441 | 139466                   | 139228    | 139573   |
| K 766.491  | 4403.74                  | 4393.18   | 4406.03  |
| Mg 279.078 | 4618.75                  | 4624.14   | 4629.31  |
| Mn 257.610 | 431.360                  | 431.443   | 431.614  |
| Mo 202.032 | 3.6515                   | 2.8340    | 3.3629   |
| Na 330.237 | 537.528u                 | 236.918u  | 391.060u |
| Ni 231.604 | 155.465                  | 152.088   | 154.490  |
| Pb 220.353 | 220.988                  | 207.548   | 211.405  |
| Sb 206.834 | -1.7530                  | -11.0768u | 1.3903   |
| Se 196.026 | -3.9288u                 | 9.5632    | -2.4551u |
| Sn 189.925 | 14.6065                  | 19.2177   | 13.8704  |
| Sr 216.596 | 5.3923                   | 5.5742    | 5.5699   |
| Ti 334.941 | 2901.41                  | 2907.36   | 2905.16  |
| Tl 190.794 | 8.3121u                  | 2.3538u   | 10.6380  |
| V 292.401  | 176.131                  | 176.366   | 176.308  |
| Zn 206.200 | 93.7664                  | 94.0946   | 92.5325  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.8572     | ppb   | 0.4629  | 54.0  | -72.9924   |
| Al 308.215 | 120707      | ppb   | 208.984 | 0.2   | 745952     |
| As 188.980 | 12.0629     | ppb   | 5.6450  | 46.8  | -0.7651    |
| B 249.678  | 4.4560      | ppb   | 0.1516  | 3.4   | -95.9931   |
| Ba 389.178 | 240.447     | ppb   | 0.5432  | 0.2   | 4652.98    |
| Be 313.042 | 3.4578      | ppb   | 0.0052  | 0.2   | 5894.38    |
| Ca 370.602 | 394.8       | ppb   | 16.62   | 4.2   | -5127      |
| Cd 226.502 | -0.9928     | ppb   | 0.2496  | 25.1  | 320.085    |
| Co 228.615 | 15.9477     | ppb   | 0.5076  | 3.2   | 260.332    |
| Cr 267.716 | 194.067     | ppb   | 0.1961  | 0.1   | 9019.13    |
| Cu 324.754 | 253.751     | ppb   | 2.4254  | 1.0   | 14268.4    |
| Fe 271.441 | 139422      | ppb   | 176.806 | 0.1   | 218889     |
| K 766.491  | 4400.98     | ppb   | 6.8525  | 0.2   | 148628     |
| Mg 279.078 | 4624.07     | ppb   | 5.2807  | 0.1   | 9859.07    |
| Mn 257.610 | 431.472     | ppb   | 0.1296  | 0.0   | 97095.6    |
| Mo 202.032 | 3.2828      | ppb   | 0.4146  | 12.6  | 25.9675    |
| Na 330.237 | 388.502     | ppb   | 150.322 | 38.7  | 18.1239    |
| Ni 231.604 | 154.014     | ppb   | 1.7382  | 1.1   | 403.964    |
| Pb 220.353 | 213.314     | ppb   | 6.9203  | 3.2   | 348.867    |
| Sb 206.834 | -3.8132     | ppb   | 6.4839  | 170.0 | 1.6441     |
| Se 196.026 | 1.0598      | ppb   | 7.4010  | 698.3 | 5.2828     |
| Sn 189.925 | 15.8982     | ppb   | 2.8982  | 18.2  | -1.3073    |
| Sr 216.596 | 5.5121      | ppb   | 0.1038  | 1.9   | 190.741    |
| Ti 334.941 | 2904.64     | ppb   | 3.0083  | 0.1   | 755112     |
| Tl 190.794 | 7.1013      | ppb   | 4.2728  | 60.2  | -10.6552   |
| V 292.401  | 176.268     | ppb   | 0.1228  | 0.1   | 4310.32    |
| Zn 206.200 | 93.4645     | ppb   | 0.8236  | 0.8   | 125.966    |

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**mb 680-278446/1-a (Samp)**      **5/30/2013, 5:30:18 PM**      **Rack 1, Tube 45**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -0.4543u                 | -0.1681u  | -0.3442u |
| Al 308.215 | 6.2209                   | 5.7993    | 6.5717   |
| As 188.980 | -0.8845u                 | -7.8120u  | 0.9006   |
| B 249.678  | 2.8207                   | 3.7382    | 2.9950   |
| Ba 389.178 | 1.0290                   | -0.1718u  | -0.3618u |
| Be 313.042 | 0.0018                   | -0.0024u  | 0.0050   |
| Ca 370.602 | 2.660                    | 4.140     | 6.832    |
| Cd 226.502 | -0.0610u                 | -0.1974u  | -0.0361u |
| Co 228.615 | -0.2479u                 | -0.1502u  | -0.0360u |
| Cr 267.716 | 0.0904                   | 0.1693    | 0.0333   |
| Cu 324.754 | -0.1907u                 | -0.0603u  | -0.4531u |
| Fe 271.441 | 9.7147                   | -0.7922u  | 3.4317   |
| K 766.491  | -0.1989u                 | -0.9288u  | 0.5365   |
| Mg 279.078 | -1.3309u                 | -0.2107u  | 1.9208   |
| Mn 257.610 | -0.0012u                 | 0.0278    | -0.0148u |
| Mo 202.032 | 0.1854                   | 0.1077    | 0.3594   |
| Na 330.237 | -47.6677u                | -112.635u | 48.6402  |
| Ni 231.604 | 0.9031                   | 1.5475    | 0.3430   |
| Pb 220.353 | -0.4296u                 | -2.6250u  | 0.1860   |
| Sb 206.834 | -0.3964u                 | -4.6718u  | -4.0975u |
| Se 196.026 | 1.1377                   | -9.5853u  | 0.3938   |
| Sn 189.925 | 3.0249                   | 4.1422    | -0.8459u |
| Sr 216.596 | 0.4453                   | 0.5466    | 0.5026   |
| Ti 334.941 | 0.2244                   | 0.2367    | 0.2123   |
| Tl 190.794 | -2.1361u                 | 9.6323    | 5.1681   |
| V 292.401  | 0.2865                   | 0.3041    | 0.1779   |
| Zn 206.200 | 0.7571                   | -1.1649u  | -0.1046u |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.3222     | ppb   | 0.1443  | 44.8   | -36.7240   |
| Al 308.215 | 6.1973      | ppb   | 0.3867  | 6.2    | 220.997    |
| As 188.980 | -2.5986     | ppb   | 4.6023  | 177.1  | -8.0352    |
| B 249.678  | 3.1846      | ppb   | 0.4873  | 15.3   | 151.389    |
| Ba 389.178 | 0.1651      | ppb   | 0.7541  | 456.7  | -9.9419    |
| Be 313.042 | 0.0015      | ppb   | 0.0037  | 251.5  | -252.245   |
| Ca 370.602 | 4.544       | ppb   | 2.115   | 46.5   | 6.106      |
| Cd 226.502 | -0.0981     | ppb   | 0.0868  | 88.5   | 13.0743    |
| Co 228.615 | -0.1447     | ppb   | 0.1061  | 73.3   | 4.6733     |
| Cr 267.716 | 0.0977      | ppb   | 0.0683  | 69.9   | 11.6144    |
| Cu 324.754 | -0.2347     | ppb   | 0.2001  | 85.2   | 171.528    |
| Fe 271.441 | 4.1181      | ppb   | 5.2869  | 128.4  | 23.3598    |
| K 766.491  | -0.1970     | ppb   | 0.7326  | 371.8  | 249.272    |
| Mg 279.078 | 0.1264      | ppb   | 1.6519  | 1306.8 | 35.6839    |
| Mn 257.610 | 0.0039      | ppb   | 0.0218  | 551.2  | 31.3878    |
| Mo 202.032 | 0.2175      | ppb   | 0.1289  | 59.3   | 12.0360    |
| Na 330.237 | -37.2206    | ppb   | 81.1434 | 218.0  | 47.1992    |
| Ni 231.604 | 0.9312      | ppb   | 0.6028  | 64.7   | -0.8029    |
| Pb 220.353 | -0.9562     | ppb   | 1.4776  | 154.5  | 25.6655    |
| Sb 206.834 | -3.0552     | ppb   | 2.3205  | 76.0   | -2.4198    |
| Se 196.026 | -2.6846     | ppb   | 5.9877  | 223.0  | 5.1717     |
| Sn 189.925 | 2.1070      | ppb   | 2.6176  | 124.2  | -12.8068   |
| Sr 216.596 | 0.4982      | ppb   | 0.0508  | 10.2   | 20.2681    |
| Ti 334.941 | 0.2245      | ppb   | 0.0122  | 5.4    | -0.2444    |
| Tl 190.794 | 4.2214      | ppb   | 5.9410  | 140.7  | -7.6733    |
| V 292.401  | 0.2562      | ppb   | 0.0683  | 26.7   | -12.2107   |
| Zn 206.200 | -0.1708     | ppb   | 0.9627  | 563.8  | -4.7480    |



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ics 680-278446/2-a (Samp)      5/30/2013, 5:34:54 PM      Rack 1, Tube 46  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 46.5060                  | 46.4450 | 46.3499 |
| Al 308.215 | 4597.94                  | 4587.83 | 4586.30 |
| As 188.980 | 104.461                  | 98.0002 | 103.486 |
| B 249.678  | 186.014                  | 185.592 | 187.059 |
| Ba 389.178 | 93.1332                  | 92.8097 | 93.4150 |
| Be 313.042 | 48.0821                  | 48.0080 | 48.0089 |
| Ca 370.602 | 4586                     | 4584    | 4590    |
| Cd 226.502 | 47.3624                  | 47.4806 | 47.2971 |
| Co 228.615 | 46.9764                  | 47.4892 | 46.7934 |
| Cr 267.716 | 94.4553                  | 94.2909 | 94.1009 |
| Cu 324.754 | 96.7137                  | 96.5997 | 94.8059 |
| Fe 271.441 | 4594.86                  | 4595.63 | 4585.90 |
| K 766.491  | 4597.22                  | 4586.83 | 4592.54 |
| Mg 279.078 | 4665.76                  | 4658.58 | 4644.59 |
| Mn 257.610 | 487.333                  | 486.895 | 486.074 |
| Mo 202.032 | 95.9248                  | 95.8301 | 96.4950 |
| Na 330.237 | 4661.71                  | 4484.35 | 4472.44 |
| Ni 231.604 | 94.5082                  | 93.7758 | 94.6181 |
| Pb 220.353 | 45.4038                  | 45.1357 | 48.8443 |
| Sb 206.834 | 41.9598                  | 41.0423 | 45.0885 |
| Se 196.026 | 91.6069                  | 96.0200 | 97.1123 |
| Sn 189.925 | 182.458                  | 184.020 | 183.580 |
| Sr 216.596 | 93.2895                  | 93.8751 | 92.0360 |
| Ti 334.941 | 92.5415                  | 92.2804 | 92.3958 |
| Tl 190.794 | 39.9251                  | 43.9845 | 41.0806 |
| V 292.401  | 94.6834                  | 94.6295 | 94.2273 |
| Zn 206.200 | 94.1332                  | 93.5092 | 90.6617 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 46.4336     | ppb   | 0.0787  | 0.2  | 3356.08    |
| Al 308.215 | 4590.69     | ppb   | 6.3247  | 0.1  | 28533.8    |
| As 188.980 | 101.982     | ppb   | 3.4829  | 3.4  | 44.9024    |
| B 249.678  | 186.222     | ppb   | 0.7549  | 0.4  | 2637.04    |
| Ba 389.178 | 93.1193     | ppb   | 0.3029  | 0.3  | 1743.89    |
| Be 313.042 | 48.0330     | ppb   | 0.0426  | 0.1  | 85137.3    |
| Ca 370.602 | 4587        | ppb   | 3.169   | 0.1  | 8829       |
| Cd 226.502 | 47.3800     | ppb   | 0.0930  | 0.2  | 1591.23    |
| Co 228.615 | 47.0863     | ppb   | 0.3607  | 0.8  | 548.190    |
| Cr 267.716 | 94.2824     | ppb   | 0.1774  | 0.2  | 4368.78    |
| Cu 324.754 | 96.0398     | ppb   | 1.0701  | 1.1  | 5501.79    |
| Fe 271.441 | 4592.13     | ppb   | 5.4055  | 0.1  | 7232.20    |
| K 766.491  | 4592.20     | ppb   | 5.2041  | 0.1  | 155074     |
| Mg 279.078 | 4656.31     | ppb   | 10.7624 | 0.2  | 9936.68    |
| Mn 257.610 | 486.768     | ppb   | 0.6392  | 0.1  | 109125     |
| Mo 202.032 | 96.0833     | ppb   | 0.3596  | 0.4  | 661.657    |
| Na 330.237 | 4539.50     | ppb   | 106.007 | 2.3  | 259.123    |
| Ni 231.604 | 94.3007     | ppb   | 0.4579  | 0.5  | 244.310    |
| Pb 220.353 | 46.4613     | ppb   | 2.0681  | 4.5  | 96.1042    |
| Sb 206.834 | 42.6969     | ppb   | 2.1214  | 5.0  | 42.7467    |
| Se 196.026 | 94.9131     | ppb   | 2.9148  | 3.1  | 50.1911    |
| Sn 189.925 | 183.353     | ppb   | 0.8052  | 0.4  | 138.380    |
| Sr 216.596 | 93.0669     | ppb   | 0.9396  | 1.0  | 992.859    |
| Ti 334.941 | 92.4059     | ppb   | 0.1309  | 0.1  | 23984.4    |
| Tl 190.794 | 41.6634     | ppb   | 2.0915  | 5.0  | 10.3743    |
| V 292.401  | 94.5134     | ppb   | 0.2492  | 0.3  | 2268.75    |
| Zn 206.200 | 92.7680     | ppb   | 1.8506  | 2.0  | 514.186    |

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680-90439-h-1-a (Samp)                      5/30/2013, 5:39:30 PM                      Rack 1, Tube 47  
 Weight: 1                                      Volume: 1                                      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.4153u                 | -0.2198u | -0.2271u |
| Al 308.215 | 77.0832                  | 78.8080  | 78.3281  |
| As 188.980 | 4.4379                   | 4.9286   | 6.6226   |
| B 249.678  | 13191.0x                 | 13338.3x | 13328.1x |
| Ba 389.178 | 58.1588                  | 58.5423  | 58.5218  |
| Be 313.042 | 0.0393                   | 0.0394   | 0.0441   |
| Ca 370.602 | 139841                   | 140634   | 139456   |
| Cd 226.502 | -0.0089                  | -0.0711u | 0.1256   |
| Co 228.615 | 0.3889                   | -0.1086u | 0.3039   |
| Cr 267.716 | 0.1443                   | 0.0150   | 0.1532   |
| Cu 324.754 | 0.5775                   | 0.3759   | 0.5222   |
| Fe 271.441 | 483.989                  | 490.213  | 482.977  |
| K 766.491  | 3969.45                  | 3985.79  | 3983.17  |
| Mg 279.078 | 33309.3                  | 33614.5  | 33390.4  |
| Mn 257.610 | 3760.90                  | 3773.11  | 3758.09  |
| Mo 202.032 | -0.2647u                 | -0.4851u | -0.1203u |
| Na 330.237 | 121124x                  | 122080x  | 121363x  |
| Ni 231.604 | 2.1188                   | 2.5475   | 1.2056   |
| Pb 220.353 | -0.5453u                 | 4.0771   | -4.7885u |
| Sb 206.834 | -1.6706u                 | -0.0747u | 0.1666   |
| Se 196.026 | -4.6289u                 | 4.5313   | -7.0785u |
| Sn 189.925 | 0.7074                   | -1.6806u | 3.2153   |
| Sr 216.596 | 648.413                  | 651.464  | 649.406  |
| Ti 334.941 | 0.2240                   | 0.2655   | 0.2655   |
| Tl 190.794 | 13.1344                  | 5.8126   | 13.9325  |
| V 292.401  | 0.3767                   | 0.5446   | 0.1043   |
| Zn 206.200 | 22.9713                  | 25.2849  | 24.4419  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2874b    | ppb   | 0.1108  | 38.6   | -46.4294   |
| Al 308.215 | 78.0731b    | ppb   | 0.8902  | 1.1    | 665.026    |
| As 188.980 | 5.3297b     | ppb   | 1.1463  | 21.5   | -4.0235    |
| B 249.678  | 13285.8xb   | ppb   | 82.2871 | 0.6    | 181161     |
| Ba 389.178 | 58.4076b    | ppb   | 0.2158  | 0.4    | 1150.16    |
| Be 313.042 | 0.0409b     | ppb   | 0.0027  | 6.7    | -150.822   |
| Ca 370.602 | 139977b     | ppb   | 600.6   | 0.4    | 275269     |
| Cd 226.502 | 0.0152b     | ppb   | 0.1006  | 660.0  | 17.7662    |
| Co 228.615 | 0.1947b     | ppb   | 0.2661  | 136.6  | 8.6282     |
| Cr 267.716 | 0.1042b     | ppb   | 0.0773  | 74.2   | 29.7286    |
| Cu 324.754 | 0.4919b     | ppb   | 0.1042  | 21.2   | 211.872    |
| Fe 271.441 | 485.726b    | ppb   | 3.9180  | 0.8    | 779.439    |
| K 766.491  | 3979.47b    | ppb   | 8.7772  | 0.2    | 134417     |
| Mg 279.078 | 33438.1b    | ppb   | 158.097 | 0.5    | 71138.3    |
| Mn 257.610 | 3764.04b    | ppb   | 7.9835  | 0.2    | 843516     |
| Mo 202.032 | -0.2900b    | ppb   | 0.1837  | 63.3   | 8.5716     |
| Na 330.237 | 121523xb    | ppb   | 497.284 | 0.4    | 5750.33    |
| Ni 231.604 | 1.9573b     | ppb   | 0.6854  | 35.0   | 1.9001     |
| Pb 220.353 | -0.4189b    | ppb   | 4.4342  | 1058.5 | 27.2169    |
| Sb 206.834 | -0.5263b    | ppb   | 0.9983  | 189.7  | 0.0895     |
| Se 196.026 | -2.3920b    | ppb   | 6.1196  | 255.8  | 6.1672     |
| Sn 189.925 | 0.7474b     | ppb   | 2.4482  | 327.6  | -13.8384   |
| Sr 216.596 | 649.761b    | ppb   | 1.5560  | 0.2    | 6844.67    |
| Ti 334.941 | 0.2517b     | ppb   | 0.0240  | 9.5    | 138.150    |
| Tl 190.794 | 10.9599b    | ppb   | 4.4755  | 40.8   | -5.2604    |
| V 292.401  | 0.3419b     | ppb   | 0.2222  | 65.0   | -10.5381   |
| Zn 206.200 | 24.2327b    | ppb   | 1.1709  | 4.8    | 361803     |

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**680-90439-h-1-aSD^5 (Samp) 5/30/2013, 5:44:06 PM Rack 1, Tube 48****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0997u                 | -0.6571u | -0.1547u |
| Al 308.215 | 18.6236                  | 18.1321  | 20.2104  |
| As 188.980 | 1.8401                   | -2.1207u | 2.7542   |
| B 249.678  | 3096.75                  | 3078.09  | 3050.42  |
| Ba 389.178 | 11.6779                  | 12.3935  | 10.5717  |
| Be 313.042 | 0.0051                   | 0.0076   | 0.0050   |
| Ca 370.602 | 29707                    | 29648    | 29450    |
| Cd 226.502 | 0.2320                   | 0.1192   | 0.0543   |
| Co 228.615 | -0.1003u                 | -0.5891u | -0.1118u |
| Cr 267.716 | 0.0485                   | -0.0716  | -0.0773  |
| Cu 324.754 | 0.0130                   | -0.3998u | 0.2284   |
| Fe 271.441 | 111.604                  | 104.195  | 112.721  |
| K 766.491  | 731.170                  | 725.716  | 720.702  |
| Mg 279.078 | 7259.31                  | 7211.30  | 7158.17  |
| Mn 257.610 | 845.930                  | 842.053  | 835.488  |
| Mo 202.032 | -0.3204u                 | -0.2190u | -0.8447u |
| Na 330.237 | 23970.1                  | 23930.4  | 23642.0  |
| Ni 231.604 | 1.3386                   | 1.2492   | 0.7427   |
| Pb 220.353 | -1.6005u                 | -0.8184u | -0.2560u |
| Sb 206.834 | -2.6616u                 | -6.7248u | -0.5864u |
| Se 196.026 | -3.8039u                 | -1.0574u | 4.7638   |
| Sn 189.925 | -0.6278u                 | 0.7710   | 2.9010   |
| Sr 216.596 | 143.089                  | 141.290  | 141.444  |
| Ti 334.941 | 0.1049                   | 0.1190   | 0.0893   |
| Tl 190.794 | 9.1470                   | -2.3883u | 2.6428   |
| V 292.401  | 0.1871                   | 0.4176   | 0.3806   |
| Zn 206.200 | 7.7312                   | 5.7673   | 6.1773   |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.3038     | ppb   | 0.3072  | 101.1   | -37.9692   |
| Al 308.215 | 18.9887     | ppb   | 1.0862  | 5.7     | 299.982    |
| As 188.980 | 0.8245      | ppb   | 2.5913  | 314.3   | -6.3023    |
| B 249.678  | 3075.09     | ppb   | 23.3130 | 0.8     | 42014.1    |
| Ba 389.178 | 11.5477     | ppb   | 0.9178  | 7.9     | 218.194    |
| Be 313.042 | 0.0059      | ppb   | 0.0015  | 24.7    | -237.522   |
| Ca 370.602 | 29602       | ppb   | 134.8   | 0.5     | 58211      |
| Cd 226.502 | 0.1351      | ppb   | 0.0899  | 66.5    | 21.0003    |
| Co 228.615 | -0.2671     | ppb   | 0.2790  | 104.4   | 3.2874     |
| Cr 267.716 | -0.0335     | ppb   | 0.0710  | 212.3   | 9.4743     |
| Cu 324.754 | -0.0528     | ppb   | 0.3192  | 604.1   | 181.606    |
| Fe 271.441 | 109.507     | ppb   | 4.6339  | 4.2     | 188.786    |
| K 766.491  | 725.863     | ppb   | 5.2352  | 0.7     | 24727.1    |
| Mg 279.078 | 7209.59     | ppb   | 50.5901 | 0.7     | 15365.4    |
| Mn 257.610 | 841.157     | ppb   | 5.2785  | 0.6     | 188524     |
| Mo 202.032 | -0.4613     | ppb   | 0.3358  | 72.8    | 7.4278     |
| Na 330.237 | 23847.5     | ppb   | 179.093 | 0.8     | 1167.75    |
| Ni 231.604 | 1.1102      | ppb   | 0.3214  | 28.9    | -0.3306    |
| Pb 220.353 | -0.8916     | ppb   | 0.6752  | 75.7    | 25.9308    |
| Sb 206.834 | -3.3243     | ppb   | 3.1224  | 93.9    | -2.6745    |
| Se 196.026 | -0.0325     | ppb   | 4.3748  | 13460.4 | 6.5858     |
| Sn 189.925 | 1.0147      | ppb   | 1.7770  | 175.1   | -13.6968   |
| Sr 216.596 | 141.941     | ppb   | 0.9971  | 0.7     | 1506.89    |
| Ti 334.941 | 0.1044      | ppb   | 0.0149  | 14.2    | -3.0259    |
| Tl 190.794 | 3.1339      | ppb   | 5.7833  | 184.5   | -8.3970    |
| V 292.401  | 0.3284      | ppb   | 0.1238  | 37.7    | -10.4335   |
| Zn 206.200 | 6.5586      | ppb   | 1.0360  | 15.8    | 134159     |

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**680-90439-h-1-aPDS (Samp) 5/30/2013, 5:58:01 PM Rack 1, Tube 51****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 53.4852                  | 52.7534  | 52.6963  |
| Al 308.215 | 2196.79                  | 2186.61  | 2164.46  |
| As 188.980 | 2348.37                  | 2334.61  | 2323.03  |
| B 249.678  | 14377.6x                 | 14372.7x | 14313.7x |
| Ba 389.178 | 2169.86                  | 2154.85  | 2140.21  |
| Be 313.042 | 53.2439                  | 53.0361  | 52.6549  |
| Ca 370.602 | 145085                   | 144346   | 143100   |
| Cd 226.502 | 52.1583                  | 51.8167  | 51.6468  |
| Co 228.615 | 529.037                  | 528.578  | 520.362  |
| Cr 267.716 | 208.999                  | 208.158  | 206.500  |
| Cu 324.754 | 271.908                  | 271.900  | 267.302  |
| Fe 271.441 | 1512.43                  | 1498.65  | 1495.02  |
| K 766.491  | 10821.7                  | 10815.2  | 10726.5  |
| Mg 279.078 | 39038.0                  | 38787.7  | 38519.0  |
| Mn 257.610 | 4286.59                  | 4258.40  | 4242.52  |
| Mo 202.032 | 551.016                  | 545.520  | 539.564  |
| Na 330.237 | 128372x                  | 127485x  | 126672x  |
| Ni 231.604 | 521.631                  | 516.699  | 511.508  |
| Pb 220.353 | 531.052                  | 526.358  | 525.979  |
| Sb 206.834 | 521.449                  | 520.759  | 516.030  |
| Se 196.026 | 2236.16                  | 2228.14  | 2212.63  |
| Sn 189.925 | 1069.43                  | 1049.97  | 1049.61  |
| Sr 216.596 | 1171.59                  | 1164.07  | 1157.74  |
| Ti 334.941 | 1043.21                  | 1040.00  | 1031.41  |
| Tl 190.794 | 2165.40                  | 2193.22  | 2138.26  |
| V 292.401  | 521.954                  | 520.868  | 517.099  |
| Zn 206.200 | 532.643                  | 528.957  | 525.230  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 52.9783b    | ppb   | 0.4399  | 0.8  | 3803.27    |
| Al 308.215 | 2182.62b    | ppb   | 16.5306 | 0.8  | 13585.8    |
| As 188.980 | 2335.34b    | ppb   | 12.6826 | 0.5  | 1175.76    |
| B 249.678  | 14354.7xb   | ppb   | 35.5867 | 0.2  | 195726     |
| Ba 389.178 | 2154.97b    | ppb   | 14.8272 | 0.7  | 40370.5    |
| Be 313.042 | 52.9783b    | ppb   | 0.2987  | 0.6  | 93879.4    |
| Ca 370.602 | 144177b     | ppb   | 1003    | 0.7  | 283833     |
| Cd 226.502 | 51.8739b    | ppb   | 0.2605  | 0.5  | 1731.98    |
| Co 228.615 | 525.993b    | ppb   | 4.8814  | 0.9  | 6070.20    |
| Cr 267.716 | 207.886b    | ppb   | 1.2716  | 0.6  | 9636.66    |
| Cu 324.754 | 270.370b    | ppb   | 2.6569  | 1.0  | 15155.5    |
| Fe 271.441 | 1502.03b    | ppb   | 9.1858  | 0.6  | 2441.66    |
| K 766.491  | 10787.8b    | ppb   | 53.2127 | 0.5  | 363948     |
| Mg 279.078 | 38781.6b    | ppb   | 259.564 | 0.7  | 82501.9    |
| Mn 257.610 | 4262.50b    | ppb   | 22.3200 | 0.5  | 955228     |
| Mo 202.032 | 545.367b    | ppb   | 5.7278  | 1.1  | 3707.34    |
| Na 330.237 | 127510xb    | ppb   | 849.978 | 0.7  | 6020.71    |
| Ni 231.604 | 516.613b    | ppb   | 5.0619  | 1.0  | 1351.90    |
| Pb 220.353 | 527.797b    | ppb   | 2.8260  | 0.5  | 809.176    |
| Sb 206.834 | 519.413b    | ppb   | 2.9497  | 0.6  | 507.493    |
| Se 196.026 | 2225.64b    | ppb   | 11.9594 | 0.5  | 1032.74    |
| Sn 189.925 | 1056.34b    | ppb   | 11.3412 | 1.1  | 866.669    |
| Sr 216.596 | 1164.47b    | ppb   | 6.9346  | 0.6  | 12229.2    |
| Ti 334.941 | 1038.21b    | ppb   | 6.1022  | 0.6  | 270001     |
| Tl 190.794 | 2165.63b    | ppb   | 27.4804 | 1.3  | 1044.54    |
| V 292.401  | 519.974b    | ppb   | 2.5478  | 0.5  | 12583.8    |
| Zn 206.200 | 528.943b    | ppb   | 3.7063  | 0.7  | 685.549    |

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680-90439-h-1-b ms (Samp) 5/30/2013, 6:10:25 PM Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 49.1865                  | 48.8849  | 48.9872  |
| Al 308.215 | 4993.24                  | 5001.69  | 5011.02  |
| As 188.980 | 114.721                  | 114.368  | 113.274  |
| B 249.678  | 13132.7x                 | 13210.8x | 13288.6x |
| Ba 389.178 | 152.529                  | 153.609  | 152.532  |
| Be 313.042 | 49.2843                  | 49.3201  | 49.4602  |
| Ca 370.602 | 141092                   | 141020   | 140513   |
| Cd 226.502 | 47.8090                  | 47.8797  | 47.7180  |
| Co 228.615 | 47.4487                  | 46.7750  | 47.5048  |
| Cr 267.716 | 95.5322                  | 95.4755  | 95.7936  |
| Cu 324.754 | 100.666                  | 100.690  | 100.757  |
| Fe 271.441 | 5107.58                  | 5095.69  | 5119.34  |
| K 766.491  | 9911.48                  | 9923.91  | 9924.81  |
| Mg 279.078 | 37386.1                  | 37372.7  | 37507.4  |
| Mn 257.610 | 4130.04                  | 4133.44  | 4143.76  |
| Mo 202.032 | 96.4139                  | 98.1440  | 97.9107  |
| Na 330.237 | 123486x                  | 123578x  | 124371x  |
| Ni 231.604 | 96.6114                  | 96.3870  | 96.3207  |
| Pb 220.353 | 44.6613                  | 47.7067  | 50.5260  |
| Sb 206.834 | 41.9169                  | 45.9521  | 45.4973  |
| Se 196.026 | 89.8996                  | 90.7166  | 99.7946  |
| Sn 189.925 | 189.185                  | 183.615  | 190.698  |
| Sr 216.596 | 725.562                  | 722.523  | 728.819  |
| Ti 334.941 | 94.3039                  | 94.5234  | 94.6691  |
| Tl 190.794 | 47.4462                  | 51.1656  | 53.0451  |
| V 292.401  | 96.8516                  | 96.7260  | 96.7620  |
| Zn 206.200 | 117.508                  | 118.621  | 119.669  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.0195b    | ppb   | 0.1534  | 0.3  | 3531.86    |
| Al 308.215 | 5001.98b    | ppb   | 8.8938  | 0.2  | 31074.7    |
| As 188.980 | 114.121b    | ppb   | 0.7544  | 0.7  | 51.0483    |
| B 249.678  | 13210.7xb   | ppb   | 77.9976 | 0.6  | 180129     |
| Ba 389.178 | 152.890b    | ppb   | 0.6227  | 0.4  | 2931.20    |
| Be 313.042 | 49.3549b    | ppb   | 0.0930  | 0.2  | 87517.6    |
| Ca 370.602 | 140875b     | ppb   | 315.4   | 0.2  | 276845     |
| Cd 226.502 | 47.8022b    | ppb   | 0.0810  | 0.2  | 1606.20    |
| Co 228.615 | 47.2429b    | ppb   | 0.4061  | 0.9  | 550.035    |
| Cr 267.716 | 95.6004b    | ppb   | 0.1696  | 0.2  | 4447.02    |
| Cu 324.754 | 100.705b    | ppb   | 0.0472  | 0.0  | 5760.08    |
| Fe 271.441 | 5107.54b    | ppb   | 11.8270 | 0.2  | 8041.34    |
| K 766.491  | 9920.07b    | ppb   | 7.4506  | 0.1  | 334694     |
| Mg 279.078 | 37422.0b    | ppb   | 74.2196 | 0.2  | 79610.4    |
| Mn 257.610 | 4135.75b    | ppb   | 7.1460  | 0.2  | 926831     |
| Mo 202.032 | 97.4895b    | ppb   | 0.9388  | 1.0  | 671.163    |
| Na 330.237 | 123812xb    | ppb   | 486.508 | 0.4  | 5854.88    |
| Ni 231.604 | 96.4397b    | ppb   | 0.1524  | 0.2  | 249.936    |
| Pb 220.353 | 47.6314b    | ppb   | 2.9331  | 6.2  | 98.5651    |
| Sb 206.834 | 44.4554b    | ppb   | 2.2101  | 5.0  | 44.4970    |
| Se 196.026 | 93.4702b    | ppb   | 5.4922  | 5.9  | 50.3602    |
| Sn 189.925 | 187.833b    | ppb   | 3.7302  | 2.0  | 142.217    |
| Sr 216.596 | 725.634b    | ppb   | 3.1487  | 0.4  | 7641.74    |
| Ti 334.941 | 94.4988b    | ppb   | 0.1839  | 0.2  | 24657.1    |
| Tl 190.794 | 50.5523b    | ppb   | 2.8494  | 5.6  | 13.8592    |
| V 292.401  | 96.7799b    | ppb   | 0.0647  | 0.1  | 2323.29    |
| Zn 206.200 | 118.599b    | ppb   | 1.0894  | 0.9  | 157.454    |

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**680-90439-h-1-c msd (Samp) 5/30/2013, 6:15:00 PM Rack 1, Tube 53**  
**Weight: 1 Volume: 1 Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 45.8190                  | 48.5543  | 46.6438  |
| Al 308.215 | 4684.37                  | 4978.71  | 4757.64  |
| As 188.980 | 97.8974                  | 105.164  | 106.729  |
| B 249.678  | 12813.0x                 | 13623.2x | 13090.9x |
| Ba 389.178 | 144.538                  | 152.839  | 146.828  |
| Be 313.042 | 46.7605                  | 49.5049  | 47.5409  |
| Ca 370.602 | 134464                   | 142845   | 136455   |
| Cd 226.502 | 44.9293                  | 47.7296  | 45.8202  |
| Co 228.615 | 44.4191                  | 47.7248  | 45.1300  |
| Cr 267.716 | 89.7342                  | 95.6049  | 91.4198  |
| Cu 324.754 | 96.5358                  | 102.832  | 96.4343  |
| Fe 271.441 | 4789.72                  | 5098.13  | 4874.24  |
| K 766.491  | 9317.06                  | 9768.32  | 9433.98  |
| Mg 279.078 | 35757.2                  | 37966.8  | 36299.3  |
| Mn 257.610 | 3944.06                  | 4190.02  | 4009.31  |
| Mo 202.032 | 90.4649                  | 96.5450  | 92.8590  |
| Na 330.237 | 117663x                  | 124796x  | 119558x  |
| Ni 231.604 | 89.3831                  | 97.8890  | 95.0993  |
| Pb 220.353 | 47.3442                  | 49.2663  | 45.9073  |
| Sb 206.834 | 45.6815                  | 47.8380  | 37.0465  |
| Se 196.026 | 87.1843                  | 88.4991  | 97.4446  |
| Sn 189.925 | 174.745                  | 189.229  | 175.144  |
| Sr 216.596 | 692.272                  | 735.495  | 706.283  |
| Ti 334.941 | 88.1952                  | 93.7430  | 89.8947  |
| Tl 190.794 | 39.9226                  | 49.9762  | 30.1319  |
| V 292.401  | 90.6938                  | 96.1245  | 91.6046  |
| Zn 206.200 | 110.584                  | 118.784  | 112.074  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 47.0057b    | ppb   | 1.4031  | 3.0  | 3385.92    |
| Al 308.215 | 4806.91b    | ppb   | 153.227 | 3.2  | 29869.9    |
| As 188.980 | 103.263b    | ppb   | 4.7125  | 4.6  | 45.5508    |
| B 249.678  | 13175.7xb   | ppb   | 411.720 | 3.1  | 179653     |
| Ba 389.178 | 148.069b    | ppb   | 4.2871  | 2.9  | 2839.14    |
| Be 313.042 | 47.9354b    | ppb   | 1.4141  | 3.0  | 84993.8    |
| Ca 370.602 | 137921b     | ppb   | 4379    | 3.2  | 271044     |
| Cd 226.502 | 46.1597b    | ppb   | 1.4307  | 3.1  | 1551.54    |
| Co 228.615 | 45.7580b    | ppb   | 1.7400  | 3.8  | 532.956    |
| Cr 267.716 | 92.2529b    | ppb   | 3.0227  | 3.3  | 4291.81    |
| Cu 324.754 | 98.6006b    | ppb   | 3.6646  | 3.7  | 5643.52    |
| Fe 271.441 | 4920.70b    | ppb   | 159.367 | 3.2  | 7747.82    |
| K 766.491  | 9506.45b    | ppb   | 234.197 | 2.5  | 320750     |
| Mg 279.078 | 36674.4b    | ppb   | 1151.57 | 3.1  | 78020.7    |
| Mn 257.610 | 4047.80b    | ppb   | 127.416 | 3.1  | 907122     |
| Mo 202.032 | 93.2897b    | ppb   | 3.0628  | 3.3  | 642.703    |
| Na 330.237 | 120672xb    | ppb   | 3694.86 | 3.1  | 5707.70    |
| Ni 231.604 | 94.1238b    | ppb   | 4.3360  | 4.6  | 243.855    |
| Pb 220.353 | 47.5059b    | ppb   | 1.6853  | 3.5  | 98.3608    |
| Sb 206.834 | 43.5220b    | ppb   | 5.7107  | 13.1 | 43.5837    |
| Se 196.026 | 91.0426b    | ppb   | 5.5831  | 6.1  | 49.2237    |
| Sn 189.925 | 179.706b    | ppb   | 8.2495  | 4.6  | 135.436    |
| Sr 216.596 | 711.350b    | ppb   | 22.0523 | 3.1  | 7491.54    |
| Ti 334.941 | 90.6110b    | ppb   | 2.8424  | 3.1  | 23643.3    |
| Tl 190.794 | 40.0102b    | ppb   | 9.9225  | 24.8 | 8.7496     |
| V 292.401  | 92.8076b    | ppb   | 2.9083  | 3.1  | 2227.17    |
| Zn 206.200 | 113.814b    | ppb   | 4.3684  | 3.8  | 151.300    |

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**680-90439-h-2-a (Samp)**      **5/30/2013, 6:19:34 PM**      **Rack 1, Tube 54****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.3903u                 | -0.6725u | -0.3671u |
| Al 308.215 | 214.992                  | 215.942  | 211.983  |
| As 188.980 | 6.4775                   | -5.6989u | 7.7305   |
| B 249.678  | 13365.0x                 | 13409.1x | 13421.7x |
| Ba 389.178 | 65.7409                  | 64.4287  | 66.1315  |
| Be 313.042 | 0.0095                   | 0.0003   | 0.0007   |
| Ca 370.602 | 131838                   | 131851   | 131643   |
| Cd 226.502 | -0.0079                  | -0.1489  | -0.1686  |
| Co 228.615 | 1.7181                   | 2.2524   | 1.5871   |
| Cr 267.716 | -0.0838                  | -0.1464  | -0.1097  |
| Cu 324.754 | -0.2596u                 | 0.1571   | 0.1073   |
| Fe 271.441 | 7118.00                  | 7138.44  | 7127.57  |
| K 766.491  | 3026.90                  | 3037.88  | 3027.82  |
| Mg 279.078 | 31809.0                  | 31843.5  | 31834.0  |
| Mn 257.610 | 3720.34                  | 3724.60  | 3717.48  |
| Mo 202.032 | 0.1157                   | -0.0748u | -0.6596u |
| Na 330.237 | 115877x                  | 115798x  | 115817x  |
| Ni 231.604 | 6.1992                   | 4.2487   | 5.2227   |
| Pb 220.353 | -0.4443                  | -2.7901u | 0.6015   |
| Sb 206.834 | -6.6206u                 | -3.1208u | 5.4187   |
| Se 196.026 | 0.0796                   | -7.7068u | -7.2836u |
| Sn 189.925 | 1.4896                   | 1.4049   | 1.1791   |
| Sr 216.596 | 611.071                  | 612.602  | 612.673  |
| Ti 334.941 | -0.1324                  | -0.0968  | -0.1224  |
| Tl 190.794 | 6.4375                   | 8.9046   | 8.4154   |
| V 292.401  | 0.7892                   | 0.6399   | 0.3115   |
| Zn 206.200 | 26.9886                  | 28.6983  | 28.3978  |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.4766b    | ppb   | 0.1700  | 35.7    | -58.7553   |
| Al 308.215 | 214.306b    | ppb   | 2.0667  | 1.0     | 1506.64    |
| As 188.980 | 2.8364b     | ppb   | 7.4183  | 261.5   | -5.3382    |
| B 249.678  | 13398.6xb   | ppb   | 29.7713 | 0.2     | 182687     |
| Ba 389.178 | 65.4337b    | ppb   | 0.8920  | 1.4     | 1285.63    |
| Be 313.042 | 0.0035b     | ppb   | 0.0052  | 146.9   | -219.341   |
| Ca 370.602 | 131777b     | ppb   | 116.7   | 0.1     | 258818     |
| Cd 226.502 | -0.1085b    | ppb   | 0.0877  | 80.8    | 29.7331    |
| Co 228.615 | 1.8525b     | ppb   | 0.3525  | 19.0    | 27.9294    |
| Cr 267.716 | -0.1133b    | ppb   | 0.0315  | 27.8    | 20.9042    |
| Cu 324.754 | 0.0016b     | ppb   | 0.2276  | 14520.3 | 186.922    |
| Fe 271.441 | 7128.01b    | ppb   | 10.2234 | 0.1     | 11206.8    |
| K 766.491  | 3030.87b    | ppb   | 6.0879  | 0.2     | 102436     |
| Mg 279.078 | 31828.8b    | ppb   | 17.8107 | 0.1     | 67715.3    |
| Mn 257.610 | 3720.80b    | ppb   | 3.5824  | 0.1     | 833836     |
| Mo 202.032 | -0.2062b    | ppb   | 0.4040  | 195.9   | 8.8278     |
| Na 330.237 | 115831xb    | ppb   | 41.3273 | 0.0     | 5481.40    |
| Ni 231.604 | 5.2235b     | ppb   | 0.9753  | 18.7    | 10.6092    |
| Pb 220.353 | -0.8776b    | ppb   | 1.7368  | 197.9   | 26.9445    |
| Sb 206.834 | -1.4409b    | ppb   | 6.1930  | 429.8   | -0.6644    |
| Se 196.026 | -4.9703b    | ppb   | 4.3784  | 88.1    | 4.8877     |
| Sn 189.925 | 1.3579b     | ppb   | 0.1605  | 11.8    | -13.3348   |
| Sr 216.596 | 612.115b    | ppb   | 0.9050  | 0.1     | 6454.71    |
| Ti 334.941 | -0.1172b    | ppb   | 0.0184  | 15.7    | 36.3622    |
| Tl 190.794 | 7.9192b     | ppb   | 1.3063  | 16.5    | -6.9366    |
| V 292.401  | 0.5802b     | ppb   | 0.2444  | 42.1    | -4.7068    |
| Zn 206.200 | 28.0282b    | ppb   | 0.9128  | 3.3     | 513.1284   |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90439-h-3-a (Samp) 5/30/2013, 6:24:09 PM Rack 1, Tube 55

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.3329u                 | -0.2793u | -0.2009u |
| Al 308.215 | 101.802                  | 101.352  | 101.233  |
| As 188.980 | 6.9180                   | 6.1759   | 3.2525   |
| B 249.678  | 14617.7x                 | 14621.9x | 14654.2x |
| Ba 389.178 | 72.7700                  | 72.5893  | 71.9471  |
| Be 313.042 | 0.0282                   | 0.0268   | 0.0163   |
| Ca 370.602 | 145631                   | 145330   | 144888   |
| Cd 226.502 | 0.6555                   | 0.2920   | 0.5686   |
| Co 228.615 | 1.1231                   | 1.1135   | 1.0063   |
| Cr 267.716 | -0.0405                  | -0.1548  | -0.0646  |
| Cu 324.754 | 395.630                  | 392.646  | 394.259  |
| Fe 271.441 | 8457.49                  | 8433.53  | 8423.18  |
| K 766.491  | 4178.94                  | 4160.21  | 4186.88  |
| Mg 279.078 | 35022.9                  | 34893.7  | 34894.1  |
| Mn 257.610 | 4144.45                  | 4130.96  | 4129.90  |
| Mo 202.032 | -0.1914u                 | -0.5213u | 0.0613   |
| Na 330.237 | 127130x                  | 126988x  | 126610x  |
| Ni 231.604 | 5.4024                   | 6.0444   | 5.4154   |
| Pb 220.353 | 28.4369                  | 28.1568  | 29.0809  |
| Sb 206.834 | -6.9009u                 | -2.0944u | -3.3059u |
| Se 196.026 | 4.7414                   | 2.7884   | -5.2579u |
| Sn 189.925 | -1.5598u                 | -1.1785u | 5.3389   |
| Sr 216.596 | 692.584                  | 690.486  | 689.421  |
| Ti 334.941 | 0.2921                   | 0.3043   | 0.2244   |
| Tl 190.794 | -1.1283u                 | 4.6625   | 4.7260   |
| V 292.401  | 6.5761                   | 5.8286   | 6.3957   |
| Zn 206.200 | 826.455                  | 826.972  | 828.688  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2710b    | ppb   | 0.0664  | 24.5  | -45.3780   |
| Al 308.215 | 101.463b    | ppb   | 0.3003  | 0.3   | 808.487    |
| As 188.980 | 5.4488b     | ppb   | 1.9379  | 35.6  | -4.0267    |
| B 249.678  | 14631.3xb   | ppb   | 19.9411 | 0.1   | 199482     |
| Ba 389.178 | 72.4355b    | ppb   | 0.4325  | 0.6   | 1424.64    |
| Be 313.042 | 0.0238b     | ppb   | 0.0065  | 27.3  | -180.572   |
| Ca 370.602 | 145283b     | ppb   | 373.9   | 0.3   | 285317     |
| Cd 226.502 | 0.5054b     | ppb   | 0.1898  | 37.6  | 53.1255    |
| Co 228.615 | 1.0810b     | ppb   | 0.0648  | 6.0   | 19.1031    |
| Cr 267.716 | -0.0866b    | ppb   | 0.0602  | 69.6  | 24.2744    |
| Cu 324.754 | 394.178b    | ppb   | 1.4941  | 0.4   | 21997.1    |
| Fe 271.441 | 8438.06b    | ppb   | 17.5987 | 0.2   | 13263.3    |
| K 766.491  | 4175.34b    | ppb   | 13.6942 | 0.3   | 141020     |
| Mg 279.078 | 34936.9b    | ppb   | 74.4797 | 0.2   | 74323.5    |
| Mn 257.610 | 4135.10b    | ppb   | 8.1112  | 0.2   | 926675     |
| Mo 202.032 | -0.2171b    | ppb   | 0.2922  | 134.6 | 8.6826     |
| Na 330.237 | 126909xb    | ppb   | 268.790 | 0.2   | 5990.07    |
| Ni 231.604 | 5.6207b     | ppb   | 0.3670  | 6.5   | 11.6813    |
| Pb 220.353 | 28.5582b    | ppb   | 0.4738  | 1.7   | 70.7500    |
| Sb 206.834 | -4.1004b    | ppb   | 2.4998  | 61.0  | -3.2519    |
| Se 196.026 | 0.7573b     | ppb   | 5.3000  | 699.9 | 7.6057     |
| Sn 189.925 | 0.8668b     | ppb   | 3.8776  | 447.3 | -13.7348   |
| Sr 216.596 | 690.830b    | ppb   | 1.6095  | 0.2   | 7282.77    |
| Ti 334.941 | 0.2736b     | ppb   | 0.0430  | 15.7  | 150.356    |
| Tl 190.794 | 2.7534b     | ppb   | 3.3618  | 122.1 | -9.5865    |
| V 292.401  | 6.2668b     | ppb   | 0.3900  | 6.2   | 133.925    |
| Zn 206.200 | 827.372b    | ppb   | 1.1688  | 0.1   | 1070.62    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90439-h-4-a (Samp) 5/30/2013, 6:28:44 PM Rack 1, Tube 56

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.5092u                 | -0.4098u | -0.3354u |
| Al 308.215 | 72.6676                  | 75.4372  | 74.0424  |
| As 188.980 | -2.1547u                 | -4.5898u | -1.0903u |
| B 249.678  | 13774.2x                 | 13780.1x | 13805.5x |
| Ba 389.178 | 68.6897                  | 69.1865  | 67.9481  |
| Be 313.042 | 0.0143                   | 0.0142   | 0.0216   |
| Ca 370.602 | 133838                   | 133237   | 132735   |
| Cd 226.502 | -0.0886                  | 0.2312   | -0.1462  |
| Co 228.615 | 2.2174                   | 1.9155   | 1.7107   |
| Cr 267.716 | 0.0939                   | -0.1205  | 0.0798   |
| Cu 324.754 | 0.2658                   | -0.0316  | -0.4293u |
| Fe 271.441 | 8070.57                  | 8035.77  | 8041.35  |
| K 766.491  | 3065.08                  | 3055.47  | 3048.92  |
| Mg 279.078 | 32120.6                  | 32039.9  | 32110.1  |
| Mn 257.610 | 3736.08                  | 3738.87  | 3730.51  |
| Mo 202.032 | 0.0133u                  | 0.6725   | -0.4852u |
| Na 330.237 | 117902x                  | 117602x  | 117450x  |
| Ni 231.604 | 4.8968                   | 4.4074   | 5.1385   |
| Pb 220.353 | 1.1776                   | 3.9791   | -0.3338  |
| Sb 206.834 | -7.4695u                 | -5.0378u | 3.5331   |
| Se 196.026 | -4.5095u                 | 0.2388   | -5.7995u |
| Sn 189.925 | -0.9772u                 | -3.7932u | 1.7644   |
| Sr 216.596 | 620.869                  | 618.751  | 620.030  |
| Ti 334.941 | 0.0091                   | -0.0791  | -0.0631  |
| Tl 190.794 | 8.0451                   | 1.0762u  | 9.2150   |
| V 292.401  | 0.4394                   | 0.6345   | 0.5659   |
| Zn 206.200 | 5.4234                   | 5.9225   | 6.7681   |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.4182b    | ppb   | 0.0872  | 20.9    | -54.7223   |
| Al 308.215 | 74.0491b    | ppb   | 1.3848  | 1.9     | 640.064    |
| As 188.980 | -2.6116b    | ppb   | 1.7939  | 68.7    | -8.1055    |
| B 249.678  | 13786.6xb   | ppb   | 16.6656 | 0.1     | 187972     |
| Ba 389.178 | 68.6081b    | ppb   | 0.6232  | 0.9     | 1346.74    |
| Be 313.042 | 0.0167b     | ppb   | 0.0042  | 25.3    | -195.758   |
| Ca 370.602 | 133270b     | ppb   | 551.9   | 0.4     | 261708     |
| Cd 226.502 | -0.0012b    | ppb   | 0.2034  | 16785.9 | 35.4774    |
| Co 228.615 | 1.9479b     | ppb   | 0.2549  | 13.1    | 29.0556    |
| Cr 267.716 | 0.0177b     | ppb   | 0.1199  | 676.4   | 27.2615    |
| Cu 324.754 | -0.0650b    | ppb   | 0.3487  | 536.4   | 183.547    |
| Fe 271.441 | 8049.23b    | ppb   | 18.6906 | 0.2     | 12653.0    |
| K 766.491  | 3056.49b    | ppb   | 8.1305  | 0.3     | 103300     |
| Mg 279.078 | 32090.2b    | ppb   | 43.8530 | 0.1     | 68271.5    |
| Mn 257.610 | 3735.15b    | ppb   | 4.2608  | 0.1     | 837056     |
| Mo 202.032 | 0.0669b     | ppb   | 0.5807  | 868.6   | 10.6365    |
| Na 330.237 | 117651xb    | ppb   | 230.352 | 0.2     | 5566.87    |
| Ni 231.604 | 4.8142b     | ppb   | 0.3725  | 7.7     | 9.5534     |
| Pb 220.353 | 1.6076b     | ppb   | 2.1884  | 136.1   | 30.6915    |
| Sb 206.834 | -2.9914b    | ppb   | 5.7797  | 193.2   | -2.1727    |
| Se 196.026 | -3.3568b    | ppb   | 3.1799  | 94.7    | 5.6231     |
| Sn 189.925 | -1.0020b    | ppb   | 2.7789  | 277.3   | -15.3020   |
| Sr 216.596 | 619.883b    | ppb   | 1.0668  | 0.2     | 6537.12    |
| Ti 334.941 | -0.0443b    | ppb   | 0.0470  | 106.0   | 56.6431    |
| Tl 190.794 | 6.1121b     | ppb   | 4.4003  | 72.0    | -7.8483    |
| V 292.401  | 0.5466b     | ppb   | 0.0990  | 18.1    | -5.5804    |
| Zn 206.200 | 6.0380b     | ppb   | 0.6798  | 11.3    | 512.8149   |

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**mb 680-278340/1-a (Samp)**      **5/30/2013, 6:33:20 PM**      **Rack 1, Tube 57**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1699u                 | -0.0442u | -0.2723u |
| Al 308.215 | 4.4977                   | 3.7741   | 3.8884   |
| As 188.980 | 2.6104                   | 3.9058   | -6.1089u |
| B 249.678  | 476.798                  | 439.653  | 412.124  |
| Ba 389.178 | -0.1038u                 | 0.3220   | -0.4470u |
| Be 313.042 | -0.0041u                 | 0.0013   | 0.0104   |
| Ca 370.602 | 24.43                    | 24.22    | 22.50    |
| Cd 226.502 | 0.0609                   | -0.0193u | -0.1783u |
| Co 228.615 | -0.2542u                 | -0.2894u | 0.3034   |
| Cr 267.716 | -0.0821u                 | 0.1688   | -0.1030u |
| Cu 324.754 | 0.1286                   | 0.1000   | -0.4615u |
| Fe 271.441 | 3.7431                   | 2.2448   | 1.3365   |
| K 766.491  | 3.5238                   | 3.5754   | 3.7712   |
| Mg 279.078 | 5.6818                   | 5.0903   | 5.2672   |
| Mn 257.610 | 0.6811                   | 0.5964   | 0.7715   |
| Mo 202.032 | -0.2193u                 | -0.0214u | -0.0919u |
| Na 330.237 | 82.1632                  | 32.8555  | 55.4950  |
| Ni 231.604 | 1.8700                   | -0.6155u | -0.0018u |
| Pb 220.353 | -0.3630u                 | 1.9147   | -1.6020u |
| Sb 206.834 | -3.8549u                 | -0.8229u | -1.9871u |
| Se 196.026 | -0.2364u                 | -1.3000u | -4.7413u |
| Sn 189.925 | -2.3273u                 | 0.6082   | -0.6440u |
| Sr 216.596 | 0.0478                   | 0.0696   | 0.2106   |
| Ti 334.941 | 0.0333                   | 0.0113   | -0.0013u |
| Tl 190.794 | -3.0160u                 | 3.3034   | 4.9509   |
| V 292.401  | 0.2781                   | 0.0010   | 0.3809   |
| Zn 206.200 | -1.0077u                 | 0.4223   | 1.8787   |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.1622     | ppb   | 0.1142  | 70.4    | -25.0884   |
| Al 308.215 | 4.0534      | ppb   | 0.3890  | 9.6     | 207.734    |
| As 188.980 | 0.1357      | ppb   | 5.4467  | 4012.7  | -6.6504    |
| B 249.678  | 442.858     | ppb   | 32.4557 | 7.3     | 6143.11    |
| Ba 389.178 | -0.0762     | ppb   | 0.3852  | 505.2   | -14.4432   |
| Be 313.042 | 0.0025      | ppb   | 0.0073  | 286.8   | -250.305   |
| Ca 370.602 | 23.71       | ppb   | 1.056   | 4.5     | 43.63      |
| Cd 226.502 | -0.0455     | ppb   | 0.1217  | 267.3   | 14.8154    |
| Co 228.615 | -0.0801     | ppb   | 0.3326  | 415.2   | 5.4227     |
| Cr 267.716 | -0.0054     | ppb   | 0.1512  | 2780.0  | 6.8501     |
| Cu 324.754 | -0.0776     | ppb   | 0.3327  | 428.6   | 180.211    |
| Fe 271.441 | 2.4415      | ppb   | 1.2153  | 49.8    | 20.7351    |
| K 766.491  | 3.6235      | ppb   | 0.1305  | 3.6     | 378.074    |
| Mg 279.078 | 5.3465      | ppb   | 0.3036  | 5.7     | 46.7829    |
| Mn 257.610 | 0.6830      | ppb   | 0.0876  | 12.8    | 183.548    |
| Mo 202.032 | -0.1109     | ppb   | 0.1003  | 90.5    | 9.8093     |
| Na 330.237 | 56.8379     | ppb   | 24.6813 | 43.4    | 51.6056    |
| Ni 231.604 | 0.4176      | ppb   | 1.2947  | 310.1   | -2.1515    |
| Pb 220.353 | -0.0168     | ppb   | 1.7837  | 10643.8 | 27.0591    |
| Sb 206.834 | -2.2217     | ppb   | 1.5295  | 68.8    | -1.5967    |
| Se 196.026 | -2.0926     | ppb   | 2.3547  | 112.5   | 5.4446     |
| Sn 189.925 | -0.7877     | ppb   | 1.4730  | 187.0   | -15.2213   |
| Sr 216.596 | 0.1093      | ppb   | 0.0884  | 80.8    | 16.2071    |
| Ti 334.941 | 0.0144      | ppb   | 0.0175  | 121.5   | -54.8298   |
| Tl 190.794 | 1.7461      | ppb   | 4.2056  | 240.9   | -8.8787    |
| V 292.401  | 0.2200      | ppb   | 0.1965  | 89.3    | -13.0420   |
| Zn 206.200 | 0.4311      | ppb   | 1.4432  | 334.8   | 5.5235     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

ics 680-278340/2-a (Samp)      5/30/2013, 6:37:56 PM      Rack 1, Tube 58  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 20.0007                  | 20.0102 | 20.1634 |
| Al 308.215 | 1974.72                  | 1980.66 | 1955.32 |
| As 188.980 | 40.8730                  | 44.0249 | 43.3366 |
| B 249.678  | 308.215                  | 301.500 | 288.841 |
| Ba 389.178 | 41.4832                  | 40.3063 | 40.6153 |
| Be 313.042 | 20.6529                  | 20.7344 | 20.5036 |
| Ca 370.602 | 1969                     | 1971    | 1956    |
| Cd 226.502 | 20.8019                  | 20.7308 | 20.5212 |
| Co 228.615 | 20.6665                  | 20.1318 | 20.6587 |
| Cr 267.716 | 40.8746                  | 40.8905 | 40.4476 |
| Cu 324.754 | 41.2791                  | 41.6169 | 40.6875 |
| Fe 271.441 | 2014.53                  | 2014.87 | 1998.86 |
| K 766.491  | 2093.49                  | 2098.65 | 2073.50 |
| Mg 279.078 | 2046.95                  | 2057.49 | 2025.45 |
| Mn 257.610 | 212.784                  | 213.423 | 211.358 |
| Mo 202.032 | 41.0643                  | 40.1499 | 40.2393 |
| Na 330.237 | 1995.96                  | 2074.09 | 1848.79 |
| Ni 231.604 | 41.3776                  | 41.6559 | 40.9773 |
| Pb 220.353 | 19.6473                  | 20.4170 | 20.1000 |
| Sb 206.834 | 12.7072                  | 16.9577 | 17.2005 |
| Se 196.026 | 43.9877                  | 38.0562 | 33.7345 |
| Sn 189.925 | 80.5799                  | 80.9849 | 78.2593 |
| Sr 216.596 | 40.5039                  | 40.6842 | 39.8126 |
| Ti 334.941 | 39.7096                  | 39.9133 | 39.4258 |
| Tl 190.794 | 15.8923                  | 14.9274 | 14.9776 |
| V 292.401  | 40.8663                  | 41.4344 | 40.9725 |
| Zn 206.200 | 39.0613                  | 40.2768 | 40.6629 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 20.0581     | ppb   | 0.0913  | 0.5  | 1442.17    |
| Al 308.215 | 1970.23     | ppb   | 13.2547 | 0.7  | 12350.3    |
| As 188.980 | 42.7448     | ppb   | 1.6572  | 3.9  | 14.9170    |
| B 249.678  | 299.519     | ppb   | 9.8377  | 3.3  | 4185.92    |
| Ba 389.178 | 40.8016     | ppb   | 0.6102  | 1.5  | 756.786    |
| Be 313.042 | 20.6303     | ppb   | 0.1171  | 0.6  | 36421.4    |
| Ca 370.602 | 1965        | ppb   | 7.885   | 0.4  | 3780       |
| Cd 226.502 | 20.6846     | ppb   | 0.1459  | 0.7  | 703.885    |
| Co 228.615 | 20.4857     | ppb   | 0.3065  | 1.5  | 242.106    |
| Cr 267.716 | 40.7376     | ppb   | 0.2512  | 0.6  | 1891.71    |
| Cu 324.754 | 41.1945     | ppb   | 0.4704  | 1.1  | 2465.24    |
| Fe 271.441 | 2009.42     | ppb   | 9.1487  | 0.5  | 3174.15    |
| K 766.491  | 2088.55     | ppb   | 13.2812 | 0.6  | 70667.7    |
| Mg 279.078 | 2043.30     | ppb   | 16.3303 | 0.8  | 4380.35    |
| Mn 257.610 | 212.521     | ppb   | 1.0571  | 0.5  | 47661.0    |
| Mo 202.032 | 40.4845     | ppb   | 0.5041  | 1.2  | 284.894    |
| Na 330.237 | 1972.95     | ppb   | 114.402 | 5.8  | 140.294    |
| Ni 231.604 | 41.3369     | ppb   | 0.3411  | 0.8  | 105.270    |
| Pb 220.353 | 20.0548     | ppb   | 0.3868  | 1.9  | 56.8797    |
| Sb 206.834 | 15.6218     | ppb   | 2.5270  | 16.2 | 16.0346    |
| Se 196.026 | 38.5928     | ppb   | 5.1476  | 13.3 | 24.2126    |
| Sn 189.925 | 79.9414     | ppb   | 1.4707  | 1.8  | 52.1190    |
| Sr 216.596 | 40.3336     | ppb   | 0.4601  | 1.1  | 438.849    |
| Ti 334.941 | 39.6829     | ppb   | 0.2448  | 0.6  | 10266.6    |
| Tl 190.794 | 15.2657     | ppb   | 0.5432  | 3.6  | -2.3758    |
| V 292.401  | 41.0911     | ppb   | 0.3020  | 0.7  | 976.158    |
| Zn 206.200 | 40.0004     | ppb   | 0.8358  | 2.1  | 56.3735    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

llcs 680-278340/3-a (Samp) 5/30/2013, 6:42:31 PM Rack 1, Tube 59

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 10.4494                  | 10.1124 | 10.0294 |
| Al 308.215 | 206.001                  | 210.947 | 204.627 |
| As 188.980 | 23.8730                  | 15.5798 | 27.0206 |
| B 249.678  | 235.543                  | 231.099 | 226.203 |
| Ba 389.178 | 10.4282                  | 10.1063 | 10.0216 |
| Be 313.042 | 4.1697                   | 4.1746  | 4.1519  |
| Ca 370.602 | 516.5                    | 515.3   | 506.5   |
| Cd 226.502 | 5.2851                   | 5.1327  | 5.3560  |
| Co 228.615 | 10.8747                  | 10.7166 | 10.2792 |
| Cr 267.716 | 10.2314                  | 10.3050 | 10.2283 |
| Cu 324.754 | 20.7831                  | 20.6121 | 20.4113 |
| Fe 271.441 | 52.0547                  | 53.7900 | 53.9409 |
| K 766.491  | 1058.78                  | 1058.69 | 1049.65 |
| Mg 279.078 | 526.108                  | 522.218 | 519.550 |
| Mn 257.610 | 11.2671                  | 11.2543 | 11.2116 |
| Mo 202.032 | 10.2137                  | 10.1794 | 10.3204 |
| Na 330.237 | 901.916                  | 840.885 | 955.171 |
| Ni 231.604 | 43.0780                  | 43.3440 | 42.5183 |
| Pb 220.353 | 7.9897                   | 6.0562  | 7.1735  |
| Sb 206.834 | 11.2983                  | 19.3996 | 16.1275 |
| Se 196.026 | 14.7536                  | 10.8131 | 19.1599 |
| Sn 189.925 | 53.5157                  | 56.4780 | 52.8175 |
| Sr 216.596 | 10.7720                  | 10.2220 | 10.0384 |
| Ti 334.941 | 9.9985                   | 10.0134 | 9.9548  |
| Tl 190.794 | 20.7122                  | 28.8184 | 29.8043 |
| V 292.401  | 11.1213                  | 10.7334 | 10.5548 |
| Zn 206.200 | 18.1066                  | 22.7917 | 20.7229 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 10.1971     | ppb   | 0.2225  | 2.2  | 726.580    |
| Al 308.215 | 207.192     | ppb   | 3.3240  | 1.6  | 1461.13    |
| As 188.980 | 22.1578     | ppb   | 5.9101  | 26.7 | 4.5002     |
| B 249.678  | 230.948     | ppb   | 4.6718  | 2.0  | 3255.18    |
| Ba 389.178 | 10.1854     | ppb   | 0.2145  | 2.1  | 178.651    |
| Be 313.042 | 4.1654      | ppb   | 0.0119  | 0.3  | 7149.90    |
| Ca 370.602 | 512.8       | ppb   | 5.444   | 1.1  | 1006       |
| Cd 226.502 | 5.2579      | ppb   | 0.1141  | 2.2  | 189.980    |
| Co 228.615 | 10.6235     | ppb   | 0.3085  | 2.9  | 128.587    |
| Cr 267.716 | 10.2549     | ppb   | 0.0435  | 0.4  | 481.234    |
| Cu 324.754 | 20.6022     | ppb   | 0.1861  | 0.9  | 1324.64    |
| Fe 271.441 | 53.2619     | ppb   | 1.0481  | 2.0  | 101.883    |
| K 766.491  | 1055.71     | ppb   | 5.2463  | 0.5  | 35847.3    |
| Mg 279.078 | 522.625     | ppb   | 3.2979  | 0.6  | 1147.44    |
| Mn 257.610 | 11.2443     | ppb   | 0.0291  | 0.3  | 2553.72    |
| Mo 202.032 | 10.2378     | ppb   | 0.0735  | 0.7  | 79.9560    |
| Na 330.237 | 899.324     | ppb   | 57.1871 | 6.4  | 90.8175    |
| Ni 231.604 | 42.9801     | ppb   | 0.4215  | 1.0  | 109.563    |
| Pb 220.353 | 7.0731      | ppb   | 0.9707  | 13.7 | 37.5523    |
| Sb 206.834 | 15.6085     | ppb   | 4.0755  | 26.1 | 15.9568    |
| Se 196.026 | 14.9089     | ppb   | 4.1756  | 28.0 | 13.2791    |
| Sn 189.925 | 54.2704     | ppb   | 1.9434  | 3.6  | 30.7050    |
| Sr 216.596 | 10.3441     | ppb   | 0.3818  | 3.7  | 122.811    |
| Ti 334.941 | 9.9889      | ppb   | 0.0305  | 0.3  | 2540.38    |
| Tl 190.794 | 26.4450     | ppb   | 4.9891  | 18.9 | 3.1598     |
| V 292.401  | 10.8032     | ppb   | 0.2896  | 2.7  | 243.134    |
| Zn 206.200 | 20.5404     | ppb   | 2.3479  | 11.4 | 313.903    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90605-a-2-a (Samp) 5/30/2013, 6:47:08 PM Rack 1, Tube 60

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.4066u                 | -0.1923u | 0.1426   |
| Al 308.215 | 7.1769                   | 9.1196   | 7.0531   |
| As 188.980 | 3.8565                   | 3.3856   | -2.1506u |
| B 249.678  | 141.397                  | 137.824  | 136.046  |
| Ba 389.178 | 0.5434                   | 0.5900   | 0.2919   |
| Be 313.042 | 0.0049                   | 0.0107   | -0.0053u |
| Ca 370.602 | 323.1                    | 313.2    | 317.1    |
| Cd 226.502 | 0.1368                   | -0.0571u | 0.0585   |
| Co 228.615 | -0.5002u                 | 0.1168   | -0.5866u |
| Cr 267.716 | -0.0757u                 | 0.1079   | 0.0704   |
| Cu 324.754 | -0.0167u                 | -0.3587u | -0.2950u |
| Fe 271.441 | -2.4241u                 | 2.4944   | 1.3541   |
| K 766.491  | 3146.97                  | 3141.50  | 3133.03  |
| Mg 279.078 | 3051.67                  | 3042.95  | 3052.86  |
| Mn 257.610 | -0.0188                  | 0.0535   | 0.0786   |
| Mo 202.032 | -0.7832u                 | -0.4815u | -0.4853u |
| Na 330.237 | 3336.24                  | 3504.77  | 3487.15  |
| Ni 231.604 | 1.1540                   | 1.7089   | 0.5705   |
| Pb 220.353 | -3.3550u                 | -1.8547u | -2.6193u |
| Sb 206.834 | -2.1640u                 | -0.5874u | -5.2280u |
| Se 196.026 | 0.7449                   | -6.9506u | -1.4090u |
| Sn 189.925 | 0.3395                   | 2.3771   | 3.9030   |
| Sr 216.596 | 1.0446                   | 0.3802   | 0.5521   |
| Ti 334.941 | 0.0141                   | -0.0218  | -0.0584u |
| Tl 190.794 | -0.2286u                 | -1.3884u | 5.7483   |
| V 292.401  | 0.1687                   | 0.1551   | 0.3540   |
| Zn 206.200 | 1.2949                   | -0.1928u | 0.5853   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1521     | ppb   | 0.2768  | 182.0 | -24.4475   |
| Al 308.215 | 7.7832      | ppb   | 1.1590  | 14.9  | 230.764    |
| As 188.980 | 1.6972      | ppb   | 3.3405  | 196.8 | -5.8596    |
| B 249.678  | 138.422     | ppb   | 2.7253  | 2.0   | 1994.37    |
| Ba 389.178 | 0.4751      | ppb   | 0.1604  | 33.8  | 2.2733     |
| Be 313.042 | 0.0034      | ppb   | 0.0081  | 235.6 | -249.175   |
| Ca 370.602 | 317.8       | ppb   | 4.968   | 1.6   | 622.1      |
| Cd 226.502 | 0.0461      | ppb   | 0.0976  | 211.8 | 17.8457    |
| Co 228.615 | -0.3233     | ppb   | 0.3836  | 118.7 | 2.6363     |
| Cr 267.716 | 0.0342      | ppb   | 0.0970  | 283.7 | 8.7357     |
| Cu 324.754 | -0.2235     | ppb   | 0.1819  | 81.4  | 172.126    |
| Fe 271.441 | 0.4748      | ppb   | 2.5744  | 542.2 | 17.6194    |
| K 766.491  | 3140.50     | ppb   | 7.0196  | 0.2   | 106132     |
| Mg 279.078 | 3049.16     | ppb   | 5.4141  | 0.2   | 6524.70    |
| Mn 257.610 | 0.0378      | ppb   | 0.0505  | 133.8 | 62.9977    |
| Mo 202.032 | -0.5833     | ppb   | 0.1731  | 29.7  | 6.6061     |
| Na 330.237 | 3442.72     | ppb   | 92.6325 | 2.7   | 210.471    |
| Ni 231.604 | 1.1445      | ppb   | 0.5693  | 49.7  | -0.2427    |
| Pb 220.353 | -2.6097     | ppb   | 0.7502  | 28.7  | 23.2151    |
| Sb 206.834 | -2.6598     | ppb   | 2.3597  | 88.7  | -2.0212    |
| Se 196.026 | -2.5382     | ppb   | 3.9701  | 156.4 | 5.2392     |
| Sn 189.925 | 2.2065      | ppb   | 1.7879  | 81.0  | -12.7225   |
| Sr 216.596 | 0.6590      | ppb   | 0.3448  | 52.3  | 21.9953    |
| Ti 334.941 | -0.0220     | ppb   | 0.0363  | 164.8 | -51.8078   |
| Tl 190.794 | 1.3771      | ppb   | 3.8297  | 278.1 | -9.0584    |
| V 292.401  | 0.2259      | ppb   | 0.1111  | 49.2  | -12.8192   |
| Zn 206.200 | 0.5625      | ppb   | 0.7441  | 132.3 | 5.6925     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90605-a-2-aSD^5 (Samp) 5/30/2013, 7:00:53 PM Rack 2, Tube 3

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0558u                 | -0.2753u | -0.5497u |
| Al 308.215 | 2.2106                   | 2.8289   | 4.4647   |
| As 188.980 | -4.9368u                 | -3.2528u | -2.5639u |
| B 249.678  | 48.6472                  | 47.4549  | 46.1606  |
| Ba 389.178 | 3.6835                   | 2.8142   | 3.1213   |
| Be 313.042 | -0.0013u                 | 0.0043   | 0.0137   |
| Ca 370.602 | 81.90                    | 84.85    | 78.90    |
| Cd 226.502 | 0.0926                   | 0.0280   | 0.0671   |
| Co 228.615 | -0.2520u                 | 0.0194   | 0.0166   |
| Cr 267.716 | -0.0680u                 | 0.0146   | -0.0031u |
| Cu 324.754 | 0.3493                   | -0.1247u | -0.2013u |
| Fe 271.441 | 2.5835                   | 5.1362   | -2.1310u |
| K 766.491  | 639.705                  | 635.586  | 640.555  |
| Mg 279.078 | 643.250                  | 642.565  | 647.473  |
| Mn 257.610 | 0.0401                   | 0.1020   | 0.2248   |
| Mo 202.032 | -0.5368u                 | 0.0855   | -0.2077u |
| Na 330.237 | 723.518                  | 594.755  | 719.927  |
| Ni 231.604 | 1.2299                   | 2.2658   | 0.7575   |
| Pb 220.353 | -0.4738u                 | -2.4542u | -1.5020u |
| Sb 206.834 | -1.0246u                 | -5.2105u | -6.0354u |
| Se 196.026 | -2.1365u                 | -5.0985u | -0.2106u |
| Sn 189.925 | -0.9547u                 | 4.5970   | 1.3266   |
| Sr 216.596 | -0.1536u                 | 0.6109   | 0.1804   |
| Ti 334.941 | 0.0146                   | 0.0193   | 0.0212   |
| Tl 190.794 | -0.0437u                 | -1.7668u | 0.1215   |
| V 292.401  | 0.1829                   | 0.3562   | 0.5483   |
| Zn 206.200 | 0.1090                   | 0.2370   | -0.8380u |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2936     | ppb   | 0.2474  | 84.3   | -34.6635   |
| Al 308.215 | 3.1681      | ppb   | 1.1647  | 36.8   | 202.231    |
| As 188.980 | -3.5845     | ppb   | 1.2208  | 34.1   | -8.5343    |
| B 249.678  | 47.4209     | ppb   | 1.2437  | 2.6    | 754.228    |
| Ba 389.178 | 3.2063      | ppb   | 0.4408  | 13.7   | 48.2846    |
| Be 313.042 | 0.0055      | ppb   | 0.0076  | 137.1  | -245.050   |
| Ca 370.602 | 81.88       | ppb   | 2.972   | 3.6    | 158.1      |
| Cd 226.502 | 0.0626      | ppb   | 0.0325  | 52.0   | 18.3824    |
| Co 228.615 | -0.0720     | ppb   | 0.1559  | 216.5  | 5.5179     |
| Cr 267.716 | -0.0188     | ppb   | 0.0435  | 231.3  | 6.2381     |
| Cu 324.754 | 0.0078      | ppb   | 0.2983  | 3838.6 | 184.930    |
| Fe 271.441 | 1.8629      | ppb   | 3.6868  | 197.9  | 19.8290    |
| K 766.491  | 638.615     | ppb   | 2.6575  | 0.4    | 21785.7    |
| Mg 279.078 | 644.429     | ppb   | 2.6580  | 0.4    | 1406.90    |
| Mn 257.610 | 0.1223      | ppb   | 0.0940  | 76.9   | 62.9825    |
| Mo 202.032 | -0.2197     | ppb   | 0.3113  | 141.7  | 9.0715     |
| Na 330.237 | 679.400     | ppb   | 73.3264 | 10.8   | 80.8255    |
| Ni 231.604 | 1.4177      | ppb   | 0.7715  | 54.4   | 0.4741     |
| Pb 220.353 | -1.4767     | ppb   | 0.9904  | 67.1   | 24.8945    |
| Sb 206.834 | -4.0902     | ppb   | 2.6867  | 65.7   | -3.4341    |
| Se 196.026 | -2.4819     | ppb   | 2.4622  | 99.2   | 5.2651     |
| Sn 189.925 | 1.6563      | ppb   | 2.7905  | 168.5  | -13.1825   |
| Sr 216.596 | 0.2126      | ppb   | 0.3833  | 180.3  | 17.2751    |
| Ti 334.941 | 0.0184      | ppb   | 0.0034  | 18.5   | -51.1728   |
| Tl 190.794 | -0.5630     | ppb   | 1.0458  | 185.7  | -10.0028   |
| V 292.401  | 0.3625      | ppb   | 0.1828  | 50.4   | -9.5482    |
| Zn 206.200 | -0.1640     | ppb   | 0.5872  | 358.1  | -4.7571    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90605-a-2-aPDS (Samp) 5/30/2013, 7:05:27 PM Rack 2, Tube 4****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 48.7529                  | 49.2954 | 49.8448 |
| Al 308.215 | 1892.44                  | 1934.27 | 1931.63 |
| As 188.980 | 2133.16                  | 2209.95 | 2201.87 |
| B 249.678  | 1066.82                  | 1096.60 | 1100.79 |
| Ba 389.178 | 1970.02                  | 2010.92 | 2002.64 |
| Be 313.042 | 49.0204                  | 50.0360 | 49.8146 |
| Ca 370.602 | 5231                     | 5325    | 5316    |
| Cd 226.502 | 49.7579                  | 51.1943 | 50.5253 |
| Co 228.615 | 507.684                  | 516.705 | 514.710 |
| Cr 267.716 | 197.144                  | 201.766 | 201.172 |
| Cu 324.754 | 245.793                  | 251.076 | 248.503 |
| Fe 271.441 | 989.485                  | 1005.44 | 1007.00 |
| K 766.491  | 8537.31                  | 8634.02 | 8626.83 |
| Mg 279.078 | 8050.82                  | 8236.18 | 8233.96 |
| Mn 257.610 | 511.315                  | 521.848 | 521.033 |
| Mo 202.032 | 515.774                  | 528.485 | 529.187 |
| Na 330.237 | 8710.99                  | 8732.35 | 8592.00 |
| Ni 231.604 | 490.805                  | 505.445 | 502.713 |
| Pb 220.353 | 504.029                  | 520.960 | 513.058 |
| Sb 206.834 | 476.921                  | 486.980 | 489.476 |
| Se 196.026 | 2012.82                  | 2087.40 | 2076.49 |
| Sn 189.925 | 1000.88                  | 1031.08 | 1014.69 |
| Sr 216.596 | 503.942                  | 519.761 | 516.835 |
| Ti 334.941 | 978.749                  | 999.846 | 996.926 |
| Tl 190.794 | 2088.89                  | 2152.61 | 2161.41 |
| V 292.401  | 490.154                  | 501.116 | 499.372 |
| Zn 206.200 | 487.634                  | 500.775 | 501.101 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.2977     | ppb   | 0.5459  | 1.1  | 3548.23    |
| Al 308.215 | 1919.45     | ppb   | 23.4257 | 1.2  | 11963.1    |
| As 188.980 | 2181.66     | ppb   | 42.1984 | 1.9  | 1097.94    |
| B 249.678  | 1088.07     | ppb   | 18.5256 | 1.7  | 14933.9    |
| Ba 389.178 | 1994.53     | ppb   | 21.6259 | 1.1  | 37305.2    |
| Be 313.042 | 49.6237     | ppb   | 0.5340  | 1.1  | 87887.1    |
| Ca 370.602 | 5290        | ppb   | 51.67   | 1.0  | 10691      |
| Cd 226.502 | 50.4925     | ppb   | 0.7188  | 1.4  | 1685.40    |
| Co 228.615 | 513.033     | ppb   | 4.7383  | 0.9  | 5920.52    |
| Cr 267.716 | 200.027     | ppb   | 2.5144  | 1.3  | 9255.72    |
| Cu 324.754 | 248.457     | ppb   | 2.6418  | 1.1  | 13942.5    |
| Fe 271.441 | 1000.64     | ppb   | 9.6922  | 1.0  | 1652.83    |
| K 766.491  | 8599.39     | ppb   | 53.8800 | 0.6  | 290169     |
| Mg 279.078 | 8173.65     | ppb   | 106.385 | 1.3  | 17422.0    |
| Mn 257.610 | 518.066     | ppb   | 5.8603  | 1.1  | 116155     |
| Mo 202.032 | 524.482     | ppb   | 7.5495  | 1.4  | 3565.80    |
| Na 330.237 | 8678.45     | ppb   | 75.6275 | 0.9  | 445.869    |
| Ni 231.604 | 499.654     | ppb   | 7.7847  | 1.6  | 1307.40    |
| Pb 220.353 | 512.682     | ppb   | 8.4720  | 1.7  | 786.069    |
| Sb 206.834 | 484.459     | ppb   | 6.6464  | 1.4  | 473.234    |
| Se 196.026 | 2058.90     | ppb   | 40.2818 | 2.0  | 955.064    |
| Sn 189.925 | 1015.55     | ppb   | 15.1184 | 1.5  | 832.545    |
| Sr 216.596 | 513.512     | ppb   | 8.4166  | 1.6  | 5387.62    |
| Ti 334.941 | 991.841     | ppb   | 11.4310 | 1.2  | 257828     |
| Tl 190.794 | 2134.30     | ppb   | 39.5745 | 1.9  | 1030.13    |
| V 292.401  | 496.881     | ppb   | 5.8903  | 1.2  | 12024.1    |
| Zn 206.200 | 496.504     | ppb   | 7.6826  | 1.5  | 643.791    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90605-a-2-b ms (Samp)**      **5/30/2013, 7:10:02 PM**      **Rack 2, Tube 5**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 20.6470                  | 19.5376 | 20.3535 |
| Al 308.215 | 1975.63                  | 1963.87 | 1974.40 |
| As 188.980 | 42.5230                  | 47.3420 | 48.5501 |
| B 249.678  | 173.660                  | 171.868 | 171.083 |
| Ba 389.178 | 41.6859                  | 40.9594 | 41.2659 |
| Be 313.042 | 20.6487                  | 20.5514 | 20.6253 |
| Ca 370.602 | 2292                     | 2290    | 2282    |
| Cd 226.502 | 20.7341                  | 20.6500 | 20.4808 |
| Co 228.615 | 20.2447                  | 20.4766 | 19.8595 |
| Cr 267.716 | 40.8325                  | 40.8985 | 41.0501 |
| Cu 324.754 | 40.6151                  | 41.1682 | 41.5715 |
| Fe 271.441 | 2014.67                  | 2006.51 | 2012.26 |
| K 766.491  | 5300.41                  | 5281.51 | 5309.31 |
| Mg 279.078 | 5106.34                  | 5084.15 | 5098.57 |
| Mn 257.610 | 212.446                  | 211.347 | 212.061 |
| Mo 202.032 | 40.9391                  | 41.5297 | 40.9594 |
| Na 330.237 | 5715.44                  | 5707.28 | 5648.10 |
| Ni 231.604 | 42.6769                  | 41.4834 | 40.7311 |
| Pb 220.353 | 18.3692                  | 21.3237 | 19.9838 |
| Sb 206.834 | 16.5259                  | 21.5749 | 15.6172 |
| Se 196.026 | 41.2147                  | 32.4515 | 35.9506 |
| Sn 189.925 | 80.3178                  | 78.2491 | 77.1895 |
| Sr 216.596 | 42.2161                  | 40.4047 | 41.9794 |
| Ti 334.941 | 39.6827                  | 39.5643 | 39.7232 |
| Tl 190.794 | 12.9455                  | 14.3386 | 17.1386 |
| V 292.401  | 40.9636                  | 41.4459 | 41.4408 |
| Zn 206.200 | 40.2076                  | 41.8372 | 41.0171 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 20.1794     | ppb   | 0.5749  | 2.8  | 1450.88    |
| Al 308.215 | 1971.30     | ppb   | 6.4658  | 0.3  | 12356.9    |
| As 188.980 | 46.1384     | ppb   | 3.1887  | 6.9  | 16.6354    |
| B 249.678  | 172.204     | ppb   | 1.3209  | 0.8  | 2450.92    |
| Ba 389.178 | 41.3037     | ppb   | 0.3647  | 0.9  | 772.605    |
| Be 313.042 | 20.6085     | ppb   | 0.0508  | 0.2  | 36381.9    |
| Ca 370.602 | 2288        | ppb   | 4.893   | 0.2  | 4414       |
| Cd 226.502 | 20.6216     | ppb   | 0.1290  | 0.6  | 701.816    |
| Co 228.615 | 20.1936     | ppb   | 0.3117  | 1.5  | 238.729    |
| Cr 267.716 | 40.9270     | ppb   | 0.1116  | 0.3  | 1900.53    |
| Cu 324.754 | 41.1183     | ppb   | 0.4801  | 1.2  | 2461.04    |
| Fe 271.441 | 2011.15     | ppb   | 4.1927  | 0.2  | 3176.84    |
| K 766.491  | 5297.08     | ppb   | 14.1991 | 0.3  | 178838     |
| Mg 279.078 | 5096.35     | ppb   | 11.2616 | 0.2  | 10877.9    |
| Mn 257.610 | 211.951     | ppb   | 0.5575  | 0.3  | 47557.4    |
| Mo 202.032 | 41.1427     | ppb   | 0.3353  | 0.8  | 289.356    |
| Na 330.237 | 5690.27     | ppb   | 36.7520 | 0.6  | 314.699    |
| Ni 231.604 | 41.6305     | ppb   | 0.9812  | 2.4  | 106.041    |
| Pb 220.353 | 19.8923     | ppb   | 1.4794  | 7.4  | 56.6377    |
| Sb 206.834 | 17.9060     | ppb   | 3.2097  | 17.9 | 18.2757    |
| Se 196.026 | 36.5389     | ppb   | 4.4111  | 12.1 | 23.2663    |
| Sn 189.925 | 78.5855     | ppb   | 1.5911  | 2.0  | 50.9894    |
| Sr 216.596 | 41.5334     | ppb   | 0.9846  | 2.4  | 451.436    |
| Ti 334.941 | 39.6567     | ppb   | 0.0826  | 0.2  | 10272.3    |
| Tl 190.794 | 14.8076     | ppb   | 2.1355  | 14.4 | -2.5992    |
| V 292.401  | 41.2835     | ppb   | 0.2770  | 0.7  | 980.749    |
| Zn 206.200 | 41.0206     | ppb   | 0.8148  | 2.0  | 5736869    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90605-a-2-c msd (Samp) 5/30/2013, 7:14:48 PM Rack 2, Tube 6****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 20.3047                  | 20.5145 | 20.0429 |
| Al 308.215 | 1958.60                  | 1967.85 | 1962.49 |
| As 188.980 | 40.7558                  | 42.0281 | 39.5098 |
| B 249.678  | 159.497                  | 160.912 | 159.243 |
| Ba 389.178 | 40.6728                  | 41.0475 | 40.8241 |
| Be 313.042 | 20.5291                  | 20.5634 | 20.4679 |
| Ca 370.602 | 2252                     | 2275    | 2271    |
| Cd 226.502 | 20.6783                  | 20.4874 | 20.2938 |
| Co 228.615 | 20.8147                  | 20.3909 | 20.0515 |
| Cr 267.716 | 40.5452                  | 40.7106 | 40.1978 |
| Cu 324.754 | 40.9073                  | 40.8683 | 41.0539 |
| Fe 271.441 | 1995.62                  | 1994.12 | 1992.79 |
| K 766.491  | 5302.90                  | 5315.24 | 5285.40 |
| Mg 279.078 | 5098.41                  | 5107.35 | 5093.35 |
| Mn 257.610 | 210.577                  | 211.751 | 210.480 |
| Mo 202.032 | 40.7853                  | 40.7868 | 40.7416 |
| Na 330.237 | 5765.16                  | 5511.30 | 5523.34 |
| Ni 231.604 | 41.5624                  | 42.0080 | 41.3832 |
| Pb 220.353 | 20.6563                  | 17.5632 | 18.5584 |
| Sb 206.834 | 14.1636                  | 14.0960 | 19.2299 |
| Se 196.026 | 39.3455                  | 36.0164 | 40.0024 |
| Sn 189.925 | 79.2015                  | 83.0023 | 81.9288 |
| Sr 216.596 | 41.1635                  | 41.2255 | 41.0588 |
| Ti 334.941 | 39.3533                  | 39.3907 | 39.2366 |
| Tl 190.794 | 12.8132                  | 20.2781 | 22.2826 |
| V 292.401  | 40.5051                  | 41.2990 | 40.6106 |
| Zn 206.200 | 40.5824                  | 40.2951 | 38.7798 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 20.2873     | ppb   | 0.2363  | 1.2  | 1458.73    |
| Al 308.215 | 1962.98     | ppb   | 4.6433  | 0.2  | 12305.6    |
| As 188.980 | 40.7646     | ppb   | 1.2592  | 3.1  | 13.9143    |
| B 249.678  | 159.884     | ppb   | 0.8992  | 0.6  | 2283.07    |
| Ba 389.178 | 40.8481     | ppb   | 0.1885  | 0.5  | 764.067    |
| Be 313.042 | 20.5201     | ppb   | 0.0484  | 0.2  | 36224.9    |
| Ca 370.602 | 2266        | ppb   | 12.20   | 0.5  | 4372       |
| Cd 226.502 | 20.4865     | ppb   | 0.1922  | 0.9  | 697.314    |
| Co 228.615 | 20.4190     | ppb   | 0.3824  | 1.9  | 241.324    |
| Cr 267.716 | 40.4845     | ppb   | 0.2617  | 0.6  | 1880.06    |
| Cu 324.754 | 40.9431     | ppb   | 0.0978  | 0.2  | 2451.34    |
| Fe 271.441 | 1994.18     | ppb   | 1.4166  | 0.1  | 3150.22    |
| K 766.491  | 5301.18     | ppb   | 14.9932 | 0.3  | 178976     |
| Mg 279.078 | 5099.70     | ppb   | 7.0938  | 0.1  | 10885.1    |
| Mn 257.610 | 210.936     | ppb   | 0.7077  | 0.3  | 47329.9    |
| Mo 202.032 | 40.7712     | ppb   | 0.0256  | 0.1  | 286.839    |
| Na 330.237 | 5599.93     | ppb   | 143.215 | 2.6  | 310.483    |
| Ni 231.604 | 41.6512     | ppb   | 0.3217  | 0.8  | 106.095    |
| Pb 220.353 | 18.9260     | ppb   | 1.5789  | 8.3  | 55.2045    |
| Sb 206.834 | 15.8298     | ppb   | 2.9447  | 18.6 | 16.2327    |
| Se 196.026 | 38.4547     | ppb   | 2.1371  | 5.6  | 24.1489    |
| Sn 189.925 | 81.3775     | ppb   | 1.9595  | 2.4  | 53.3183    |
| Sr 216.596 | 41.1493     | ppb   | 0.0842  | 0.2  | 447.397    |
| Ti 334.941 | 39.3269     | ppb   | 0.0804  | 0.2  | 10186.6    |
| Tl 190.794 | 18.4579     | ppb   | 4.9902  | 27.0 | -0.8207    |
| V 292.401  | 40.8049     | ppb   | 0.4311  | 1.1  | 969.150    |
| Zn 206.200 | 39.8857     | ppb   | 0.9685  | 2.4  | 562266     |

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**680-90612-b-10-a (Samp)**      **5/30/2013, 7:19:23 PM**      **Rack 2, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2261u                 | -0.0500u | -0.3537u |
| Al 308.215 | 17.9243                  | 18.5061  | 18.4198  |
| As 188.980 | 0.4995                   | -6.1492u | -5.2294u |
| B 249.678  | 343.498                  | 344.308  | 343.636  |
| Ba 389.178 | 0.4945                   | 0.1384   | 0.8116   |
| Be 313.042 | 0.0036                   | -0.0058u | 0.0003   |
| Ca 370.602 | 34135                    | 34015    | 33948    |
| Cd 226.502 | -0.1077u                 | 0.1491   | 0.1690   |
| Co 228.615 | 0.3906                   | -0.6158u | 0.1827   |
| Cr 267.716 | 0.4257                   | 0.3310   | 0.3877   |
| Cu 324.754 | 14.9545                  | 15.0373  | 14.8004  |
| Fe 271.441 | 22.6874                  | 24.6995  | 21.9012  |
| K 766.491  | 5207.07                  | 5208.61  | 5206.08  |
| Mg 279.078 | 8847.57                  | 8841.22  | 8822.32  |
| Mn 257.610 | 0.6893                   | 0.6637   | 0.6657   |
| Mo 202.032 | 1.3953                   | 1.3760   | 0.7703   |
| Na 330.237 | 100801x                  | 100759x  | 100781x  |
| Ni 231.604 | 2.4338                   | 4.1376   | 2.8032   |
| Pb 220.353 | -1.3097u                 | -3.2677u | -1.0852u |
| Sb 206.834 | -2.8857u                 | -2.3716u | -3.3991u |
| Se 196.026 | 1.1428                   | 8.4392   | -0.4269u |
| Sn 189.925 | 3.5180                   | 4.1525   | -0.6058u |
| Sr 216.596 | 556.940                  | 554.585  | 553.820  |
| Ti 334.941 | 0.3532                   | 0.3763   | 0.3512   |
| Tl 190.794 | -3.6171u                 | -2.6352u | 2.0318   |
| V 292.401  | 1.3139                   | 1.0079   | 1.0194   |
| Zn 206.200 | 16.8148                  | 15.0160  | 17.1219  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2099b    | ppb   | 0.1525  | 72.6   | -52.6856   |
| Al 308.215 | 18.2834b    | ppb   | 0.3140  | 1.7    | 295.567    |
| As 188.980 | -3.6264b    | ppb   | 3.6026  | 99.3   | -8.5559    |
| B 249.678  | 343.814b    | ppb   | 0.4336  | 0.1    | 4793.35    |
| Ba 389.178 | 0.4815b     | ppb   | 0.3368  | 69.9   | 14.6288    |
| Be 313.042 | -0.0006b    | ppb   | 0.0047  | 751.5  | -256.225   |
| Ca 370.602 | 34033b      | ppb   | 95.23   | 0.3    | 66913      |
| Cd 226.502 | 0.0701b     | ppb   | 0.1543  | 220.0  | 18.2882    |
| Co 228.615 | -0.0142b    | ppb   | 0.5313  | 3749.2 | 6.1599     |
| Cr 267.716 | 0.3815b     | ppb   | 0.0477  | 12.5   | 26.4350    |
| Cu 324.754 | 14.9307b    | ppb   | 0.1203  | 0.8    | 1010.66    |
| Fe 271.441 | 23.0960b    | ppb   | 1.4432  | 6.2    | 53.1750    |
| K 766.491  | 5207.25b    | ppb   | 1.2712  | 0.0    | 175809     |
| Mg 279.078 | 8837.04b    | ppb   | 13.1334 | 0.1    | 18842.6    |
| Mn 257.610 | 0.6729b     | ppb   | 0.0142  | 2.1    | 250.941    |
| Mo 202.032 | 1.1805b     | ppb   | 0.3554  | 30.1   | 18.5631    |
| Na 330.237 | 100780xb    | ppb   | 21.0417 | 0.0    | 4777.33    |
| Ni 231.604 | 3.1249b     | ppb   | 0.8963  | 28.7   | 4.9560     |
| Pb 220.353 | -1.8875b    | ppb   | 1.2005  | 63.6   | 24.2848    |
| Sb 206.834 | -2.8855b    | ppb   | 0.5138  | 17.8   | -2.2619    |
| Se 196.026 | 3.0517b     | ppb   | 4.7313  | 155.0  | 7.8144     |
| Sn 189.925 | 2.3549b     | ppb   | 2.5836  | 109.7  | -12.5502   |
| Sr 216.596 | 555.115b    | ppb   | 1.6264  | 0.3    | 5840.81    |
| Ti 334.941 | 0.3603b     | ppb   | 0.0139  | 3.9    | 64.8910    |
| Tl 190.794 | -1.4068b    | ppb   | 3.0182  | 214.5  | -10.4146   |
| V 292.401  | 1.1137b     | ppb   | 0.1734  | 15.6   | 7.9427     |
| Zn 206.200 | 16.3175b    | ppb   | 1.1376  | 7.0    | 25.9825    |

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**680-90614-a-4-a (Samp)**                      **5/30/2013, 7:24:09 PM**                      **Rack 2, Tube 8**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1949u                 | -0.1803u | -0.2341u |
| Al 308.215 | 62.6411                  | 62.9023  | 66.0735  |
| As 188.980 | 4.3246                   | 0.2969   | -1.7727u |
| B 249.678  | 180.245                  | 178.970  | 182.772  |
| Ba 389.178 | 28.7870                  | 28.4150  | 28.1017  |
| Be 313.042 | 0.0029                   | -0.0034u | 0.0021   |
| Ca 370.602 | 22359                    | 22274    | 22526    |
| Cd 226.502 | -0.0576u                 | 0.1262   | 0.1336   |
| Co 228.615 | -0.1527u                 | 0.3010   | -0.0813u |
| Cr 267.716 | 0.2123                   | 0.0888   | 0.1271   |
| Cu 324.754 | 7.8272                   | 7.9534   | 8.0422   |
| Fe 271.441 | 12.3004                  | -0.5925u | 9.1283   |
| K 766.491  | 2893.29                  | 2890.25  | 2929.36  |
| Mg 279.078 | 12192.9                  | 12114.6  | 12274.6  |
| Mn 257.610 | 0.1539                   | 0.2218   | 0.1755   |
| Mo 202.032 | 1.6763                   | 1.9920   | 1.1597   |
| Na 330.237 | 58575.4                  | 58642.9  | 59520.1  |
| Ni 231.604 | 3.4596                   | 2.9262   | 3.2360   |
| Pb 220.353 | 0.2187                   | -2.7203u | 2.0523   |
| Sb 206.834 | -6.1033u                 | -3.8144u | -0.3639u |
| Se 196.026 | -3.5374u                 | -0.4838u | -8.2130u |
| Sn 189.925 | -0.4926u                 | 4.1287   | 3.0586   |
| Sr 216.596 | 228.281                  | 227.363  | 229.895  |
| Ti 334.941 | -0.1267                  | -0.1308  | -0.1268  |
| Tl 190.794 | -0.7300u                 | 7.1962   | -2.2491u |
| V 292.401  | 2.8222                   | 3.0240   | 3.0801   |
| Zn 206.200 | 9.0816                   | 9.4419   | 8.3570   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2031     | ppb   | 0.0278  | 13.7   | -38.1726   |
| Al 308.215 | 63.8723     | ppb   | 1.9108  | 3.0    | 576.950    |
| As 188.980 | 0.9496      | ppb   | 3.1006  | 326.5  | -6.2382    |
| B 249.678  | 180.662     | ppb   | 1.9351  | 1.1    | 2569.99    |
| Ba 389.178 | 28.4345     | ppb   | 0.3431  | 1.2    | 544.394    |
| Be 313.042 | 0.0005      | ppb   | 0.0034  | 659.5  | -253.688   |
| Ca 370.602 | 22386       | ppb   | 128.2   | 0.6    | 44014      |
| Cd 226.502 | 0.0674      | ppb   | 0.1083  | 160.6  | 18.4026    |
| Co 228.615 | 0.0223      | ppb   | 0.2439  | 1091.9 | 6.5558     |
| Cr 267.716 | 0.1427      | ppb   | 0.0632  | 44.3   | 14.6682    |
| Cu 324.754 | 7.9409      | ppb   | 0.1081  | 1.4    | 623.900    |
| Fe 271.441 | 6.9454      | ppb   | 6.7179  | 96.7   | 27.8374    |
| K 766.491  | 2904.30     | ppb   | 21.7527 | 0.7    | 98169.4    |
| Mg 279.078 | 12194.0     | ppb   | 80.0188 | 0.7    | 25987.0    |
| Mn 257.610 | 0.1837      | ppb   | 0.0347  | 18.9   | 167.845    |
| Mo 202.032 | 1.6093      | ppb   | 0.4202  | 26.1   | 21.4680    |
| Na 330.237 | 58912.8     | ppb   | 527.007 | 0.9    | 2813.01    |
| Ni 231.604 | 3.2073      | ppb   | 0.2679  | 8.4    | 5.1721     |
| Pb 220.353 | -0.1498     | ppb   | 2.4075  | 1607.4 | 26.8591    |
| Sb 206.834 | -3.4272     | ppb   | 2.8892  | 84.3   | -2.8027    |
| Se 196.026 | -4.0781     | ppb   | 3.8928  | 95.5   | 4.5298     |
| Sn 189.925 | 2.2316      | ppb   | 2.4191  | 108.4  | -12.6727   |
| Sr 216.596 | 228.513     | ppb   | 1.2815  | 0.6    | 2414.03    |
| Ti 334.941 | -0.1281     | ppb   | 0.0023  | 1.8    | -45.0601   |
| Tl 190.794 | 1.4057      | ppb   | 5.0719  | 360.8  | -9.0441    |
| V 292.401  | 2.9754      | ppb   | 0.1356  | 4.6    | 53.6077    |
| Zn 206.200 | 8.9602      | ppb   | 0.5525  | 6.2    | 16.5076    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90614-a-3-d (Samp) 5/30/2013, 7:28:46 PM Rack 2, Tube 9

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -0.2112u                 | -0.1802u  | -0.2600u |
| Al 308.215 | 67.3818                  | 73.1093   | 70.2159  |
| As 188.980 | 2.0565                   | -1.7053u  | 2.9974   |
| B 249.678  | 171.966                  | 177.179   | 176.536  |
| Ba 389.178 | 27.2395                  | 29.5618   | 28.8272  |
| Be 313.042 | -0.0071u                 | -0.0045u  | -0.0079u |
| Ca 370.602 | 21829                    | 22485     | 22311    |
| Cd 226.502 | 0.0067                   | 0.0623    | -0.2152u |
| Co 228.615 | -0.2885u                 | -0.5538u  | -0.5129u |
| Cr 267.716 | -0.0401u                 | 0.1816    | 0.0125   |
| Cu 324.754 | 1.8378                   | 1.9850    | 1.8253   |
| Fe 271.441 | 4.7073                   | 6.6084    | 7.2504   |
| K 766.491  | 2858.13                  | 2934.91   | 2915.30  |
| Mg 279.078 | 11891.4                  | 12265.5   | 12205.9  |
| Mn 257.610 | 0.1855                   | 0.1969    | 0.1857   |
| Mo 202.032 | 0.9488                   | 1.7937    | 2.2182   |
| Na 330.237 | 57517.3                  | 59490.2   | 59050.6  |
| Ni 231.604 | 3.8280                   | 2.1846    | 0.4402   |
| Pb 220.353 | -0.5285u                 | 1.4406    | -1.8391u |
| Sb 206.834 | -5.1779u                 | -1.6142u  | -8.0214u |
| Se 196.026 | -1.0798u                 | -7.0322u  | -0.8886u |
| Sn 189.925 | -1.4672u                 | 2.0179    | 0.4800   |
| Sr 216.596 | 222.541                  | 229.315   | 229.131  |
| Ti 334.941 | -0.1145                  | -0.1296   | -0.0862  |
| Tl 190.794 | 3.2569                   | -10.3245u | -0.1907u |
| V 292.401  | 3.1767                   | 3.0423    | 3.0029   |
| Zn 206.200 | 2.1167                   | 1.0392    | 0.3835   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2172     | ppb   | 0.0402  | 18.5  | -39.1023   |
| Al 308.215 | 70.2357     | ppb   | 2.8638  | 4.1   | 616.271    |
| As 188.980 | 1.1162      | ppb   | 2.4884  | 222.9 | -6.1538    |
| B 249.678  | 175.227     | ppb   | 2.8421  | 1.6   | 2495.93    |
| Ba 389.178 | 28.5428     | ppb   | 1.1869  | 4.2   | 546.253    |
| Be 313.042 | -0.0065     | ppb   | 0.0018  | 27.3  | -266.178   |
| Ca 370.602 | 22208       | ppb   | 339.8   | 1.5   | 43664      |
| Cd 226.502 | -0.0488     | ppb   | 0.1468  | 301.1 | 14.5604    |
| Co 228.615 | -0.4517     | ppb   | 0.1428  | 31.6  | 1.0978     |
| Cr 267.716 | 0.0514      | ppb   | 0.1158  | 225.5 | 10.4363    |
| Cu 324.754 | 1.8827      | ppb   | 0.0888  | 4.7   | 288.699    |
| Fe 271.441 | 6.1887      | ppb   | 1.3225  | 21.4  | 26.5942    |
| K 766.491  | 2902.78     | ppb   | 39.8925 | 1.4   | 98118.2    |
| Mg 279.078 | 12120.9     | ppb   | 201.054 | 1.7   | 25831.4    |
| Mn 257.610 | 0.1894      | ppb   | 0.0065  | 3.4   | 168.490    |
| Mo 202.032 | 1.6536      | ppb   | 0.6462  | 39.1  | 21.7681    |
| Na 330.237 | 58686.0     | ppb   | 1035.75 | 1.8   | 2802.48    |
| Ni 231.604 | 2.1509      | ppb   | 1.6942  | 78.8  | 2.3998     |
| Pb 220.353 | -0.3090     | ppb   | 1.6508  | 534.2 | 26.6227    |
| Sb 206.834 | -4.9378     | ppb   | 3.2103  | 65.0  | -4.2914    |
| Se 196.026 | -3.0002     | ppb   | 3.4931  | 116.4 | 5.0264     |
| Sn 189.925 | 0.3436      | ppb   | 1.7465  | 508.4 | -14.2477   |
| Sr 216.596 | 226.996     | ppb   | 3.8586  | 1.7   | 2398.12    |
| Ti 334.941 | -0.1101     | ppb   | 0.0220  | 20.0  | -40.6838   |
| Tl 190.794 | -2.4194     | ppb   | 7.0597  | 291.8 | -10.9073   |
| V 292.401  | 3.0739      | ppb   | 0.0911  | 3.0   | 56.0100    |
| Zn 206.200 | 1.1798      | ppb   | 0.8751  | 74.2  | 64875      |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90614-a-2-b (Samp)                      5/30/2013, 7:33:21 PM                      Rack 2, Tube 10  
 Weight: 1                                      Volume: 1                                      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.4389u                 | -0.1654u | -0.0105u |
| Al 308.215 | 72.0358                  | 71.2107  | 69.6623  |
| As 188.980 | -2.6212u                 | 0.4280   | 0.6141   |
| B 249.678  | 172.534                  | 172.465  | 172.138  |
| Ba 389.178 | 28.7656                  | 28.9389  | 28.3403  |
| Be 313.042 | -0.0019u                 | -0.0062u | -0.0043u |
| Ca 370.602 | 22214                    | 22040    | 22002    |
| Cd 226.502 | 0.1530                   | 0.1114   | 0.2339   |
| Co 228.615 | -0.1982u                 | 0.6093   | 0.4400   |
| Cr 267.716 | 0.4937                   | 0.3496   | 0.4987   |
| Cu 324.754 | 168.727                  | 165.305  | 165.390  |
| Fe 271.441 | 16.4224                  | 5.7485   | 14.3339  |
| K 766.491  | 2876.59                  | 2863.00  | 2867.89  |
| Mg 279.078 | 12080.2                  | 11993.7  | 11948.4  |
| Mn 257.610 | 0.7128                   | 0.7259   | 0.7779   |
| Mo 202.032 | 1.2631                   | 1.9284   | 1.5769   |
| Na 330.237 | 58288.3                  | 58119.3  | 57904.6  |
| Ni 231.604 | 5.0194                   | 4.3333   | 4.5236   |
| Pb 220.353 | 59.6712                  | 59.2455  | 62.1795  |
| Sb 206.834 | -2.1460u                 | -2.1485u | -3.0282u |
| Se 196.026 | -0.7033u                 | -4.1605u | -2.8323u |
| Sn 189.925 | 0.9924                   | 2.8282   | 4.7418   |
| Sr 216.596 | 227.771                  | 224.778  | 224.578  |
| Ti 334.941 | -0.0431                  | -0.0675  | -0.0221  |
| Tl 190.794 | 0.1185                   | -3.0781u | 0.3978   |
| V 292.401  | 3.3489                   | 3.2729   | 3.0451   |
| Zn 206.200 | 317.382                  | 316.967  | 308.814  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2050     | ppb   | 0.2169  | 105.8 | -38.1723   |
| Al 308.215 | 70.9696     | ppb   | 1.2050  | 1.7   | 620.747    |
| As 188.980 | -0.5264     | ppb   | 1.8166  | 345.1 | -6.9856    |
| B 249.678  | 172.379     | ppb   | 0.2117  | 0.1   | 2457.10    |
| Ba 389.178 | 28.6816     | ppb   | 0.3080  | 1.1   | 548.630    |
| Be 313.042 | -0.0041     | ppb   | 0.0022  | 52.2  | -261.911   |
| Ca 370.602 | 22085       | ppb   | 113.0   | 0.5   | 43422      |
| Cd 226.502 | 0.1661      | ppb   | 0.0623  | 37.5  | 21.6709    |
| Co 228.615 | 0.2837      | ppb   | 0.4259  | 150.1 | 9.5682     |
| Cr 267.716 | 0.4474      | ppb   | 0.0847  | 18.9  | 28.7337    |
| Cu 324.754 | 166.474     | ppb   | 1.9519  | 1.2   | 9395.54    |
| Fe 271.441 | 12.1683     | ppb   | 5.6569  | 46.5  | 36.0700    |
| K 766.491  | 2869.16     | ppb   | 6.8864  | 0.2   | 96984.7    |
| Mg 279.078 | 12007.4     | ppb   | 66.9572 | 0.6   | 25589.9    |
| Mn 257.610 | 0.7389      | ppb   | 0.0344  | 4.7   | 290.764    |
| Mo 202.032 | 1.5894      | ppb   | 0.3328  | 20.9  | 21.3324    |
| Na 330.237 | 58104.1     | ppb   | 192.265 | 0.3   | 2770.95    |
| Ni 231.604 | 4.6254      | ppb   | 0.3542  | 7.7   | 8.8948     |
| Pb 220.353 | 60.3654     | ppb   | 1.5854  | 2.6   | 116.579    |
| Sb 206.834 | -2.4409     | ppb   | 0.5086  | 20.8  | -1.8290    |
| Se 196.026 | -2.5654     | ppb   | 1.7440  | 68.0  | 5.2268     |
| Sn 189.925 | 2.8541      | ppb   | 1.8749  | 65.7  | -12.1538   |
| Sr 216.596 | 225.709     | ppb   | 1.7886  | 0.8   | 2384.58    |
| Ti 334.941 | -0.0443     | ppb   | 0.0227  | 51.4  | -23.9632   |
| Tl 190.794 | -0.8539     | ppb   | 1.9312  | 226.2 | -10.1442   |
| V 292.401  | 3.2223      | ppb   | 0.1581  | 4.9   | 59.6236    |
| Zn 206.200 | 314.388     | ppb   | 4.8314  | 392.5 | 519.867    |

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**680-90614-a-1-b (Samp)**      **5/30/2013, 7:37:57 PM**      **Rack 2, Tube 11****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.1739u                 | -0.2412u | -0.2040u  |
| Al 308.215 | 63.7490                  | 66.0287  | 66.9097   |
| As 188.980 | -2.0286u                 | -1.0661u | 2.6876    |
| B 249.678  | 169.881                  | 171.504  | 171.793   |
| Ba 389.178 | 28.5712                  | 29.1755  | 28.5842   |
| Be 313.042 | 0.0016                   | -0.0057u | -0.0077u  |
| Ca 370.602 | 21871                    | 21901    | 21969     |
| Cd 226.502 | -0.0685u                 | 0.1051   | 0.0422    |
| Co 228.615 | 0.3800                   | -0.0753u | -0.1965u  |
| Cr 267.716 | 0.1060                   | 0.1718   | 0.2488    |
| Cu 324.754 | 7.1334                   | 7.1285   | 7.3450    |
| Fe 271.441 | 4.2526                   | 11.9606  | 8.9084    |
| K 766.491  | 2875.25                  | 2887.67  | 2881.27   |
| Mg 279.078 | 11956.0                  | 12030.9  | 12070.8   |
| Mn 257.610 | 0.1309                   | 0.1387   | 0.1634    |
| Mo 202.032 | 1.7141                   | 1.6750   | 1.6503    |
| Na 330.237 | 58050.4                  | 58362.5  | 58263.5   |
| Ni 231.604 | 2.6732                   | 2.1928   | 1.3546    |
| Pb 220.353 | 2.5677                   | 2.1492   | 1.2192    |
| Sb 206.834 | -6.7838u                 | 0.0592   | -7.0517u  |
| Se 196.026 | 1.7120                   | 0.3521   | -10.9117u |
| Sn 189.925 | 5.8914                   | -1.7487u | -1.0786u  |
| Sr 216.596 | 223.402                  | 224.505  | 226.114   |
| Ti 334.941 | -0.1416                  | -0.0752  | -0.1299   |
| Tl 190.794 | -1.9132u                 | 1.9490   | 9.0663    |
| V 292.401  | 2.9399                   | 3.2130   | 3.0707    |
| Zn 206.200 | 19.0208                  | 17.5983  | 16.4066   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2064     | ppb   | 0.0337  | 16.3   | -38.2493   |
| Al 308.215 | 65.5625     | ppb   | 1.6311  | 2.5    | 587.375    |
| As 188.980 | -0.1357     | ppb   | 2.4920  | 1836.7 | -6.7878    |
| B 249.678  | 171.059     | ppb   | 1.0307  | 0.6    | 2439.12    |
| Ba 389.178 | 28.7770     | ppb   | 0.3452  | 1.2    | 550.410    |
| Be 313.042 | -0.0039     | ppb   | 0.0049  | 124.4  | -261.630   |
| Ca 370.602 | 21914       | ppb   | 50.38   | 0.2    | 43085      |
| Cd 226.502 | 0.0263      | ppb   | 0.0879  | 334.7  | 17.0493    |
| Co 228.615 | 0.0361      | ppb   | 0.3039  | 842.5  | 6.7136     |
| Cr 267.716 | 0.1755      | ppb   | 0.0715  | 40.7   | 16.1691    |
| Cu 324.754 | 7.2023      | ppb   | 0.1236  | 1.7    | 583.032    |
| Fe 271.441 | 8.3739      | ppb   | 3.8817  | 46.4   | 30.0824    |
| K 766.491  | 2881.40     | ppb   | 6.2100  | 0.2    | 97397.2    |
| Mg 279.078 | 12019.2     | ppb   | 58.2823 | 0.5    | 25615.0    |
| Mn 257.610 | 0.1444      | ppb   | 0.0170  | 11.8   | 157.570    |
| Mo 202.032 | 1.6798      | ppb   | 0.0322  | 1.9    | 21.9457    |
| Na 330.237 | 58225.4     | ppb   | 159.501 | 0.3    | 2780.65    |
| Ni 231.604 | 2.0735      | ppb   | 0.6673  | 32.2   | 2.1957     |
| Pb 220.353 | 1.9787      | ppb   | 0.6902  | 34.9   | 30.0147    |
| Sb 206.834 | -4.5921     | ppb   | 4.0304  | 87.8   | -3.9501    |
| Se 196.026 | -2.9492     | ppb   | 6.9292  | 234.9  | 5.0498     |
| Sn 189.925 | 1.0214      | ppb   | 4.2309  | 414.2  | -13.6826   |
| Sr 216.596 | 224.674     | ppb   | 1.3639  | 0.6    | 2373.74    |
| Ti 334.941 | -0.1156     | ppb   | 0.0355  | 30.7   | -42.5114   |
| Tl 190.794 | 3.0340      | ppb   | 5.5696  | 183.6  | -8.2512    |
| V 292.401  | 3.0745      | ppb   | 0.1366  | 4.4    | 56.0170    |
| Zn 206.200 | 17.6753     | ppb   | 1.3088  | 7.4    | 27.7317    |

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680-90614-a-5-a (Samp)                      5/30/2013, 7:42:34 PM                      Rack 2, Tube 12  
 Weight: 1    Volume: 1    Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2544u                 | -0.2187u | -0.0181u |
| Al 308.215 | 60.9390                  | 61.9642  | 61.5629  |
| As 188.980 | -2.9330u                 | -2.8083u | 4.8776   |
| B 249.678  | 174.862                  | 173.205  | 175.090  |
| Ba 389.178 | 27.0975                  | 25.9494  | 26.4738  |
| Be 313.042 | -0.0020u                 | 0.0055   | 0.0052   |
| Ca 370.602 | 21061                    | 20869    | 21035    |
| Cd 226.502 | 0.1750                   | -0.2524u | -0.1541u |
| Co 228.615 | -0.4943u                 | -0.1719u | -0.5029u |
| Cr 267.716 | 0.3394                   | -0.0603u | 0.0610   |
| Cu 324.754 | 126.044                  | 124.142  | 124.294  |
| Fe 271.441 | 13.9146                  | 10.1593  | 7.1976   |
| K 766.491  | 2798.19                  | 2772.45  | 2790.02  |
| Mg 279.078 | 11501.9                  | 11376.9  | 11483.2  |
| Mn 257.610 | 0.8226                   | 0.8522   | 0.8356   |
| Mo 202.032 | 2.2184                   | 2.0985   | 1.2984   |
| Na 330.237 | 64707.4                  | 64207.1  | 64361.1  |
| Ni 231.604 | 3.4615                   | 2.6482   | 2.8163   |
| Pb 220.353 | -2.5381u                 | -4.6100u | 1.4379   |
| Sb 206.834 | -7.3630u                 | -2.2604u | -4.3132u |
| Se 196.026 | 7.3177                   | 1.8825   | -3.8541u |
| Sn 189.925 | 4.2699                   | -0.8306u | 1.4525   |
| Sr 216.596 | 214.927                  | 213.733  | 214.789  |
| Ti 334.941 | -0.0345                  | -0.0295  | -0.1484  |
| Tl 190.794 | 3.7113                   | -1.8239u | -0.2219u |
| V 292.401  | 3.1108                   | 2.9631   | 3.0480   |
| Zn 206.200 | 10.6463                  | 10.0919  | 11.6451  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.1637     | ppb   | 0.1274  | 77.8   | -34.6386   |
| Al 308.215 | 61.4887     | ppb   | 0.5166  | 0.8    | 562.244    |
| As 188.980 | -0.2879     | ppb   | 4.4739  | 1553.9 | -6.8650    |
| B 249.678  | 174.385     | ppb   | 1.0289  | 0.6    | 2484.45    |
| Ba 389.178 | 26.5069     | ppb   | 0.5748  | 2.2    | 506.800    |
| Be 313.042 | 0.0029      | ppb   | 0.0042  | 144.4  | -250.439   |
| Ca 370.602 | 20988       | ppb   | 104.5   | 0.5    | 41265      |
| Cd 226.502 | -0.0772     | ppb   | 0.2238  | 290.0  | 13.6005    |
| Co 228.615 | -0.3897     | ppb   | 0.1886  | 48.4   | 1.8063     |
| Cr 267.716 | 0.1133      | ppb   | 0.2049  | 180.8  | 13.4056    |
| Cu 324.754 | 124.827     | ppb   | 1.0570  | 0.8    | 7091.20    |
| Fe 271.441 | 10.4238     | ppb   | 3.3663  | 32.3   | 33.2503    |
| K 766.491  | 2786.89     | ppb   | 13.1527 | 0.5    | 94211.1    |
| Mg 279.078 | 11454.0     | ppb   | 67.4287 | 0.6    | 24412.0    |
| Mn 257.610 | 0.8368      | ppb   | 0.0148  | 1.8    | 308.297    |
| Mo 202.032 | 1.8718      | ppb   | 0.5002  | 26.7   | 23.2472    |
| Na 330.237 | 64425.2     | ppb   | 256.242 | 0.4    | 3071.63    |
| Ni 231.604 | 2.9754      | ppb   | 0.4293  | 14.4   | 4.5641     |
| Pb 220.353 | -1.9034     | ppb   | 3.0735  | 161.5  | 24.2593    |
| Sb 206.834 | -4.6456     | ppb   | 2.5675  | 55.3   | -4.0055    |
| Se 196.026 | 1.7821      | ppb   | 5.5866  | 313.5  | 7.2297     |
| Sn 189.925 | 1.6306      | ppb   | 2.5549  | 156.7  | -13.1727   |
| Sr 216.596 | 214.483     | ppb   | 0.6530  | 0.3    | 2266.74    |
| Ti 334.941 | -0.0708     | ppb   | 0.0673  | 95.0   | -33.6326   |
| Tl 190.794 | 0.5552      | ppb   | 2.8483  | 513.0  | -9.4591    |
| V 292.401  | 3.0406      | ppb   | 0.0741  | 2.4    | 55.1157    |
| Zn 206.200 | 10.7944     | ppb   | 0.7871  | 7.3    | 18.8701    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90709-a-1-a (Samp) 5/30/2013, 7:56:30 PM Rack 2, Tube 15  
 Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.4505                   | 1.3046   | 1.1405   |
| Al 308.215 | 281.042                  | 281.640  | 280.466  |
| As 188.980 | -6.4172u                 | 0.5794   | -0.7244u |
| B 249.678  | 57.7185                  | 58.6958  | 57.3971  |
| Ba 389.178 | 50.0899                  | 49.5080  | 49.9966  |
| Be 313.042 | 0.0114                   | 0.0069   | 0.0223   |
| Ca 370.602 | 29890                    | 29877    | 29822    |
| Cd 226.502 | 0.2502                   | 0.3393   | 0.2154   |
| Co 228.615 | 0.0662                   | -0.3268u | -0.4012u |
| Cr 267.716 | 2.5767                   | 2.8967   | 2.8407   |
| Cu 324.754 | 117.689                  | 117.499  | 117.774  |
| Fe 271.441 | 1054.61                  | 1058.82  | 1042.12  |
| K 766.491  | 10441.5                  | 10471.9  | 10429.8  |
| Mg 279.078 | 8758.63                  | 8780.06  | 8755.37  |
| Mn 257.610 | 15.7931                  | 15.8606  | 15.9207  |
| Mo 202.032 | 3.1108                   | 3.7976   | 3.2684   |
| Na 330.237 | 58154.2                  | 58642.1  | 58134.9  |
| Ni 231.604 | 4.3458                   | 5.7271   | 5.9133   |
| Pb 220.353 | 6.5491                   | 5.5374   | 4.7286   |
| Sb 206.834 | -3.4177u                 | -3.0863u | -1.5126u |
| Se 196.026 | -9.6599u                 | -0.2282u | 3.1928   |
| Sn 189.925 | 0.2026                   | 0.8258   | 1.4062   |
| Sr 216.596 | 193.071                  | 192.673  | 193.900  |
| Ti 334.941 | 62.0491                  | 59.5720  | 60.1024  |
| Tl 190.794 | -3.5577u                 | 0.2681   | 2.8922   |
| V 292.401  | 0.2420                   | 0.5019   | 0.4302   |
| Zn 206.200 | 139.490                  | 137.686  | 138.006  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 1.2985      | ppb   | 0.1551  | 11.9   | 72.4752    |
| Al 308.215 | 281.050     | ppb   | 0.5869  | 0.2    | 1919.34    |
| As 188.980 | -2.1874     | ppb   | 3.7207  | 170.1  | -7.8338    |
| B 249.678  | 57.9371     | ppb   | 0.6764  | 1.2    | 895.572    |
| Ba 389.178 | 49.8648     | ppb   | 0.3125  | 0.6    | 939.090    |
| Be 313.042 | 0.0135      | ppb   | 0.0079  | 58.6   | -228.339   |
| Ca 370.602 | 29863       | ppb   | 35.87   | 0.1    | 58684      |
| Cd 226.502 | 0.2683      | ppb   | 0.0639  | 23.8   | 27.5126    |
| Co 228.615 | -0.2206     | ppb   | 0.2512  | 113.9  | 5.1188     |
| Cr 267.716 | 2.7714      | ppb   | 0.1709  | 6.2    | 136.640    |
| Cu 324.754 | 117.654     | ppb   | 0.1405  | 0.1    | 6694.75    |
| Fe 271.441 | 1051.85     | ppb   | 8.6821  | 0.8    | 1668.12    |
| K 766.491  | 10447.7     | ppb   | 21.7011 | 0.2    | 352483     |
| Mg 279.078 | 8764.69     | ppb   | 13.4139 | 0.2    | 18688.5    |
| Mn 257.610 | 15.8581     | ppb   | 0.0639  | 0.4    | 3655.00    |
| Mo 202.032 | 3.3923      | ppb   | 0.3598  | 10.6   | 33.5124    |
| Na 330.237 | 58310.4     | ppb   | 287.434 | 0.5    | 2782.52    |
| Ni 231.604 | 5.3287      | ppb   | 0.8563  | 16.1   | 10.7633    |
| Pb 220.353 | 5.6050      | ppb   | 0.9122  | 16.3   | 35.4251    |
| Sb 206.834 | -2.6722     | ppb   | 1.0178  | 38.1   | -2.0356    |
| Se 196.026 | -2.2318     | ppb   | 6.6565  | 298.3  | 5.3711     |
| Sn 189.925 | 0.8115      | ppb   | 0.6019  | 74.2   | -13.8542   |
| Sr 216.596 | 193.214     | ppb   | 0.6258  | 0.3    | 2045.39    |
| Ti 334.941 | 60.5745     | ppb   | 1.3043  | 2.2    | 15721.8    |
| Tl 190.794 | -0.1325     | ppb   | 3.2436  | 2448.7 | -9.8304    |
| V 292.401  | 0.3914      | ppb   | 0.1342  | 34.3   | -8.9797    |
| Zn 206.200 | 138.394     | ppb   | 0.9623  | 0.7    | 183.207    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90709-a-3-a (Samp)                      5/30/2013, 8:01:05 PM                      Rack 2, Tube 16  
 Weight: 1                                      Volume: 1                                      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2745                   | 0.1340   | -0.0216u |
| Al 308.215 | 153.710                  | 153.336  | 153.620  |
| As 188.980 | 2.4803                   | 0.0960   | -1.0464u |
| B 249.678  | 50.8485                  | 50.5179  | 50.6833  |
| Ba 389.178 | 27.5618                  | 27.0991  | 26.9587  |
| Be 313.042 | 0.0027u                  | 0.0109   | 0.0124   |
| Ca 370.602 | 22756                    | 22595    | 22691    |
| Cd 226.502 | 0.2690                   | 0.2341   | 0.1148   |
| Co 228.615 | 0.0211                   | -0.0545u | -0.0683u |
| Cr 267.716 | 1.8642                   | 1.7326   | 1.7666   |
| Cu 324.754 | 82.2135                  | 82.0518  | 82.5470  |
| Fe 271.441 | 576.178                  | 578.104  | 579.323  |
| K 766.491  | 10116.4                  | 10060.3  | 10085.3  |
| Mg 279.078 | 6900.19                  | 6870.17  | 6918.83  |
| Mn 257.610 | 14.0877                  | 14.1285  | 14.1914  |
| Mo 202.032 | 5.5967                   | 6.0093   | 5.9576   |
| Na 330.237 | 110396x                  | 109542x  | 110381x  |
| Ni 231.604 | 1.9677                   | 2.5285   | 3.9304   |
| Pb 220.353 | 5.0002                   | 1.1241   | 3.0610   |
| Sb 206.834 | -0.5361u                 | -1.2984u | -0.9715u |
| Se 196.026 | -3.1099u                 | 3.2528   | -1.3828u |
| Sn 189.925 | 2.8988                   | 1.0277   | 0.1338   |
| Sr 216.596 | 145.970                  | 143.215  | 145.544  |
| Ti 334.941 | 20.0835                  | 19.8875  | 20.0065  |
| Tl 190.794 | -6.1622u                 | 10.6134  | 4.3203   |
| V 292.401  | 0.4914                   | 0.7942   | 0.7439   |
| Zn 206.200 | 169.271                  | 173.592  | 170.928  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.1290b     | ppb   | 0.1481  | 114.9 | -10.3315   |
| Al 308.215 | 153.555b    | ppb   | 0.1951  | 0.1   | 1131.70    |
| As 188.980 | 0.5099b     | ppb   | 1.7994  | 352.9 | -6.4657    |
| B 249.678  | 50.6832b    | ppb   | 0.1653  | 0.3   | 797.610    |
| Ba 389.178 | 27.2065b    | ppb   | 0.3156  | 1.2   | 510.934    |
| Be 313.042 | 0.0087b     | ppb   | 0.0052  | 59.9  | -245.190   |
| Ca 370.602 | 22681b      | ppb   | 81.05   | 0.4   | 44571      |
| Cd 226.502 | 0.2059b     | ppb   | 0.0809  | 39.3  | 24.0489    |
| Co 228.615 | -0.0339b    | ppb   | 0.0481  | 142.0 | 6.2707     |
| Cr 267.716 | 1.7878b     | ppb   | 0.0684  | 3.8   | 91.8385    |
| Cu 324.754 | 82.2708b    | ppb   | 0.2525  | 0.3   | 4736.91    |
| Fe 271.441 | 577.868b    | ppb   | 1.5856  | 0.3   | 924.073    |
| K 766.491  | 10087.4b    | ppb   | 28.1044 | 0.3   | 340333     |
| Mg 279.078 | 6896.40b    | ppb   | 24.5523 | 0.4   | 14712.3    |
| Mn 257.610 | 14.1359b    | ppb   | 0.0522  | 0.4   | 3252.86    |
| Mo 202.032 | 5.8545b     | ppb   | 0.2248  | 3.8   | 50.2291    |
| Na 330.237 | 110107xb    | ppb   | 488.896 | 0.4   | 5212.61    |
| Ni 231.604 | 2.8089b     | ppb   | 1.0110  | 36.0  | 4.1382     |
| Pb 220.353 | 3.0618b     | ppb   | 1.9381  | 63.3  | 31.6431    |
| Sb 206.834 | -0.9353b    | ppb   | 0.3825  | 40.9  | -0.3759    |
| Se 196.026 | -0.4133b    | ppb   | 3.2903  | 796.1 | 6.2143     |
| Sn 189.925 | 1.3535b     | ppb   | 1.4110  | 104.3 | -13.3871   |
| Sr 216.596 | 144.910b    | ppb   | 1.4827  | 1.0   | 1537.63    |
| Ti 334.941 | 19.9925b    | ppb   | 0.0987  | 0.5   | 5160.03    |
| Tl 190.794 | 2.9238b     | ppb   | 8.4745  | 289.8 | -8.3274    |
| V 292.401  | 0.6765b     | ppb   | 0.1623  | 24.0  | -3.2962    |
| Zn 206.200 | 171.264b    | ppb   | 2.1799  | 396.3 | 525.538    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90709-a-5-a (Samp) 5/30/2013, 8:05:40 PM Rack 2, Tube 17

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.3529                   | 0.0411u  | 0.4029   |
| Al 308.215 | 339.644                  | 338.829  | 339.310  |
| As 188.980 | -1.1903u                 | 2.9748   | -3.7039u |
| B 249.678  | 68.0214                  | 68.7941  | 68.3561  |
| Ba 389.178 | 52.0338                  | 52.2411  | 53.2760  |
| Be 313.042 | 0.0118                   | 0.0204   | 0.0141   |
| Ca 370.602 | 30537                    | 30560    | 30655    |
| Cd 226.502 | 0.2230                   | 0.2995   | 0.3119   |
| Co 228.615 | 0.5883                   | 0.1575   | 1.0466   |
| Cr 267.716 | 5.2698                   | 5.1684   | 5.3650   |
| Cu 324.754 | 136.569                  | 135.373  | 137.768  |
| Fe 271.441 | 1814.50                  | 1810.60  | 1821.89  |
| K 766.491  | 17074.3                  | 17074.3  | 17147.1  |
| Mg 279.078 | 8850.77                  | 8835.22  | 8865.56  |
| Mn 257.610 | 29.0165                  | 28.9626  | 29.1340  |
| Mo 202.032 | 34.6763                  | 34.5762  | 35.2842  |
| Na 330.237 | 73619.7                  | 73100.5  | 73012.6  |
| Ni 231.604 | 5.5967                   | 5.9137   | 6.4176   |
| Pb 220.353 | 9.8726                   | 12.2445  | 8.5513   |
| Sb 206.834 | -3.1989u                 | -2.5692u | -2.1585u |
| Se 196.026 | -5.5458u                 | -5.4259u | -3.9953u |
| Sn 189.925 | -0.6631u                 | 3.1286   | 5.5077   |
| Sr 216.596 | 180.354                  | 180.636  | 181.344  |
| Ti 334.941 | 20.9303                  | 22.3709  | 23.2828  |
| Tl 190.794 | -2.8719u                 | 1.2587   | 3.7811   |
| V 292.401  | 0.6511                   | 0.8264   | 0.9381   |
| Zn 206.200 | 216.702                  | 214.923  | 215.900  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.2656      | ppb   | 0.1961  | 73.8  | -1.9152    |
| Al 308.215 | 339.261     | ppb   | 0.4096  | 0.1   | 2280.62    |
| As 188.980 | -0.6398     | ppb   | 3.3732  | 527.2 | -7.0626    |
| B 249.678  | 68.3905     | ppb   | 0.3875  | 0.6   | 1036.59    |
| Ba 389.178 | 52.5169     | ppb   | 0.6654  | 1.3   | 989.887    |
| Be 313.042 | 0.0154      | ppb   | 0.0045  | 28.9  | -231.241   |
| Ca 370.602 | 30584       | ppb   | 62.78   | 0.2   | 60051      |
| Cd 226.502 | 0.2781      | ppb   | 0.0481  | 17.3  | 29.6140    |
| Co 228.615 | 0.5975      | ppb   | 0.4446  | 74.4  | 12.8440    |
| Cr 267.716 | 5.2678      | ppb   | 0.0983  | 1.9   | 252.480    |
| Cu 324.754 | 136.570     | ppb   | 1.1977  | 0.9   | 7742.59    |
| Fe 271.441 | 1815.66     | ppb   | 5.7329  | 0.3   | 2867.30    |
| K 766.491  | 17098.6     | ppb   | 42.0603 | 0.2   | 576705     |
| Mg 279.078 | 8850.52     | ppb   | 15.1749 | 0.2   | 18871.0    |
| Mn 257.610 | 29.0377     | ppb   | 0.0876  | 0.3   | 6610.19    |
| Mo 202.032 | 34.8456     | ppb   | 0.3832  | 1.1   | 246.740    |
| Na 330.237 | 73244.3     | ppb   | 328.125 | 0.4   | 3482.09    |
| Ni 231.604 | 5.9760      | ppb   | 0.4140  | 6.9   | 12.4772    |
| Pb 220.353 | 10.2228     | ppb   | 1.8713  | 18.3  | 42.3021    |
| Sb 206.834 | -2.6422     | ppb   | 0.5240  | 19.8  | -2.3581    |
| Se 196.026 | -4.9890     | ppb   | 0.8626  | 17.3  | 4.0945     |
| Sn 189.925 | 2.6577      | ppb   | 3.1122  | 117.1 | -12.3088   |
| Sr 216.596 | 180.778     | ppb   | 0.5101  | 0.3   | 1915.29    |
| Ti 334.941 | 22.1947     | ppb   | 1.1861  | 5.3   | 5743.49    |
| Tl 190.794 | 0.7226      | ppb   | 3.3588  | 464.8 | -9.4466    |
| V 292.401  | 0.8052      | ppb   | 0.1447  | 18.0  | -4.3584    |
| Zn 206.200 | 215.842     | ppb   | 0.8998  | 0.4   | 282.951    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

**90639-A-3 (Samp)**                      **5/30/2013, 8:10:14 PM**                      **Rack 2, Tube 18**  
**Weight: 1**                                      **Volume: 1**                                      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 9.3417                   | 9.4433   | 8.8793   |
| Al 308.215 | 18.8084                  | 21.2707  | 19.7422  |
| As 188.980 | -0.8387u                 | 8.5635   | 0.5488   |
| B 249.678  | 10.8977                  | 10.2065  | 10.5267  |
| Ba 389.178 | 17.2578                  | 15.9829  | 16.6918  |
| Be 313.042 | 0.0043                   | 0.0052   | 0.0073   |
| Ca 370.602 | 5481                     | 5468     | 5457     |
| Cd 226.502 | 0.0895                   | 0.1893   | -0.0292u |
| Co 228.615 | -0.3457u                 | -0.5587u | -0.2747u |
| Cr 267.716 | 0.1088                   | 0.0831   | 0.0525   |
| Cu 324.754 | 384.223                  | 386.543  | 385.173  |
| Fe 271.441 | 41.0291                  | 40.1782  | 40.7742  |
| K 766.491  | 579.174                  | 581.357  | 575.297  |
| Mg 279.078 | 1229.80                  | 1226.12  | 1221.44  |
| Mn 257.610 | 18.9177                  | 18.9438  | 18.8186  |
| Mo 202.032 | 0.1251                   | -0.7122u | -0.1677u |
| Na 330.237 | 7444.46                  | 7498.09  | 7496.49  |
| Ni 231.604 | 1.2649                   | 1.9913   | 2.5765   |
| Pb 220.353 | -0.4099u                 | -0.2599u | 0.3462   |
| Sb 206.834 | -0.8923u                 | -5.4558u | -2.7965u |
| Se 196.026 | -2.3226u                 | 5.2786   | -1.3952u |
| Sn 189.925 | 0.6172                   | 0.1699   | 0.7344   |
| Sr 216.596 | 19.3884                  | 18.8165  | 18.9256  |
| Ti 334.941 | 0.3885                   | 0.3500   | 0.3412   |
| Tl 190.794 | 0.2816                   | 3.8170   | -1.4782u |
| V 292.401  | 0.1220                   | 0.0628   | 0.2575   |
| Zn 206.200 | 18.2195                  | 17.2200  | 18.9515  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 9.2214      | ppb   | 0.3006  | 3.3   | 655.318    |
| Al 308.215 | 19.9404     | ppb   | 1.2431  | 6.2   | 305.910    |
| As 188.980 | 2.7579      | ppb   | 5.0754  | 184.0 | -5.3228    |
| B 249.678  | 10.5437     | ppb   | 0.3459  | 3.3   | 251.608    |
| Ba 389.178 | 16.6442     | ppb   | 0.6388  | 3.8   | 300.829    |
| Be 313.042 | 0.0056      | ppb   | 0.0016  | 28.0  | -243.835   |
| Ca 370.602 | 5468        | ppb   | 12.17   | 0.2   | 10748      |
| Cd 226.502 | 0.0832      | ppb   | 0.1094  | 131.5 | 19.1227    |
| Co 228.615 | -0.3930     | ppb   | 0.1478  | 37.6  | 1.8327     |
| Cr 267.716 | 0.0815      | ppb   | 0.0282  | 34.6  | 11.0777    |
| Cu 324.754 | 385.313     | ppb   | 1.1663  | 0.3   | 21503.9    |
| Fe 271.441 | 40.6605     | ppb   | 0.4367  | 1.1   | 80.6942    |
| K 766.491  | 578.609     | ppb   | 3.0693  | 0.5   | 19762.7    |
| Mg 279.078 | 1225.79     | ppb   | 4.1936  | 0.3   | 2643.86    |
| Mn 257.610 | 18.8934     | ppb   | 0.0661  | 0.3   | 4272.78    |
| Mo 202.032 | -0.2516     | ppb   | 0.4249  | 168.9 | 8.8537     |
| Na 330.237 | 7479.68     | ppb   | 30.5121 | 0.4   | 399.635    |
| Ni 231.604 | 1.9442      | ppb   | 0.6570  | 33.8  | 1.8577     |
| Pb 220.353 | -0.1079     | ppb   | 0.4003  | 371.1 | 26.9295    |
| Sb 206.834 | -3.0482     | ppb   | 2.2922  | 75.2  | -2.4065    |
| Se 196.026 | 0.5203      | ppb   | 4.1468  | 797.0 | 6.6521     |
| Sn 189.925 | 0.5072      | ppb   | 0.2979  | 58.7  | -14.1363   |
| Sr 216.596 | 19.0435     | ppb   | 0.3036  | 1.6   | 215.357    |
| Ti 334.941 | 0.3599      | ppb   | 0.0252  | 7.0   | 39.5586    |
| Tl 190.794 | 0.8734      | ppb   | 2.6968  | 308.7 | -9.3093    |
| V 292.401  | 0.1474      | ppb   | 0.0998  | 67.7  | -14.8288   |
| Zn 206.200 | 18.1303     | ppb   | 0.8692  | 4.8   | 283184     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

mb 680-278383/1-a (Samp) 5/30/2013, 8:15:00 PM Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.2264u                 | -0.0300u  | 0.2288    |
| Al 308.215 | 9.3020                   | 7.3592    | 8.9598    |
| As 188.980 | 2.8272                   | 1.7840    | 2.5558    |
| B 249.678  | 7.0676                   | 6.2147    | 6.2082    |
| Ba 389.178 | 0.3633                   | -0.2754u  | -0.7233u  |
| Be 313.042 | 0.0001                   | -0.0023u  | 0.0014    |
| Ca 370.602 | 20.21                    | 17.98     | 20.12     |
| Cd 226.502 | 0.0005                   | -0.0657u  | 0.0542    |
| Co 228.615 | 0.5703                   | 0.3947    | 0.2377    |
| Cr 267.716 | 0.1276                   | 0.3061    | 0.1605    |
| Cu 324.754 | 0.6490                   | 0.9108    | 0.5190    |
| Fe 271.441 | 13.7439                  | 8.4498    | 8.4905    |
| K 766.491  | 4.8308                   | 4.7566    | 5.0991    |
| Mg 279.078 | 16.7051                  | 16.8141   | 11.3832   |
| Mn 257.610 | 0.1148                   | 0.0752    | 0.0951    |
| Mo 202.032 | -0.0328u                 | 0.1467    | -0.3342u  |
| Na 330.237 | 143.702                  | -52.7129u | 111.928   |
| Ni 231.604 | 1.7644                   | -0.2138u  | 1.1445    |
| Pb 220.353 | -2.3764u                 | 0.4007    | -4.0406u  |
| Sb 206.834 | -8.4969u                 | 0.9746    | -2.8517u  |
| Se 196.026 | -1.2933u                 | -0.5223u  | -10.7098u |
| Sn 189.925 | 5.2067                   | 4.2077    | 5.8525    |
| Sr 216.596 | 0.3862                   | 0.3807    | -0.0201u  |
| Ti 334.941 | 0.1395                   | 0.1573    | 0.1106    |
| Tl 190.794 | 2.0428                   | -6.8906u  | 0.1226    |
| V 292.401  | 0.1315                   | 0.0844    | 0.0263    |
| Zn 206.200 | 0.5615                   | 0.5732    | 0.2250    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0092     | ppb   | 0.2283  | 2483.3 | -13.9976   |
| Al 308.215 | 8.5403      | ppb   | 1.0371  | 12.1   | 235.465    |
| As 188.980 | 2.3890      | ppb   | 0.5412  | 22.7   | -5.5094    |
| B 249.678  | 6.4968      | ppb   | 0.4943  | 7.6    | 196.514    |
| Ba 389.178 | -0.2118     | ppb   | 0.5461  | 257.9  | -16.9526   |
| Be 313.042 | -0.0003     | ppb   | 0.0019  | 698.6  | -255.296   |
| Ca 370.602 | 19.43       | ppb   | 1.260   | 6.5    | 35.05      |
| Cd 226.502 | -0.0037     | ppb   | 0.0601  | 1632.5 | 16.2072    |
| Co 228.615 | 0.4009      | ppb   | 0.1664  | 41.5   | 10.9591    |
| Cr 267.716 | 0.1980      | ppb   | 0.0950  | 48.0   | 16.2589    |
| Cu 324.754 | 0.6929      | ppb   | 0.1996  | 28.8   | 222.851    |
| Fe 271.441 | 10.2281     | ppb   | 3.0448  | 29.8   | 33.0149    |
| K 766.491  | 4.8955      | ppb   | 0.1802  | 3.7    | 420.958    |
| Mg 279.078 | 14.9675     | ppb   | 3.1046  | 20.7   | 67.2675    |
| Mn 257.610 | 0.0950      | ppb   | 0.0198  | 20.8   | 51.9283    |
| Mo 202.032 | -0.0735     | ppb   | 0.2430  | 330.8  | 10.0631    |
| Na 330.237 | 67.6393     | ppb   | 105.432 | 155.9  | 52.1094    |
| Ni 231.604 | 0.8984      | ppb   | 1.0118  | 112.6  | -0.8901    |
| Pb 220.353 | -2.0054     | ppb   | 2.2437  | 111.9  | 24.1105    |
| Sb 206.834 | -3.4580     | ppb   | 4.7647  | 137.8  | -2.8115    |
| Se 196.026 | -4.1751     | ppb   | 5.6723  | 135.9  | 4.4849     |
| Sn 189.925 | 5.0890      | ppb   | 0.8287  | 16.3   | -10.3194   |
| Sr 216.596 | 0.2489      | ppb   | 0.2330  | 93.6   | 17.6607    |
| Ti 334.941 | 0.1358      | ppb   | 0.0235  | 17.3   | -23.2353   |
| Tl 190.794 | -1.5751     | ppb   | 4.7024  | 298.6  | -10.4953   |
| V 292.401  | 0.0807      | ppb   | 0.0527  | 65.2   | -16.4514   |
| Zn 206.200 | 0.4533      | ppb   | 0.1978  | 43.6   | 5.5514     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

ics 680-278383/2-a (Samp)      5/30/2013, 8:19:36 PM      Rack 2, Tube 20  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 53.5391                  | 54.2940 | 54.2730 |
| Al 308.215 | 4852.91                  | 4850.58 | 4886.74 |
| As 188.980 | 104.836                  | 106.589 | 105.289 |
| B 249.678  | 196.362                  | 197.484 | 198.998 |
| Ba 389.178 | 99.7005                  | 97.6262 | 99.7767 |
| Be 313.042 | 51.0081                  | 50.8492 | 51.1432 |
| Ca 370.602 | 4867                     | 4902    | 4938    |
| Cd 226.502 | 50.6035                  | 50.3544 | 51.1438 |
| Co 228.615 | 50.2275                  | 50.8178 | 50.6634 |
| Cr 267.716 | 101.209                  | 101.364 | 101.875 |
| Cu 324.754 | 101.682                  | 101.624 | 101.465 |
| Fe 271.441 | 4918.61                  | 4917.26 | 4928.59 |
| K 766.491  | 4909.86                  | 4894.01 | 4934.55 |
| Mg 279.078 | 4943.55                  | 4932.43 | 4976.48 |
| Mn 257.610 | 519.006                  | 518.413 | 521.433 |
| Mo 202.032 | 100.591                  | 101.416 | 101.448 |
| Na 330.237 | 4916.03                  | 5014.04 | 4993.78 |
| Ni 231.604 | 101.102                  | 99.9850 | 100.673 |
| Pb 220.353 | 51.4882                  | 46.3404 | 53.0759 |
| Sb 206.834 | 45.7646                  | 46.5092 | 39.3049 |
| Se 196.026 | 99.4679                  | 96.2189 | 102.250 |
| Sn 189.925 | 205.902                  | 213.893 | 203.954 |
| Sr 216.596 | 98.9776                  | 99.1076 | 100.360 |
| Ti 334.941 | 98.7021                  | 98.4695 | 99.0508 |
| Tl 190.794 | 35.6873                  | 40.9010 | 32.9855 |
| V 292.401  | 100.110                  | 100.529 | 100.232 |
| Zn 206.200 | 101.010                  | 100.746 | 101.799 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 54.0354     | ppb   | 0.4299  | 0.8  | 3907.81    |
| Al 308.215 | 4863.41     | ppb   | 20.2342 | 0.4  | 30218.0    |
| As 188.980 | 105.571     | ppb   | 0.9097  | 0.9  | 46.7183    |
| B 249.678  | 197.615     | ppb   | 1.3231  | 0.7  | 2791.68    |
| Ba 389.178 | 99.0345     | ppb   | 1.2202  | 1.2  | 1855.51    |
| Be 313.042 | 51.0001     | ppb   | 0.1472  | 0.3  | 90412.3    |
| Ca 370.602 | 4902        | ppb   | 35.76   | 0.7  | 9436       |
| Cd 226.502 | 50.7006     | ppb   | 0.4036  | 0.8  | 1701.62    |
| Co 228.615 | 50.5696     | ppb   | 0.3061  | 0.6  | 588.312    |
| Cr 267.716 | 101.483     | ppb   | 0.3482  | 0.3  | 4701.87    |
| Cu 324.754 | 101.590     | ppb   | 0.1124  | 0.1  | 5809.09    |
| Fe 271.441 | 4921.49     | ppb   | 6.1887  | 0.1  | 7749.70    |
| K 766.491  | 4912.81     | ppb   | 20.4284 | 0.4  | 165883     |
| Mg 279.078 | 4950.82     | ppb   | 22.9074 | 0.5  | 10562.9    |
| Mn 257.610 | 519.617     | ppb   | 1.6004  | 0.3  | 116487     |
| Mo 202.032 | 101.152     | ppb   | 0.4861  | 0.5  | 695.997    |
| Na 330.237 | 4974.61     | ppb   | 51.7413 | 1.0  | 279.314    |
| Ni 231.604 | 100.587     | ppb   | 0.5634  | 0.6  | 260.811    |
| Pb 220.353 | 50.3015     | ppb   | 3.5211  | 7.0  | 101.810    |
| Sb 206.834 | 43.8596     | ppb   | 3.9620  | 9.0  | 43.9247    |
| Se 196.026 | 99.3123     | ppb   | 3.0186  | 3.0  | 52.2214    |
| Sn 189.925 | 207.916     | ppb   | 5.2670  | 2.5  | 158.870    |
| Sr 216.596 | 99.4817     | ppb   | 0.7633  | 0.8  | 1060.29    |
| Ti 334.941 | 98.7408     | ppb   | 0.2925  | 0.3  | 25632.5    |
| Tl 190.794 | 36.5246     | ppb   | 4.0236  | 11.0 | 7.8594     |
| V 292.401  | 100.290     | ppb   | 0.2155  | 0.2  | 2408.61    |
| Zn 206.200 | 101.185     | ppb   | 0.5478  | 0.5  | 135.007    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90686-b-7-a (Samp)**      **5/30/2013, 8:24:11 PM**      **Rack 2, Tube 21****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 8.8432                   | 9.0813   | 9.0587   |
| Al 308.215 | 88085.3                  | 88031.9  | 88176.9  |
| As 188.980 | 237.885                  | 243.641  | 246.356  |
| B 249.678  | 110.927                  | 112.345  | 113.354  |
| Ba 389.178 | 3475.97                  | 3471.16  | 3473.96  |
| Be 313.042 | 10.6855                  | 10.6636  | 10.6879  |
| Ca 370.602 | 132116                   | 131926   | 132116   |
| Cd 226.502 | 25.1469                  | 24.8325  | 25.3695  |
| Co 228.615 | 75.5283                  | 75.2331  | 75.3358  |
| Cr 267.716 | 367.771                  | 367.136  | 368.808  |
| Cu 324.754 | 930.184                  | 940.271  | 941.895  |
| Fe 271.441 | 263758                   | 263606   | 264145   |
| K 766.491  | 11137.0                  | 11138.0  | 11167.8  |
| Mg 279.078 | 28565.6                  | 28530.3  | 28580.5  |
| Mn 257.610 | 11767.1                  | 11772.2  | 11779.4  |
| Mo 202.032 | 22.4668                  | 22.6167  | 22.4806  |
| Na 330.237 | 873.447u                 | 965.190u | 1106.14u |
| Ni 231.604 | 167.037                  | 164.965  | 163.052  |
| Pb 220.353 | 3666.02                  | 3649.25  | 3656.08  |
| Sb 206.834 | 15.9782                  | 16.5494  | 12.1125  |
| Se 196.026 | 15.5252                  | 12.0214  | 11.7124  |
| Sn 189.925 | 217.001                  | 214.847  | 215.801  |
| Sr 216.596 | 647.115                  | 644.647  | 645.270  |
| Ti 334.941 | 1522.12                  | 1523.03  | 1525.81  |
| Tl 190.794 | 19.2913u                 | 21.0445u | 30.4739  |
| V 292.401  | 318.826                  | 318.599  | 319.193  |
| Zn 206.200 | 8260.14                  | 8240.54  | 8259.04  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 8.9944      | ppb   | 0.1314  | 1.5  | 664.104    |
| Al 308.215 | 88098.0     | ppb   | 73.3370 | 0.1  | 544449     |
| As 188.980 | 242.627     | ppb   | 4.3251  | 1.8  | 114.730    |
| B 249.678  | 112.209     | ppb   | 1.2193  | 1.1  | 1136.19    |
| Ba 389.178 | 3473.70     | ppb   | 2.4163  | 0.1  | 65306.5    |
| Be 313.042 | 10.6790     | ppb   | 0.0134  | 0.1  | 18759.5    |
| Ca 370.602 | 132053      | ppb   | 109.6   | 0.1  | 247346     |
| Cd 226.502 | 25.1163     | ppb   | 0.2698  | 1.1  | 1482.43    |
| Co 228.615 | 75.3657     | ppb   | 0.1498  | 0.2  | 917.643    |
| Cr 267.716 | 367.905     | ppb   | 0.8438  | 0.2  | 17128.4    |
| Cu 324.754 | 937.450     | ppb   | 6.3446  | 0.7  | 52137.2    |
| Fe 271.441 | 263836      | ppb   | 277.755 | 0.1  | 414205     |
| K 766.491  | 11147.6     | ppb   | 17.5357 | 0.2  | 376077     |
| Mg 279.078 | 28558.8     | ppb   | 25.7981 | 0.1  | 60646.5    |
| Mn 257.610 | 11772.9     | ppb   | 6.1653  | 0.1  | 2638328    |
| Mo 202.032 | 22.5214     | ppb   | 0.0829  | 0.4  | 150.326    |
| Na 330.237 | 981.593     | ppb   | 117.212 | 11.9 | -93.7108   |
| Ni 231.604 | 165.018     | ppb   | 1.9928  | 1.2  | 435.310    |
| Pb 220.353 | 3657.12     | ppb   | 8.4295  | 0.2  | 5465.83    |
| Sb 206.834 | 14.8800     | ppb   | 2.4137  | 16.2 | 24.2127    |
| Se 196.026 | 13.0863     | ppb   | 2.1178  | 16.2 | 11.9048    |
| Sn 189.925 | 215.883     | ppb   | 1.0794  | 0.5  | 165.559    |
| Sr 216.596 | 645.677     | ppb   | 1.2834  | 0.2  | 7025.56    |
| Ti 334.941 | 1523.65     | ppb   | 1.9242  | 0.1  | 396203     |
| Tl 190.794 | 23.6032     | ppb   | 6.0144  | 25.5 | -8.9713    |
| V 292.401  | 318.872     | ppb   | 0.2997  | 0.1  | 7757.87    |
| Zn 206.200 | 8253.24     | ppb   | 11.0135 | 0.1  | 10635.5    |

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**680-90686-b-7-aSD^5 (Samp) 5/30/2013, 8:28:47 PM Rack 2, Tube 22****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.5693                   | 1.7517   | 1.4135   |
| Al 308.215 | 18119.5                  | 17984.9  | 17648.2  |
| As 188.980 | 52.3389                  | 54.2484  | 39.1477  |
| B 249.678  | 30.2724                  | 28.9725  | 28.2640  |
| Ba 389.178 | 751.676                  | 744.817  | 731.390  |
| Be 313.042 | 2.3020                   | 2.2921   | 2.2326   |
| Ca 370.602 | 28039                    | 27818    | 27373    |
| Cd 226.502 | 5.6812                   | 5.4231   | 5.2799   |
| Co 228.615 | 16.0787                  | 16.8077  | 16.0888  |
| Cr 267.716 | 80.7114                  | 79.7858  | 78.6260  |
| Cu 324.754 | 195.957                  | 195.658  | 189.639  |
| Fe 271.441 | 57193.2                  | 56881.1  | 55866.0  |
| K 766.491  | 2084.55                  | 2066.94  | 2032.18  |
| Mg 279.078 | 6229.96                  | 6189.79  | 6077.93  |
| Mn 257.610 | 2614.79                  | 2599.81  | 2611.29  |
| Mo 202.032 | 4.8747                   | 4.5855   | 5.2502   |
| Na 330.237 | 347.130u                 | 33.1281u | 62.2658u |
| Ni 231.604 | 37.5660                  | 36.2734  | 36.1002  |
| Pb 220.353 | 809.374                  | 804.401  | 794.568  |
| Sb 206.834 | -0.8095                  | -3.9296u | -0.1465  |
| Se 196.026 | 1.2673                   | -1.1806u | -3.5681u |
| Sn 189.925 | 43.7996                  | 47.3720  | 45.6599  |
| Sr 216.596 | 144.058                  | 142.305  | 140.396  |
| Ti 334.941 | 326.785                  | 324.005  | 318.008  |
| Tl 190.794 | 0.4526u                  | 7.4696   | 9.2624   |
| V 292.401  | 69.0085                  | 68.5155  | 67.8924  |
| Zn 206.200 | 1855.58                  | 1853.04  | 1808.37  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 1.5782      | ppb   | 0.1693  | 10.7  | 106.707    |
| Al 308.215 | 17917.5     | ppb   | 242.765 | 1.4   | 110876     |
| As 188.980 | 48.5783     | ppb   | 8.2228  | 16.9  | 17.5686    |
| B 249.678  | 29.1696     | ppb   | 1.0186  | 3.5   | 397.952    |
| Ba 389.178 | 742.628     | ppb   | 10.3187 | 1.4   | 13951.8    |
| Be 313.042 | 2.2756      | ppb   | 0.0375  | 1.6   | 3796.69    |
| Ca 370.602 | 27743       | ppb   | 339.5   | 1.2   | 51907      |
| Cd 226.502 | 5.4614      | ppb   | 0.2034  | 3.7   | 333.365    |
| Co 228.615 | 16.3250     | ppb   | 0.4180  | 2.6   | 203.563    |
| Cr 267.716 | 79.7077     | ppb   | 1.0449  | 1.3   | 3716.58    |
| Cu 324.754 | 193.751     | ppb   | 3.5645  | 1.8   | 10922.7    |
| Fe 271.441 | 56646.7     | ppb   | 693.955 | 1.2   | 88944.7    |
| K 766.491  | 2061.22     | ppb   | 26.6487 | 1.3   | 69746.4    |
| Mg 279.078 | 6165.89     | ppb   | 78.7827 | 1.3   | 13120.7    |
| Mn 257.610 | 2608.63     | ppb   | 7.8350  | 0.3   | 584616     |
| Mo 202.032 | 4.9035      | ppb   | 0.3333  | 6.8   | 41.0310    |
| Na 330.237 | 147.508     | ppb   | 173.491 | 117.6 | 14.4549    |
| Ni 231.604 | 36.6465     | ppb   | 0.8010  | 2.2   | 94.1051    |
| Pb 220.353 | 802.781     | ppb   | 7.5349  | 0.9   | 1220.91    |
| Sb 206.834 | -1.6285     | ppb   | 2.0202  | 124.1 | 0.9188     |
| Se 196.026 | -1.1605     | ppb   | 2.4178  | 208.3 | 5.7781     |
| Sn 189.925 | 45.6105     | ppb   | 1.7867  | 3.9   | 23.4912    |
| Sr 216.596 | 142.253     | ppb   | 1.8315  | 1.3   | 1558.18    |
| Ti 334.941 | 322.933     | ppb   | 4.4855  | 1.4   | 83928.0    |
| Tl 190.794 | 5.7282      | ppb   | 4.6559  | 81.3  | -9.2625    |
| V 292.401  | 68.4721     | ppb   | 0.5593  | 0.8   | 1651.30    |
| Zn 206.200 | 1839.00     | ppb   | 26.5550 | 1.4   | 2373.67    |

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**680-90686-b-7-aPDS (Samp)**      **5/30/2013, 8:33:23 PM**      **Rack 2, Tube 23****Weight: 1****Volume: 1****Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |         |         |
|--------------|---------------------------------|---------|---------|
| Ag 328.068   | 59.7905                         | 58.8603 | 60.2018 |
| Al 308.215   | 87496.4                         | 87121.1 | 87680.9 |
| As 188.980   | 2495.15                         | 2503.30 | 2517.04 |
| B 249.678    | 1156.50                         | 1157.33 | 1169.59 |
| Ba 389.178   | 5341.93                         | 5328.55 | 5336.03 |
| Be 313.042   | 61.6005                         | 61.4961 | 61.7407 |
| Ca 370.602   | 132878                          | 132158  | 132545  |
| Cd 226.502   | 74.7604                         | 75.0575 | 75.4816 |
| Co 228.615   | 582.407                         | 588.958 | 584.886 |
| Cr 267.716   | 560.096                         | 559.700 | 562.701 |
| Cu 324.754   | 1176.37                         | 1183.05 | 1168.32 |
| Fe 271.441   | 255679                          | 254954  | 256610  |
| K 766.491    | 17363.5                         | 16774.9 | 17066.1 |
| Mg 279.078   | 33039.3                         | 32928.3 | 33103.8 |
| Mn 257.610   | 11898.3                         | 11863.4 | 11884.4 |
| Mo 202.032   | 559.798                         | 557.970 | 561.078 |
| Na 330.237   | 6472.30                         | 6309.65 | 6496.65 |
| Ni 231.604   | 668.166                         | 658.252 | 660.454 |
| Pb 220.353   | 4066.17                         | 4033.72 | 4040.10 |
| Sb 206.834   | 513.054                         | 514.638 | 513.639 |
| Se 196.026   | 2159.40                         | 2181.20 | 2196.45 |
| Sn 189.925   | 1235.04                         | 1241.69 | 1231.77 |
| Sr 216.596   | 1142.36                         | 1136.87 | 1142.81 |
| Ti 334.941   | 2439.51                         | 2433.38 | 2449.62 |
| Tl 190.794   | 2076.27                         | 2065.33 | 2096.24 |
| V 292.401    | 816.051                         | 816.299 | 820.705 |
| Zn 206.200   | 8489.91                         | 8443.75 | 8465.71 |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | 59.6175            | ppb          | 0.6873    | 1.2         | 4320.91           |
| Al 308.215   | 87432.8            | ppb          | 285.266   | 0.3         | 540261            |
| As 188.980   | 2505.16            | ppb          | 11.0639   | 0.4         | 1260.40           |
| B 249.678    | 1161.14            | ppb          | 7.3307    | 0.6         | 15446.0           |
| Ba 389.178   | 5335.50            | ppb          | 6.7041    | 0.1         | 100125            |
| Be 313.042   | 61.6124            | ppb          | 0.1227    | 0.2         | 109228            |
| Ca 370.602   | 132527             | ppb          | 360.4     | 0.3         | 248987            |
| Cd 226.502   | 75.0999            | ppb          | 0.3625    | 0.5         | 3112.76           |
| Co 228.615   | 585.417            | ppb          | 3.3073    | 0.6         | 6795.14           |
| Cr 267.716   | 560.832            | ppb          | 1.6307    | 0.3         | 26044.7           |
| Cu 324.754   | 1175.91            | ppb          | 7.3751    | 0.6         | 65339.6           |
| Fe 271.441   | 255748             | ppb          | 829.901   | 0.3         | 401571            |
| K 766.491    | 17068.1            | ppb          | 294.286   | 1.7         | 575679            |
| Mg 279.078   | 33023.8            | ppb          | 88.7406   | 0.3         | 70146.0           |
| Mn 257.610   | 11882.1            | ppb          | 17.5979   | 0.1         | 2662789           |
| Mo 202.032   | 559.615            | ppb          | 1.5619    | 0.3         | 3791.50           |
| Na 330.237   | 6426.20            | ppb          | 101.669   | 1.6         | 157.989           |
| Ni 231.604   | 662.291            | ppb          | 5.2063    | 0.8         | 1739.52           |
| Pb 220.353   | 4046.66            | ppb          | 17.1942   | 0.4         | 6041.66           |
| Sb 206.834   | 513.777            | ppb          | 0.8008    | 0.2         | 510.656           |
| Se 196.026   | 2179.02            | ppb          | 18.6233   | 0.9         | 1009.89           |
| Sn 189.925   | 1236.17            | ppb          | 5.0548    | 0.4         | 1016.62           |
| Sr 216.596   | 1140.68            | ppb          | 3.3055    | 0.3         | 12195.6           |
| Ti 334.941   | 2440.84            | ppb          | 8.2031    | 0.3         | 634663            |
| Tl 190.794   | 2079.28            | ppb          | 15.6694   | 0.8         | 992.976           |
| V 292.401    | 817.685            | ppb          | 2.6180    | 0.3         | 19844.9           |
| Zn 206.200   | 8466.46            | ppb          | 23.0862   | 0.3         | 10909.4           |



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680-90686-b-7-b ms (Samp) 5/30/2013, 8:37:59 PM Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 62.8731                  | 63.8389 | 62.5588 |
| Al 308.215 | 111295                   | 110647  | 110303  |
| As 188.980 | 382.149                  | 378.982 | 377.641 |
| B 249.678  | 307.410                  | 306.130 | 305.223 |
| Ba 389.178 | 3905.51                  | 3892.78 | 3878.48 |
| Be 313.042 | 61.1848                  | 60.9484 | 60.8445 |
| Ca 370.602 | 162562                   | 161939  | 161206  |
| Cd 226.502 | 75.3124                  | 75.2625 | 74.9489 |
| Co 228.615 | 141.863                  | 140.036 | 138.169 |
| Cr 267.716 | 553.496                  | 551.148 | 548.974 |
| Cu 324.754 | 1168.18                  | 1155.16 | 1161.50 |
| Fe 271.441 | 337105                   | 335810  | 334749  |
| K 766.491  | 17789.8                  | 17716.8 | 17680.2 |
| Mg 279.078 | 35967.0                  | 35783.1 | 35679.7 |
| Mn 257.610 | 14178.2                  | 14100.5 | 14046.1 |
| Mo 202.032 | 119.945                  | 119.398 | 117.901 |
| Na 330.237 | 6337.64                  | 6168.71 | 6502.51 |
| Ni 231.604 | 274.887                  | 279.375 | 275.401 |
| Pb 220.353 | 4232.18                  | 4199.64 | 4162.55 |
| Sb 206.834 | 47.2818                  | 34.8865 | 48.2212 |
| Se 196.026 | 106.039                  | 106.027 | 105.109 |
| Sn 189.925 | 399.893                  | 397.012 | 391.445 |
| Sr 216.596 | 780.425                  | 777.131 | 773.434 |
| Ti 334.941 | 1774.42                  | 1767.33 | 1762.19 |
| Tl 190.794 | 71.8314                  | 59.1637 | 61.4511 |
| V 292.401  | 535.930                  | 534.643 | 532.021 |
| Zn 206.200 | 9433.11                  | 9403.59 | 9342.38 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 63.0903     | ppb   | 0.6671  | 1.1  | 4596.67    |
| Al 308.215 | 110748      | ppb   | 504.079 | 0.5  | 684363     |
| As 188.980 | 379.590     | ppb   | 2.3148  | 0.6  | 183.669    |
| B 249.678  | 306.255     | ppb   | 1.0990  | 0.4  | 3643.79    |
| Ba 389.178 | 3892.26     | ppb   | 13.5260 | 0.3  | 73232.0    |
| Be 313.042 | 60.9926     | ppb   | 0.1744  | 0.3  | 108210     |
| Ca 370.602 | 161902      | ppb   | 678.7   | 0.4  | 302606     |
| Cd 226.502 | 75.1746     | ppb   | 0.1971  | 0.3  | 3308.59    |
| Co 228.615 | 140.023     | ppb   | 1.8470  | 1.3  | 1667.78    |
| Cr 267.716 | 551.206     | ppb   | 2.2614  | 0.4  | 25628.6    |
| Cu 324.754 | 1161.61     | ppb   | 6.5121  | 0.6  | 64564.2    |
| Fe 271.441 | 335888      | ppb   | 1179.91 | 0.4  | 527322     |
| K 766.491  | 17728.9     | ppb   | 55.7766 | 0.3  | 597956     |
| Mg 279.078 | 35809.9     | ppb   | 145.524 | 0.4  | 76047.3    |
| Mn 257.610 | 14108.3     | ppb   | 66.3694 | 0.5  | 3161741    |
| Mo 202.032 | 119.081     | ppb   | 1.0579  | 0.9  | 801.276    |
| Na 330.237 | 6336.29     | ppb   | 166.901 | 2.6  | 121.627    |
| Ni 231.604 | 276.554     | ppb   | 2.4560  | 0.9  | 729.485    |
| Pb 220.353 | 4198.12     | ppb   | 34.8358 | 0.8  | 6272.30    |
| Sb 206.834 | 43.4631     | ppb   | 7.4424  | 17.1 | 54.7802    |
| Se 196.026 | 105.725     | ppb   | 0.5334  | 0.5  | 54.2360    |
| Sn 189.925 | 396.117     | ppb   | 4.2946  | 1.1  | 315.911    |
| Sr 216.596 | 776.997     | ppb   | 3.4973  | 0.5  | 8465.08    |
| Ti 334.941 | 1767.98     | ppb   | 6.1410  | 0.3  | 459760     |
| Tl 190.794 | 64.1487     | ppb   | 6.7509  | 10.5 | 8.1131     |
| V 292.401  | 534.198     | ppb   | 1.9922  | 0.4  | 12988.9    |
| Zn 206.200 | 9393.03     | ppb   | 46.2791 | 0.5  | 12103.5    |

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**680-90686-b-7-c msd (Samp) 5/30/2013, 8:51:46 PM Rack 2, Tube 27****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 62.5659                  | 60.7326 | 61.5605 |
| Al 308.215 | 108126                   | 106346  | 105784  |
| As 188.980 | 375.550                  | 372.461 | 367.674 |
| B 249.678  | 287.328                  | 284.438 | 283.807 |
| Ba 389.178 | 3946.40                  | 3860.55 | 3851.30 |
| Be 313.042 | 60.2691                  | 58.9967 | 58.8400 |
| Ca 370.602 | 152364                   | 150117  | 149547  |
| Cd 226.502 | 75.8229                  | 73.4111 | 72.6532 |
| Co 228.615 | 141.097                  | 137.362 | 136.596 |
| Cr 267.716 | 529.818                  | 518.205 | 516.760 |
| Cu 324.754 | 1166.86                  | 1141.03 | 1145.65 |
| Fe 271.441 | 320253                   | 314019  | 312919  |
| K 766.491  | 17682.2                  | 17350.5 | 17310.5 |
| Mg 279.078 | 36526.2                  | 35743.3 | 35630.8 |
| Mn 257.610 | 14579.8                  | 14187.9 | 14199.5 |
| Mo 202.032 | 118.473                  | 115.831 | 116.412 |
| Na 330.237 | 6003.38                  | 6094.73 | 6145.75 |
| Ni 231.604 | 280.487                  | 276.458 | 277.850 |
| Pb 220.353 | 4176.41                  | 4105.31 | 4097.00 |
| Sb 206.834 | 42.0721                  | 39.1830 | 45.0161 |
| Se 196.026 | 98.3849                  | 103.490 | 96.8549 |
| Sn 189.925 | 406.659                  | 395.211 | 386.375 |
| Sr 216.596 | 779.920                  | 764.861 | 763.439 |
| Ti 334.941 | 1780.10                  | 1743.72 | 1739.72 |
| Tl 190.794 | 72.6376                  | 51.7890 | 65.7031 |
| V 292.401  | 462.183                  | 452.846 | 451.318 |
| Zn 206.200 | 9303.81                  | 9103.50 | 9059.83 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 61.6197     | ppb   | 0.9181  | 1.5  | 4490.81    |
| Al 308.215 | 106752      | ppb   | 1222.59 | 1.1  | 659684     |
| As 188.980 | 371.895     | ppb   | 3.9685  | 1.1  | 179.903    |
| B 249.678  | 285.191     | ppb   | 1.8772  | 0.7  | 3394.99    |
| Ba 389.178 | 3886.08     | ppb   | 52.4363 | 1.3  | 73093.6    |
| Be 313.042 | 59.3686     | ppb   | 0.7838  | 1.3  | 105322     |
| Ca 370.602 | 150676      | ppb   | 1490    | 1.0  | 281526     |
| Cd 226.502 | 73.9624     | ppb   | 1.6552  | 2.2  | 3219.96    |
| Co 228.615 | 138.351     | ppb   | 2.4079  | 1.7  | 1647.52    |
| Cr 267.716 | 521.594     | ppb   | 7.1585  | 1.4  | 24256.4    |
| Cu 324.754 | 1151.18     | ppb   | 13.7744 | 1.2  | 63981.1    |
| Fe 271.441 | 315731      | ppb   | 3955.24 | 1.3  | 495678     |
| K 766.491  | 17447.7     | ppb   | 204.037 | 1.2  | 588476     |
| Mg 279.078 | 35966.8     | ppb   | 487.749 | 1.4  | 76375.1    |
| Mn 257.610 | 14322.4     | ppb   | 223.001 | 1.6  | 3209662    |
| Mo 202.032 | 116.905     | ppb   | 1.3884  | 1.2  | 787.605    |
| Na 330.237 | 6081.28     | ppb   | 72.1320 | 1.2  | 118.378    |
| Ni 231.604 | 278.265     | ppb   | 2.0461  | 0.7  | 733.559    |
| Pb 220.353 | 4126.24     | ppb   | 43.6474 | 1.1  | 6164.56    |
| Sb 206.834 | 42.0904     | ppb   | 2.9166  | 6.9  | 52.7337    |
| Se 196.026 | 99.5766     | ppb   | 3.4743  | 3.5  | 51.7007    |
| Sn 189.925 | 396.082     | ppb   | 10.1702 | 2.6  | 315.878    |
| Sr 216.596 | 769.407     | ppb   | 9.1326  | 1.2  | 8366.99    |
| Ti 334.941 | 1754.51     | ppb   | 22.2477 | 1.3  | 456256     |
| Tl 190.794 | 63.3766     | ppb   | 10.6172 | 16.8 | 8.2972     |
| V 292.401  | 455.449     | ppb   | 5.8816  | 1.3  | 11070.1    |
| Zn 206.200 | 9155.71     | ppb   | 130.100 | 1.4  | 51797.8    |

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**680-90686-b-21-a (Samp)**      **5/30/2013, 8:56:21 PM**      **Rack 2, Tube 28**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.2845                   | 2.0627   | 1.2348   |
| Al 308.215 | 85733.7                  | 85544.8  | 85843.0  |
| As 188.980 | 510.894                  | 491.431  | 507.635  |
| B 249.678  | 122.115                  | 121.592  | 122.288  |
| Ba 389.178 | 2130.38                  | 2127.61  | 2124.79  |
| Be 313.042 | 10.0563                  | 10.0495  | 10.0537  |
| Ca 370.602 | 155568                   | 155531   | 155362   |
| Cd 226.502 | 24.3237                  | 24.1604  | 24.6139  |
| Co 228.615 | 92.2936                  | 93.7063  | 92.9552  |
| Cr 267.716 | 399.613                  | 399.674  | 399.688  |
| Cu 324.754 | 1142.79                  | 1142.68  | 1121.55  |
| Fe 271.441 | 403454                   | 401129   | 402681   |
| K 766.491  | 17107.8                  | 17156.0  | 17152.3  |
| Mg 279.078 | 51213.5                  | 51117.3  | 51201.4  |
| Mn 257.610 | 12385.9                  | 12401.1  | 12390.2  |
| Mo 202.032 | 38.7453                  | 37.9635  | 37.9755  |
| Na 330.237 | 1185.15u                 | 1523.21u | 1584.95u |
| Ni 231.604 | 249.733                  | 252.439  | 249.490  |
| Pb 220.353 | 2682.54                  | 2671.40  | 2674.99  |
| Sb 206.834 | 17.9577                  | 11.6734  | 12.3015  |
| Se 196.026 | 13.8501                  | 15.5970  | 21.9427  |
| Sn 189.925 | 980.173                  | 970.936  | 982.213  |
| Sr 216.596 | 445.709                  | 442.737  | 445.517  |
| Ti 334.941 | 1170.16                  | 1170.28  | 1170.70  |
| Tl 190.794 | 27.2355u                 | 22.7385u | 18.4796u |
| V 292.401  | 245.208                  | 245.528  | 245.113  |
| Zn 206.200 | 6803.99                  | 6775.30  | 6781.94  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 1.5274      | ppb   | 0.4643  | 30.4 | 131.955    |
| Al 308.215 | 85707.2     | ppb   | 150.817 | 0.2  | 529690     |
| As 188.980 | 503.320     | ppb   | 10.4245 | 2.1  | 245.610    |
| B 249.678  | 121.998     | ppb   | 0.3622  | 0.3  | 1006.35    |
| Ba 389.178 | 2127.59     | ppb   | 2.7960  | 0.1  | 40341.3    |
| Be 313.042 | 10.0531     | ppb   | 0.0034  | 0.0  | 17650.7    |
| Ca 370.602 | 155487      | ppb   | 109.9   | 0.1  | 286476     |
| Cd 226.502 | 24.3660     | ppb   | 0.2297  | 0.9  | 1792.54    |
| Co 228.615 | 92.9851     | ppb   | 0.7068  | 0.8  | 1116.50    |
| Cr 267.716 | 399.658     | ppb   | 0.0396  | 0.0  | 18630.8    |
| Cu 324.754 | 1135.68     | ppb   | 12.2300 | 1.1  | 63151.8    |
| Fe 271.441 | 402421      | ppb   | 1184.23 | 0.3  | 631759     |
| K 766.491  | 17138.7     | ppb   | 26.8553 | 0.2  | 578057     |
| Mg 279.078 | 51177.4     | ppb   | 52.3857 | 0.1  | 108800     |
| Mn 257.610 | 12392.4     | ppb   | 7.7948  | 0.1  | 2777653    |
| Mo 202.032 | 38.2281     | ppb   | 0.4480  | 1.2  | 250.450    |
| Na 330.237 | 1431.10     | ppb   | 215.231 | 15.0 | -89.6183   |
| Ni 231.604 | 250.554     | ppb   | 1.6372  | 0.7  | 662.699    |
| Pb 220.353 | 2676.31     | ppb   | 5.6833  | 0.2  | 4020.72    |
| Sb 206.834 | 13.9775     | ppb   | 3.4612  | 24.8 | 26.6694    |
| Se 196.026 | 17.1299     | ppb   | 4.2585  | 24.9 | 12.2071    |
| Sn 189.925 | 977.774     | ppb   | 6.0091  | 0.6  | 801.085    |
| Sr 216.596 | 444.654     | ppb   | 1.6636  | 0.4  | 5037.60    |
| Ti 334.941 | 1170.38     | ppb   | 0.2852  | 0.0  | 304470     |
| Tl 190.794 | 22.8179     | ppb   | 4.3785  | 19.2 | -13.8282   |
| V 292.401  | 245.283     | ppb   | 0.2174  | 0.1  | 5954.96    |
| Zn 206.200 | 6787.08     | ppb   | 15.0187 | 0.2  | 8748.36    |

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680-90686-b-27-a (Samp) 5/30/2013, 9:00:56 PM Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 8.9390                   | 8.9780   | 8.9733   |
| Al 308.215 | 96736.7                  | 96951.9  | 96935.6  |
| As 188.980 | 235.756                  | 238.583  | 231.097  |
| B 249.678  | 56.9827u                 | 57.5163u | 55.8245u |
| Ba 389.178 | 1895.22                  | 1905.08  | 1899.44  |
| Be 313.042 | 10.3775                  | 10.4191  | 10.4198  |
| Ca 370.602 | 89278                    | 89568    | 89453    |
| Cd 226.502 | 11.5336                  | 11.0768  | 11.2644  |
| Co 228.615 | 106.456                  | 106.707  | 107.143  |
| Cr 267.716 | 295.760                  | 297.275  | 296.550  |
| Cu 324.754 | 1525.39                  | 1537.35  | 1522.37  |
| Fe 271.441 | 424090                   | 425422   | 425751   |
| K 766.491  | 6736.25                  | 6728.05  | 6758.37  |
| Mg 279.078 | 30328.8                  | 30416.6  | 30387.8  |
| Mn 257.610 | 15812.2                  | 15879.8  | 15877.8  |
| Mo 202.032 | 17.8393                  | 18.4106  | 18.7256  |
| Na 330.237 | 1453.46u                 | 1440.01u | 1393.04u |
| Ni 231.604 | 120.145                  | 120.970  | 119.383  |
| Pb 220.353 | 1821.81                  | 1821.71  | 1827.73  |
| Sb 206.834 | 5.6199                   | 11.5771  | 1.5873   |
| Se 196.026 | 9.8144                   | 8.9677   | 12.1553  |
| Sn 189.925 | 104.686                  | 106.422  | 101.703  |
| Sr 216.596 | 271.593                  | 271.478  | 273.109  |
| Ti 334.941 | 1287.66                  | 1291.94  | 1291.13  |
| Tl 190.794 | 34.2635                  | 23.4871u | 28.7511u |
| V 292.401  | 494.060                  | 494.765  | 495.875  |
| Zn 206.200 | 4979.06                  | 5005.43  | 4980.35  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 8.9634      | ppb   | 0.0213  | 0.2  | 696.416    |
| Al 308.215 | 96874.8     | ppb   | 119.843 | 0.1  | 598646     |
| As 188.980 | 235.145     | ppb   | 3.7806  | 1.6  | 109.721    |
| B 249.678  | 56.7745     | ppb   | 0.8649  | 1.5  | 74.4594    |
| Ba 389.178 | 1899.91     | ppb   | 4.9501  | 0.3  | 36066.3    |
| Be 313.042 | 10.4054     | ppb   | 0.0242  | 0.2  | 18250.5    |
| Ca 370.602 | 89433       | ppb   | 146.3   | 0.2  | 155582     |
| Cd 226.502 | 11.2916     | ppb   | 0.2296  | 2.0  | 1415.46    |
| Co 228.615 | 106.769     | ppb   | 0.3472  | 0.3  | 1279.47    |
| Cr 267.716 | 296.528     | ppb   | 0.7582  | 0.3  | 13879.8    |
| Cu 324.754 | 1528.37     | ppb   | 7.9223  | 0.5  | 84883.7    |
| Fe 271.441 | 425088      | ppb   | 879.247 | 0.2  | 667344     |
| K 766.491  | 6740.89     | ppb   | 15.6833 | 0.2  | 227513     |
| Mg 279.078 | 30377.7     | ppb   | 44.7674 | 0.1  | 64478.5    |
| Mn 257.610 | 15856.6     | ppb   | 38.4670 | 0.2  | 3553601    |
| Mo 202.032 | 18.3251     | ppb   | 0.4493  | 2.5  | 113.997    |
| Na 330.237 | 1428.84     | ppb   | 31.7239 | 2.2  | -72.0417   |
| Ni 231.604 | 120.166     | ppb   | 0.7937  | 0.7  | 320.845    |
| Pb 220.353 | 1823.75     | ppb   | 3.4492  | 0.2  | 2758.59    |
| Sb 206.834 | 6.2614      | ppb   | 5.0257  | 80.3 | 18.7721    |
| Se 196.026 | 10.3125     | ppb   | 1.6512  | 16.0 | 9.5851     |
| Sn 189.925 | 104.271     | ppb   | 2.3866  | 2.3  | 72.4365    |
| Sr 216.596 | 272.060     | ppb   | 0.9101  | 0.3  | 3242.61    |
| Ti 334.941 | 1290.24     | ppb   | 2.2717  | 0.2  | 335546     |
| Tl 190.794 | 28.8339     | ppb   | 5.3887  | 18.7 | -12.3074   |
| V 292.401  | 494.900     | ppb   | 0.9152  | 0.2  | 12051.2    |
| Zn 206.200 | 4988.28     | ppb   | 14.8637 | 0.3  | 6432.22    |

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680-90686-a-32-a (Samp) 5/30/2013, 9:05:31 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 13.6949                  | 14.0877  | 14.4350  |
| Al 308.215 | 127446                   | 127556   | 127688   |
| As 188.980 | 365.415                  | 361.258  | 361.347  |
| B 249.678  | 145.713                  | 146.044  | 146.483  |
| Ba 389.178 | 4947.77                  | 4938.31  | 4946.09  |
| Be 313.042 | 15.3358                  | 15.3552  | 15.3699  |
| Ca 370.602 | 192640                   | 190385   | 192109   |
| Cd 226.502 | 38.2151                  | 38.4594  | 38.6204  |
| Co 228.615 | 109.125                  | 109.095  | 111.302  |
| Cr 267.716 | 550.757                  | 551.415  | 552.533  |
| Cu 324.754 | 1383.77                  | 1392.97  | 1380.97  |
| Fe 271.441 | 383335                   | 383778   | 384845   |
| K 766.491  | 17169.5                  | 17238.3  | 17258.3  |
| Mg 279.078 | 40588.5                  | 40548.1  | 40692.0  |
| Mn 257.610 | 16575.4                  | 16607.9  | 16727.9  |
| Mo 202.032 | 34.6773                  | 35.7637  | 35.3322  |
| Na 330.237 | 1361.92u                 | 1423.88u | 1466.22u |
| Ni 231.604 | 239.284                  | 239.206  | 243.809  |
| Pb 220.353 | 5312.59                  | 5302.74  | 5331.46  |
| Sb 206.834 | 20.1327                  | 18.2537  | 21.6846  |
| Se 196.026 | 6.3785                   | 16.2317  | 13.6514  |
| Sn 189.925 | 272.554                  | 267.030  | 273.742  |
| Sr 216.596 | 943.919                  | 942.408  | 951.168  |
| Ti 334.941 | 1988.12                  | 1984.81  | 1988.34  |
| Tl 190.794 | 26.4580u                 | 25.6883u | 31.6786u |
| V 292.401  | 460.236                  | 460.371  | 461.288  |
| Zn 206.200 | 11773.0                  | 11779.5  | 11844.2  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 14.0725     | ppb   | 0.3703  | 2.6  | 1041.27    |
| Al 308.215 | 127563      | ppb   | 120.878 | 0.1  | 788264     |
| As 188.980 | 362.674     | ppb   | 2.3748  | 0.7  | 174.871    |
| B 249.678  | 146.080     | ppb   | 0.3860  | 0.3  | 1369.52    |
| Ba 389.178 | 4944.06     | ppb   | 5.0472  | 0.1  | 92965.0    |
| Be 313.042 | 15.3536     | ppb   | 0.0171  | 0.1  | 27082.9    |
| Ca 370.602 | 191711      | ppb   | 1179    | 0.6  | 358960     |
| Cd 226.502 | 38.4317     | ppb   | 0.2041  | 0.5  | 2212.23    |
| Co 228.615 | 109.841     | ppb   | 1.2658  | 1.2  | 1329.31    |
| Cr 267.716 | 551.569     | ppb   | 0.8977  | 0.2  | 25668.3    |
| Cu 324.754 | 1385.91     | ppb   | 6.2795  | 0.5  | 76988.5    |
| Fe 271.441 | 383986      | ppb   | 775.892 | 0.2  | 602823     |
| K 766.491  | 17222.0     | ppb   | 46.6002 | 0.3  | 580867     |
| Mg 279.078 | 40609.5     | ppb   | 74.1842 | 0.2  | 86224.7    |
| Mn 257.610 | 16637.1     | ppb   | 80.3108 | 0.5  | 3728411    |
| Mo 202.032 | 35.2577     | ppb   | 0.5470  | 1.6  | 230.793    |
| Na 330.237 | 1417.34     | ppb   | 52.4559 | 3.7  | -155.535   |
| Ni 231.604 | 240.766     | ppb   | 2.6354  | 1.1  | 636.602    |
| Pb 220.353 | 5315.59     | ppb   | 14.5963 | 0.3  | 7932.31    |
| Sb 206.834 | 20.0236     | ppb   | 1.7181  | 8.6  | 33.4642    |
| Se 196.026 | 12.0872     | ppb   | 5.1095  | 42.3 | 11.0879    |
| Sn 189.925 | 271.109     | ppb   | 3.5818  | 1.3  | 211.647    |
| Sr 216.596 | 945.832     | ppb   | 4.6828  | 0.5  | 10282.2    |
| Ti 334.941 | 1987.09     | ppb   | 1.9758  | 0.1  | 516749     |
| Tl 190.794 | 27.9416     | ppb   | 3.2591  | 11.7 | -11.6406   |
| V 292.401  | 460.632     | ppb   | 0.5725  | 0.1  | 11210.6    |
| Zn 206.200 | 11798.9     | ppb   | 39.3668 | 0.3  | 15202.5    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90686-a-33-a (Samp) 5/30/2013, 9:10:06 PM Rack 2, Tube 31

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.9538                   | 2.3661   | 1.6240   |
| Al 308.215 | 96961.3                  | 97828.6  | 97934.3  |
| As 188.980 | 584.854                  | 598.136  | 589.245  |
| B 249.678  | 136.950                  | 139.239  | 138.465  |
| Ba 389.178 | 2557.27                  | 2575.01  | 2592.04  |
| Be 313.042 | 13.5112                  | 13.6416  | 13.6991  |
| Ca 370.602 | 222409                   | 222823   | 222709   |
| Cd 226.502 | 30.6110                  | 31.3681  | 31.3717  |
| Co 228.615 | 98.0573                  | 99.7699  | 100.152  |
| Cr 267.716 | 493.589                  | 498.582  | 500.233  |
| Cu 324.754 | 1335.69                  | 1346.00  | 1379.48  |
| Fe 271.441 | 356049                   | 358708   | 360791   |
| K 766.491  | 18292.1                  | 18387.0  | 18437.9  |
| Mg 279.078 | 72985.3                  | 73474.6  | 73818.6  |
| Mn 257.610 | 13844.7                  | 13938.4  | 14019.5  |
| Mo 202.032 | 35.2773                  | 35.4270  | 35.6923  |
| Na 330.237 | 1675.32u                 | 1315.31u | 1305.43u |
| Ni 231.604 | 243.196                  | 245.149  | 243.669  |
| Pb 220.353 | 3478.07                  | 3507.92  | 3511.60  |
| Sb 206.834 | 9.9858                   | 17.4476  | 11.9250  |
| Se 196.026 | 2.1956u                  | 21.1779  | 13.9394  |
| Sn 189.925 | 159.060                  | 162.905  | 161.677  |
| Sr 216.596 | 558.461                  | 563.317  | 565.633  |
| Ti 334.941 | 1383.86                  | 1398.88  | 1405.00  |
| Tl 190.794 | 44.1654                  | 26.4017u | 25.9375u |
| V 292.401  | 304.412                  | 306.179  | 308.214  |
| Zn 206.200 | 8488.38                  | 8576.47  | 8562.23  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 1.9813      | ppb   | 0.3718  | 18.8 | 166.862    |
| Al 308.215 | 97574.7     | ppb   | 533.878 | 0.5  | 603004     |
| As 188.980 | 590.745     | ppb   | 6.7667  | 1.1  | 290.328    |
| B 249.678  | 138.218     | ppb   | 1.1644  | 0.8  | 1310.83    |
| Ba 389.178 | 2574.78     | ppb   | 17.3865 | 0.7  | 48700.2    |
| Be 313.042 | 13.6173     | ppb   | 0.0963  | 0.7  | 24009.3    |
| Ca 370.602 | 222647      | ppb   | 214.0   | 0.1  | 420801     |
| Cd 226.502 | 31.1169     | ppb   | 0.4381  | 1.4  | 1909.56    |
| Co 228.615 | 99.3264     | ppb   | 1.1156  | 1.1  | 1194.02    |
| Cr 267.716 | 497.468     | ppb   | 3.4592  | 0.7  | 23149.8    |
| Cu 324.754 | 1353.72     | ppb   | 22.8932 | 1.7  | 75201.2    |
| Fe 271.441 | 358516      | ppb   | 2376.96 | 0.7  | 562837     |
| K 766.491  | 18372.3     | ppb   | 73.9760 | 0.4  | 619647     |
| Mg 279.078 | 73426.2     | ppb   | 418.773 | 0.6  | 156114     |
| Mn 257.610 | 13934.2     | ppb   | 87.4957 | 0.6  | 3123100    |
| Mo 202.032 | 35.4655     | ppb   | 0.2102  | 0.6  | 233.672    |
| Na 330.237 | 1432.02     | ppb   | 210.759 | 14.7 | -101.939   |
| Ni 231.604 | 244.005     | ppb   | 1.0189  | 0.4  | 644.585    |
| Pb 220.353 | 3499.19     | ppb   | 18.3901 | 0.5  | 5237.96    |
| Sb 206.834 | 13.1195     | ppb   | 3.8717  | 29.5 | 25.5860    |
| Se 196.026 | 12.4376     | ppb   | 9.5798  | 77.0 | 10.9404    |
| Sn 189.925 | 161.214     | ppb   | 1.9639  | 1.2  | 119.994    |
| Sr 216.596 | 562.470     | ppb   | 3.6599  | 0.7  | 6242.29    |
| Ti 334.941 | 1395.91     | ppb   | 10.8771 | 0.8  | 363192     |
| Tl 190.794 | 32.1682     | ppb   | 10.3924 | 32.3 | -8.2255    |
| V 292.401  | 306.268     | ppb   | 1.9025  | 0.6  | 7441.16    |
| Zn 206.200 | 8542.36     | ppb   | 47.2859 | 0.6  | 51908.3    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90686-a-34-a (Samp) 5/30/2013, 9:14:41 PM Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 21.5802                  | 22.4603  | 22.2354  |
| Al 308.215 | 99075.1                  | 99116.3  | 99376.6  |
| As 188.980 | 271.189                  | 274.251  | 274.254  |
| B 249.678  | 81.4934                  | 83.7285  | 81.5541  |
| Ba 389.178 | 2030.44                  | 2032.03  | 2034.12  |
| Be 313.042 | 12.4546                  | 12.4062  | 12.3987  |
| Ca 370.602 | 141687                   | 142193   | 142349   |
| Cd 226.502 | 20.2123                  | 19.2379  | 19.5959  |
| Co 228.615 | 84.4879                  | 84.4801  | 85.1997  |
| Cr 267.716 | 342.363                  | 342.833  | 343.361  |
| Cu 324.754 | 8033.86                  | 7992.79  | 8016.94  |
| Fe 271.441 | 433356                   | 434222   | 433280   |
| K 766.491  | 9329.48                  | 9287.28  | 9327.27  |
| Mg 279.078 | 37626.3                  | 37616.0  | 37642.8  |
| Mn 257.610 | 10845.5                  | 10903.0  | 10893.9  |
| Mo 202.032 | 21.9616                  | 22.2760  | 23.3096  |
| Na 330.237 | 975.583u                 | 1009.48u | 828.880u |
| Ni 231.604 | 178.623                  | 179.003  | 177.124  |
| Pb 220.353 | 3338.58                  | 3355.39  | 3355.79  |
| Sb 206.834 | 1.8728                   | 4.5883   | -0.3537  |
| Se 196.026 | 12.8513                  | 13.4933  | 9.4359   |
| Sn 189.925 | 489.534                  | 485.978  | 500.117  |
| Sr 216.596 | 381.710                  | 382.062  | 383.135  |
| Ti 334.941 | 1385.72                  | 1381.16  | 1383.08  |
| Tl 190.794 | 20.4001u                 | 11.4094u | 16.8669u |
| V 292.401  | 401.444                  | 399.850  | 400.623  |
| Zn 206.200 | 8625.10                  | 8667.71  | 8668.47  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 22.0920     | ppb   | 0.4573  | 2.1   | 1621.89    |
| Al 308.215 | 99189.3     | ppb   | 163.480 | 0.2   | 612964     |
| As 188.980 | 273.231     | ppb   | 1.7687  | 0.6   | 128.958    |
| B 249.678  | 82.2587     | ppb   | 1.2733  | 1.5   | 405.628    |
| Ba 389.178 | 2032.20     | ppb   | 1.8452  | 0.1   | 38564.9    |
| Be 313.042 | 12.4198     | ppb   | 0.0304  | 0.2   | 21854.2    |
| Ca 370.602 | 142076      | ppb   | 346.0   | 0.2   | 258617     |
| Cd 226.502 | 19.6820     | ppb   | 0.4929  | 2.5   | 1712.99    |
| Co 228.615 | 84.7225     | ppb   | 0.4132  | 0.5   | 1027.81    |
| Cr 267.716 | 342.852     | ppb   | 0.4991  | 0.1   | 16004.0    |
| Cu 324.754 | 8014.53     | ppb   | 20.6403 | 0.3   | 443767     |
| Fe 271.441 | 433619      | ppb   | 523.156 | 0.1   | 680735     |
| K 766.491  | 9314.68     | ppb   | 23.7511 | 0.3   | 314284     |
| Mg 279.078 | 37628.4     | ppb   | 13.4917 | 0.0   | 79990.7    |
| Mn 257.610 | 10880.8     | ppb   | 30.9248 | 0.3   | 2438996    |
| Mo 202.032 | 22.5157     | ppb   | 0.7053  | 3.1   | 142.179    |
| Na 330.237 | 937.980     | ppb   | 95.9907 | 10.2  | -147.163   |
| Ni 231.604 | 178.250     | ppb   | 0.9935  | 0.6   | 473.554    |
| Pb 220.353 | 3349.92     | ppb   | 9.8191  | 0.3   | 5020.79    |
| Sb 206.834 | 2.0358      | ppb   | 2.4750  | 121.6 | 15.2412    |
| Se 196.026 | 11.9268     | ppb   | 2.1810  | 18.3  | 9.0793     |
| Sn 189.925 | 491.876     | ppb   | 7.3551  | 1.5   | 395.774    |
| Sr 216.596 | 382.302     | ppb   | 0.7424  | 0.2   | 4410.56    |
| Ti 334.941 | 1383.32     | ppb   | 2.2893  | 0.2   | 359776     |
| Tl 190.794 | 16.2255     | ppb   | 4.5295  | 27.9  | -17.6395   |
| V 292.401  | 400.639     | ppb   | 0.7974  | 0.2   | 9751.20    |
| Zn 206.200 | 8653.76     | ppb   | 24.8185 | 0.3   | 511352.9   |

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680-90723-b-1-a (Samp) 5/30/2013, 9:19:17 PM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1401                  | -0.2280  | -0.2016  |
| Al 308.215 | 120026                   | 119725   | 120017   |
| As 188.980 | 233.251                  | 239.244  | 242.182  |
| B 249.678  | 60.5461u                 | 61.1396u | 61.9969u |
| Ba 389.178 | 2315.70                  | 2316.87  | 2318.35  |
| Be 313.042 | 13.2978                  | 13.3028  | 13.3032  |
| Ca 370.602 | 95656                    | 95545    | 95470    |
| Cd 226.502 | 22.7608                  | 22.8386  | 22.5897  |
| Co 228.615 | 107.043                  | 105.835  | 107.467  |
| Cr 267.716 | 608.988                  | 607.911  | 608.723  |
| Cu 324.754 | 833.967                  | 857.642  | 850.454  |
| Fe 271.441 | 482908                   | 481578   | 480038   |
| K 766.491  | 9874.18                  | 9899.85  | 9933.86  |
| Mg 279.078 | 27327.0                  | 27302.4  | 27283.4  |
| Mn 257.610 | 13562.1                  | 13571.3  | 13562.4  |
| Mo 202.032 | 33.9476                  | 32.0255  | 32.6546  |
| Na 330.237 | 1683.81u                 | 1444.39u | 1530.78u |
| Ni 231.604 | 179.167                  | 179.447  | 180.112  |
| Pb 220.353 | 2752.20                  | 2754.10  | 2741.89  |
| Sb 206.834 | 4.7905                   | 6.5358   | 1.8747   |
| Se 196.026 | 0.3636u                  | 13.8761  | 6.2461   |
| Sn 189.925 | 122.982                  | 123.855  | 126.894  |
| Sr 216.596 | 348.515                  | 347.024  | 347.675  |
| Ti 334.941 | 1574.61                  | 1573.73  | 1576.47  |
| Tl 190.794 | 17.9772u                 | 16.1415u | 20.2250u |
| V 292.401  | 562.835                  | 561.167  | 562.086  |
| Zn 206.200 | 6523.45                  | 6517.39  | 6497.23  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -0.1899     | ppb   | 0.0451  | 23.8 | 18.8703    |
| Al 308.215 | 119923      | ppb   | 171.597 | 0.1  | 741040     |
| As 188.980 | 238.225     | ppb   | 4.5518  | 1.9  | 111.010    |
| B 249.678  | 61.2275     | ppb   | 0.7294  | 1.2  | 28.0648    |
| Ba 389.178 | 2316.97     | ppb   | 1.3269  | 0.1  | 43923.5    |
| Be 313.042 | 13.3013     | ppb   | 0.0030  | 0.0  | 23398.2    |
| Ca 370.602 | 95557       | ppb   | 93.43   | 0.1  | 164897     |
| Cd 226.502 | 22.7297     | ppb   | 0.1273  | 0.6  | 1929.07    |
| Co 228.615 | 106.782     | ppb   | 0.8471  | 0.8  | 1288.51    |
| Cr 267.716 | 608.541     | ppb   | 0.5615  | 0.1  | 28310.6    |
| Cu 324.754 | 847.354     | ppb   | 12.1382 | 1.4  | 47221.2    |
| Fe 271.441 | 481508      | ppb   | 1436.67 | 0.3  | 755915     |
| K 766.491  | 9902.63     | ppb   | 29.9362 | 0.3  | 334106     |
| Mg 279.078 | 27304.3     | ppb   | 21.8977 | 0.1  | 57978.0    |
| Mn 257.610 | 13565.2     | ppb   | 5.2282  | 0.0  | 3040409    |
| Mo 202.032 | 32.8759     | ppb   | 0.9800  | 3.0  | 209.893    |
| Na 330.237 | 1552.99     | ppb   | 121.247 | 7.8  | -103.156   |
| Ni 231.604 | 179.575     | ppb   | 0.4854  | 0.3  | 477.986    |
| Pb 220.353 | 2749.40     | ppb   | 6.5719  | 0.2  | 4133.54    |
| Sb 206.834 | 4.4003      | ppb   | 2.3549  | 53.5 | 20.7563    |
| Se 196.026 | 6.8286      | ppb   | 6.7751  | 99.2 | 6.7592     |
| Sn 189.925 | 124.577     | ppb   | 2.0536  | 1.6  | 89.3757    |
| Sr 216.596 | 347.738     | ppb   | 0.7472  | 0.2  | 4084.48    |
| Ti 334.941 | 1574.94     | ppb   | 1.3989  | 0.1  | 409554     |
| Tl 190.794 | 18.1146     | ppb   | 2.0452  | 11.3 | -18.7570   |
| V 292.401  | 562.029     | ppb   | 0.8354  | 0.1  | 13675.1    |
| Zn 206.200 | 6512.69     | ppb   | 13.7280 | 0.2  | 8395.02    |



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680-90723-b-1-b ms (Samp) 5/30/2013, 9:23:52 PM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 52.3004                  | 52.1119 | 51.6455 |
| Al 308.215 | 160725                   | 160880  | 160728  |
| As 188.980 | 399.779                  | 383.661 | 380.145 |
| B 249.678  | 269.611                  | 272.804 | 272.071 |
| Ba 389.178 | 2555.49                  | 2557.56 | 2554.95 |
| Be 313.042 | 65.9307                  | 66.1743 | 65.9996 |
| Ca 370.602 | 135947                   | 136064  | 136000  |
| Cd 226.502 | 68.7166                  | 68.8817 | 68.5206 |
| Co 228.615 | 163.636                  | 161.895 | 164.394 |
| Cr 267.716 | 804.476                  | 806.865 | 804.628 |
| Cu 324.754 | 1039.96                  | 1048.20 | 1036.23 |
| Fe 271.441 | 665432                   | 667810  | 668394  |
| K 766.491  | 21679.8                  | 21777.4 | 21774.1 |
| Mg 279.078 | 45140.2                  | 45248.2 | 45165.5 |
| Mn 257.610 | 14422.4                  | 14393.7 | 14385.0 |
| Mo 202.032 | 134.518                  | 136.016 | 135.340 |
| Na 330.237 | 6526.82                  | 6644.60 | 6464.44 |
| Ni 231.604 | 314.761                  | 311.752 | 315.058 |
| Pb 220.353 | 2830.68                  | 2819.50 | 2808.10 |
| Sb 206.834 | 34.7744                  | 42.4454 | 36.4443 |
| Se 196.026 | 94.6633                  | 106.946 | 104.781 |
| Sn 189.925 | 626.598                  | 631.983 | 624.826 |
| Sr 216.596 | 621.024                  | 620.916 | 620.416 |
| Ti 334.941 | 1946.46                  | 1952.94 | 1950.16 |
| Tl 190.794 | 57.2716                  | 56.4864 | 53.4764 |
| V 292.401  | 850.292                  | 851.408 | 852.364 |
| Zn 206.200 | 6610.41                  | 6604.67 | 6578.01 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 52.0193     | ppb   | 0.3372  | 0.6  | 3801.37    |
| Al 308.215 | 160778      | ppb   | 88.5888 | 0.1  | 993419     |
| As 188.980 | 387.862     | ppb   | 10.4695 | 2.7  | 185.601    |
| B 249.678  | 271.495     | ppb   | 1.6728  | 0.6  | 2540.99    |
| Ba 389.178 | 2556.00     | ppb   | 1.3779  | 0.1  | 48644.4    |
| Be 313.042 | 66.0349     | ppb   | 0.1256  | 0.2  | 117151     |
| Ca 370.602 | 136004      | ppb   | 58.83   | 0.0  | 235406     |
| Cd 226.502 | 68.7063     | ppb   | 0.1807  | 0.3  | 3894.87    |
| Co 228.615 | 163.309     | ppb   | 1.2811  | 0.8  | 1951.56    |
| Cr 267.716 | 805.323     | ppb   | 1.3378  | 0.2  | 37453.6    |
| Cu 324.754 | 1041.46     | ppb   | 6.1257  | 0.6  | 58022.0    |
| Fe 271.441 | 667212      | ppb   | 1569.11 | 0.2  | 1047446    |
| K 766.491  | 21743.8     | ppb   | 55.4246 | 0.3  | 733310     |
| Mg 279.078 | 45184.6     | ppb   | 56.4661 | 0.1  | 96039.5    |
| Mn 257.610 | 14400.4     | ppb   | 19.5529 | 0.1  | 3228134    |
| Mo 202.032 | 135.291     | ppb   | 0.7506  | 0.6  | 895.086    |
| Na 330.237 | 6545.29     | ppb   | 91.4890 | 1.4  | 77.8454    |
| Ni 231.604 | 313.857     | ppb   | 1.8288  | 0.6  | 834.252    |
| Pb 220.353 | 2819.43     | ppb   | 11.2872 | 0.4  | 4248.26    |
| Sb 206.834 | 37.8880     | ppb   | 4.0341  | 10.6 | 58.8328    |
| Se 196.026 | 102.130     | ppb   | 6.5567  | 6.4  | 48.5763    |
| Sn 189.925 | 627.802     | ppb   | 3.7275  | 0.6  | 509.146    |
| Sr 216.596 | 620.785     | ppb   | 0.3245  | 0.1  | 7109.24    |
| Ti 334.941 | 1949.85     | ppb   | 3.2503  | 0.2  | 507118     |
| Tl 190.794 | 55.7448     | ppb   | 2.0033  | 3.6  | -6.3003    |
| V 292.401  | 851.355     | ppb   | 1.0369  | 0.1  | 20711.1    |
| Zn 206.200 | 6597.70     | ppb   | 17.2995 | 0.3  | 8595.53    |

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**680-90723-b-1-c msd (Samp) 5/30/2013, 9:28:28 PM Rack 2, Tube 35****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 52.6454                  | 52.2840 | 53.6814 |
| Al 308.215 | 141764                   | 142107  | 141827  |
| As 188.980 | 333.169                  | 338.533 | 345.429 |
| B 249.678  | 231.506                  | 231.481 | 233.231 |
| Ba 389.178 | 2961.84                  | 2975.74 | 2956.95 |
| Be 313.042 | 63.5324                  | 63.6956 | 63.5755 |
| Ca 370.602 | 121670                   | 121768  | 121265  |
| Cd 226.502 | 73.3001                  | 73.9574 | 74.0173 |
| Co 228.615 | 158.583                  | 159.199 | 156.400 |
| Cr 267.716 | 658.373                  | 660.090 | 658.475 |
| Cu 324.754 | 1279.25                  | 1286.70 | 1278.88 |
| Fe 271.441 | 531417                   | 532182  | 530576  |
| K 766.491  | 17277.1                  | 17213.6 | 17138.0 |
| Mg 279.078 | 38681.0                  | 38759.6 | 38759.5 |
| Mn 257.610 | 15818.0                  | 15880.6 | 15816.1 |
| Mo 202.032 | 126.677                  | 126.417 | 125.784 |
| Na 330.237 | 7570.35                  | 7544.28 | 7338.74 |
| Ni 231.604 | 284.029                  | 283.981 | 285.364 |
| Pb 220.353 | 2876.10                  | 2869.52 | 2878.32 |
| Sb 206.834 | 37.3942                  | 35.7111 | 35.2000 |
| Se 196.026 | 104.094                  | 92.1356 | 100.164 |
| Sn 189.925 | 490.343                  | 495.699 | 498.375 |
| Sr 216.596 | 511.876                  | 511.529 | 510.736 |
| Ti 334.941 | 1877.55                  | 1885.65 | 1878.09 |
| Tl 190.794 | 60.5588                  | 65.3281 | 55.2218 |
| V 292.401  | 720.164                  | 722.249 | 721.275 |
| Zn 206.200 | 7204.14                  | 7220.27 | 7217.95 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 52.8703     | ppb   | 0.7253  | 1.4  | 3874.15    |
| Al 308.215 | 141900      | ppb   | 182.642 | 0.1  | 876802     |
| As 188.980 | 339.044     | ppb   | 6.1458  | 1.8  | 161.820    |
| B 249.678  | 232.073     | ppb   | 1.0029  | 0.4  | 2261.56    |
| Ba 389.178 | 2964.84     | ppb   | 9.7464  | 0.3  | 56120.3    |
| Be 313.042 | 63.6012     | ppb   | 0.0846  | 0.1  | 112826     |
| Ca 370.602 | 121568      | ppb   | 266.5   | 0.2  | 213722     |
| Cd 226.502 | 73.7583     | ppb   | 0.3979  | 0.5  | 3733.82    |
| Co 228.615 | 158.061     | ppb   | 1.4707  | 0.9  | 1884.80    |
| Cr 267.716 | 658.980     | ppb   | 0.9631  | 0.1  | 30662.6    |
| Cu 324.754 | 1281.61     | ppb   | 4.4136  | 0.3  | 71265.9    |
| Fe 271.441 | 531392      | ppb   | 803.147 | 0.2  | 834231     |
| K 766.491  | 17209.5     | ppb   | 69.6344 | 0.4  | 580446     |
| Mg 279.078 | 38733.3     | ppb   | 45.3581 | 0.1  | 82267.3    |
| Mn 257.610 | 15838.2     | ppb   | 36.7378 | 0.2  | 3549827    |
| Mo 202.032 | 126.292     | ppb   | 0.4595  | 0.4  | 840.667    |
| Na 330.237 | 7484.46     | ppb   | 126.866 | 1.7  | 151.055    |
| Ni 231.604 | 284.458     | ppb   | 0.7851  | 0.3  | 754.260    |
| Pb 220.353 | 2874.65     | ppb   | 4.5726  | 0.2  | 4322.19    |
| Sb 206.834 | 36.1017     | ppb   | 1.1481  | 3.2  | 52.8197    |
| Se 196.026 | 98.7978     | ppb   | 6.0950  | 6.2  | 49.0409    |
| Sn 189.925 | 494.806     | ppb   | 4.0898  | 0.8  | 398.208    |
| Sr 216.596 | 511.380     | ppb   | 0.5843  | 0.1  | 5843.66    |
| Ti 334.941 | 1880.43     | ppb   | 4.5276  | 0.2  | 489028     |
| Tl 190.794 | 60.3695     | ppb   | 5.0558  | 8.4  | -0.1657    |
| V 292.401  | 721.229     | ppb   | 1.0431  | 0.1  | 17545.1    |
| Zn 206.200 | 7214.12     | ppb   | 8.7244  | 0.1  | 9298.68    |

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Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 3.5164                   | 4.0248   | 3.9087   |
| Al 308.215 | 95436.6                  | 95655.7  | 94267.9  |
| As 188.980 | 249.940                  | 247.199  | 238.017  |
| B 249.678  | 90.4527                  | 89.4172  | 89.6261  |
| Ba 389.178 | 3768.91                  | 3770.98  | 3719.59  |
| Be 313.042 | 13.4745                  | 13.4896  | 13.2989  |
| Ca 370.602 | 103648                   | 103795   | 102209   |
| Cd 226.502 | 39.6164                  | 39.1264  | 37.9695  |
| Co 228.615 | 100.948                  | 102.026  | 99.6436  |
| Cr 267.716 | 406.848                  | 407.504  | 401.215  |
| Cu 324.754 | 13036.1                  | 13212.7  | 12853.4  |
| Fe 271.441 | 374306                   | 376390   | 368526   |
| K 766.491  | 9369.83                  | 9406.22  | 9273.96  |
| Mg 279.078 | 13293.0                  | 13310.0  | 13114.0  |
| Mn 257.610 | 9016.04                  | 9033.70  | 8878.69  |
| Mo 202.032 | 37.5115                  | 38.5154  | 38.2156  |
| Na 330.237 | 1555.53u                 | 1775.55u | 1681.20u |
| Ni 231.604 | 222.654                  | 221.390  | 221.363  |
| Pb 220.353 | 3897.98                  | 3904.18  | 3835.24  |
| Sb 206.834 | 30.7921                  | 37.8879  | 37.7949  |
| Se 196.026 | 11.3865                  | 18.0606  | 7.0578   |
| Sn 189.925 | 481.941                  | 483.852  | 474.032  |
| Sr 216.596 | 1232.37                  | 1232.68  | 1211.49  |
| Ti 334.941 | 725.900                  | 729.225  | 718.309  |
| Tl 190.794 | 13.1422u                 | 16.7804u | 14.1179u |
| V 292.401  | 329.160                  | 329.029  | 324.306  |
| Zn 206.200 | 9271.39                  | 9246.71  | 9131.97  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 3.8166      | ppb   | 0.2664  | 7.0  | 250.363    |
| Al 308.215 | 95120.1     | ppb   | 746.115 | 0.8  | 587834     |
| As 188.980 | 245.052     | ppb   | 6.2443  | 2.5  | 115.136    |
| B 249.678  | 89.8320     | ppb   | 0.5476  | 0.6  | 623.724    |
| Ba 389.178 | 3753.16     | ppb   | 29.0902 | 0.8  | 70625.4    |
| Be 313.042 | 13.4210     | ppb   | 0.1060  | 0.8  | 23623.9    |
| Ca 370.602 | 103218      | ppb   | 876.4   | 0.8  | 184942     |
| Cd 226.502 | 38.9041     | ppb   | 0.8456  | 2.2  | 2201.12    |
| Co 228.615 | 100.872     | ppb   | 1.1929  | 1.2  | 1196.66    |
| Cr 267.716 | 405.189     | ppb   | 3.4574  | 0.9  | 18864.0    |
| Cu 324.754 | 13034.1     | ppb   | 179.665 | 1.4  | 721479     |
| Fe 271.441 | 373074      | ppb   | 4074.13 | 1.1  | 585691     |
| K 766.491  | 9350.00     | ppb   | 68.3223 | 0.7  | 315475     |
| Mg 279.078 | 13239.0     | ppb   | 108.598 | 0.8  | 28105.8    |
| Mn 257.610 | 8976.14     | ppb   | 84.8580 | 0.9  | 2011963    |
| Mo 202.032 | 38.0808     | ppb   | 0.5153  | 1.4  | 250.684    |
| Na 330.237 | 1670.76     | ppb   | 110.382 | 6.6  | -101.713   |
| Ni 231.604 | 221.802     | ppb   | 0.7378  | 0.3  | 586.601    |
| Pb 220.353 | 3879.13     | ppb   | 38.1413 | 1.0  | 5801.58    |
| Sb 206.834 | 35.4917     | ppb   | 4.0702  | 11.5 | 47.1591    |
| Se 196.026 | 12.1683     | ppb   | 5.5429  | 45.6 | 9.4952     |
| Sn 189.925 | 479.942     | ppb   | 5.2062  | 1.1  | 385.805    |
| Sr 216.596 | 1225.51     | ppb   | 12.1448 | 1.0  | 13197.6    |
| Ti 334.941 | 724.478     | ppb   | 5.5956  | 0.8  | 188386     |
| Tl 190.794 | 14.6802     | ppb   | 1.8831  | 12.8 | -16.0677   |
| V 292.401  | 327.499     | ppb   | 2.7656  | 0.8  | 7952.85    |
| Zn 206.200 | 9216.69     | ppb   | 74.3984 | 0.8  | 51877.2    |

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680-90723-b-17-a (Samp) 5/30/2013, 9:46:51 PM Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 3.2815                   | 3.1380   | 3.0590   |
| Al 308.215 | 105139                   | 104811   | 104381   |
| As 188.980 | 463.712                  | 459.594  | 454.163  |
| B 249.678  | 119.965                  | 118.750  | 119.454  |
| Ba 389.178 | 4049.05                  | 4030.16  | 4023.42  |
| Be 313.042 | 11.8973                  | 11.8589  | 11.8083  |
| Ca 370.602 | 343520                   | 342083   | 340221   |
| Cd 226.502 | 35.6354                  | 34.3148  | 34.4019  |
| Co 228.615 | 97.3744                  | 97.3647  | 96.9653  |
| Cr 267.716 | 639.920                  | 633.494  | 631.725  |
| Cu 324.754 | 2781.09                  | 2748.78  | 2781.53  |
| Fe 271.441 | 493211                   | 491108   | 489262   |
| K 766.491  | 14443.0                  | 14377.4  | 14378.1  |
| Mg 279.078 | 88267.6                  | 87847.1  | 87521.9  |
| Mn 257.610 | 14088.8                  | 14048.0  | 13951.7  |
| Mo 202.032 | 51.5428                  | 52.2187  | 50.4482  |
| Na 330.237 | 1661.37u                 | 1689.25u | 1771.60u |
| Ni 231.604 | 262.864                  | 261.738  | 256.768  |
| Pb 220.353 | 4502.50                  | 4490.30  | 4456.42  |
| Sb 206.834 | 34.6431                  | 33.3375  | 26.7200  |
| Se 196.026 | -2.6976u                 | 0.1523u  | 17.9193  |
| Sn 189.925 | 408.069                  | 406.361  | 406.752  |
| Sr 216.596 | 929.456                  | 929.094  | 923.320  |
| Ti 334.941 | 2153.12                  | 2126.50  | 2084.31  |
| Tl 190.794 | 23.9652u                 | 10.1850u | 24.8210u |
| V 292.401  | 434.285                  | 433.196  | 430.840  |
| Zn 206.200 | 10613.1                  | 10561.6  | 10523.8  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 3.1595      | ppb   | 0.1128  | 3.6   | 236.517    |
| Al 308.215 | 104777      | ppb   | 379.716 | 0.4   | 647482     |
| As 188.980 | 459.156     | ppb   | 4.7893  | 1.0   | 222.685    |
| B 249.678  | 119.390     | ppb   | 0.6100  | 0.5   | 802.313    |
| Ba 389.178 | 4034.21     | ppb   | 13.2885 | 0.3   | 76173.3    |
| Be 313.042 | 11.8548     | ppb   | 0.0446  | 0.4   | 20905.4    |
| Ca 370.602 | 341941      | ppb   | 1654    | 0.5   | 649063     |
| Cd 226.502 | 34.7841     | ppb   | 0.7386  | 2.1   | 2350.99    |
| Co 228.615 | 97.2348     | ppb   | 0.2335  | 0.2   | 1190.60    |
| Cr 267.716 | 635.046     | ppb   | 4.3123  | 0.7   | 29542.2    |
| Cu 324.754 | 2770.47     | ppb   | 18.7833 | 0.7   | 153632     |
| Fe 271.441 | 491194      | ppb   | 1975.79 | 0.4   | 771118     |
| K 766.491  | 14399.5     | ppb   | 37.6636 | 0.3   | 485711     |
| Mg 279.078 | 87878.8     | ppb   | 373.842 | 0.4   | 186893     |
| Mn 257.610 | 14029.5     | ppb   | 70.3982 | 0.5   | 3144928    |
| Mo 202.032 | 51.4032     | ppb   | 0.8935  | 1.7   | 335.288    |
| Na 330.237 | 1707.40     | ppb   | 57.3132 | 3.4   | -155.115   |
| Ni 231.604 | 260.456     | ppb   | 3.2434  | 1.2   | 690.533    |
| Pb 220.353 | 4483.07     | ppb   | 23.8725 | 0.5   | 6704.56    |
| Sb 206.834 | 31.5669     | ppb   | 4.2479  | 13.5  | 47.7564    |
| Se 196.026 | 5.1247      | ppb   | 11.1717 | 218.0 | 5.9630     |
| Sn 189.925 | 407.061     | ppb   | 0.8948  | 0.2   | 325.110    |
| Sr 216.596 | 927.290     | ppb   | 3.4428  | 0.4   | 10194.9    |
| Ti 334.941 | 2121.31     | ppb   | 34.6978 | 1.6   | 551849     |
| Tl 190.794 | 19.6571     | ppb   | 8.2142  | 41.8  | -18.4623   |
| V 292.401  | 432.774     | ppb   | 1.7610  | 0.4   | 10527.5    |
| Zn 206.200 | 10566.2     | ppb   | 44.7980 | 0.4   | 13615.5    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

680-90723-b-29-a (Samp) 5/30/2013, 9:51:27 PM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.4210u                 | -2.0094u | -1.9198u |
| Al 308.215 | 106433                   | 106425   | 106758   |
| As 188.980 | 229.898                  | 242.168  | 231.727  |
| B 249.678  | 39.2192u                 | 39.2415u | 39.1085u |
| Ba 389.178 | 1488.26                  | 1489.97  | 1492.09  |
| Be 313.042 | 14.6405                  | 14.6633  | 14.6930  |
| Ca 370.602 | 97175                    | 97168    | 96915    |
| Cd 226.502 | 7.8319                   | 7.8152   | 8.3201   |
| Co 228.615 | 107.318                  | 107.647  | 108.740  |
| Cr 267.716 | 883.894                  | 887.391  | 886.966  |
| Cu 324.754 | 488.404                  | 487.782  | 482.963  |
| Fe 271.441 | 428996                   | 429676   | 431395   |
| K 766.491  | 9075.63                  | 9055.14  | 9085.67  |
| Mg 279.078 | 43137.8                  | 43251.9  | 43348.4  |
| Mn 257.610 | 11376.7                  | 11410.3  | 11382.2  |
| Mo 202.032 | 16.8492                  | 15.6907  | 16.4732  |
| Na 330.237 | 567.762u                 | 680.467u | 621.895u |
| Ni 231.604 | 104.694                  | 104.039  | 104.797  |
| Pb 220.353 | 1446.35                  | 1452.81  | 1447.50  |
| Sb 206.834 | 12.4733                  | 10.2309  | 10.0329  |
| Se 196.026 | 11.3931                  | 5.8210   | 9.9005   |
| Sn 189.925 | 134.187                  | 134.861  | 132.547  |
| Sr 216.596 | 199.539                  | 200.231  | 200.150  |
| Ti 334.941 | 1503.00                  | 1507.50  | 1509.09  |
| Tl 190.794 | 24.3659u                 | 28.9942u | 28.8169u |
| V 292.401  | 711.270                  | 711.329  | 713.474  |
| Zn 206.200 | 3652.79                  | 3665.95  | 3670.03  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -1.7834     | ppb   | 0.3170  | 17.8 | -99.3243   |
| Al 308.215 | 106539      | ppb   | 189.882 | 0.2  | 658317     |
| As 188.980 | 234.597     | ppb   | 6.6197  | 2.8  | 109.482    |
| B 249.678  | 39.1897     | ppb   | 0.0712  | 0.2  | -174.584   |
| Ba 389.178 | 1490.11     | ppb   | 1.9193  | 0.1  | 28436.3    |
| Be 313.042 | 14.6656     | ppb   | 0.0263  | 0.2  | 25822.7    |
| Ca 370.602 | 97086       | ppb   | 148.5   | 0.2  | 170381     |
| Cd 226.502 | 7.9891      | ppb   | 0.2868  | 3.6  | 1318.56    |
| Co 228.615 | 107.902     | ppb   | 0.7440  | 0.7  | 1299.49    |
| Cr 267.716 | 886.084     | ppb   | 1.9079  | 0.2  | 41122.0    |
| Cu 324.754 | 486.383     | ppb   | 2.9782  | 0.6  | 27229.7    |
| Fe 271.441 | 430022      | ppb   | 1236.85 | 0.3  | 675094     |
| K 766.491  | 9072.15     | ppb   | 15.5597 | 0.2  | 306108     |
| Mg 279.078 | 43246.0     | ppb   | 105.413 | 0.2  | 91935.3    |
| Mn 257.610 | 11389.8     | ppb   | 18.0200 | 0.2  | 2553050    |
| Mo 202.032 | 16.3377     | ppb   | 0.5910  | 3.6  | 99.9073    |
| Na 330.237 | 623.374     | ppb   | 56.3669 | 9.0  | -93.9905   |
| Ni 231.604 | 104.510     | ppb   | 0.4114  | 0.4  | 279.847    |
| Pb 220.353 | 1448.88     | ppb   | 3.4460  | 0.2  | 2202.00    |
| Sb 206.834 | 10.9124     | ppb   | 1.3554  | 12.4 | 28.6292    |
| Se 196.026 | 9.0382      | ppb   | 2.8844  | 31.9 | 7.9095     |
| Sn 189.925 | 133.865     | ppb   | 1.1897  | 0.9  | 97.1252    |
| Sr 216.596 | 199.973     | ppb   | 0.3784  | 0.2  | 2491.88    |
| Ti 334.941 | 1506.53     | ppb   | 3.1604  | 0.2  | 391830     |
| Tl 190.794 | 27.3923     | ppb   | 2.6225  | 9.6  | -12.0964   |
| V 292.401  | 712.024     | ppb   | 1.2559  | 0.2  | 17321.4    |
| Zn 206.200 | 3662.93     | ppb   | 9.0995  | 0.2  | 4723.47    |

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680-90723-a-41-a (Samp)      5/30/2013, 9:56:02 PM      Rack 2, Tube 41  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.2898                   | 2.1696   | 2.2470   |
| Al 308.215 | 86458.4                  | 85897.6  | 86234.8  |
| As 188.980 | 301.532                  | 303.291  | 307.825  |
| B 249.678  | 93.2850                  | 92.8365  | 93.1053  |
| Ba 389.178 | 4109.91                  | 4089.11  | 4094.84  |
| Be 313.042 | 10.2890                  | 10.2099  | 10.2580  |
| Ca 370.602 | 541785                   | 537400   | 536159   |
| Cd 226.502 | 25.0525                  | 24.6418  | 25.0523  |
| Co 228.615 | 67.5342                  | 66.3868  | 68.1417  |
| Cr 267.716 | 451.820                  | 449.578  | 450.480  |
| Cu 324.754 | 1039.35                  | 1044.93  | 1035.03  |
| Fe 271.441 | 319291                   | 317158   | 318133   |
| K 766.491  | 12389.4                  | 12356.7  | 12394.4  |
| Mg 279.078 | 71352.1                  | 70889.1  | 71013.7  |
| Mn 257.610 | 10349.2                  | 10283.3  | 10252.4  |
| Mo 202.032 | 30.2583                  | 29.7604  | 30.7937  |
| Na 330.237 | 1594.78u                 | 1507.81u | 1500.20u |
| Ni 231.604 | 176.979                  | 176.740  | 177.443  |
| Pb 220.353 | 3302.98                  | 3287.10  | 3282.79  |
| Sb 206.834 | 25.4651                  | 15.2539  | 22.2063  |
| Se 196.026 | 3.7438                   | 2.8651u  | 15.6359  |
| Sn 189.925 | 146.338                  | 142.394  | 145.251  |
| Sr 216.596 | 1192.16                  | 1183.09  | 1186.09  |
| Ti 334.941 | 2156.68                  | 2131.45  | 2156.88  |
| Tl 190.794 | 11.9397u                 | 21.3246u | 16.5819u |
| V 292.401  | 388.816                  | 385.465  | 387.077  |
| Zn 206.200 | 7657.69                  | 7619.55  | 7638.67  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 1.9021      | ppb   | 0.5317  | 28.0 | 117.753    |
| Al 308.215 | 86196.9     | ppb   | 282.276 | 0.3  | 532692     |
| As 188.980 | 304.216     | ppb   | 3.2466  | 1.1  | 145.466    |
| B 249.678  | 93.0756     | ppb   | 0.2258  | 0.2  | 772.235    |
| Ba 389.178 | 4097.95     | ppb   | 10.7444 | 0.3  | 77131.9    |
| Be 313.042 | 10.2523     | ppb   | 0.0398  | 0.4  | 18129.8    |
| Ca 370.602 | 538448      | ppb   | 2956    | 0.5  | 1043923    |
| Cd 226.502 | 24.9155     | ppb   | 0.2371  | 1.0  | 1607.48    |
| Co 228.615 | 67.3542     | ppb   | 0.8912  | 1.3  | 841.417    |
| Cr 267.716 | 450.626     | ppb   | 1.1283  | 0.3  | 20960.2    |
| Cu 324.754 | 1039.77     | ppb   | 4.9610  | 0.5  | 57815.9    |
| Fe 271.441 | 318194      | ppb   | 1067.75 | 0.3  | 499536     |
| K 766.491  | 12380.1     | ppb   | 20.4753 | 0.2  | 417631     |
| Mg 279.078 | 71085.0     | ppb   | 239.589 | 0.3  | 151186     |
| Mn 257.610 | 10295.0     | ppb   | 49.4455 | 0.5  | 2307726    |
| Mo 202.032 | 30.2708     | ppb   | 0.5168  | 1.7  | 200.199    |
| Na 330.237 | 1534.27     | ppb   | 52.5477 | 3.4  | -76.3734   |
| Ni 231.604 | 177.054     | ppb   | 0.3576  | 0.2  | 468.047    |
| Pb 220.353 | 3290.96     | ppb   | 10.6361 | 0.3  | 4925.82    |
| Sb 206.834 | 20.9751     | ppb   | 5.2157  | 24.9 | 32.0371    |
| Se 196.026 | 7.4149      | ppb   | 7.1331  | 96.2 | 8.2847     |
| Sn 189.925 | 144.661     | ppb   | 2.0369  | 1.4  | 106.323    |
| Sr 216.596 | 1187.11     | ppb   | 4.6203  | 0.4  | 12792.1    |
| Ti 334.941 | 2148.34     | ppb   | 14.6277 | 0.7  | 558787     |
| Tl 190.794 | 16.6154     | ppb   | 4.6925  | 28.2 | -13.7346   |
| V 292.401  | 387.119     | ppb   | 1.6755  | 0.4  | 9426.31    |
| Zn 206.200 | 7638.64     | ppb   | 19.0713 | 0.2  | 9844.18    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90723-a-42-a (Samp) 5/30/2013, 10:00:38 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.0392                   | 0.9144   | 0.7631   |
| Al 308.215 | 118744                   | 119635   | 119907   |
| As 188.980 | 228.239                  | 230.109  | 216.541  |
| B 249.678  | 68.1234                  | 68.3272  | 68.2353  |
| Ba 389.178 | 2528.46                  | 2540.47  | 2548.46  |
| Be 313.042 | 13.3534                  | 13.3859  | 13.4136  |
| Ca 370.602 | 100370                   | 101157   | 101494   |
| Cd 226.502 | 26.7692                  | 26.4208  | 27.0465  |
| Co 228.615 | 105.233                  | 104.250  | 103.857  |
| Cr 267.716 | 567.573                  | 570.561  | 571.983  |
| Cu 324.754 | 943.179                  | 936.037  | 935.808  |
| Fe 271.441 | 465669                   | 469019   | 467658   |
| K 766.491  | 9895.81                  | 9897.87  | 9895.30  |
| Mg 279.078 | 29474.4                  | 29683.6  | 29707.7  |
| Mn 257.610 | 13487.9                  | 13598.9  | 13642.1  |
| Mo 202.032 | 38.2940                  | 38.5919  | 38.1193  |
| Na 330.237 | 2002.61u                 | 2067.24u | 1755.55u |
| Ni 231.604 | 186.021                  | 189.124  | 187.487  |
| Pb 220.353 | 3336.06                  | 3358.33  | 3380.11  |
| Sb 206.834 | 13.2450                  | 8.4247   | 25.6434  |
| Se 196.026 | 13.1457                  | 17.6428  | 6.6345   |
| Sn 189.925 | 426.611                  | 432.589  | 428.837  |
| Sr 216.596 | 391.829                  | 395.937  | 395.907  |
| Ti 334.941 | 1621.29                  | 1627.23  | 1633.08  |
| Tl 190.794 | 28.0183u                 | 21.9446u | 41.6918  |
| V 292.401  | 562.917                  | 565.097  | 567.390  |
| Zn 206.200 | 6873.72                  | 6947.01  | 6968.04  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 0.5723      | ppb   | 0.4678  | 81.7 | 72.1681    |
| Al 308.215 | 119429      | ppb   | 608.359 | 0.5  | 737989     |
| As 188.980 | 224.963     | ppb   | 7.3534  | 3.3  | 104.403    |
| B 249.678  | 68.2286     | ppb   | 0.1021  | 0.1  | 150.129    |
| Ba 389.178 | 2539.13     | ppb   | 10.0657 | 0.4  | 48066.5    |
| Be 313.042 | 13.3843     | ppb   | 0.0301  | 0.2  | 23546.8    |
| Ca 370.602 | 101007      | ppb   | 577.1   | 0.6  | 176324     |
| Cd 226.502 | 26.7455     | ppb   | 0.3136  | 1.2  | 2027.77    |
| Co 228.615 | 104.446     | ppb   | 0.7088  | 0.7  | 1261.87    |
| Cr 267.716 | 570.039     | ppb   | 2.2509  | 0.4  | 26527.1    |
| Cu 324.754 | 938.341     | ppb   | 4.1907  | 0.4  | 52251.1    |
| Fe 271.441 | 467449      | ppb   | 1684.72 | 0.4  | 733845     |
| K 766.491  | 9896.32     | ppb   | 1.3594  | 0.0  | 333893     |
| Mg 279.078 | 29621.9     | ppb   | 128.301 | 0.4  | 62907.7    |
| Mn 257.610 | 13576.3     | ppb   | 79.5515 | 0.6  | 3042864    |
| Mo 202.032 | 38.3351     | ppb   | 0.2390  | 0.6  | 247.561    |
| Na 330.237 | 1941.80     | ppb   | 164.500 | 8.5  | -86.8487   |
| Ni 231.604 | 187.544     | ppb   | 1.5526  | 0.8  | 498.620    |
| Pb 220.353 | 3358.16     | ppb   | 22.0219 | 0.7  | 5035.20    |
| Sb 206.834 | 15.7710     | ppb   | 8.8830  | 56.3 | 31.2911    |
| Se 196.026 | 12.4744     | ppb   | 5.5348  | 44.4 | 9.5364     |
| Sn 189.925 | 429.346     | ppb   | 3.0210  | 0.7  | 343.597    |
| Sr 216.596 | 394.558     | ppb   | 2.3632  | 0.6  | 4563.83    |
| Ti 334.941 | 1627.20     | ppb   | 5.8951  | 0.4  | 423150     |
| Tl 190.794 | 30.5516     | ppb   | 10.1144 | 33.1 | -12.2690   |
| V 292.401  | 565.135     | ppb   | 2.2367  | 0.4  | 13752.6    |
| Zn 206.200 | 6929.59     | ppb   | 49.5133 | 0.7  | 8931.95    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90723-a-43-a (Samp) 5/30/2013, 10:05:13 PM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.6233u                 | -1.7047u | -1.7547u |
| Al 308.215 | 115191                   | 115257   | 116513   |
| As 188.980 | 238.813                  | 237.574  | 240.678  |
| B 249.678  | 40.0573u                 | 38.9353u | 40.1921u |
| Ba 389.178 | 1988.78                  | 1987.94  | 2008.15  |
| Be 313.042 | 14.7396                  | 14.7393  | 14.8877  |
| Ca 370.602 | 70132                    | 70136    | 70642    |
| Cd 226.502 | 10.1553                  | 10.0100  | 10.5222  |
| Co 228.615 | 140.802                  | 142.602  | 142.794  |
| Cr 267.716 | 886.378                  | 887.199  | 896.659  |
| Cu 324.754 | 1839.93                  | 1857.13  | 1864.45  |
| Fe 271.441 | 440095                   | 439968   | 444377   |
| K 766.491  | 9064.24                  | 9089.69  | 9172.93  |
| Mg 279.078 | 22272.5                  | 22302.9  | 22514.6  |
| Mn 257.610 | 14549.4                  | 14551.0  | 14666.3  |
| Mo 202.032 | 19.8641                  | 20.5120  | 20.1315  |
| Na 330.237 | 636.179u                 | 707.050u | 556.601u |
| Ni 231.604 | 126.085                  | 130.242  | 132.020  |
| Pb 220.353 | 1842.45                  | 1849.52  | 1862.08  |
| Sb 206.834 | 10.5500                  | 16.4072  | 14.8490  |
| Se 196.026 | 8.7349                   | -1.3125u | 14.8495  |
| Sn 189.925 | 142.549                  | 146.298  | 147.505  |
| Sr 216.596 | 262.868                  | 260.048  | 264.839  |
| Ti 334.941 | 1694.72                  | 1697.67  | 1718.30  |
| Tl 190.794 | 28.3832u                 | 27.9968u | 31.8722u |
| V 292.401  | 708.088                  | 708.275  | 715.916  |
| Zn 206.200 | 4338.78                  | 4324.56  | 4375.92  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.6942     | ppb   | 0.0663  | 3.9   | -81.0199   |
| Al 308.215 | 115654      | ppb   | 744.990 | 0.6   | 714635     |
| As 188.980 | 239.022     | ppb   | 1.5624  | 0.7   | 111.703    |
| B 249.678  | 39.7282     | ppb   | 0.6900  | 1.7   | -188.961   |
| Ba 389.178 | 1994.96     | ppb   | 11.4346 | 0.6   | 37845.9    |
| Be 313.042 | 14.7889     | ppb   | 0.0856  | 0.6   | 26032.7    |
| Ca 370.602 | 70304       | ppb   | 293.2   | 0.4   | 117278     |
| Cd 226.502 | 10.2292     | ppb   | 0.2640  | 2.6   | 1419.87    |
| Co 228.615 | 142.066     | ppb   | 1.0990  | 0.8   | 1697.52    |
| Cr 267.716 | 890.079     | ppb   | 5.7130  | 0.6   | 41323.1    |
| Cu 324.754 | 1853.84     | ppb   | 12.5856 | 0.7   | 102895     |
| Fe 271.441 | 441480      | ppb   | 2509.37 | 0.6   | 693084     |
| K 766.491  | 9108.95     | ppb   | 56.8504 | 0.6   | 307349     |
| Mg 279.078 | 22363.3     | ppb   | 131.899 | 0.6   | 47439.9    |
| Mn 257.610 | 14588.9     | ppb   | 67.0189 | 0.5   | 3269580    |
| Mo 202.032 | 20.1692     | ppb   | 0.3256  | 1.6   | 125.352    |
| Na 330.237 | 633.277     | ppb   | 75.2665 | 11.9  | -106.491   |
| Ni 231.604 | 129.449     | ppb   | 3.0459  | 2.4   | 345.486    |
| Pb 220.353 | 1851.35     | ppb   | 9.9448  | 0.5   | 2799.78    |
| Sb 206.834 | 13.9354     | ppb   | 3.0336  | 21.8  | 31.8547    |
| Se 196.026 | 7.4240      | ppb   | 8.1604  | 109.9 | 7.7618     |
| Sn 189.925 | 145.450     | ppb   | 2.5845  | 1.8   | 106.777    |
| Sr 216.596 | 262.585     | ppb   | 2.4078  | 0.9   | 3155.28    |
| Ti 334.941 | 1703.56     | ppb   | 12.8452 | 0.8   | 442968     |
| Tl 190.794 | 29.4174     | ppb   | 2.1347  | 7.3   | -12.1455   |
| V 292.401  | 710.760     | ppb   | 4.4666  | 0.6   | 17292.3    |
| Zn 206.200 | 4346.42     | ppb   | 26.5169 | 0.6   | 5693.83    |



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680-90723-a-44-a (Samp) 5/30/2013, 10:09:49 PM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 3.5815                   | 3.1383   | 3.5268   |
| Al 308.215 | 94639.0                  | 95030.3  | 94814.7  |
| As 188.980 | 334.241                  | 338.329  | 338.255  |
| B 249.678  | 78.7638                  | 77.4024  | 77.0558  |
| Ba 389.178 | 3666.12                  | 3688.30  | 3676.02  |
| Be 313.042 | 14.2842                  | 14.3198  | 14.2927  |
| Ca 370.602 | 93470                    | 94066    | 93816    |
| Cd 226.502 | 24.1190                  | 24.1793  | 23.6549  |
| Co 228.615 | 101.732                  | 102.736  | 102.298  |
| Cr 267.716 | 465.000                  | 466.927  | 466.033  |
| Cu 324.754 | 1478.93                  | 1493.58  | 1459.57  |
| Fe 271.441 | 428450                   | 431039   | 432165   |
| K 766.491  | 8651.65                  | 8681.06  | 8671.14  |
| Mg 279.078 | 12673.0                  | 12741.7  | 12673.8  |
| Mn 257.610 | 9355.26                  | 9406.94  | 9406.57  |
| Mo 202.032 | 42.0229                  | 42.5960  | 42.0697  |
| Na 330.237 | 1862.77u                 | 1541.08u | 1873.76u |
| Ni 231.604 | 214.171                  | 216.820  | 216.030  |
| Pb 220.353 | 3839.28                  | 3867.51  | 3856.31  |
| Sb 206.834 | 33.8795                  | 36.2854  | 27.3793  |
| Se 196.026 | 14.3939                  | 9.8742   | 12.8808  |
| Sn 189.925 | 300.875                  | 302.794  | 305.285  |
| Sr 216.596 | 1087.68                  | 1093.94  | 1090.01  |
| Ti 334.941 | 966.128                  | 974.166  | 969.685  |
| Tl 190.794 | 18.5137u                 | 16.2300u | 8.8668u  |
| V 292.401  | 419.973                  | 421.839  | 421.267  |
| Zn 206.200 | 9204.67                  | 9258.17  | 9244.96  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 3.4155      | ppb   | 0.2416  | 7.1  | 229.385    |
| Al 308.215 | 94828.0     | ppb   | 195.988 | 0.2  | 586014     |
| As 188.980 | 336.942     | ppb   | 2.3390  | 0.7  | 161.205    |
| B 249.678  | 77.7407     | ppb   | 0.9028  | 1.2  | 349.889    |
| Ba 389.178 | 3676.81     | ppb   | 11.1106 | 0.3  | 69262.7    |
| Be 313.042 | 14.2989     | ppb   | 0.0186  | 0.1  | 25175.0    |
| Ca 370.602 | 93784       | ppb   | 299.7   | 0.3  | 163649     |
| Cd 226.502 | 23.9844     | ppb   | 0.2870  | 1.2  | 1847.31    |
| Co 228.615 | 102.255     | ppb   | 0.5032  | 0.5  | 1220.27    |
| Cr 267.716 | 465.987     | ppb   | 0.9643  | 0.2  | 21689.8    |
| Cu 324.754 | 1477.36     | ppb   | 17.0595 | 1.2  | 82064.5    |
| Fe 271.441 | 430552      | ppb   | 1905.07 | 0.4  | 675921     |
| K 766.491  | 8667.95     | ppb   | 14.9637 | 0.2  | 292481     |
| Mg 279.078 | 12696.2     | ppb   | 39.4367 | 0.3  | 26954.4    |
| Mn 257.610 | 9389.59     | ppb   | 29.7307 | 0.3  | 2104731    |
| Mo 202.032 | 42.2295     | ppb   | 0.3182  | 0.8  | 275.954    |
| Na 330.237 | 1759.20     | ppb   | 188.978 | 10.7 | -114.218   |
| Ni 231.604 | 215.674     | ppb   | 1.3599  | 0.6  | 571.701    |
| Pb 220.353 | 3854.37     | ppb   | 14.2134 | 0.4  | 5768.44    |
| Sb 206.834 | 32.5147     | ppb   | 4.6073  | 14.2 | 45.9682    |
| Se 196.026 | 12.3830     | ppb   | 2.3006  | 18.6 | 8.9835     |
| Sn 189.925 | 302.985     | ppb   | 2.2111  | 0.7  | 238.193    |
| Sr 216.596 | 1090.54     | ppb   | 3.1621  | 0.3  | 11830.6    |
| Ti 334.941 | 969.993     | ppb   | 4.0280  | 0.4  | 252217     |
| Tl 190.794 | 14.5369     | ppb   | 5.0414  | 34.7 | -18.0029   |
| V 292.401  | 421.026     | ppb   | 0.9559  | 0.2  | 10233.5    |
| Zn 206.200 | 9235.93     | ppb   | 27.8643 | 0.3  | 51902.3    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90671-a-20-a (Samp) 5/30/2013, 10:14:24 PM Rack 2, Tube 45****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -4.4062u                 | -5.2799u | -3.7101u |
| Al 308.215 | 425259                   | 425450   | 423894   |
| As 188.980 | 16.9670                  | 22.8029  | 23.3274  |
| B 249.678  | 14.0303u                 | 15.1909u | 14.2274u |
| Ba 389.178 | 2898.77                  | 2884.45  | 2875.99  |
| Be 313.042 | 26.8271                  | 26.8165  | 26.6493  |
| Ca 370.602 | 11737                    | 11951    | 11952    |
| Cd 226.502 | -1.3563                  | -0.9132  | -0.9404  |
| Co 228.615 | 390.185                  | 391.798  | 385.831  |
| Cr 267.716 | 1727.62                  | 1724.52  | 1713.51  |
| Cu 324.754 | 1315.53                  | 1302.12  | 1300.08  |
| Fe 271.441 | 594005                   | 592931   | 591038   |
| K 766.491  | 149131x                  | 149246x  | 148612x  |
| Mg 279.078 | 200838                   | 200725   | 199618   |
| Mn 257.610 | 11557.1                  | 11517.8  | 11505.8  |
| Mo 202.032 | 2.8490u                  | 3.9954u  | 2.8700u  |
| Na 330.237 | 2126.15u                 | 2245.47u | 2258.49u |
| Ni 231.604 | 459.446                  | 458.452  | 453.827  |
| Pb 220.353 | 119.057                  | 114.411  | 113.418  |
| Sb 206.834 | 8.2684                   | 12.6820  | 25.3573  |
| Se 196.026 | 10.4212                  | -5.6876u | 4.4816u  |
| Sn 189.925 | 27.6724                  | 25.2529  | 30.7463  |
| Sr 216.596 | 50.0337                  | 47.8422  | 48.1490  |
| Ti 334.941 | 33681.8                  | 33668.7  | 33453.8  |
| Tl 190.794 | 45.2746                  | 36.6974u | 47.4848  |
| V 292.401  | 2000.29                  | 1997.17  | 1987.14  |
| Zn 206.200 | 2905.93                  | 2906.56  | 2885.83  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -4.4654b    | ppb   | 0.7865  | 17.6  | -280.552   |
| Al 308.215 | 424868b     | ppb   | 848.421 | 0.2   | 2624913    |
| As 188.980 | 21.0324b    | ppb   | 3.5305  | 16.8  | 2.5755     |
| B 249.678  | 14.4829b    | ppb   | 0.6210  | 4.3   | -819.769   |
| Ba 389.178 | 2886.40b    | ppb   | 11.5152 | 0.4   | 55065.5    |
| Be 313.042 | 26.7643b    | ppb   | 0.0997  | 0.4   | 47276.7    |
| Ca 370.602 | 11880b      | ppb   | 124.0   | 1.0   | 5547       |
| Cd 226.502 | -1.0699b    | ppb   | 0.2484  | 23.2  | 1413.85    |
| Co 228.615 | 389.272b    | ppb   | 3.0868  | 0.8   | 5267.36    |
| Cr 267.716 | 1721.88b    | ppb   | 7.4119  | 0.4   | 79857.3    |
| Cu 324.754 | 1305.91b    | ppb   | 8.3924  | 0.6   | 72612.6    |
| Fe 271.441 | 592658b     | ppb   | 1502.30 | 0.3   | 930454     |
| K 766.491  | 148996xb    | ppb   | 337.720 | 0.2   | 5023412    |
| Mg 279.078 | 200394b     | ppb   | 674.053 | 0.3   | 426313     |
| Mn 257.610 | 11526.9b    | ppb   | 26.8349 | 0.2   | 2585443    |
| Mo 202.032 | 3.2381b     | ppb   | 0.6559  | 20.3  | 1.1623     |
| Na 330.237 | 2210.04b    | ppb   | 72.9388 | 3.3   | -160.207   |
| Ni 231.604 | 457.242b    | ppb   | 2.9988  | 0.7   | 1208.61    |
| Pb 220.353 | 115.629b    | ppb   | 3.0106  | 2.6   | 214.952    |
| Sb 206.834 | 15.4359b    | ppb   | 8.8710  | 57.5  | 44.2241    |
| Se 196.026 | 3.0717b     | ppb   | 8.1464  | 265.2 | 3.1949     |
| Sn 189.925 | 27.8905b    | ppb   | 2.7532  | 9.9   | 8.6835     |
| Sr 216.596 | 48.6750b    | ppb   | 1.1867  | 2.4   | 1030.72    |
| Ti 334.941 | 33601.4b    | ppb   | 128.007 | 0.4   | 8736344    |
| Tl 190.794 | 43.1523b    | ppb   | 5.6983  | 13.2  | -8.7309    |
| V 292.401  | 1994.87b    | ppb   | 6.8715  | 0.3   | 49015.8    |
| Zn 206.200 | 2899.44b    | ppb   | 11.7892 | 0.4   | 3738.97    |

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680-90671-a-21-a (Samp) 5/30/2013, 10:19:00 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.9431u                 | -1.2686u | -1.2207u |
| Al 308.215 | 227015                   | 228238   | 226383   |
| As 188.980 | 2.6794                   | 2.9699   | -8.3151u |
| B 249.678  | 6.9291u                  | 7.2994u  | 8.3971u  |
| Ba 389.178 | 1826.91                  | 1838.22  | 1825.24  |
| Be 313.042 | 6.7817                   | 6.8346   | 6.7564   |
| Ca 370.602 | 2209u                    | 2165u    | 2211u    |
| Cd 226.502 | -0.8979                  | -1.1540  | -1.0131  |
| Co 228.615 | 41.6978                  | 42.1454  | 42.3060  |
| Cr 267.716 | 250.958                  | 251.941  | 250.426  |
| Cu 324.754 | 30.7946                  | 30.8435  | 30.7770  |
| Fe 271.441 | 222998                   | 224231   | 222366   |
| K 766.491  | 70879.7x                 | 71337.2x | 70948.5x |
| Mg 279.078 | 70041.9                  | 70384.3  | 69967.5  |
| Mn 257.610 | 5245.66                  | 5258.91  | 5233.73  |
| Mo 202.032 | 2.0586                   | 1.2877u  | 2.2491   |
| Na 330.237 | 839.681u                 | 865.277u | 890.835u |
| Ni 231.604 | 106.948                  | 106.933  | 105.758  |
| Pb 220.353 | 89.4807                  | 90.4099  | 85.4555  |
| Sb 206.834 | -3.8559                  | 0.9822   | 2.1064   |
| Se 196.026 | 4.9871                   | 4.1972   | 0.9364u  |
| Sn 189.925 | 28.1663                  | 25.8933  | 26.4022  |
| Sr 216.596 | 27.2319                  | 27.6686  | 26.8297  |
| Ti 334.941 | 14544.2                  | 14612.3  | 14511.2  |
| Tl 190.794 | 7.0593u                  | 12.2871u | 19.4496  |
| V 292.401  | 413.240                  | 415.870  | 413.024  |
| Zn 206.200 | 1825.03                  | 1837.27  | 1823.96  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.1441b    | ppb   | 0.1757  | 15.4   | -72.8717   |
| Al 308.215 | 227212b     | ppb   | 942.952 | 0.4    | 1403964    |
| As 188.980 | -0.8886b    | ppb   | 6.4332  | 724.0  | -7.1438    |
| B 249.678  | 7.5419b     | ppb   | 0.7635  | 10.1   | -212.898   |
| Ba 389.178 | 1830.12b    | ppb   | 7.0629  | 0.4    | 34613.5    |
| Be 313.042 | 6.7909b     | ppb   | 0.0399  | 0.6    | 11814.0    |
| Ca 370.602 | 2195b       | ppb   | 26.13   | 1.2    | -1745      |
| Cd 226.502 | -1.0217b    | ppb   | 0.1283  | 12.6   | 522.118    |
| Co 228.615 | 42.0497b    | ppb   | 0.3152  | 0.7    | 825.220    |
| Cr 267.716 | 251.109b    | ppb   | 0.7688  | 0.3    | 11716.1    |
| Cu 324.754 | 30.8051b    | ppb   | 0.0344  | 0.1    | 1957.50    |
| Fe 271.441 | 223198b     | ppb   | 948.404 | 0.4    | 350409     |
| K 766.491  | 71055.1xb   | ppb   | 246.685 | 0.3    | 2395757    |
| Mg 279.078 | 70131.2b    | ppb   | 222.313 | 0.3    | 149179     |
| Mn 257.610 | 5246.10b    | ppb   | 12.5921 | 0.2    | 1176408    |
| Mo 202.032 | 1.8651b     | ppb   | 0.5091  | 27.3   | 11.9926    |
| Na 330.237 | 865.265b    | ppb   | 25.5770 | 3.0    | -44.5274   |
| Ni 231.604 | 106.546b    | ppb   | 0.6826  | 0.6    | 281.028    |
| Pb 220.353 | 88.4487b    | ppb   | 2.6335  | 3.0    | 162.618    |
| Sb 206.834 | -0.2558b    | ppb   | 3.1681  | 1238.7 | 7.5763     |
| Se 196.026 | 3.3736b     | ppb   | 2.1473  | 63.6   | 6.4277     |
| Sn 189.925 | 26.8206b    | ppb   | 1.1929  | 4.4    | 7.8008     |
| Sr 216.596 | 27.2434b    | ppb   | 0.4196  | 1.5    | 491.965    |
| Ti 334.941 | 14555.9b    | ppb   | 51.5332 | 0.4    | 3784423    |
| Tl 190.794 | 12.9320b    | ppb   | 6.2203  | 48.1   | -11.3995   |
| V 292.401  | 414.045b    | ppb   | 1.5846  | 0.4    | 10269.3    |
| Zn 206.200 | 1828.75b    | ppb   | 7.3945  | 0.4    | 2361.41    |

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**680-90671-a-22-a (Samp) 5/30/2013, 10:23:47 PM Rack 2, Tube 47****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.9158u                 | -1.4189u | -1.5624u |
| Al 308.215 | 259144                   | 260893   | 263352   |
| As 188.980 | 13.6714                  | 17.6628  | 18.8182  |
| B 249.678  | 13.7322u                 | 12.5276u | 10.4177u |
| Ba 389.178 | 955.664                  | 963.220  | 971.856  |
| Be 313.042 | 11.3630                  | 11.4151  | 11.4993  |
| Ca 370.602 | 5082u                    | 5019u    | 5009u    |
| Cd 226.502 | -0.9476                  | -1.2038  | -0.9742  |
| Co 228.615 | 206.357                  | 208.276  | 208.564  |
| Cr 267.716 | 366.226                  | 368.089  | 371.831  |
| Cu 324.754 | 327.338                  | 326.544  | 327.490  |
| Fe 271.441 | 286000                   | 287361   | 289973   |
| K 766.491  | 32029.1                  | 32256.4  | 32494.4  |
| Mg 279.078 | 39275.4                  | 39499.8  | 39818.5  |
| Mn 257.610 | 3769.94                  | 3796.15  | 3824.94  |
| Mo 202.032 | 5.3346                   | 3.8804   | 6.1385   |
| Na 330.237 | 676.076u                 | 859.361u | 820.242u |
| Ni 231.604 | 107.516                  | 109.554  | 110.613  |
| Pb 220.353 | 192.385                  | 189.144  | 195.945  |
| Sb 206.834 | 2.0503                   | -1.0396  | 0.7768   |
| Se 196.026 | -12.6360u                | -6.1926u | 13.3561  |
| Sn 189.925 | 24.5651                  | 21.5379  | 23.2435  |
| Sr 216.596 | 27.3228                  | 27.5624  | 28.3439  |
| Ti 334.941 | 11030.4                  | 11105.4  | 11211.5  |
| Tl 190.794 | 8.8694u                  | 17.1200u | 15.7885u |
| V 292.401  | 850.407                  | 856.765  | 863.117  |
| Zn 206.200 | 612.137                  | 613.267  | 623.605  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.6324     | ppb   | 0.2557  | 15.7  | -111.863   |
| Al 308.215 | 261130      | ppb   | 2113.66 | 0.8   | 1613444    |
| As 188.980 | 16.7175     | ppb   | 2.7004  | 16.2  | 1.5262     |
| B 249.678  | 12.2258     | ppb   | 1.6777  | 13.7  | -271.792   |
| Ba 389.178 | 963.580     | ppb   | 8.1020  | 0.8   | 18419.9    |
| Be 313.042 | 11.4258     | ppb   | 0.0688  | 0.6   | 20046.2    |
| Ca 370.602 | 5037        | ppb   | 39.87   | 0.8   | -514.0     |
| Cd 226.502 | -1.0419     | ppb   | 0.1408  | 13.5  | 676.990    |
| Co 228.615 | 207.732     | ppb   | 1.1997  | 0.6   | 2658.19    |
| Cr 267.716 | 368.716     | ppb   | 2.8547  | 0.8   | 17152.8    |
| Cu 324.754 | 327.124     | ppb   | 0.5081  | 0.2   | 18369.2    |
| Fe 271.441 | 287778      | ppb   | 2019.40 | 0.7   | 451810     |
| K 766.491  | 32259.9     | ppb   | 232.631 | 0.7   | 1087844    |
| Mg 279.078 | 39531.2     | ppb   | 272.909 | 0.7   | 84080.0    |
| Mn 257.610 | 3797.01     | ppb   | 27.5112 | 0.7   | 851712     |
| Mo 202.032 | 5.1178      | ppb   | 1.1445  | 22.4  | 30.2398    |
| Na 330.237 | 785.226     | ppb   | 96.5294 | 12.3  | -38.2004   |
| Ni 231.604 | 109.228     | ppb   | 1.5743  | 1.4   | 289.085    |
| Pb 220.353 | 192.491     | ppb   | 3.4018  | 1.8   | 321.716    |
| Sb 206.834 | 0.5958      | ppb   | 1.5529  | 260.6 | 10.8806    |
| Se 196.026 | -1.8242     | ppb   | 13.5355 | 742.0 | 2.9057     |
| Sn 189.925 | 23.1155     | ppb   | 1.5176  | 6.6   | 4.7097     |
| Sr 216.596 | 27.7430     | ppb   | 0.5340  | 1.9   | 553.224    |
| Ti 334.941 | 11115.8     | ppb   | 90.9878 | 0.8   | 2889956    |
| Tl 190.794 | 13.9260     | ppb   | 4.4295  | 31.8  | -12.2735   |
| V 292.401  | 856.763     | ppb   | 6.3548  | 0.7   | 21010.6    |
| Zn 206.200 | 616.336     | ppb   | 6.3204  | 1.0   | 809.137    |

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680-90671-a-23-a (Samp) 5/30/2013, 10:28:24 PM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.9908u                 | -3.4206u | -2.2653u |
| Al 308.215 | 275027                   | 275156   | 277026   |
| As 188.980 | 37.5214                  | 35.6366  | 28.5747  |
| B 249.678  | 12.4531u                 | 11.9967u | 12.2824u |
| Ba 389.178 | 858.615                  | 855.053  | 860.240  |
| Be 313.042 | 10.9378                  | 10.9593  | 11.0317  |
| Ca 370.602 | 4618u                    | 4550u    | 4615u    |
| Cd 226.502 | -2.0441                  | -1.9288  | -1.2735  |
| Co 228.615 | 115.043                  | 115.839  | 116.116  |
| Cr 267.716 | 489.054                  | 489.034  | 492.049  |
| Cu 324.754 | 266.670                  | 267.874  | 272.234  |
| Fe 271.441 | 348105                   | 348604   | 350799   |
| K 766.491  | 19524.8                  | 19558.0  | 19570.7  |
| Mg 279.078 | 29651.9                  | 29636.3  | 29809.4  |
| Mn 257.610 | 3234.19                  | 3237.53  | 3253.35  |
| Mo 202.032 | 5.6873                   | 5.4532   | 6.7818   |
| Na 330.237 | 627.766u                 | 828.553u | 809.163u |
| Ni 231.604 | 138.321                  | 138.823  | 138.442  |
| Pb 220.353 | 155.892                  | 152.601  | 156.289  |
| Sb 206.834 | 6.3197                   | -0.3600  | 4.2453   |
| Se 196.026 | 0.5915u                  | -4.6583u | 16.2129  |
| Sn 189.925 | 24.2387                  | 26.6332  | 21.2379  |
| Sr 216.596 | 25.1295                  | 24.4710  | 25.8969  |
| Ti 334.941 | 10324.5                  | 10313.2  | 10402.8  |
| Tl 190.794 | 12.5373u                 | 8.4657u  | 8.6665u  |
| V 292.401  | 1003.48                  | 1003.92  | 1009.69  |
| Zn 206.200 | 361.075                  | 358.581  | 364.709  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.8922     | ppb   | 0.5839  | 20.2  | -204.889   |
| Al 308.215 | 275736      | ppb   | 1118.89 | 0.4   | 1703671    |
| As 188.980 | 33.9109     | ppb   | 4.7164  | 13.9  | 9.8577     |
| B 249.678  | 12.2441     | ppb   | 0.2306  | 1.9   | -388.173   |
| Ba 389.178 | 857.969     | ppb   | 2.6529  | 0.3   | 16494.9    |
| Be 313.042 | 10.9763     | ppb   | 0.0492  | 0.4   | 19242.5    |
| Ca 370.602 | 4594        | ppb   | 38.29   | 0.8   | -4679      |
| Cd 226.502 | -1.7488     | ppb   | 0.4156  | 23.8  | 801.758    |
| Co 228.615 | 115.666     | ppb   | 0.5573  | 0.5   | 1583.46    |
| Cr 267.716 | 490.046     | ppb   | 1.7348  | 0.4   | 22772.1    |
| Cu 324.754 | 268.926     | ppb   | 2.9275  | 1.1   | 15167.6    |
| Fe 271.441 | 349169      | ppb   | 1433.37 | 0.4   | 548174     |
| K 766.491  | 19551.1     | ppb   | 23.7167 | 0.1   | 659389     |
| Mg 279.078 | 29699.2     | ppb   | 95.7120 | 0.3   | 63171.2    |
| Mn 257.610 | 3241.69     | ppb   | 10.2353 | 0.3   | 727395     |
| Mo 202.032 | 5.9741      | ppb   | 0.7092  | 11.9  | 32.9035    |
| Na 330.237 | 755.161     | ppb   | 110.752 | 14.7  | -50.4249   |
| Ni 231.604 | 138.529     | ppb   | 0.2621  | 0.2   | 367.482    |
| Pb 220.353 | 154.928     | ppb   | 2.0243  | 1.3   | 269.948    |
| Sb 206.834 | 3.4017      | ppb   | 3.4188  | 100.5 | 16.0607    |
| Se 196.026 | 4.0487      | ppb   | 10.8566 | 268.2 | 4.7288     |
| Sn 189.925 | 24.0366     | ppb   | 2.7033  | 11.2  | 5.4758     |
| Sr 216.596 | 25.1658     | ppb   | 0.7137  | 2.8   | 578.683    |
| Ti 334.941 | 10346.9     | ppb   | 48.8161 | 0.5   | 2690026    |
| Tl 190.794 | 9.8898      | ppb   | 2.2950  | 23.2  | -16.1304   |
| V 292.401  | 1005.70     | ppb   | 3.4648  | 0.3   | 24625.6    |
| Zn 206.200 | 361.455     | ppb   | 3.0817  | 0.8   | 473.038    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90671-a-24-a (Samp)      5/30/2013, 10:42:11 PM      Rack 2, Tube 51  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.6265u                 | -2.1336u | -1.6618u |
| Al 308.215 | 183987                   | 184701   | 184556   |
| As 188.980 | 34.0351                  | 35.1260  | 33.2454  |
| B 249.678  | 13.7032u                 | 14.4377u | 15.2576u |
| Ba 389.178 | 666.166                  | 670.280  | 672.934  |
| Be 313.042 | 9.1361                   | 9.1749   | 9.1952   |
| Ca 370.602 | 3891u                    | 3882u    | 3888u    |
| Cd 226.502 | -2.1479                  | -1.7764  | -2.1451  |
| Co 228.615 | 131.929                  | 131.998  | 132.213  |
| Cr 267.716 | 491.525                  | 492.849  | 493.751  |
| Cu 324.754 | 155.682                  | 158.089  | 158.246  |
| Fe 271.441 | 269058                   | 269773   | 270082   |
| K 766.491  | 4005.23                  | 4023.23  | 4023.86  |
| Mg 279.078 | 6629.07                  | 6627.34  | 6636.48  |
| Mn 257.610 | 4106.06                  | 4116.27  | 4126.63  |
| Mo 202.032 | 10.8402                  | 10.3992  | 11.1804  |
| Na 330.237 | 615.185u                 | 657.923u | 705.686u |
| Ni 231.604 | 102.277                  | 100.875  | 102.057  |
| Pb 220.353 | 100.637                  | 99.8159  | 103.042  |
| Sb 206.834 | -4.3508                  | 5.1469   | 4.5670   |
| Se 196.026 | 5.8515                   | 10.2134  | 4.2573u  |
| Sn 189.925 | 17.1391                  | 17.6550  | 17.3659  |
| Sr 216.596 | 28.6855                  | 28.8118  | 29.9024  |
| Ti 334.941 | 5049.82                  | 5059.90  | 5077.08  |
| Tl 190.794 | 7.6115u                  | 11.3850u | 13.1473u |
| V 292.401  | 802.948                  | 806.389  | 805.986  |
| Zn 206.200 | 224.278                  | 225.570  | 228.005  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.1406     | ppb   | 0.4823  | 22.5  | -147.539   |
| Al 308.215 | 184414      | ppb   | 377.446 | 0.2   | 1139464    |
| As 188.980 | 34.1355     | ppb   | 0.9443  | 2.8   | 9.8782     |
| B 249.678  | 14.4662     | ppb   | 0.7776  | 5.4   | -206.871   |
| Ba 389.178 | 669.793     | ppb   | 3.4104  | 0.5   | 12836.1    |
| Be 313.042 | 9.1687      | ppb   | 0.0300  | 0.3   | 16029.4    |
| Ca 370.602 | 3887        | ppb   | 4.480   | 0.1   | -3896      |
| Cd 226.502 | -2.0231     | ppb   | 0.2137  | 10.6  | 600.435    |
| Co 228.615 | 132.047     | ppb   | 0.1481  | 0.1   | 1650.66    |
| Cr 267.716 | 492.708     | ppb   | 1.1194  | 0.2   | 22872.1    |
| Cu 324.754 | 157.339     | ppb   | 1.4370  | 0.9   | 8969.85    |
| Fe 271.441 | 269638      | ppb   | 525.261 | 0.2   | 423323     |
| K 766.491  | 4017.44     | ppb   | 10.5794 | 0.3   | 135697     |
| Mg 279.078 | 6630.96     | ppb   | 4.8577  | 0.1   | 14075.4    |
| Mn 257.610 | 4116.32     | ppb   | 10.2874 | 0.2   | 922937     |
| Mo 202.032 | 10.8066     | ppb   | 0.3917  | 3.6   | 69.7612    |
| Na 330.237 | 659.598     | ppb   | 45.2736 | 6.9   | -13.7543   |
| Ni 231.604 | 101.736     | ppb   | 0.7538  | 0.7   | 269.196    |
| Pb 220.353 | 101.165     | ppb   | 1.6764  | 1.7   | 189.399    |
| Sb 206.834 | 1.7877      | ppb   | 5.3240  | 297.8 | 12.6292    |
| Se 196.026 | 6.7741      | ppb   | 3.0833  | 45.5  | 7.1633     |
| Sn 189.925 | 17.3867     | ppb   | 0.2585  | 1.5   | -0.0685    |
| Sr 216.596 | 29.1332     | ppb   | 0.6691  | 2.3   | 552.087    |
| Ti 334.941 | 5062.27     | ppb   | 13.7857 | 0.3   | 1316063    |
| Tl 190.794 | 10.7146     | ppb   | 2.8281  | 26.4  | -13.4811   |
| V 292.401  | 805.108     | ppb   | 1.8813  | 0.2   | 19659.5    |
| Zn 206.200 | 225.951     | ppb   | 1.8927  | 0.8   | 206.806    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90671-a-25-a (Samp) 5/30/2013, 10:46:47 PM Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.9876u                 | -0.8903u | -0.8521u |
| Al 308.215 | 196210                   | 195341   | 194716   |
| As 188.980 | 3.4723                   | 4.4587   | 1.8907u  |
| B 249.678  | 8.7069u                  | 8.6663u  | 9.1070u  |
| Ba 389.178 | 1076.08                  | 1070.71  | 1066.78  |
| Be 313.042 | 16.1728                  | 16.0777  | 16.0350  |
| Ca 370.602 | 2609u                    | 2558u    | 2554u    |
| Cd 226.502 | -1.9163                  | -2.3630  | -2.4067  |
| Co 228.615 | 36.9227                  | 37.6028  | 36.6074  |
| Cr 267.716 | 329.231                  | 328.133  | 327.232  |
| Cu 324.754 | 125.073                  | 123.675  | 123.852  |
| Fe 271.441 | 316642                   | 314631   | 313715   |
| K 766.491  | 18027.0                  | 17877.6  | 17840.6  |
| Mg 279.078 | 16510.7                  | 16411.9  | 16383.6  |
| Mn 257.610 | 1204.13                  | 1197.12  | 1193.84  |
| Mo 202.032 | 2.2818u                  | 2.3881u  | 3.5634   |
| Na 330.237 | 948.326u                 | 994.643u | 990.483u |
| Ni 231.604 | 49.3761                  | 49.5731  | 50.9435  |
| Pb 220.353 | 24.4465                  | 24.8978  | 26.2949  |
| Sb 206.834 | -1.9327                  | 4.3512   | -2.5836  |
| Se 196.026 | 2.5736u                  | 19.9327  | 0.8615u  |
| Sn 189.925 | 12.0178                  | 16.4210  | 17.8649  |
| Sr 216.596 | 30.0786                  | 30.4044  | 29.9945  |
| Ti 334.941 | 11366.9                  | 11317.5  | 11284.0  |
| Tl 190.794 | 9.1152u                  | 16.4197u | 17.5268u |
| V 292.401  | 1206.58                  | 1199.69  | 1196.87  |
| Zn 206.200 | 211.705                  | 210.963  | 208.753  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.9100     | ppb   | 0.0699  | 7.7    | -69.1371   |
| Al 308.215 | 195422      | ppb   | 750.612 | 0.4    | 1207412    |
| As 188.980 | 3.2739      | ppb   | 1.2954  | 39.6   | -6.0225    |
| B 249.678  | 8.8267      | ppb   | 0.2436  | 2.8    | -369.808   |
| Ba 389.178 | 1071.19     | ppb   | 4.6706  | 0.4    | 20415.4    |
| Be 313.042 | 16.0952     | ppb   | 0.0705  | 0.4    | 28332.3    |
| Ca 370.602 | 2574        | ppb   | 30.96   | 1.2    | -6673      |
| Cd 226.502 | -2.2287     | ppb   | 0.2714  | 12.2   | 703.227    |
| Co 228.615 | 37.0443     | ppb   | 0.5087  | 1.4    | 698.647    |
| Cr 267.716 | 328.199     | ppb   | 1.0010  | 0.3    | 15271.3    |
| Cu 324.754 | 124.200     | ppb   | 0.7613  | 0.6    | 7146.45    |
| Fe 271.441 | 314996      | ppb   | 1497.02 | 0.5    | 494519     |
| K 766.491  | 17915.0     | ppb   | 98.6802 | 0.6    | 604230     |
| Mg 279.078 | 16435.4     | ppb   | 66.7271 | 0.4    | 34993.5    |
| Mn 257.610 | 1198.37     | ppb   | 5.2552  | 0.4    | 269455     |
| Mo 202.032 | 2.7444      | ppb   | 0.7112  | 25.9   | 12.2628    |
| Na 330.237 | 977.817     | ppb   | 25.6248 | 2.6    | -31.8328   |
| Ni 231.604 | 49.9642     | ppb   | 0.8538  | 1.7    | 134.403    |
| Pb 220.353 | 25.2131     | ppb   | 0.9637  | 3.8    | 75.9291    |
| Sb 206.834 | -0.0550     | ppb   | 3.8298  | 6960.7 | 10.5633    |
| Se 196.026 | 7.7893      | ppb   | 10.5513 | 135.5  | 6.4018     |
| Sn 189.925 | 15.4346     | ppb   | 3.0458  | 19.7   | -1.6990    |
| Sr 216.596 | 30.1592     | ppb   | 0.2165  | 0.7    | 602.820    |
| Ti 334.941 | 11322.8     | ppb   | 41.7201 | 0.4    | 2943684    |
| Tl 190.794 | 14.3539     | ppb   | 4.5705  | 31.8   | -12.4842   |
| V 292.401  | 1201.04     | ppb   | 4.9961  | 0.4    | 29411.4    |
| Zn 206.200 | 210.474     | ppb   | 1.5358  | 0.7    | 517.798    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

mb 680-278203/1-a (Samp) 5/30/2013, 10:51:22 PM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.0507u                 | -0.0395u  | -0.1388u  |
| Al 308.215 | 8.9585                   | 9.1533    | 9.1898    |
| As 188.980 | -3.0068u                 | 3.4023    | -2.6185u  |
| B 249.678  | 2.3396                   | 2.2682    | 1.9928    |
| Ba 389.178 | 0.5931                   | 0.5009    | -0.6228u  |
| Be 313.042 | 0.0029                   | 0.0055    | 0.0022    |
| Ca 370.602 | 12.11                    | 10.55     | 8.811     |
| Cd 226.502 | 0.0266                   | 0.1478    | 0.0639    |
| Co 228.615 | -0.0670u                 | 0.0112    | -0.1970u  |
| Cr 267.716 | 0.1236                   | 0.1243    | 0.1846    |
| Cu 324.754 | -0.2586u                 | -0.4601u  | -0.0299u  |
| Fe 271.441 | 16.3813                  | 12.8772   | 18.8002   |
| K 766.491  | 3.3883                   | 2.1024    | 3.3383    |
| Mg 279.078 | 12.2948                  | 11.3237   | 11.6505   |
| Mn 257.610 | 0.0806                   | 0.0909    | 0.0667    |
| Mo 202.032 | -0.2236u                 | -0.4358u  | 0.5706    |
| Na 330.237 | -120.430u                | -54.9563u | -56.1105u |
| Ni 231.604 | 0.0998                   | 1.3903    | 0.6341    |
| Pb 220.353 | -3.8093u                 | 0.5414    | -0.5124u  |
| Sb 206.834 | -1.8359u                 | -3.5775u  | -3.5908u  |
| Se 196.026 | -3.5468u                 | 6.3388    | -3.0695u  |
| Sn 189.925 | 3.0626                   | 6.1683    | 3.2249    |
| Sr 216.596 | 0.1659                   | 0.1983    | 0.2180    |
| Ti 334.941 | 1.0759                   | 0.9231    | 0.9412    |
| Tl 190.794 | -5.7908u                 | 2.5295    | 0.5517    |
| V 292.401  | 0.2999                   | 0.0135    | 0.5884    |
| Zn 206.200 | 1.5665                   | 0.3965    | 1.5573    |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0763     | ppb   | 0.0544  | 71.2   | -18.8747   |
| Al 308.215 | 9.1005      | ppb   | 0.1243  | 1.4    | 238.910    |
| As 188.980 | -0.7410     | ppb   | 3.5935  | 485.0  | -7.0945    |
| B 249.678  | 2.2002      | ppb   | 0.1831  | 8.3    | 137.950    |
| Ba 389.178 | 0.1571      | ppb   | 0.6770  | 431.0  | -10.0549   |
| Be 313.042 | 0.0035      | ppb   | 0.0018  | 49.9   | -248.530   |
| Ca 370.602 | 10.49       | ppb   | 1.649   | 15.7   | 17.46      |
| Cd 226.502 | 0.0795      | ppb   | 0.0620  | 78.1   | 18.9651    |
| Co 228.615 | -0.0843     | ppb   | 0.1051  | 124.8  | 5.3919     |
| Cr 267.716 | 0.1442      | ppb   | 0.0350  | 24.3   | 13.7667    |
| Cu 324.754 | -0.2495     | ppb   | 0.2152  | 86.3   | 170.705    |
| Fe 271.441 | 16.0195     | ppb   | 2.9780  | 18.6   | 42.0521    |
| K 766.491  | 2.9430      | ppb   | 0.7284  | 24.8   | 355.132    |
| Mg 279.078 | 11.7563     | ppb   | 0.4941  | 4.2    | 60.4350    |
| Mn 257.610 | 0.0794      | ppb   | 0.0121  | 15.3   | 48.4088    |
| Mo 202.032 | -0.0296     | ppb   | 0.5305  | 1792.8 | 10.3599    |
| Na 330.237 | -77.1656    | ppb   | 37.4726 | 48.6   | 45.3018    |
| Ni 231.604 | 0.7081      | ppb   | 0.6484  | 91.6   | -1.3887    |
| Pb 220.353 | -1.2601     | ppb   | 2.2697  | 180.1  | 25.2155    |
| Sb 206.834 | -3.0014     | ppb   | 1.0094  | 33.6   | -2.3625    |
| Se 196.026 | -0.0925     | ppb   | 5.5748  | 6025.1 | 6.3657     |
| Sn 189.925 | 4.1519      | ppb   | 1.7481  | 42.1   | -11.1011   |
| Sr 216.596 | 0.1940      | ppb   | 0.0263  | 13.6   | 17.0895    |
| Ti 334.941 | 0.9801      | ppb   | 0.0835  | 8.5    | 196.243    |
| Tl 190.794 | -0.9032     | ppb   | 4.3468  | 481.3  | -10.1689   |
| V 292.401  | 0.3006      | ppb   | 0.2874  | 95.6   | -11.0810   |
| Zn 206.200 | 1.1734      | ppb   | 0.6728  | 57.3   | 64.792     |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

ics 680-278203/2-a (Samp) 5/30/2013, 10:55:58 PM Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 47.5570                  | 47.9977 | 48.2385 |
| Al 308.215 | 4702.47                  | 4736.06 | 4736.83 |
| As 188.980 | 108.842                  | 101.785 | 104.121 |
| B 249.678  | 186.399                  | 187.638 | 189.011 |
| Ba 389.178 | 94.6845                  | 95.0287 | 95.9577 |
| Be 313.042 | 49.0705                  | 49.4698 | 49.4879 |
| Ca 370.602 | 4660                     | 4699    | 4692    |
| Cd 226.502 | 48.6145                  | 48.9270 | 48.9423 |
| Co 228.615 | 48.7271                  | 48.8242 | 49.0928 |
| Cr 267.716 | 97.6809                  | 98.3861 | 98.7389 |
| Cu 324.754 | 97.6138                  | 98.4306 | 98.9484 |
| Fe 271.441 | 4727.61                  | 4752.05 | 4755.94 |
| K 766.491  | 4764.97                  | 4779.75 | 4783.44 |
| Mg 279.078 | 4771.05                  | 4791.72 | 4795.11 |
| Mn 257.610 | 498.882                  | 502.262 | 503.212 |
| Mo 202.032 | 97.9444                  | 97.7868 | 98.5522 |
| Na 330.237 | 4727.03                  | 4691.21 | 4710.35 |
| Ni 231.604 | 95.6126                  | 97.2205 | 97.7632 |
| Pb 220.353 | 45.7734                  | 49.2234 | 44.1216 |
| Sb 206.834 | 46.8553                  | 40.8577 | 40.8743 |
| Se 196.026 | 90.3362                  | 99.5681 | 95.8492 |
| Sn 189.925 | 200.829                  | 203.690 | 205.642 |
| Sr 216.596 | 95.4110                  | 94.7563 | 95.4112 |
| Ti 334.941 | 95.8483                  | 96.5259 | 96.5671 |
| Tl 190.794 | 39.7144                  | 40.4646 | 36.8548 |
| V 292.401  | 96.8406                  | 97.1322 | 97.5047 |
| Zn 206.200 | 97.3852                  | 98.6088 | 96.0066 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 47.9311     | ppb   | 0.3456  | 0.7  | 3464.73    |
| Al 308.215 | 4725.12     | ppb   | 19.6207 | 0.4  | 29364.0    |
| As 188.980 | 104.916     | ppb   | 3.5951  | 3.4  | 46.3875    |
| B 249.678  | 187.683     | ppb   | 1.3069  | 0.7  | 2656.67    |
| Ba 389.178 | 95.2237     | ppb   | 0.6586  | 0.7  | 1783.69    |
| Be 313.042 | 49.3427     | ppb   | 0.2359  | 0.5  | 87465.8    |
| Ca 370.602 | 4684        | ppb   | 21.14   | 0.5  | 9014       |
| Cd 226.502 | 48.8280     | ppb   | 0.1850  | 0.4  | 1639.38    |
| Co 228.615 | 48.8814     | ppb   | 0.1894  | 0.4  | 568.895    |
| Cr 267.716 | 98.2686     | ppb   | 0.5387  | 0.5  | 4553.18    |
| Cu 324.754 | 98.3310     | ppb   | 0.6729  | 0.7  | 5628.64    |
| Fe 271.441 | 4745.20     | ppb   | 15.3589 | 0.3  | 7472.74    |
| K 766.491  | 4776.05     | ppb   | 9.7739  | 0.2  | 161272     |
| Mg 279.078 | 4785.96     | ppb   | 13.0236 | 0.3  | 10212.3    |
| Mn 257.610 | 501.452     | ppb   | 2.2758  | 0.5  | 112416     |
| Mo 202.032 | 98.0945     | ppb   | 0.4042  | 0.4  | 675.282    |
| Na 330.237 | 4709.53     | ppb   | 17.9230 | 0.4  | 266.991    |
| Ni 231.604 | 96.8654     | ppb   | 1.1184  | 1.2  | 251.042    |
| Pb 220.353 | 46.3728     | ppb   | 2.6032  | 5.6  | 95.9783    |
| Sb 206.834 | 42.8624     | ppb   | 3.4579  | 8.1  | 42.9366    |
| Se 196.026 | 95.2512     | ppb   | 4.6449  | 4.9  | 50.3484    |
| Sn 189.925 | 203.387     | ppb   | 2.4208  | 1.2  | 155.091    |
| Sr 216.596 | 95.1928     | ppb   | 0.3781  | 0.4  | 1015.23    |
| Ti 334.941 | 96.3138     | ppb   | 0.4036  | 0.4  | 25000.8    |
| Tl 190.794 | 39.0113     | ppb   | 1.9049  | 4.9  | 9.0775     |
| V 292.401  | 97.1592     | ppb   | 0.3329  | 0.3  | 2332.83    |
| Zn 206.200 | 97.3335     | ppb   | 1.3018  | 1.3  | 139.055    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-12-a (Samp) 5/30/2013, 11:00:33 PM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.6252u                 | -0.1168u | -0.1316u |
| Al 308.215 | 139548                   | 138695   | 141423   |
| As 188.980 | 1.2841                   | 0.7035   | 0.8026   |
| B 249.678  | 6.0222                   | 5.5378   | 5.4487   |
| Ba 389.178 | 310.721                  | 307.724  | 313.757  |
| Be 313.042 | 1.1731                   | 1.1746   | 1.1841   |
| Ca 370.602 | 33.24u                   | 28.90u   | 27.75u   |
| Cd 226.502 | 0.5495                   | 0.4089   | 0.5091   |
| Co 228.615 | 7.9937                   | 7.9359   | 8.5914   |
| Cr 267.716 | 7.4898                   | 7.0221   | 7.6180   |
| Cu 324.754 | 77.1582                  | 77.7283  | 80.0401  |
| Fe 271.441 | 7407.51                  | 7360.61  | 7523.05  |
| K 766.491  | 2093.09                  | 2074.85  | 2114.50  |
| Mg 279.078 | 1440.50                  | 1434.58  | 1459.93  |
| Mn 257.610 | 89.8605                  | 89.2111  | 91.2304  |
| Mo 202.032 | 0.4696                   | 0.6393   | 0.4398   |
| Na 330.237 | -36.2035u                | 249.941  | -9.0624u |
| Ni 231.604 | 65.4874                  | 64.5999  | 64.9718  |
| Pb 220.353 | 115.631                  | 119.213  | 119.516  |
| Sb 206.834 | -4.6929u                 | -3.1513u | -1.3636u |
| Se 196.026 | -3.9151u                 | -4.4000u | -4.8427u |
| Sn 189.925 | 11.3108                  | 13.1545  | 12.9936  |
| Sr 216.596 | 2.0838                   | 1.5855   | 1.8401   |
| Ti 334.941 | 413.050                  | 409.344  | 417.248  |
| Tl 190.794 | 0.9116                   | -4.3171u | -2.1179u |
| V 292.401  | 6.7520                   | 6.8951   | 7.1107   |
| Zn 206.200 | 44.7699                  | 44.3425  | 45.4620  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2912     | ppb   | 0.2893  | 99.4  | -33.4574   |
| Al 308.215 | 139889      | ppb   | 1395.85 | 1.0   | 864500     |
| As 188.980 | 0.9301      | ppb   | 0.3106  | 33.4  | -5.1900    |
| B 249.678  | 5.6696      | ppb   | 0.3086  | 5.4   | 171.149    |
| Ba 389.178 | 310.734     | ppb   | 3.0164  | 1.0   | 5809.10    |
| Be 313.042 | 1.1773      | ppb   | 0.0060  | 0.5   | 1850.39    |
| Ca 370.602 | 29.96       | ppb   | 2.897   | 9.7   | -170.9     |
| Cd 226.502 | 0.4892      | ppb   | 0.0724  | 14.8  | 50.4096    |
| Co 228.615 | 8.1737      | ppb   | 0.3629  | 4.4   | 109.972    |
| Cr 267.716 | 7.3766      | ppb   | 0.3136  | 4.3   | 352.267    |
| Cu 324.754 | 78.3088     | ppb   | 1.5262  | 1.9   | 4519.71    |
| Fe 271.441 | 7430.39     | ppb   | 83.6031 | 1.1   | 11682.4    |
| K 766.491  | 2094.15     | ppb   | 19.8422 | 0.9   | 70856.5    |
| Mg 279.078 | 1445.00     | ppb   | 13.2622 | 0.9   | 3068.91    |
| Mn 257.610 | 90.1007     | ppb   | 1.0309  | 1.1   | 20245.8    |
| Mo 202.032 | 0.5162      | ppb   | 0.1076  | 20.8  | 13.7007    |
| Na 330.237 | 68.2250     | ppb   | 157.955 | 231.5 | 48.1360    |
| Ni 231.604 | 65.0197     | ppb   | 0.4457  | 0.7   | 167.630    |
| Pb 220.353 | 118.120     | ppb   | 2.1610  | 1.8   | 200.241    |
| Sb 206.834 | -3.0693     | ppb   | 1.6662  | 54.3  | -2.1956    |
| Se 196.026 | -4.3859     | ppb   | 0.4640  | 10.6  | 4.3173     |
| Sn 189.925 | 12.4863     | ppb   | 1.0212  | 8.2   | -4.1493    |
| Sr 216.596 | 1.8365      | ppb   | 0.2492  | 13.6  | 39.6536    |
| Ti 334.941 | 413.214     | ppb   | 3.9545  | 1.0   | 107379     |
| Tl 190.794 | -1.8412     | ppb   | 2.6253  | 142.6 | -10.8636   |
| V 292.401  | 6.9193      | ppb   | 0.1806  | 2.6   | 154.817    |
| Zn 206.200 | 44.8582     | ppb   | 0.5649  | 1.3   | 627837     |

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**680-90599-a-12-aSD^5 (Samp) 5/30/2013, 11:05:09 PM Rack 2, Tube 56****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.1621u                 | -0.4595u  | -0.2541u  |
| Al 308.215 | 29714.7                  | 29139.2   | 29106.2   |
| As 188.980 | -1.4245u                 | 8.3014    | -2.0482u  |
| B 249.678  | 3.0264                   | 3.0985    | 2.9518    |
| Ba 389.178 | 67.0157                  | 65.5958   | 65.2229   |
| Be 313.042 | 0.2345                   | 0.2371    | 0.2312    |
| Ca 370.602 | -0.0816u                 | 1.697u    | 0.3182u   |
| Cd 226.502 | 0.0306                   | 0.2614    | 0.2257    |
| Co 228.615 | 2.1503                   | 2.0132    | 0.7592    |
| Cr 267.716 | 1.4551                   | 1.3672    | 1.5363    |
| Cu 324.754 | 16.1040                  | 16.3743   | 16.0504   |
| Fe 271.441 | 1581.14                  | 1551.68   | 1543.48   |
| K 766.491  | 408.355                  | 401.599   | 402.823   |
| Mg 279.078 | 304.972                  | 299.878   | 297.637   |
| Mn 257.610 | 19.0639                  | 18.7882   | 18.7513   |
| Mo 202.032 | 0.5714                   | -0.4229u  | 0.2322    |
| Na 330.237 | -16.8818u                | -35.4520u | -62.9868u |
| Ni 231.604 | 15.7724                  | 13.8100   | 14.8595   |
| Pb 220.353 | 21.9622                  | 21.6929   | 21.3173   |
| Sb 206.834 | -0.6625u                 | -4.1236u  | -7.8214u  |
| Se 196.026 | -4.2669u                 | -0.1101u  | -8.6149u  |
| Sn 189.925 | 6.3251                   | 0.9967    | 2.2117    |
| Sr 216.596 | 0.0061                   | 0.2050    | 0.4738    |
| Ti 334.941 | 87.8188                  | 86.2233   | 86.3411   |
| Tl 190.794 | 2.8969                   | -2.8901u  | -3.5580u  |
| V 292.401  | 1.6555                   | 1.5892    | 1.5571    |
| Zn 206.200 | 10.3707                  | 9.2799    | 9.0698    |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2919     | ppb   | 0.1523  | 52.2  | -34.2868   |
| Al 308.215 | 29320.0     | ppb   | 342.159 | 1.2   | 181340     |
| As 188.980 | 1.6096      | ppb   | 5.8037  | 360.6 | -5.6826    |
| B 249.678  | 3.0256      | ppb   | 0.0734  | 2.4   | 146.268    |
| Ba 389.178 | 65.9448     | ppb   | 0.9460  | 1.4   | 1222.52    |
| Be 313.042 | 0.2343      | ppb   | 0.0030  | 1.3   | 164.234    |
| Ca 370.602 | 0.6445      | ppb   | 0.9331  | 144.8 | -49.07     |
| Cd 226.502 | 0.1725      | ppb   | 0.1242  | 72.0  | 25.7677    |
| Co 228.615 | 1.6409      | ppb   | 0.7666  | 46.7  | 27.2312    |
| Cr 267.716 | 1.4529      | ppb   | 0.0846  | 5.8   | 75.1273    |
| Cu 324.754 | 16.1762     | ppb   | 0.1736  | 1.1   | 1080.04    |
| Fe 271.441 | 1558.77     | ppb   | 19.8052 | 1.3   | 2464.12    |
| K 766.491  | 404.259     | ppb   | 3.5998  | 0.9   | 13884.8    |
| Mg 279.078 | 300.829     | ppb   | 3.7588  | 1.2   | 666.896    |
| Mn 257.610 | 18.8678     | ppb   | 0.1708  | 0.9   | 4263.73    |
| Mo 202.032 | 0.1269      | ppb   | 0.5054  | 398.4 | 11.3460    |
| Na 330.237 | -38.4402    | ppb   | 23.1973 | 60.3  | 46.2998    |
| Ni 231.604 | 14.8140     | ppb   | 0.9820  | 6.6   | 35.6813    |
| Pb 220.353 | 21.6575     | ppb   | 0.3239  | 1.5   | 58.7811    |
| Sb 206.834 | -4.2025     | ppb   | 3.5801  | 85.2  | -3.4989    |
| Se 196.026 | -4.3307     | ppb   | 4.2528  | 98.2  | 4.3986     |
| Sn 189.925 | 3.1778      | ppb   | 2.7925  | 87.9  | -11.9137   |
| Sr 216.596 | 0.2283      | ppb   | 0.2347  | 102.8 | 18.5486    |
| Ti 334.941 | 86.7944     | ppb   | 0.8891  | 1.0   | 22508.4    |
| Tl 190.794 | -1.1837     | ppb   | 3.5497  | 299.9 | -10.3551   |
| V 292.401  | 1.6006      | ppb   | 0.0502  | 3.1   | 21.5586    |
| Zn 206.200 | 9.5735      | ppb   | 0.6984  | 7.3   | 5173071    |

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**680-90599-a-12-aPDS (Samp) 5/30/2013, 11:09:44 PM Rack 2, Tube 57****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 47.2544                  | 47.5377 | 47.4637 |
| Al 308.215 | 138780                   | 140288  | 139897  |
| As 188.980 | 2081.67                  | 2104.18 | 2093.74 |
| B 249.678  | 985.607                  | 1000.73 | 1000.32 |
| Ba 389.178 | 2201.01                  | 2227.00 | 2221.74 |
| Be 313.042 | 49.7970                  | 50.3064 | 50.1666 |
| Ca 370.602 | 4792                     | 4869    | 4866    |
| Cd 226.502 | 48.5646                  | 48.8146 | 48.8455 |
| Co 228.615 | 496.954                  | 500.990 | 501.087 |
| Cr 267.716 | 199.420                  | 201.560 | 201.556 |
| Cu 324.754 | 323.584                  | 330.162 | 325.558 |
| Fe 271.441 | 8155.68                  | 8252.45 | 8233.00 |
| K 766.491  | 7510.05                  | 7595.03 | 7556.26 |
| Mg 279.078 | 6311.01                  | 6382.68 | 6368.37 |
| Mn 257.610 | 584.256                  | 591.408 | 590.322 |
| Mo 202.032 | 510.813                  | 515.403 | 515.251 |
| Na 330.237 | 5001.40                  | 5146.51 | 5155.65 |
| Ni 231.604 | 537.252                  | 543.810 | 547.412 |
| Pb 220.353 | 602.264                  | 601.282 | 606.407 |
| Sb 206.834 | 465.270                  | 470.114 | 473.392 |
| Se 196.026 | 1977.37                  | 2007.32 | 2013.77 |
| Sn 189.925 | 994.324                  | 1001.69 | 1001.01 |
| Sr 216.596 | 491.913                  | 496.263 | 496.069 |
| Ti 334.941 | 1375.22                  | 1388.31 | 1385.93 |
| Tl 190.794 | 1976.85                  | 2010.88 | 2030.66 |
| V 292.401  | 483.322                  | 490.214 | 488.744 |
| Zn 206.200 | 517.460                  | 525.735 | 522.457 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 47.4186     | ppb   | 0.1469  | 0.3  | 3413.58    |
| Al 308.215 | 139655      | ppb   | 782.582 | 0.6  | 862980     |
| As 188.980 | 2093.20     | ppb   | 11.2614 | 0.5  | 1054.19    |
| B 249.678  | 995.552     | ppb   | 8.6155  | 0.9  | 13659.4    |
| Ba 389.178 | 2216.58     | ppb   | 13.7419 | 0.6  | 41461.9    |
| Be 313.042 | 50.0900     | ppb   | 0.2632  | 0.5  | 88730.7    |
| Ca 370.602 | 4842        | ppb   | 43.89   | 0.9  | 9586       |
| Cd 226.502 | 48.7416     | ppb   | 0.1540  | 0.3  | 1645.01    |
| Co 228.615 | 499.677     | ppb   | 2.3588  | 0.5  | 5776.10    |
| Cr 267.716 | 200.845     | ppb   | 1.2345  | 0.6  | 9297.55    |
| Cu 324.754 | 326.435     | ppb   | 3.3756  | 1.0  | 18259.2    |
| Fe 271.441 | 8213.71     | ppb   | 51.1863 | 0.6  | 12974.5    |
| K 766.491  | 7553.78     | ppb   | 42.5443 | 0.6  | 254919     |
| Mg 279.078 | 6354.02     | ppb   | 37.9285 | 0.6  | 13508.6    |
| Mn 257.610 | 588.662     | ppb   | 3.8543  | 0.7  | 131975     |
| Mo 202.032 | 513.822     | ppb   | 2.6073  | 0.5  | 3493.20    |
| Na 330.237 | 5101.19     | ppb   | 86.5349 | 1.7  | 274.411    |
| Ni 231.604 | 542.825     | ppb   | 5.1513  | 0.9  | 1420.95    |
| Pb 220.353 | 603.318     | ppb   | 2.7201  | 0.5  | 918.528    |
| Sb 206.834 | 469.592     | ppb   | 4.0861  | 0.9  | 458.904    |
| Se 196.026 | 1999.49     | ppb   | 19.4268 | 1.0  | 927.618    |
| Sn 189.925 | 999.009     | ppb   | 4.0712  | 0.4  | 818.747    |
| Sr 216.596 | 494.748     | ppb   | 2.4572  | 0.5  | 5196.43    |
| Ti 334.941 | 1383.15     | ppb   | 6.9720  | 0.5  | 359558     |
| Tl 190.794 | 2006.13     | ppb   | 27.2134 | 1.4  | 967.462    |
| V 292.401  | 487.427     | ppb   | 3.6303  | 0.7  | 11799.7    |
| Zn 206.200 | 521.884     | ppb   | 4.1671  | 0.8  | 676.541    |

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**680-90599-a-12-b ms (Samp) 5/30/2013, 11:14:20 PM Rack 2, Tube 58****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 47.8674                  | 48.4710 | 48.2828 |
| Al 308.215 | 140334                   | 140805  | 139888  |
| As 188.980 | 100.163                  | 103.328 | 101.010 |
| B 249.678  | 187.811                  | 188.307 | 185.632 |
| Ba 389.178 | 382.143                  | 383.911 | 381.154 |
| Be 313.042 | 51.2892                  | 51.5242 | 51.2218 |
| Ca 370.602 | 4645                     | 4667    | 4618    |
| Cd 226.502 | 49.0034                  | 49.3623 | 49.1890 |
| Co 228.615 | 56.9977                  | 55.4833 | 57.2747 |
| Cr 267.716 | 104.679                  | 104.958 | 104.419 |
| Cu 324.754 | 175.011                  | 175.659 | 175.627 |
| Fe 271.441 | 11773.6                  | 11814.1 | 11753.7 |
| K 766.491  | 7145.96                  | 7176.57 | 7140.34 |
| Mg 279.078 | 6134.39                  | 6147.96 | 6126.19 |
| Mn 257.610 | 591.439                  | 593.664 | 589.381 |
| Mo 202.032 | 97.6884                  | 98.9050 | 98.7892 |
| Na 330.237 | 4910.96                  | 4873.67 | 4809.46 |
| Ni 231.604 | 157.404                  | 157.657 | 154.747 |
| Pb 220.353 | 156.938                  | 152.995 | 157.754 |
| Sb 206.834 | 34.9301                  | 34.9624 | 33.5820 |
| Se 196.026 | 93.4626                  | 102.730 | 100.336 |
| Sn 189.925 | 195.687                  | 196.719 | 189.672 |
| Sr 216.596 | 95.6074                  | 97.6337 | 95.9290 |
| Ti 334.941 | 553.655                  | 556.450 | 552.614 |
| Tl 190.794 | 42.8892                  | 30.3024 | 44.0202 |
| V 292.401  | 102.598                  | 103.361 | 103.165 |
| Zn 206.200 | 138.225                  | 138.355 | 136.551 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 48.2070     | ppb   | 0.3088  | 0.6  | 3485.79    |
| Al 308.215 | 140342      | ppb   | 458.228 | 0.3  | 867289     |
| As 188.980 | 101.500     | ppb   | 1.6384  | 1.6  | 45.6845    |
| B 249.678  | 187.250     | ppb   | 1.4234  | 0.8  | 2637.41    |
| Ba 389.178 | 382.403     | ppb   | 1.3965  | 0.4  | 7164.70    |
| Be 313.042 | 51.3450     | ppb   | 0.1588  | 0.3  | 91037.6    |
| Ca 370.602 | 4644        | ppb   | 24.39   | 0.5  | 8742       |
| Cd 226.502 | 49.1849     | ppb   | 0.1795  | 0.4  | 1668.17    |
| Co 228.615 | 56.5852     | ppb   | 0.9643  | 1.7  | 668.120    |
| Cr 267.716 | 104.685     | ppb   | 0.2691  | 0.3  | 4853.92    |
| Cu 324.754 | 175.433     | ppb   | 0.3651  | 0.2  | 9896.92    |
| Fe 271.441 | 11780.5     | ppb   | 30.7930 | 0.3  | 18517.9    |
| K 766.491  | 7154.29     | ppb   | 19.5002 | 0.3  | 241450     |
| Mg 279.078 | 6136.18     | ppb   | 10.9914 | 0.2  | 13045.3    |
| Mn 257.610 | 591.495     | ppb   | 2.1419  | 0.4  | 132617     |
| Mo 202.032 | 98.4609     | ppb   | 0.6714  | 0.7  | 677.425    |
| Na 330.237 | 4864.70     | ppb   | 51.3422 | 1.1  | 270.277    |
| Ni 231.604 | 156.603     | ppb   | 1.6118  | 1.0  | 408.044    |
| Pb 220.353 | 155.896     | ppb   | 2.5448  | 1.6  | 256.414    |
| Sb 206.834 | 34.4915     | ppb   | 0.7878  | 2.3  | 34.9216    |
| Se 196.026 | 98.8429     | ppb   | 4.8108  | 4.9  | 51.9374    |
| Sn 189.925 | 194.026     | ppb   | 3.8056  | 2.0  | 147.283    |
| Sr 216.596 | 96.3901     | ppb   | 1.0890  | 1.1  | 1032.87    |
| Ti 334.941 | 554.240     | ppb   | 1.9838  | 0.4  | 144062     |
| Tl 190.794 | 39.0706     | ppb   | 7.6145  | 19.5 | 8.8795     |
| V 292.401  | 103.041     | ppb   | 0.3962  | 0.4  | 2481.49    |
| Zn 206.200 | 137.710     | ppb   | 1.0962  | 0.7  | 182.098    |

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**680-90599-a-12-c msd (Samp) 5/30/2013, 11:18:56 PM Rack 2, Tube 59****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 47.7540                  | 47.7548 | 48.1973 |
| Al 308.215 | 138973                   | 138604  | 138335  |
| As 188.980 | 95.5865                  | 91.5260 | 100.053 |
| B 249.678  | 175.511                  | 174.520 | 174.405 |
| Ba 389.178 | 389.226                  | 390.467 | 388.460 |
| Be 313.042 | 50.2298                  | 50.1147 | 50.0187 |
| Ca 370.602 | 4574                     | 4584    | 4565    |
| Cd 226.502 | 48.2742                  | 48.2268 | 47.9301 |
| Co 228.615 | 55.8877                  | 55.5354 | 55.0440 |
| Cr 267.716 | 102.751                  | 102.850 | 102.286 |
| Cu 324.754 | 176.073                  | 177.218 | 176.662 |
| Fe 271.441 | 12072.4                  | 12043.8 | 12001.1 |
| K 766.491  | 7050.26                  | 7055.94 | 7028.95 |
| Mg 279.078 | 6119.58                  | 6100.23 | 6074.11 |
| Mn 257.610 | 581.921                  | 581.330 | 578.557 |
| Mo 202.032 | 96.5588                  | 96.0303 | 95.0817 |
| Na 330.237 | 4776.75                  | 4790.60 | 4593.78 |
| Ni 231.604 | 158.043                  | 157.490 | 155.582 |
| Pb 220.353 | 155.950                  | 155.084 | 157.853 |
| Sb 206.834 | 34.7359                  | 36.4243 | 38.7648 |
| Se 196.026 | 91.1431                  | 88.8654 | 91.7183 |
| Sn 189.925 | 200.300                  | 190.870 | 192.688 |
| Sr 216.596 | 94.4074                  | 93.6666 | 94.5170 |
| Ti 334.941 | 546.759                  | 545.768 | 544.436 |
| Tl 190.794 | 41.1844                  | 32.8214 | 36.6121 |
| V 292.401  | 101.342                  | 101.828 | 101.163 |
| Zn 206.200 | 136.039                  | 140.505 | 138.024 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 47.9020     | ppb   | 0.2557  | 0.5  | 3463.69    |
| Al 308.215 | 138637      | ppb   | 320.191 | 0.2  | 856756     |
| As 188.980 | 95.7217     | ppb   | 4.2650  | 4.5  | 42.7425    |
| B 249.678  | 174.812     | ppb   | 0.6080  | 0.3  | 2467.42    |
| Ba 389.178 | 389.384     | ppb   | 1.0127  | 0.3  | 7295.46    |
| Be 313.042 | 50.1210     | ppb   | 0.1057  | 0.2  | 88861.5    |
| Ca 370.602 | 4575        | ppb   | 9.234   | 0.2  | 8591       |
| Cd 226.502 | 48.1437     | ppb   | 0.1865  | 0.4  | 1634.43    |
| Co 228.615 | 55.4891     | ppb   | 0.4238  | 0.8  | 655.375    |
| Cr 267.716 | 102.629     | ppb   | 0.3008  | 0.3  | 4758.84    |
| Cu 324.754 | 176.651     | ppb   | 0.5726  | 0.3  | 9964.35    |
| Fe 271.441 | 12039.1     | ppb   | 35.8809 | 0.3  | 18923.8    |
| K 766.491  | 7045.05     | ppb   | 14.2282 | 0.2  | 237768     |
| Mg 279.078 | 6097.98     | ppb   | 22.8167 | 0.4  | 12964.8    |
| Mn 257.610 | 580.603     | ppb   | 1.7959  | 0.3  | 130177     |
| Mo 202.032 | 95.8903     | ppb   | 0.7485  | 0.8  | 659.986    |
| Na 330.237 | 4720.38     | ppb   | 109.850 | 2.3  | 263.461    |
| Ni 231.604 | 157.038     | ppb   | 1.2913  | 0.8  | 409.194    |
| Pb 220.353 | 156.296     | ppb   | 1.4167  | 0.9  | 257.058    |
| Sb 206.834 | 36.6417     | ppb   | 2.0232  | 5.5  | 37.0484    |
| Se 196.026 | 90.5756     | ppb   | 1.5087  | 1.7  | 48.1229    |
| Sn 189.925 | 194.619     | ppb   | 5.0030  | 2.6  | 147.777    |
| Sr 216.596 | 94.1970     | ppb   | 0.4626  | 0.5  | 1010.12    |
| Ti 334.941 | 545.654     | ppb   | 1.1656  | 0.2  | 141830     |
| Tl 190.794 | 36.8726     | ppb   | 4.1876  | 11.4 | 7.8022     |
| V 292.401  | 101.444     | ppb   | 0.3439  | 0.3  | 2442.93    |
| Zn 206.200 | 138.189     | ppb   | 2.2380  | 1.6  | 182.724    |

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680-90599-a-14-a (Samp) 5/30/2013, 11:23:32 PM Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.4419u                 | -3.0017u | -1.9576u |
| Al 308.215 | 196340                   | 197007   | 198184   |
| As 188.980 | 44.5882                  | 40.2135  | 30.1450  |
| B 249.678  | 21.7122u                 | 21.1778u | 20.9091u |
| Ba 389.178 | 526.849                  | 529.522  | 532.693  |
| Be 313.042 | 12.1844                  | 12.1955  | 12.2532  |
| Ca 370.602 | 2592u                    | 2578u    | 2434u    |
| Cd 226.502 | -2.3449                  | -2.0840  | -2.5587  |
| Co 228.615 | 275.513                  | 277.894  | 278.794  |
| Cr 267.716 | 899.371                  | 904.068  | 907.176  |
| Cu 324.754 | 360.913                  | 363.458  | 364.784  |
| Fe 271.441 | 369047                   | 369718   | 372198   |
| K 766.491  | 2674.78                  | 2677.40  | 2686.36  |
| Mg 279.078 | 8475.60                  | 8512.62  | 8537.33  |
| Mn 257.610 | 4689.02                  | 4692.41  | 4732.41  |
| Mo 202.032 | 8.6150                   | 8.0663   | 8.5799   |
| Na 330.237 | 622.204u                 | 420.160u | 708.987u |
| Ni 231.604 | 360.029                  | 364.102  | 366.203  |
| Pb 220.353 | 120.156                  | 119.779  | 117.036  |
| Sb 206.834 | 3.0389                   | -1.2714  | 4.6256   |
| Se 196.026 | 4.1767u                  | 6.3775u  | 4.9815u  |
| Sn 189.925 | 22.1114                  | 19.0728  | 23.1251  |
| Sr 216.596 | 37.2738                  | 37.1850  | 38.8788  |
| Ti 334.941 | 6144.23                  | 6172.56  | 6211.49  |
| Tl 190.794 | 23.2051u                 | 14.7185u | 18.9157u |
| V 292.401  | 834.786                  | 836.726  | 841.087  |
| Zn 206.200 | 196.521                  | 203.253  | 202.235  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.4671     | ppb   | 0.5225  | 21.2  | -169.280   |
| Al 308.215 | 197177      | ppb   | 933.259 | 0.5   | 1218306    |
| As 188.980 | 38.3156     | ppb   | 7.4063  | 19.3  | 11.2909    |
| B 249.678  | 21.2664     | ppb   | 0.4088  | 1.9   | -305.511   |
| Ba 389.178 | 529.688     | ppb   | 2.9251  | 0.6   | 10335.7    |
| Be 313.042 | 12.2111     | ppb   | 0.0369  | 0.3   | 21436.6    |
| Ca 370.602 | 2535        | ppb   | 87.42   | 3.4   | -11142     |
| Cd 226.502 | -2.3292     | ppb   | 0.2377  | 10.2  | 833.529    |
| Co 228.615 | 277.400     | ppb   | 1.6952  | 0.6   | 3353.93    |
| Cr 267.716 | 903.538     | ppb   | 3.9295  | 0.4   | 41896.2    |
| Cu 324.754 | 363.052     | ppb   | 1.9672  | 0.5   | 20384.5    |
| Fe 271.441 | 370321      | ppb   | 1659.94 | 0.4   | 581396     |
| K 766.491  | 2679.52     | ppb   | 6.0730  | 0.2   | 90591.1    |
| Mg 279.078 | 8508.52     | ppb   | 31.0712 | 0.4   | 18076.3    |
| Mn 257.610 | 4704.61     | ppb   | 24.1308 | 0.5   | 1055009    |
| Mo 202.032 | 8.4204      | ppb   | 0.3072  | 3.6   | 48.7991    |
| Na 330.237 | 583.783     | ppb   | 148.197 | 25.4  | -48.2339   |
| Ni 231.604 | 363.445     | ppb   | 3.1392  | 0.9   | 958.022    |
| Pb 220.353 | 118.990     | ppb   | 1.7029  | 1.4   | 221.506    |
| Sb 206.834 | 2.1310      | ppb   | 3.0515  | 143.2 | 18.8478    |
| Se 196.026 | 5.1786      | ppb   | 1.1135  | 21.5  | 5.3256     |
| Sn 189.925 | 21.4364     | ppb   | 2.1088  | 9.8   | 3.3055     |
| Sr 216.596 | 37.7792     | ppb   | 0.9533  | 2.5   | 725.336    |
| Ti 334.941 | 6176.10     | ppb   | 33.7693 | 0.5   | 1605647    |
| Tl 190.794 | 18.9464     | ppb   | 4.2434  | 22.4  | -12.5384   |
| V 292.401  | 837.533     | ppb   | 3.2273  | 0.4   | 20446.8    |
| Zn 206.200 | 200.670     | ppb   | 3.6288  | 1.8   | 263.840    |

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**680-90599-a-15-a (Samp)**      **5/30/2013, 11:37:21 PM**      **Rack 3, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.8721u                 | -1.1041u | -1.8407u |
| Al 308.215 | 116243                   | 116646   | 115562   |
| As 188.980 | 22.5272                  | 28.8387  | 27.0112  |
| B 249.678  | 18.2453u                 | 17.6099u | 16.8875u |
| Ba 389.178 | 416.798                  | 417.395  | 413.504  |
| Be 313.042 | 8.1076                   | 8.1267   | 8.0853   |
| Ca 370.602 | 3444u                    | 3493u    | 3517u    |
| Cd 226.502 | -1.8031                  | -1.5136  | -1.7869  |
| Co 228.615 | 231.817                  | 230.966  | 229.789  |
| Cr 267.716 | 588.762                  | 590.503  | 587.260  |
| Cu 324.754 | 232.849                  | 231.392  | 230.762  |
| Fe 271.441 | 220801                   | 221653   | 219976   |
| K 766.491  | 2007.21                  | 2010.10  | 1994.04  |
| Mg 279.078 | 7306.53                  | 7328.75  | 7285.04  |
| Mn 257.610 | 4730.05                  | 4755.92  | 4727.94  |
| Mo 202.032 | 4.6152                   | 4.3914   | 4.8750   |
| Na 330.237 | 482.561u                 | 327.634u | 498.930u |
| Ni 231.604 | 244.434                  | 245.383  | 246.031  |
| Pb 220.353 | 120.263                  | 124.335  | 121.138  |
| Sb 206.834 | -0.1713                  | -2.9830  | 1.9579   |
| Se 196.026 | 3.9274                   | 3.2822u  | 0.6439u  |
| Sn 189.925 | 14.4825                  | 15.9459  | 17.9221  |
| Sr 216.596 | 36.6459                  | 36.6733  | 36.8794  |
| Ti 334.941 | 3848.45                  | 3867.58  | 3827.24  |
| Tl 190.794 | 21.7861                  | 9.5375u  | 23.2426  |
| V 292.401  | 467.527                  | 468.238  | 464.853  |
| Zn 206.200 | 175.387                  | 171.743  | 170.563  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.6056     | ppb   | 0.4347  | 27.1  | -108.360   |
| Al 308.215 | 116150      | ppb   | 547.599 | 0.5   | 717740     |
| As 188.980 | 26.1257     | ppb   | 3.2476  | 12.4  | 5.6693     |
| B 249.678  | 17.5809     | ppb   | 0.6793  | 3.9   | -71.7326   |
| Ba 389.178 | 415.899     | ppb   | 2.0953  | 0.5   | 8033.28    |
| Be 313.042 | 8.1065      | ppb   | 0.0207  | 0.3   | 14148.0    |
| Ca 370.602 | 3484        | ppb   | 37.35   | 1.1   | -2676      |
| Cd 226.502 | -1.7012     | ppb   | 0.1627  | 9.6   | 493.240    |
| Co 228.615 | 230.857     | ppb   | 1.0180  | 0.4   | 2759.80    |
| Cr 267.716 | 588.842     | ppb   | 1.6229  | 0.3   | 27309.0    |
| Cu 324.754 | 231.668     | ppb   | 1.0704  | 0.5   | 13070.0    |
| Fe 271.441 | 220810      | ppb   | 838.413 | 0.4   | 346681     |
| K 766.491  | 2003.78     | ppb   | 8.5603  | 0.4   | 67810.0    |
| Mg 279.078 | 7306.77     | ppb   | 21.8560 | 0.3   | 15515.0    |
| Mn 257.610 | 4737.97     | ppb   | 15.5802 | 0.3   | 1062074    |
| Mo 202.032 | 4.6272      | ppb   | 0.2420  | 5.2   | 30.7510    |
| Na 330.237 | 436.375     | ppb   | 94.5278 | 21.7  | -6.1095    |
| Ni 231.604 | 245.283     | ppb   | 0.8031  | 0.3   | 644.796    |
| Pb 220.353 | 121.912     | ppb   | 2.1431  | 1.8   | 218.863    |
| Sb 206.834 | -0.3988     | ppb   | 2.4783  | 621.4 | 10.2795    |
| Se 196.026 | 2.6179      | ppb   | 1.7396  | 66.5  | 5.9915     |
| Sn 189.925 | 16.1168     | ppb   | 1.7261  | 10.7  | -1.1262    |
| Sr 216.596 | 36.7329     | ppb   | 0.1276  | 0.3   | 587.308    |
| Ti 334.941 | 3847.75     | ppb   | 20.1799 | 0.5   | 1000316    |
| Tl 190.794 | 18.1887     | ppb   | 7.5275  | 41.4  | -8.3999    |
| V 292.401  | 466.873     | ppb   | 1.7851  | 0.4   | 11391.3    |
| Zn 206.200 | 172.564     | ppb   | 2.5145  | 1.5   | 527.310    |



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**680-90599-a-16-a (Samp)**      **5/30/2013, 11:41:57 PM**      **Rack 3, Tube 4**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -3.4079u                 | -3.6858u | -3.8551u |
| Al 308.215 | 435139                   | 435741   | 435444   |
| As 188.980 | 29.2605                  | 25.0021  | 25.8077  |
| B 249.678  | 16.1755u                 | 15.5384u | 15.3406u |
| Ba 389.178 | 2679.23                  | 2684.86  | 2686.56  |
| Be 313.042 | 24.1668                  | 24.2039  | 24.3037  |
| Ca 370.602 | 680.2u                   | 540.8u   | 507.0u   |
| Cd 226.502 | -1.6760                  | -2.5456  | -2.6412  |
| Co 228.615 | 284.302                  | 284.850  | 281.940  |
| Cr 267.716 | 1359.57                  | 1361.82  | 1362.15  |
| Cu 324.754 | 1151.44                  | 1173.19  | 1174.24  |
| Fe 271.441 | 638554                   | 641375   | 642556   |
| K 766.491  | 71569.5x                 | 71808.3x | 71840.8x |
| Mg 279.078 | 121688                   | 121731   | 121864   |
| Mn 257.610 | 2600.25                  | 2615.42  | 2612.52  |
| Mo 202.032 | 8.0466                   | 8.1175   | 8.3013   |
| Na 330.237 | 2283.37u                 | 2685.53u | 2585.42u |
| Ni 231.604 | 725.513                  | 723.947  | 729.369  |
| Pb 220.353 | 150.114                  | 154.416  | 149.984  |
| Sb 206.834 | 6.4753                   | 7.8306   | 4.0644   |
| Se 196.026 | 23.6689                  | 18.9164  | 5.6910u  |
| Sn 189.925 | 27.0234                  | 27.8992  | 29.5650  |
| Sr 216.596 | 29.4251                  | 30.8823  | 30.8549  |
| Ti 334.941 | 22801.2                  | 22791.8  | 22827.4  |
| Tl 190.794 | 14.3500u                 | 15.5666u | 11.5244u |
| V 292.401  | 1338.59                  | 1344.40  | 1344.34  |
| Zn 206.200 | 1148.39                  | 1150.08  | 1153.48  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -3.6496b    | ppb   | 0.2258  | 6.2  | -262.893   |
| Al 308.215 | 435441b     | ppb   | 301.355 | 0.1  | 2690360    |
| As 188.980 | 26.6901b    | ppb   | 2.2622  | 8.5  | 5.1360     |
| B 249.678  | 15.6849b    | ppb   | 0.4363  | 2.8  | -895.046   |
| Ba 389.178 | 2683.55b    | ppb   | 3.8380  | 0.1  | 51161.7    |
| Be 313.042 | 24.2248b    | ppb   | 0.0708  | 0.3  | 42787.3    |
| Ca 370.602 | 576.0b      | ppb   | 91.80   | 15.9 | -22823     |
| Cd 226.502 | -2.2876b    | ppb   | 0.5318  | 23.2 | 1489.05    |
| Co 228.615 | 283.697b    | ppb   | 1.5464  | 0.5  | 3809.96    |
| Cr 267.716 | 1361.18b    | ppb   | 1.4010  | 0.1  | 63138.6    |
| Cu 324.754 | 1166.29b    | ppb   | 12.8694 | 1.1  | 64910.6    |
| Fe 271.441 | 640829b     | ppb   | 2056.21 | 0.3  | 1006053    |
| K 766.491  | 71739.5xb   | ppb   | 148.138 | 0.2  | 2418828    |
| Mg 279.078 | 121761b     | ppb   | 91.9811 | 0.1  | 259115     |
| Mn 257.610 | 2609.39b    | ppb   | 8.0485  | 0.3  | 587251     |
| Mo 202.032 | 8.1552b     | ppb   | 0.1315  | 1.6  | 33.4049    |
| Na 330.237 | 2518.11b    | ppb   | 209.361 | 8.3  | -99.4927   |
| Ni 231.604 | 726.276b    | ppb   | 2.7908  | 0.4  | 1916.15    |
| Pb 220.353 | 151.505b    | ppb   | 2.5218  | 1.7  | 274.523    |
| Sb 206.834 | 6.1234b     | ppb   | 1.9076  | 31.2 | 32.9285    |
| Se 196.026 | 16.0921b    | ppb   | 9.3158  | 57.9 | 6.5473     |
| Sn 189.925 | 28.1625b    | ppb   | 1.2911  | 4.6  | 8.9049     |
| Sr 216.596 | 30.3874b    | ppb   | 0.8335  | 2.7  | 874.930    |
| Ti 334.941 | 22806.8b    | ppb   | 18.4775 | 0.1  | 5929702    |
| Tl 190.794 | 13.8137b    | ppb   | 2.0738  | 15.0 | -22.8423   |
| V 292.401  | 1342.44b    | ppb   | 3.3365  | 0.2  | 32970.4    |
| Zn 206.200 | 1150.65b    | ppb   | 2.5936  | 0.2  | 51488.27   |

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**680-90599-a-17-a (Samp)**                      **5/30/2013, 11:46:33 PM**                      **Rack 3, Tube 5**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -5.3122u                 | -6.0763u | -5.3157u |
| Al 308.215 | 292366                   | 293333   | 293103   |
| As 188.980 | 33.0230                  | 27.1105  | 29.1408  |
| B 249.678  | 16.2619u                 | 13.4802u | 14.7308u |
| Ba 389.178 | 1931.32                  | 1936.79  | 1929.94  |
| Be 313.042 | 99.3112                  | 99.5955  | 99.2896  |
| Ca 370.602 | 714.5u                   | 368.9u   | 359.3u   |
| Cd 226.502 | -3.0155                  | -3.0520  | -3.5420  |
| Co 228.615 | 923.247                  | 934.074  | 926.575  |
| Cr 267.716 | 295.987                  | 297.575  | 296.480  |
| Cu 324.754 | 1108.70                  | 1124.14  | 1118.57  |
| Fe 271.441 | 864440                   | 868242   | 864506   |
| K 766.491  | 32671.3                  | 32747.3  | 32719.9  |
| Mg 279.078 | 46022.6                  | 46181.2  | 46134.3  |
| Mn 257.610 | 16353.8                  | 16439.1  | 16386.7  |
| Mo 202.032 | 19.6072                  | 18.5177  | 19.3112  |
| Na 330.237 | 1634.97u                 | 1710.45u | 1760.04u |
| Ni 231.604 | 967.351                  | 973.370  | 974.086  |
| Pb 220.353 | 69.0976                  | 72.7543  | 64.0344  |
| Sb 206.834 | -12.5715                 | 4.1106   | -7.2792  |
| Se 196.026 | 6.3792u                  | 6.4442u  | -0.4690u |
| Sn 189.925 | 34.2130                  | 29.1737  | 29.6274  |
| Sr 216.596 | 16.5444                  | 18.6566  | 18.1890  |
| Ti 334.941 | 25507.9                  | 25667.8  | 25556.3  |
| Tl 190.794 | 55.7827u                 | 51.9283u | 55.6224u |
| V 292.401  | 2942.97                  | 2953.69  | 2950.01  |
| Zn 206.200 | 679.229                  | 681.557  | 683.622  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -5.5681     | ppb   | 0.4401  | 7.9   | -331.799   |
| Al 308.215 | 292934      | ppb   | 505.481 | 0.2   | 1809557    |
| As 188.980 | 29.7581     | ppb   | 3.0042  | 10.1  | 3.7533     |
| B 249.678  | 14.8243     | ppb   | 1.3932  | 9.4   | -1333.95   |
| Ba 389.178 | 1932.68     | ppb   | 3.6230  | 0.2   | 37221.5    |
| Be 313.042 | 99.3988     | ppb   | 0.1707  | 0.2   | 176383     |
| Ca 370.602 | 480.9       | ppb   | 202.4   | 42.1  | -32925     |
| Cd 226.502 | -3.2032     | ppb   | 0.2940  | 9.2   | 2000.87    |
| Co 228.615 | 927.965     | ppb   | 5.5461  | 0.6   | 11293.8    |
| Cr 267.716 | 296.681     | ppb   | 0.8127  | 0.3   | 14013.3    |
| Cu 324.754 | 1117.13     | ppb   | 7.8188  | 0.7   | 62247.1    |
| Fe 271.441 | 865730      | ppb   | 2176.41 | 0.3   | 1359192    |
| K 766.491  | 32712.9     | ppb   | 38.5066 | 0.1   | 1103113    |
| Mg 279.078 | 46112.7     | ppb   | 81.4743 | 0.2   | 97979.4    |
| Mn 257.610 | 16393.2     | ppb   | 43.0268 | 0.3   | 3675103    |
| Mo 202.032 | 19.1454     | ppb   | 0.5634  | 2.9   | 94.5285    |
| Na 330.237 | 1701.82     | ppb   | 62.9785 | 3.7   | -202.318   |
| Ni 231.604 | 971.602     | ppb   | 3.6993  | 0.4   | 2563.44    |
| Pb 220.353 | 68.6288     | ppb   | 4.3788  | 6.4   | 169.216    |
| Sb 206.834 | -5.2467     | ppb   | 8.5248  | 162.5 | 18.0346    |
| Se 196.026 | 4.1181      | ppb   | 3.9727  | 96.5  | 1.4404     |
| Sn 189.925 | 31.0047     | ppb   | 2.7877  | 9.0   | 11.2677    |
| Sr 216.596 | 17.7967     | ppb   | 1.1094  | 6.2   | 932.860    |
| Ti 334.941 | 25577.3     | ppb   | 81.9766 | 0.3   | 6649671    |
| Tl 190.794 | 54.4445     | ppb   | 2.1805  | 4.0   | -11.9031   |
| V 292.401  | 2948.89     | ppb   | 5.4494  | 0.2   | 72232.1    |
| Zn 206.200 | 681.469     | ppb   | 2.1978  | 0.3   | 889.387    |

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**680-90599-a-18-a (Samp)**      **5/30/2013, 11:51:10 PM**      **Rack 3, Tube 6**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.9146u                 | -3.3604u | -2.8722u |
| Al 308.215 | 308567                   | 308757   | 308534   |
| As 188.980 | 17.4958                  | 15.4534  | 15.0123  |
| B 249.678  | 9.3076u                  | 7.4106u  | 7.9108u  |
| Ba 389.178 | 3313.51                  | 3321.01  | 3317.11  |
| Be 313.042 | 48.3809                  | 48.4311  | 48.4037  |
| Ca 370.602 | 830.0u                   | 865.6u   | 846.2u   |
| Cd 226.502 | -2.1748                  | -2.2489  | -1.9880  |
| Co 228.615 | 359.624                  | 356.361  | 355.851  |
| Cr 267.716 | 1044.65                  | 1046.25  | 1044.18  |
| Cu 324.754 | 1283.16                  | 1278.30  | 1286.92  |
| Fe 271.441 | 447041                   | 447996   | 449176   |
| K 766.491  | 88255.5x                 | 88579.5x | 88618.5x |
| Mg 279.078 | 115599                   | 115744   | 115600   |
| Mn 257.610 | 4817.72                  | 4829.80  | 4826.56  |
| Mo 202.032 | 14.7108                  | 14.6570  | 14.4790  |
| Na 330.237 | 2046.07u                 | 1936.93u | 1926.40u |
| Ni 231.604 | 655.817                  | 661.507  | 654.618  |
| Pb 220.353 | 78.9510                  | 83.1965  | 80.4058  |
| Sb 206.834 | -1.8084                  | 2.1432   | 3.4570   |
| Se 196.026 | 2.0505u                  | 2.0562u  | 5.5545u  |
| Sn 189.925 | 28.2991                  | 25.3885  | 28.4239  |
| Sr 216.596 | 32.8652                  | 32.9872  | 32.5706  |
| Ti 334.941 | 20450.8                  | 20512.0  | 20472.2  |
| Tl 190.794 | 33.8798                  | 26.5608u | 9.6889u  |
| V 292.401  | 1534.89                  | 1539.56  | 1539.86  |
| Zn 206.200 | 1088.61                  | 1098.26  | 1088.97  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -3.0491b    | ppb   | 0.2704  | 8.9   | -208.021   |
| Al 308.215 | 308619b     | ppb   | 120.461 | 0.0   | 1906740    |
| As 188.980 | 15.9871b    | ppb   | 1.3250  | 8.3   | 0.2475     |
| B 249.678  | 8.2097b     | ppb   | 0.9832  | 12.0  | -630.852   |
| Ba 389.178 | 3317.21b    | ppb   | 3.7497  | 0.1   | 62777.0    |
| Be 313.042 | 48.4052b    | ppb   | 0.0251  | 0.1   | 85767.8    |
| Ca 370.602 | 847.3b      | ppb   | 17.79   | 2.1   | -13517     |
| Cd 226.502 | -2.1373b    | ppb   | 0.1345  | 6.3   | 1028.69    |
| Co 228.615 | 357.278b    | ppb   | 2.0468  | 0.6   | 4597.10    |
| Cr 267.716 | 1045.03b    | ppb   | 1.0842  | 0.1   | 48477.8    |
| Cu 324.754 | 1282.79b    | ppb   | 4.3209  | 0.3   | 71291.5    |
| Fe 271.441 | 448071b     | ppb   | 1069.40 | 0.2   | 703467     |
| K 766.491  | 88484.5xb   | ppb   | 199.293 | 0.2   | 2983358    |
| Mg 279.078 | 115648b     | ppb   | 83.3960 | 0.1   | 246072     |
| Mn 257.610 | 4824.69b    | ppb   | 6.2552  | 0.1   | 1082959    |
| Mo 202.032 | 14.6156b    | ppb   | 0.1213  | 0.8   | 85.9067    |
| Na 330.237 | 1969.80b    | ppb   | 66.2646 | 3.4   | -63.9504   |
| Ni 231.604 | 657.314b    | ppb   | 3.6806  | 0.6   | 1730.92    |
| Pb 220.353 | 80.8511b    | ppb   | 2.1575  | 2.7   | 161.179    |
| Sb 206.834 | 1.2639b     | ppb   | 2.7406  | 216.8 | 21.1773    |
| Se 196.026 | 3.2204b     | ppb   | 2.0214  | 62.8  | 3.4961     |
| Sn 189.925 | 27.3705b    | ppb   | 1.7176  | 6.3   | 8.2511     |
| Sr 216.596 | 32.8077b    | ppb   | 0.2142  | 0.7   | 735.037    |
| Ti 334.941 | 20478.3b    | ppb   | 31.0835 | 0.2   | 5324316    |
| Tl 190.794 | 23.3765b    | ppb   | 12.4059 | 53.1  | -12.5153   |
| V 292.401  | 1538.10b    | ppb   | 2.7837  | 0.2   | 37723.5    |
| Zn 206.200 | 1091.95b    | ppb   | 5.4685  | 0.5   | 1411.96    |

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**680-90599-a-19-a (Samp)**                      **5/30/2013, 11:55:46 PM**                      **Rack 3, Tube 7**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.6573u                 | -1.8868u | -1.9146u |
| Al 308.215 | 236953                   | 237431   | 236624   |
| As 188.980 | 2.6387                   | 14.2139  | 1.5696   |
| B 249.678  | 6.7878u                  | 5.7273u  | 6.8313u  |
| Ba 389.178 | 1306.11                  | 1311.79  | 1306.92  |
| Be 313.042 | 8.6670                   | 8.7056   | 8.6745   |
| Ca 370.602 | 4388                     | 4389     | 4384     |
| Cd 226.502 | -0.9383                  | -0.8132  | -0.8989  |
| Co 228.615 | 63.4375                  | 63.5569  | 63.0013  |
| Cr 267.716 | 203.026                  | 203.227  | 202.446  |
| Cu 324.754 | 148.985                  | 151.156  | 149.879  |
| Fe 271.441 | 174472                   | 175318   | 174784   |
| K 766.491  | 36901.5x                 | 37095.0x | 36965.8x |
| Mg 279.078 | 39186.1                  | 38935.0  | 39168.0  |
| Mn 257.610 | 2929.70                  | 2940.62  | 2936.62  |
| Mo 202.032 | 1.7970                   | 2.4791   | 2.4525   |
| Na 330.237 | 881.151u                 | 871.982u | 880.903u |
| Ni 231.604 | 65.2101                  | 66.5441  | 66.1857  |
| Pb 220.353 | 75.7597                  | 79.4161  | 81.8470  |
| Sb 206.834 | 7.0275                   | 3.1670   | -2.2835  |
| Se 196.026 | 6.0722                   | 3.6465   | -6.1196u |
| Sn 189.925 | 16.1526                  | 14.3807  | 20.8776  |
| Sr 216.596 | 60.6592                  | 60.8195  | 60.7451  |
| Ti 334.941 | 10202.1                  | 10257.2  | 10180.6  |
| Tl 190.794 | 7.8462u                  | 10.5805u | 5.8155u  |
| V 292.401  | 432.824                  | 435.299  | 432.476  |
| Zn 206.200 | 296.026                  | 302.578  | 300.785  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.4863b    | ppb   | 0.7180  | 48.3  | -108.519   |
| Al 308.215 | 237003b     | ppb   | 405.396 | 0.2   | 1464452    |
| As 188.980 | 6.1407b     | ppb   | 7.0120  | 114.2 | -3.1191    |
| B 249.678  | 6.4488b     | ppb   | 0.6252  | 9.7   | -136.081   |
| Ba 389.178 | 1308.27b    | ppb   | 3.0748  | 0.2   | 24734.4    |
| Be 313.042 | 8.6824b     | ppb   | 0.0204  | 0.2   | 15182.8    |
| Ca 370.602 | 4387b       | ppb   | 2.886   | 0.1   | 3459       |
| Cd 226.502 | -0.8834b    | ppb   | 0.0640  | 7.2   | 409.652    |
| Co 228.615 | 63.3319b    | ppb   | 0.2925  | 0.5   | 971.039    |
| Cr 267.716 | 202.900b    | ppb   | 0.4056  | 0.2   | 9458.21    |
| Cu 324.754 | 150.007b    | ppb   | 1.0911  | 0.7   | 8536.90    |
| Fe 271.441 | 174858b     | ppb   | 428.057 | 0.2   | 274525     |
| K 766.491  | 36987.4xb   | ppb   | 98.5723 | 0.3   | 1247224    |
| Mg 279.078 | 39096.3b    | ppb   | 140.051 | 0.4   | 83155.0    |
| Mn 257.610 | 2935.64b    | ppb   | 5.5247  | 0.2   | 658446     |
| Mo 202.032 | 2.2429b     | ppb   | 0.3864  | 17.2  | 16.7912    |
| Na 330.237 | 878.012b    | ppb   | 5.2235  | 0.6   | 4.3444     |
| Ni 231.604 | 65.9799b    | ppb   | 0.6904  | 1.0   | 173.505    |
| Pb 220.353 | 79.0076b    | ppb   | 3.0642  | 3.9   | 147.057    |
| Sb 206.834 | 2.6370b     | ppb   | 4.6781  | 177.4 | 8.9240     |
| Se 196.026 | 1.1997b     | ppb   | 6.4537  | 537.9 | 5.4882     |
| Sn 189.925 | 17.1370b    | ppb   | 3.3584  | 19.6  | -0.2738    |
| Sr 216.596 | 60.7413b    | ppb   | 0.0802  | 0.1   | 802.470    |
| Ti 334.941 | 10213.3b    | ppb   | 39.4689 | 0.4   | 2655322    |
| Tl 190.794 | 8.0807b     | ppb   | 2.3911  | 29.6  | -11.7034   |
| V 292.401  | 433.533b    | ppb   | 1.5394  | 0.4   | 10685.6    |
| Zn 206.200 | 299.796b    | ppb   | 3.3862  | 1.1   | 301.986    |

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**680-90599-a-20-a (Samp)**                      **5/31/2013, 12:00:22 AM**                      **Rack 3, Tube 8**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.5110u                 | -1.9387u | -2.1638u |
| Al 308.215 | 257854                   | 257325   | 258440   |
| As 188.980 | 42.6831                  | 37.3639  | 26.1335  |
| B 249.678  | 14.8930u                 | 14.7674u | 14.5058u |
| Ba 389.178 | 436.467                  | 436.621  | 438.332  |
| Be 313.042 | 7.5863                   | 7.5789   | 7.6066   |
| Ca 370.602 | 7177u                    | 7238u    | 7133u    |
| Cd 226.502 | -1.9911                  | -1.7479  | -1.7996  |
| Co 228.615 | 55.6094                  | 54.2379  | 55.4989  |
| Cr 267.716 | 562.911                  | 562.672  | 565.434  |
| Cu 324.754 | 293.449                  | 291.287  | 287.161  |
| Fe 271.441 | 391117                   | 391484   | 391554   |
| K 766.491  | 4373.48                  | 4363.12  | 4359.89  |
| Mg 279.078 | 5522.08                  | 5523.04  | 5559.79  |
| Mn 257.610 | 2491.06                  | 2491.92  | 2506.52  |
| Mo 202.032 | 11.0208                  | 9.7560   | 11.3195  |
| Na 330.237 | 791.096u                 | 1007.56u | 768.904u |
| Ni 231.604 | 181.070                  | 178.588  | 179.426  |
| Pb 220.353 | 137.035                  | 134.468  | 141.254  |
| Sb 206.834 | -2.5403                  | 1.6028   | 5.5207   |
| Se 196.026 | 0.4649u                  | 17.5416  | 12.4538  |
| Sn 189.925 | 21.7066                  | 22.9899  | 24.0694  |
| Sr 216.596 | 49.6657                  | 49.7985  | 50.4507  |
| Ti 334.941 | 6366.86                  | 6356.32  | 6349.40  |
| Tl 190.794 | 1.5478u                  | 5.3077u  | 3.4211u  |
| V 292.401  | 840.884                  | 840.694  | 845.300  |
| Zn 206.200 | 184.672                  | 185.872  | 187.585  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.8712     | ppb   | 0.3316  | 17.7  | -136.066   |
| Al 308.215 | 257873      | ppb   | 557.743 | 0.2   | 1593335    |
| As 188.980 | 35.3935     | ppb   | 8.4489  | 23.9  | 10.1274    |
| B 249.678  | 14.7220     | ppb   | 0.1975  | 1.3   | -434.610   |
| Ba 389.178 | 437.140     | ppb   | 1.0351  | 0.2   | 8622.89    |
| Be 313.042 | 7.5906      | ppb   | 0.0144  | 0.2   | 13227.4    |
| Ca 370.602 | 7183        | ppb   | 52.45   | 0.7   | -3018      |
| Cd 226.502 | -1.8462     | ppb   | 0.1281  | 6.9   | 900.177    |
| Co 228.615 | 55.1154     | ppb   | 0.7620  | 1.4   | 798.441    |
| Cr 267.716 | 563.672     | ppb   | 1.5302  | 0.3   | 26177.2    |
| Cu 324.754 | 290.632     | ppb   | 3.1946  | 1.1   | 16384.5    |
| Fe 271.441 | 391385      | ppb   | 234.741 | 0.1   | 614435     |
| K 766.491  | 4365.50     | ppb   | 7.1031  | 0.2   | 147431     |
| Mg 279.078 | 5534.97     | ppb   | 21.5022 | 0.4   | 11769.4    |
| Mn 257.610 | 2496.50     | ppb   | 8.6883  | 0.3   | 560380     |
| Mo 202.032 | 10.6988     | ppb   | 0.8300  | 7.8   | 63.2510    |
| Na 330.237 | 855.853     | ppb   | 131.848 | 15.4  | -41.6437   |
| Ni 231.604 | 179.695     | ppb   | 1.2629  | 0.7   | 476.564    |
| Pb 220.353 | 137.586     | ppb   | 3.4261  | 2.5   | 248.974    |
| Sb 206.834 | 1.5278      | ppb   | 4.0310  | 263.9 | 15.7170    |
| Se 196.026 | 10.1535     | ppb   | 8.7677  | 86.4  | 6.8507     |
| Sn 189.925 | 22.9219     | ppb   | 1.1829  | 5.2   | 4.5460     |
| Sr 216.596 | 49.9716     | ppb   | 0.4201  | 0.8   | 874.840    |
| Ti 334.941 | 6357.53     | ppb   | 8.7927  | 0.1   | 1652808    |
| Tl 190.794 | 3.4255      | ppb   | 1.8799  | 54.9  | -20.5680   |
| V 292.401  | 842.293     | ppb   | 2.6062  | 0.3   | 20580.8    |
| Zn 206.200 | 186.043     | ppb   | 1.4641  | 0.8   | 246.267    |

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**680-90599-a-21-a (Samp)**                      **5/31/2013, 12:04:59 AM**                      **Rack 3, Tube 9**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.6239u                 | -2.4952u | -1.3849u |
| Al 308.215 | 211829                   | 210840   | 210431   |
| As 188.980 | 29.7637                  | 14.5143  | 19.6377  |
| B 249.678  | 8.9982u                  | 9.7533u  | 10.0395u |
| Ba 389.178 | 927.397                  | 924.023  | 923.522  |
| Be 313.042 | 9.5810                   | 9.5522   | 9.5146   |
| Ca 370.602 | 4499                     | 4513     | 4522     |
| Cd 226.502 | -1.7161                  | -1.6743  | -1.2732  |
| Co 228.615 | 100.258                  | 98.3688  | 99.3705  |
| Cr 267.716 | 519.035                  | 517.222  | 515.824  |
| Cu 324.754 | 187.330                  | 184.941  | 186.154  |
| Fe 271.441 | 221288                   | 220440   | 219972   |
| K 766.491  | 18766.1                  | 18714.3  | 18709.2  |
| Mg 279.078 | 20782.3                  | 20684.6  | 20643.1  |
| Mn 257.610 | 4267.89                  | 4249.35  | 4244.22  |
| Mo 202.032 | 12.7885                  | 13.3079  | 12.4913  |
| Na 330.237 | 823.898u                 | 736.619u | 650.581u |
| Ni 231.604 | 152.129                  | 150.733  | 150.029  |
| Pb 220.353 | 113.745                  | 111.374  | 115.474  |
| Sb 206.834 | 2.8764                   | -6.8758  | -4.1778  |
| Se 196.026 | 6.6307                   | 9.3246   | -6.6631u |
| Sn 189.925 | 22.9300                  | 26.3802  | 29.0101  |
| Sr 216.596 | 40.9913                  | 40.6890  | 40.9292  |
| Ti 334.941 | 7023.60                  | 7014.20  | 7004.84  |
| Tl 190.794 | 13.6634u                 | 20.8754  | 21.5275  |
| V 292.401  | 509.690                  | 509.738  | 507.716  |
| Zn 206.200 | 294.740                  | 293.131  | 289.619  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.1680     | ppb   | 0.6812  | 31.4  | -150.982   |
| Al 308.215 | 211033      | ppb   | 718.699 | 0.3   | 1303982    |
| As 188.980 | 21.3052     | ppb   | 7.7602  | 36.4  | 3.9847     |
| B 249.678  | 9.5970      | ppb   | 0.5380  | 5.6   | -180.009   |
| Ba 389.178 | 924.980     | ppb   | 2.1076  | 0.2   | 17581.0    |
| Be 313.042 | 9.5493      | ppb   | 0.0333  | 0.3   | 16718.2    |
| Ca 370.602 | 4512        | ppb   | 11.55   | 0.3   | 404.6      |
| Cd 226.502 | -1.5545     | ppb   | 0.2446  | 15.7  | 497.615    |
| Co 228.615 | 99.3326     | ppb   | 0.9454  | 1.0   | 1316.06    |
| Cr 267.716 | 517.361     | ppb   | 1.6101  | 0.3   | 24008.0    |
| Cu 324.754 | 186.142     | ppb   | 1.1949  | 0.6   | 10550.7    |
| Fe 271.441 | 220567      | ppb   | 667.047 | 0.3   | 346284     |
| K 766.491  | 18729.9     | ppb   | 31.4578 | 0.2   | 631701     |
| Mg 279.078 | 20703.3     | ppb   | 71.4515 | 0.3   | 44005.5    |
| Mn 257.610 | 4253.82     | ppb   | 12.4522 | 0.3   | 953721     |
| Mo 202.032 | 12.8626     | ppb   | 0.4133  | 3.2   | 86.5241    |
| Na 330.237 | 737.033     | ppb   | 86.6594 | 11.8  | -4.0522    |
| Ni 231.604 | 150.964     | ppb   | 1.0689  | 0.7   | 397.481    |
| Pb 220.353 | 113.531     | ppb   | 2.0582  | 1.8   | 203.310    |
| Sb 206.834 | -2.7257     | ppb   | 5.0357  | 184.7 | 7.2760     |
| Se 196.026 | 3.0974      | ppb   | 8.5595  | 276.3 | 6.1041     |
| Sn 189.925 | 26.1068     | ppb   | 3.0493  | 11.7  | 7.2070     |
| Sr 216.596 | 40.8698     | ppb   | 0.1596  | 0.4   | 632.012    |
| Ti 334.941 | 7014.22     | ppb   | 9.3792  | 0.1   | 1823572    |
| Tl 190.794 | 18.6888     | ppb   | 4.3643  | 23.4  | -8.2082    |
| V 292.401  | 509.048     | ppb   | 1.1539  | 0.2   | 12465.8    |
| Zn 206.200 | 292.496     | ppb   | 2.6188  | 0.9   | 381.995    |

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680-90599-a-22-a (Samp) 5/31/2013, 12:09:35 AM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.8795u                 | -1.5674u | -1.7263u |
| Al 308.215 | 95227.8                  | 95399.5  | 95150.4  |
| As 188.980 | 9.6321                   | 9.3683   | 3.2080   |
| B 249.678  | 6.1893u                  | 6.3814u  | 5.4748u  |
| Ba 389.178 | 441.941                  | 443.939  | 442.229  |
| Be 313.042 | 6.9136                   | 6.9268   | 6.9287   |
| Ca 370.602 | 2023                     | 2001     | 1999     |
| Cd 226.502 | -0.5844                  | -0.4070  | -0.5663  |
| Co 228.615 | 68.1777                  | 67.2942  | 68.0518  |
| Cr 267.716 | 108.489                  | 109.298  | 108.710  |
| Cu 324.754 | 60.6145                  | 60.5801  | 60.5454  |
| Fe 271.441 | 89206.6                  | 89631.2  | 89351.6  |
| K 766.491  | 3299.87                  | 3315.00  | 3304.12  |
| Mg 279.078 | 10830.5                  | 10849.5  | 10814.9  |
| Mn 257.610 | 4198.24                  | 4201.31  | 4182.05  |
| Mo 202.032 | 1.7293                   | 1.2022   | 1.8342   |
| Na 330.237 | 365.658u                 | 155.886u | 263.257u |
| Ni 231.604 | 48.8081                  | 49.6280  | 47.6718  |
| Pb 220.353 | 59.3467                  | 65.1695  | 57.7927  |
| Sb 206.834 | 0.6389                   | -3.4503u | -1.9774  |
| Se 196.026 | -11.4563u                | -3.2268u | 1.5009   |
| Sn 189.925 | 14.1818                  | 14.8791  | 18.4107  |
| Sr 216.596 | 20.7007                  | 20.6446  | 20.2586  |
| Ti 334.941 | 3865.33                  | 3879.47  | 3859.78  |
| Tl 190.794 | 18.6693                  | 19.7866  | 12.8744  |
| V 292.401  | 227.663                  | 229.224  | 228.188  |
| Zn 206.200 | 218.621                  | 220.095  | 217.954  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -1.7244     | ppb   | 0.1561  | 9.1   | -119.616   |
| Al 308.215 | 95259.2     | ppb   | 127.468 | 0.1   | 588710     |
| As 188.980 | 7.4028      | ppb   | 3.6352  | 49.1  | -2.9260    |
| B 249.678  | 6.0152      | ppb   | 0.4777  | 7.9   | 20.2180    |
| Ba 389.178 | 442.703     | ppb   | 1.0802  | 0.2   | 8390.88    |
| Be 313.042 | 6.9230      | ppb   | 0.0082  | 0.1   | 12052.6    |
| Ca 370.602 | 2008        | ppb   | 13.43   | 0.7   | 901.0      |
| Cd 226.502 | -0.5192     | ppb   | 0.0976  | 18.8  | 215.072    |
| Co 228.615 | 67.8413     | ppb   | 0.4779  | 0.7   | 877.485    |
| Cr 267.716 | 108.832     | ppb   | 0.4183  | 0.4   | 5083.20    |
| Cu 324.754 | 60.5800     | ppb   | 0.0345  | 0.1   | 3563.20    |
| Fe 271.441 | 89396.5     | ppb   | 215.803 | 0.2   | 140364     |
| K 766.491  | 3306.33     | ppb   | 7.8059  | 0.2   | 111723     |
| Mg 279.078 | 10831.7     | ppb   | 17.3205 | 0.2   | 23007.7    |
| Mn 257.610 | 4193.86     | ppb   | 10.3481 | 0.2   | 939863     |
| Mo 202.032 | 1.5886      | ppb   | 0.3387  | 21.3  | 16.7324    |
| Na 330.237 | 261.600     | ppb   | 104.896 | 40.1  | 20.9585    |
| Ni 231.604 | 48.7026     | ppb   | 0.9824  | 2.0   | 126.339    |
| Pb 220.353 | 60.7696     | ppb   | 3.8888  | 6.4   | 120.205    |
| Sb 206.834 | -1.5962     | ppb   | 2.0711  | 129.7 | 2.0134     |
| Se 196.026 | -4.3941     | ppb   | 6.5570  | 149.2 | 4.2510     |
| Sn 189.925 | 15.8239     | ppb   | 2.2672  | 14.3  | -1.3671    |
| Sr 216.596 | 20.5347     | ppb   | 0.2407  | 1.2   | 307.036    |
| Ti 334.941 | 3868.20     | ppb   | 10.1518 | 0.3   | 1005629    |
| Tl 190.794 | 17.1101     | ppb   | 3.7105  | 21.7  | -4.9809    |
| V 292.401  | 228.358     | ppb   | 0.7942  | 0.3   | 5598.53    |
| Zn 206.200 | 218.890     | ppb   | 1.0959  | 0.5   | 287.326    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-23-a (Samp)      5/31/2013, 12:14:11 AM      Rack 3, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.8908u                 | -0.3391u | -0.9155u  |
| Al 308.215 | 157491                   | 158371   | 157283    |
| As 188.980 | 1.3086                   | 9.4212   | 10.5686   |
| B 249.678  | 7.3448u                  | 6.8425u  | 7.8016u   |
| Ba 389.178 | 304.248                  | 306.283  | 304.001   |
| Be 313.042 | 3.9715                   | 3.9916   | 3.9533    |
| Ca 370.602 | 2015u                    | 2032u    | 2053u     |
| Cd 226.502 | -0.8214                  | -0.9473  | -0.7752   |
| Co 228.615 | 21.4781                  | 21.3035  | 21.4653   |
| Cr 267.716 | 206.277                  | 207.265  | 205.533   |
| Cu 324.754 | 84.6370                  | 84.5795  | 82.5997   |
| Fe 271.441 | 132384                   | 133038   | 132011    |
| K 766.491  | 6674.22                  | 6694.00  | 6668.85   |
| Mg 279.078 | 9837.79                  | 9904.18  | 9819.64   |
| Mn 257.610 | 383.620                  | 385.548  | 382.114   |
| Mo 202.032 | 2.8852                   | 2.2017   | 2.0762    |
| Na 330.237 | 487.262u                 | 561.299u | 463.774u  |
| Ni 231.604 | 54.4754                  | 55.5356  | 53.0349   |
| Pb 220.353 | 57.8564                  | 57.6582  | 57.1746   |
| Sb 206.834 | -3.8156                  | -1.4508  | -0.9113   |
| Se 196.026 | 1.0304u                  | 4.8124   | -11.6224u |
| Sn 189.925 | 12.8954                  | 15.4535  | 16.9055   |
| Sr 216.596 | 27.0894                  | 27.2501  | 27.3778   |
| Ti 334.941 | 3575.05                  | 3602.56  | 3568.39   |
| Tl 190.794 | 8.6328                   | 12.6189  | 3.3912u   |
| V 292.401  | 466.737                  | 468.772  | 465.754   |
| Zn 206.200 | 136.341                  | 139.381  | 135.184   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.7151     | ppb   | 0.3258  | 45.6  | -61.9735   |
| Al 308.215 | 157715      | ppb   | 577.289 | 0.4   | 974561     |
| As 188.980 | 7.0995      | ppb   | 5.0477  | 71.1  | -2.9259    |
| B 249.678  | 7.3296      | ppb   | 0.4797  | 6.5   | -43.6686   |
| Ba 389.178 | 304.844     | ppb   | 1.2520  | 0.4   | 5860.77    |
| Be 313.042 | 3.9721      | ppb   | 0.0191  | 0.5   | 6802.97    |
| Ca 370.602 | 2033        | ppb   | 19.13   | 0.9   | -1335      |
| Cd 226.502 | -0.8480     | ppb   | 0.0891  | 10.5  | 308.196    |
| Co 228.615 | 21.4156     | ppb   | 0.0973  | 0.5   | 338.361    |
| Cr 267.716 | 206.358     | ppb   | 0.8686  | 0.4   | 9584.62    |
| Cu 324.754 | 83.9387     | ppb   | 1.1600  | 1.4   | 4867.14    |
| Fe 271.441 | 132478      | ppb   | 520.165 | 0.4   | 207990     |
| K 766.491  | 6679.02     | ppb   | 13.2484 | 0.2   | 225428     |
| Mg 279.078 | 9853.87     | ppb   | 44.5064 | 0.5   | 20977.7    |
| Mn 257.610 | 383.761     | ppb   | 1.7216  | 0.4   | 86430.0    |
| Mo 202.032 | 2.3877      | ppb   | 0.4354  | 18.2  | 19.7092    |
| Na 330.237 | 504.112     | ppb   | 50.8993 | 10.1  | 22.6036    |
| Ni 231.604 | 54.3486     | ppb   | 1.2551  | 2.3   | 142.176    |
| Pb 220.353 | 57.5631     | ppb   | 0.3507  | 0.6   | 116.579    |
| Sb 206.834 | -2.0592     | ppb   | 1.5448  | 75.0  | 3.3360     |
| Se 196.026 | -1.9266     | ppb   | 8.6072  | 446.8 | 3.9812     |
| Sn 189.925 | 15.0848     | ppb   | 2.0303  | 13.5  | -1.9849    |
| Sr 216.596 | 27.2391     | ppb   | 0.1445  | 0.5   | 414.472    |
| Ti 334.941 | 3582.00     | ppb   | 18.1128 | 0.5   | 931230     |
| Tl 190.794 | 8.2143      | ppb   | 4.6281  | 56.3  | -9.8048    |
| V 292.401  | 467.088     | ppb   | 1.5391  | 0.3   | 11411.0    |
| Zn 206.200 | 136.969     | ppb   | 2.1675  | 1.6   | 181.894    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-24-a (Samp) 5/31/2013, 12:18:48 AM Rack 3, Tube 12

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.2025u                 | -2.3641u | -2.0734u |
| Al 308.215 | 144326                   | 144462   | 144420   |
| As 188.980 | 2.4032                   | 2.9784   | 14.5430  |
| B 249.678  | 5.4525u                  | 5.5691u  | 5.2367u  |
| Ba 389.178 | 800.348                  | 803.591  | 805.412  |
| Be 313.042 | 3.2316                   | 3.2371   | 3.2452   |
| Ca 370.602 | 9639                     | 9650     | 9680     |
| Cd 226.502 | -1.3865                  | -1.4279  | -1.3550  |
| Co 228.615 | 165.681                  | 166.680  | 166.607  |
| Cr 267.716 | 660.085                  | 663.285  | 662.922  |
| Cu 324.754 | 177.697                  | 178.765  | 178.622  |
| Fe 271.441 | 166764                   | 167544   | 167514   |
| K 766.491  | 28976.4                  | 29020.5  | 29115.2  |
| Mg 279.078 | 68235.6                  | 68438.3  | 68386.6  |
| Mn 257.610 | 3679.91                  | 3672.86  | 3679.99  |
| Mo 202.032 | 1.6225                   | 1.0995u  | 1.0125u  |
| Na 330.237 | 1333.99u                 | 1208.94u | 1155.91u |
| Ni 231.604 | 315.751                  | 318.191  | 315.918  |
| Pb 220.353 | 14.9193                  | 15.9603  | 16.4902  |
| Sb 206.834 | 1.1666                   | 2.5646   | 7.2867   |
| Se 196.026 | 4.1343                   | 5.6376   | 9.0192   |
| Sn 189.925 | 21.1907                  | 12.6332  | 15.3647  |
| Sr 216.596 | 43.6090                  | 44.9800  | 44.0294  |
| Ti 334.941 | 11401.8                  | 11421.2  | 11437.5  |
| Tl 190.794 | 13.3868                  | 15.8275  | 21.7145  |
| V 292.401  | 507.182                  | 509.652  | 510.459  |
| Zn 206.200 | 278.573                  | 272.572  | 271.032  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.2134     | ppb   | 0.1456  | 6.6   | -157.714   |
| Al 308.215 | 144403      | ppb   | 69.6043 | 0.0   | 892297     |
| As 188.980 | 6.6415      | ppb   | 6.8489  | 103.1 | -3.5434    |
| B 249.678  | 5.4194      | ppb   | 0.1687  | 3.1   | -135.722   |
| Ba 389.178 | 803.117     | ppb   | 2.5653  | 0.3   | 15341.3    |
| Be 313.042 | 3.2380      | ppb   | 0.0069  | 0.2   | 5492.44    |
| Ca 370.602 | 9656        | ppb   | 21.04   | 0.2   | 14609      |
| Cd 226.502 | -1.3898     | ppb   | 0.0365  | 2.6   | 374.951    |
| Co 228.615 | 166.323     | ppb   | 0.5569  | 0.3   | 2185.00    |
| Cr 267.716 | 662.097     | ppb   | 1.7518  | 0.3   | 30693.6    |
| Cu 324.754 | 178.361     | ppb   | 0.5798  | 0.3   | 10102.4    |
| Fe 271.441 | 167274      | ppb   | 441.912 | 0.3   | 262634     |
| K 766.491  | 29037.4     | ppb   | 70.9700 | 0.2   | 979200     |
| Mg 279.078 | 68353.5     | ppb   | 105.337 | 0.2   | 145435     |
| Mn 257.610 | 3677.59     | ppb   | 4.0915  | 0.1   | 824867     |
| Mo 202.032 | 1.2448      | ppb   | 0.3299  | 26.5  | 10.2472    |
| Na 330.237 | 1232.94     | ppb   | 91.4353 | 7.4   | 19.4428    |
| Ni 231.604 | 316.620     | ppb   | 1.3629  | 0.4   | 831.075    |
| Pb 220.353 | 15.7899     | ppb   | 0.7992  | 5.1   | 53.8736    |
| Sb 206.834 | 3.6726      | ppb   | 3.2069  | 87.3  | 13.7220    |
| Se 196.026 | 6.2637      | ppb   | 2.5019  | 39.9  | 8.0855     |
| Sn 189.925 | 16.3962     | ppb   | 4.3710  | 26.7  | -0.8891    |
| Sr 216.596 | 44.2061     | ppb   | 0.7024  | 1.6   | 618.884    |
| Ti 334.941 | 11420.2     | ppb   | 17.8551 | 0.2   | 2969195    |
| Tl 190.794 | 16.9763     | ppb   | 4.2811  | 25.2  | -7.1342    |
| V 292.401  | 509.098     | ppb   | 1.7075  | 0.3   | 12524.4    |
| Zn 206.200 | 274.059     | ppb   | 3.9843  | 1.5   | 357.316    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-25-a (Samp) 5/31/2013, 12:32:36 AM Rack 3, Tube 15

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.0563u                 | -0.4402u | -0.3135u |
| Al 308.215 | 33670.2                  | 33613.9  | 33698.5  |
| As 188.980 | 0.7624                   | -4.6789u | -3.0873u |
| B 249.678  | 5.9592                   | 5.6587   | 5.4366   |
| Ba 389.178 | 99.4803                  | 100.474  | 99.1821  |
| Be 313.042 | 0.2564                   | 0.2609   | 0.2550   |
| Ca 370.602 | 12555                    | 12563    | 12573    |
| Cd 226.502 | 0.0608                   | 0.0605   | -0.0518  |
| Co 228.615 | 10.5311                  | 10.6739  | 10.8248  |
| Cr 267.716 | 127.521                  | 126.887  | 127.710  |
| Cu 324.754 | 62.8398                  | 62.6294  | 63.1561  |
| Fe 271.441 | 20249.7                  | 20276.3  | 20219.2  |
| K 766.491  | 1034.98                  | 1030.48  | 1037.55  |
| Mg 279.078 | 9800.60                  | 9766.03  | 9791.47  |
| Mn 257.610 | 203.716                  | 203.139  | 203.962  |
| Mo 202.032 | 0.0041u                  | 0.3598   | 0.8501   |
| Na 330.237 | 799.264                  | 1058.81  | 870.744  |
| Ni 231.604 | 44.6221                  | 43.5695  | 44.3491  |
| Pb 220.353 | 1.9883                   | 1.9288   | 0.8717   |
| Sb 206.834 | -3.4355u                 | 1.0421   | -8.0618u |
| Se 196.026 | -7.4702u                 | 4.4725   | 8.6153   |
| Sn 189.925 | 11.5621                  | 11.0573  | 11.4580  |
| Sr 216.596 | 11.5976                  | 11.4899  | 11.7836  |
| Ti 334.941 | 1368.28                  | 1364.47  | 1367.92  |
| Tl 190.794 | -8.4951u                 | 2.3435   | 4.2082   |
| V 292.401  | 49.0672                  | 48.7271  | 49.4714  |
| Zn 206.200 | 20.1467                  | 21.2936  | 20.4617  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.2700     | ppb   | 0.1956  | 72.5   | -32.3255   |
| Al 308.215 | 33660.9     | ppb   | 43.0218 | 0.1    | 208151     |
| As 188.980 | -2.3346     | ppb   | 2.7977  | 119.8  | -7.7950    |
| B 249.678  | 5.6848      | ppb   | 0.2623  | 4.6    | 147.013    |
| Ba 389.178 | 99.7120     | ppb   | 0.6762  | 0.7    | 1895.41    |
| Be 313.042 | 0.2574      | ppb   | 0.0031  | 1.2    | 207.434    |
| Ca 370.602 | 12564       | ppb   | 9.187   | 0.1    | 24161      |
| Cd 226.502 | 0.0232      | ppb   | 0.0649  | 280.4  | 66.0575    |
| Co 228.615 | 10.6766     | ppb   | 0.1469  | 1.4    | 160.987    |
| Cr 267.716 | 127.373     | ppb   | 0.4307  | 0.3    | 5904.68    |
| Cu 324.754 | 62.8751     | ppb   | 0.2651  | 0.4    | 3669.49    |
| Fe 271.441 | 20248.4     | ppb   | 28.5682 | 0.1    | 31805.4    |
| K 766.491  | 1034.34     | ppb   | 3.5803  | 0.3    | 35126.8    |
| Mg 279.078 | 9786.03     | ppb   | 17.9165 | 0.2    | 20852.6    |
| Mn 257.610 | 203.606     | ppb   | 0.4222  | 0.2    | 45773.3    |
| Mo 202.032 | 0.4047      | ppb   | 0.4248  | 105.0  | 12.2680    |
| Na 330.237 | 909.607     | ppb   | 134.067 | 14.7   | 81.2711    |
| Ni 231.604 | 44.1802     | ppb   | 0.5462  | 1.2    | 113.139    |
| Pb 220.353 | 1.5963      | ppb   | 0.6282  | 39.4   | 29.5627    |
| Sb 206.834 | -3.4851     | ppb   | 4.5522  | 130.6  | -1.2824    |
| Se 196.026 | 1.8725      | ppb   | 8.3520  | 446.0  | 7.0693     |
| Sn 189.925 | 11.3591     | ppb   | 0.2665  | 2.3    | -5.0843    |
| Sr 216.596 | 11.6237     | ppb   | 0.1486  | 1.3    | 155.013    |
| Ti 334.941 | 1366.89     | ppb   | 2.1079  | 0.2    | 355341     |
| Tl 190.794 | -0.6478     | ppb   | 6.8596  | 1058.9 | -10.6926   |
| V 292.401  | 49.0885     | ppb   | 0.3726  | 0.8    | 1191.57    |
| Zn 206.200 | 20.6340     | ppb   | 0.5925  | 2.8    | 313190     |

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680-90599-a-27-a (Samp)      5/31/2013, 12:37:13 AM      Rack 3, Tube 16  
 Weight: 1      Volume: 1      Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.3483u                 | -2.4396u | -2.1859u |
| Al 308.215 | 157044                   | 158421   | 157869   |
| As 188.980 | 8.0442                   | 10.7750  | 18.5390  |
| B 249.678  | 10.1579u                 | 10.4230u | 9.1625u  |
| Ba 389.178 | 1604.74                  | 1615.30  | 1608.72  |
| Be 313.042 | 5.6497                   | 5.6902   | 5.6739   |
| Ca 370.602 | 5170                     | 5227     | 5161     |
| Cd 226.502 | -1.5319                  | -1.3944  | -1.4734  |
| Co 228.615 | 84.9887                  | 86.3621  | 86.0626  |
| Cr 267.716 | 450.905                  | 453.985  | 451.745  |
| Cu 324.754 | 58.0660                  | 59.0866  | 59.5087  |
| Fe 271.441 | 190316                   | 191734   | 190824   |
| K 766.491  | 70852.8x                 | 71377.6x | 71030.5x |
| Mg 279.078 | 77475.3                  | 77990.3  | 77718.1  |
| Mn 257.610 | 4423.75                  | 4456.01  | 4432.90  |
| Mo 202.032 | 2.7690                   | 3.0719   | 1.8437   |
| Na 330.237 | 944.984u                 | 1135.75u | 1182.95u |
| Ni 231.604 | 182.004                  | 181.344  | 181.676  |
| Pb 220.353 | 54.8618                  | 58.7309  | 55.3102  |
| Sb 206.834 | 3.6518                   | 6.0805   | 1.0195   |
| Se 196.026 | -0.4694u                 | -4.1739u | -8.4727u |
| Sn 189.925 | 23.6172                  | 18.0614  | 23.4263  |
| Sr 216.596 | 40.2282                  | 41.5511  | 41.6153  |
| Ti 334.941 | 16354.6                  | 16507.7  | 16359.9  |
| Tl 190.794 | 21.9441                  | 17.1048  | 16.6517  |
| V 292.401  | 484.890                  | 488.113  | 486.980  |
| Zn 206.200 | 463.141                  | 462.755  | 462.806  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | -1.9913b    | ppb   | 0.5711  | 28.7 | -138.400   |
| Al 308.215 | 157778b     | ppb   | 692.922 | 0.4  | 974942     |
| As 188.980 | 12.4527b    | ppb   | 5.4448  | 43.7 | -0.6827    |
| B 249.678  | 9.9145b     | ppb   | 0.6646  | 6.7  | -119.322   |
| Ba 389.178 | 1609.59b    | ppb   | 5.3359  | 0.3  | 30468.6    |
| Be 313.042 | 5.6713b     | ppb   | 0.0204  | 0.4  | 9816.00    |
| Ca 370.602 | 5186b       | ppb   | 35.70   | 0.7  | 6332       |
| Cd 226.502 | -1.4665b    | ppb   | 0.0690  | 4.7  | 429.673    |
| Co 228.615 | 85.8044b    | ppb   | 0.7221  | 0.8  | 1370.14    |
| Cr 267.716 | 452.211b    | ppb   | 1.5921  | 0.4  | 21006.5    |
| Cu 324.754 | 58.8871b    | ppb   | 0.7417  | 1.3  | 3499.91    |
| Fe 271.441 | 190958b     | ppb   | 718.344 | 0.4  | 299804     |
| K 766.491  | 71086.9xb   | ppb   | 266.902 | 0.4  | 2396829    |
| Mg 279.078 | 77727.9b    | ppb   | 257.686 | 0.3  | 165374     |
| Mn 257.610 | 4437.55b    | ppb   | 16.6231 | 0.4  | 995250     |
| Mo 202.032 | 2.5615b     | ppb   | 0.6399  | 25.0 | 18.0974    |
| Na 330.237 | 1087.90b    | ppb   | 125.996 | 11.6 | -12.9803   |
| Ni 231.604 | 181.674b    | ppb   | 0.3300  | 0.2  | 477.459    |
| Pb 220.353 | 56.3009b    | ppb   | 2.1163  | 3.8  | 112.972    |
| Sb 206.834 | 3.5839b     | ppb   | 2.5312  | 70.6 | 12.3536    |
| Se 196.026 | -4.3720b    | ppb   | 4.0053  | 91.6 | 3.0697     |
| Sn 189.925 | 21.7016b    | ppb   | 3.1540  | 14.5 | 3.5333     |
| Sr 216.596 | 41.1315b    | ppb   | 0.7830  | 1.9  | 608.827    |
| Ti 334.941 | 16407.4b    | ppb   | 86.8937 | 0.5  | 4265781    |
| Tl 190.794 | 18.5669b    | ppb   | 2.9336  | 15.8 | -7.3785    |
| V 292.401  | 486.661b    | ppb   | 1.6351  | 0.3  | 12057.0    |
| Zn 206.200 | 462.901b    | ppb   | 0.2998  | 0.6  | 601.401    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-28-a (Samp) 5/31/2013, 12:41:49 AM Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 8.6665                   | 8.8401   | 8.5608   |
| Al 308.215 | 136752                   | 136368   | 136085   |
| As 188.980 | 92.2535                  | 96.7526  | 97.9927  |
| B 249.678  | 31.5897u                 | 31.3052u | 31.5559u |
| Ba 389.178 | 697.376                  | 692.313  | 691.749  |
| Be 313.042 | 7.0323                   | 6.9653   | 6.9853   |
| Ca 370.602 | 195348                   | 194371   | 193737   |
| Cd 226.502 | -0.0572                  | -0.0341  | -0.4406  |
| Co 228.615 | 60.6496                  | 59.8623  | 58.5911  |
| Cr 267.716 | 272.160                  | 270.443  | 269.890  |
| Cu 324.754 | 685.955                  | 682.396  | 688.766  |
| Fe 271.441 | 280628                   | 278733   | 278186   |
| K 766.491  | 17444.3                  | 17408.4  | 17277.6  |
| Mg 279.078 | 24180.4                  | 24064.4  | 24032.1  |
| Mn 257.610 | 2600.52                  | 2582.44  | 2578.43  |
| Mo 202.032 | 5.7930                   | 6.7212   | 6.4460   |
| Na 330.237 | 532.279u                 | 917.956u | 806.177u |
| Ni 231.604 | 77.9837                  | 75.3502  | 75.5600  |
| Pb 220.353 | 839.332                  | 832.281  | 833.404  |
| Sb 206.834 | -3.9482                  | -3.2931  | 3.7392   |
| Se 196.026 | -0.8102u                 | 4.1665u  | 0.5978u  |
| Sn 189.925 | 69.5568                  | 68.4670  | 59.6747  |
| Sr 216.596 | 242.139                  | 241.523  | 241.026  |
| Ti 334.941 | 6029.20                  | 5983.82  | 5980.57  |
| Tl 190.794 | -4.4500u                 | 19.4618  | 6.8267u  |
| V 292.401  | 368.683                  | 366.130  | 366.527  |
| Zn 206.200 | 1651.78                  | 1640.41  | 1639.25  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 8.6891      | ppb   | 0.1410  | 1.6   | 619.139    |
| Al 308.215 | 136402      | ppb   | 334.892 | 0.2   | 842892     |
| As 188.980 | 95.6662     | ppb   | 3.0199  | 3.2   | 40.5776    |
| B 249.678  | 31.4836     | ppb   | 0.1554  | 0.5   | 6.9767     |
| Ba 389.178 | 693.813     | ppb   | 3.0987  | 0.4   | 13332.2    |
| Be 313.042 | 6.9943      | ppb   | 0.0344  | 0.5   | 12236.9    |
| Ca 370.602 | 194485      | ppb   | 811.8   | 0.4   | 370681     |
| Cd 226.502 | -0.1773     | ppb   | 0.2283  | 128.8 | 684.560    |
| Co 228.615 | 59.7010     | ppb   | 1.0387  | 1.7   | 838.381    |
| Cr 267.716 | 270.831     | ppb   | 1.1838  | 0.4   | 12613.5    |
| Cu 324.754 | 685.706     | ppb   | 3.1923  | 0.5   | 38212.2    |
| Fe 271.441 | 279183      | ppb   | 1281.67 | 0.5   | 438295     |
| K 766.491  | 17376.7     | ppb   | 87.7565 | 0.5   | 586083     |
| Mg 279.078 | 24092.3     | ppb   | 77.9897 | 0.3   | 51277.8    |
| Mn 257.610 | 2587.13     | ppb   | 11.7661 | 0.5   | 580533     |
| Mo 202.032 | 6.3201      | ppb   | 0.4767  | 7.5   | 39.6653    |
| Na 330.237 | 752.137     | ppb   | 198.436 | 26.4  | -34.2720   |
| Ni 231.604 | 76.2980     | ppb   | 1.4636  | 1.9   | 202.745    |
| Pb 220.353 | 835.006     | ppb   | 3.7887  | 0.5   | 1278.05    |
| Sb 206.834 | -1.1674     | ppb   | 4.2618  | 365.1 | 8.0595     |
| Se 196.026 | 1.3180      | ppb   | 2.5654  | 194.6 | 4.1805     |
| Sn 189.925 | 65.8995     | ppb   | 5.4183  | 8.2   | 40.4794    |
| Sr 216.596 | 241.563     | ppb   | 0.5573  | 0.2   | 2808.24    |
| Ti 334.941 | 5997.86     | ppb   | 27.1861 | 0.5   | 1559364    |
| Tl 190.794 | 7.2795      | ppb   | 11.9623 | 164.3 | -15.3111   |
| V 292.401  | 367.113     | ppb   | 1.3737  | 0.4   | 9003.62    |
| Zn 206.200 | 1643.81     | ppb   | 6.9210  | 0.4   | 5123.66    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-29-a (Samp) 5/31/2013, 12:46:25 AM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 820.553                  | 822.930   | 821.445   |
| Al 308.215 | 99587.5                  | 100046    | 99395.8   |
| As 188.980 | 132.487                  | 139.939   | 141.028   |
| B 249.678  | 100.356u                 | 99.8937u  | 100.629u  |
| Ba 389.178 | 9496.17                  | 9497.07   | 9483.13   |
| Be 313.042 | 5.5974                   | 5.5889    | 5.5739    |
| Ca 370.602 | 40162                    | 40090     | 40003     |
| Cd 226.502 | 4.9646                   | 4.0599    | 3.7148    |
| Co 228.615 | 124.149                  | 123.191   | 126.124   |
| Cr 267.716 | 2405.68                  | 2402.37   | 2401.71   |
| Cu 324.754 | 77826.0x                 | 76675.3x  | 76937.7x  |
| Fe 271.441 | 1014659x                 | 1006420x  | 1010595x  |
| K 766.491  | 18004.0                  | 17949.4   | 17933.6   |
| Mg 279.078 | 20290.6                  | 20256.2   | 20220.1   |
| Mn 257.610 | 6133.45                  | 6123.31   | 6136.73   |
| Mo 202.032 | 61.4677                  | 62.9098   | 60.1711   |
| Na 330.237 | -3422.89u                | -3599.07u | -3617.20u |
| Ni 231.604 | 424.709                  | 419.783   | 422.443   |
| Pb 220.353 | 14487.5                  | 14481.6   | 14514.3   |
| Sb 206.834 | 56.2675                  | 53.2685   | 60.3997   |
| Se 196.026 | 2.1488u                  | 1.1469u   | 11.7844u  |
| Sn 189.925 | 6273.68                  | 6301.73   | 6261.23   |
| Sr 216.596 | 749.808                  | 749.421   | 748.938   |
| Ti 334.941 | 6884.56                  | 6860.55   | 6851.49   |
| Tl 190.794 | -2.4335u                 | -0.2804u  | -3.0812u  |
| V 292.401  | 254.870                  | 254.581   | 255.527   |
| Zn 206.200 | 72491.4x                 | 72666.7x  | 72554.9x  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 821.643b    | ppb   | 1.2005  | 0.1   | 59624.0    |
| Al 308.215 | 99676.5b    | ppb   | 334.267 | 0.3   | 615998     |
| As 188.980 | 137.818b    | ppb   | 4.6492  | 3.4   | 55.7635    |
| B 249.678  | 100.293b    | ppb   | 0.3719  | 0.4   | -444.023   |
| Ba 389.178 | 9492.12b    | ppb   | 7.8005  | 0.1   | 178687     |
| Be 313.042 | 5.5867b     | ppb   | 0.0119  | 0.2   | 9665.06    |
| Ca 370.602 | 40085b      | ppb   | 79.70   | 0.2   | 31362      |
| Cd 226.502 | 4.2465b     | ppb   | 0.6455  | 15.2  | 2595.97    |
| Co 228.615 | 124.488b    | ppb   | 1.4956  | 1.2   | 1629.92    |
| Cr 267.716 | 2403.25b    | ppb   | 2.1312  | 0.1   | 111399     |
| Cu 324.754 | 77146.3xb   | ppb   | 603.051 | 0.8   | 4269018    |
| Fe 271.441 | 1010558xb   | ppb   | 4119.34 | 0.4   | 1586433    |
| K 766.491  | 17962.3b    | ppb   | 36.9467 | 0.2   | 605824     |
| Mg 279.078 | 20255.7b    | ppb   | 35.2573 | 0.2   | 43199.8    |
| Mn 257.610 | 6131.16b    | ppb   | 6.9972  | 0.1   | 1376378    |
| Mo 202.032 | 61.5162b    | ppb   | 1.3700  | 2.2   | 379.813    |
| Na 330.237 | -3546.38b   | ppb   | 107.336 | 3.0   | -1396.35   |
| Ni 231.604 | 422.311b    | ppb   | 2.4657  | 0.6   | 1126.19    |
| Pb 220.353 | 14494.5b    | ppb   | 17.4293 | 0.1   | 21576.5    |
| Sb 206.834 | 56.6452b    | ppb   | 3.5806  | 6.3   | 100.421    |
| Se 196.026 | 5.0267b     | ppb   | 5.8738  | 116.9 | -2.2837    |
| Sn 189.925 | 6278.88b    | ppb   | 20.7430 | 0.3   | 5222.84    |
| Sr 216.596 | 749.389b    | ppb   | 0.4357  | 0.1   | 8743.94    |
| Ti 334.941 | 6865.54b    | ppb   | 17.0903 | 0.2   | 1784997    |
| Tl 190.794 | -1.9317b    | ppb   | 1.4663  | 75.9  | -43.4179   |
| V 292.401  | 254.993b    | ppb   | 0.4850  | 0.2   | 6173.40    |
| Zn 206.200 | 72571.0xb   | ppb   | 88.7518 | 0.1   | 93470.6    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-30-a (Samp) 5/31/2013, 12:51:01 AM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -2.3035u                 | -1.3770u | -1.8863u |
| Al 308.215 | 263702                   | 265114   | 265115   |
| As 188.980 | 10.9141                  | 8.3450   | 16.2999  |
| B 249.678  | 12.1344u                 | 11.1560u | 12.8167u |
| Ba 389.178 | 1280.85                  | 1287.40  | 1286.52  |
| Be 313.042 | 13.0207                  | 13.0766  | 13.1000  |
| Ca 370.602 | 4393                     | 4364     | 4457     |
| Cd 226.502 | -1.4270                  | -1.5190  | -1.1812  |
| Co 228.615 | 106.815                  | 108.008  | 107.085  |
| Cr 267.716 | 230.856                  | 232.124  | 232.744  |
| Cu 324.754 | 208.096                  | 206.686  | 206.324  |
| Fe 271.441 | 242230                   | 243916   | 243879   |
| K 766.491  | 38949.1x                 | 39182.4x | 39092.5x |
| Mg 279.078 | 44997.7                  | 45079.8  | 45161.2  |
| Mn 257.610 | 3515.70                  | 3532.55  | 3533.29  |
| Mo 202.032 | 3.2987                   | 3.2547   | 2.8928   |
| Na 330.237 | 985.932u                 | 935.718u | 901.642u |
| Ni 231.604 | 83.8446                  | 87.7524  | 86.2645  |
| Pb 220.353 | 91.8312                  | 96.8977  | 86.7501  |
| Sb 206.834 | 7.1406                   | 8.9597   | 3.1406   |
| Se 196.026 | -4.6396u                 | -6.5824u | 12.1818  |
| Sn 189.925 | 18.3974                  | 22.7063  | 18.7420  |
| Sr 216.596 | 37.8435                  | 38.1606  | 38.9811  |
| Ti 334.941 | 12585.9                  | 12623.6  | 12679.8  |
| Tl 190.794 | 2.6508u                  | 22.1111  | 18.1501  |
| V 292.401  | 678.193                  | 681.626  | 681.796  |
| Zn 206.200 | 442.314                  | 445.804  | 444.421  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.8556b    | ppb   | 0.4641  | 25.0   | -130.620   |
| Al 308.215 | 264644b     | ppb   | 815.562 | 0.3    | 1635190    |
| As 188.980 | 11.8530b    | ppb   | 4.0597  | 34.3   | -0.5529    |
| B 249.678  | 12.0357b    | ppb   | 0.8347  | 6.9    | -189.971   |
| Ba 389.178 | 1284.92b    | ppb   | 3.5572  | 0.3    | 24389.2    |
| Be 313.042 | 13.0658b    | ppb   | 0.0408  | 0.3    | 22968.9    |
| Ca 370.602 | 4405b       | ppb   | 47.46   | 1.1    | 935.6      |
| Cd 226.502 | -1.3758b    | ppb   | 0.1746  | 12.7   | 558.755    |
| Co 228.615 | 107.303b    | ppb   | 0.6256  | 0.6    | 1533.96    |
| Cr 267.716 | 231.908b    | ppb   | 0.9625  | 0.4    | 10820.0    |
| Cu 324.754 | 207.036b    | ppb   | 0.9358  | 0.5    | 11712.0    |
| Fe 271.441 | 243342b     | ppb   | 962.950 | 0.4    | 382040     |
| K 766.491  | 39074.6xb   | ppb   | 117.656 | 0.3    | 1317590    |
| Mg 279.078 | 45079.6b    | ppb   | 81.7893 | 0.2    | 95883.3    |
| Mn 257.610 | 3527.18b    | ppb   | 9.9498  | 0.3    | 791191     |
| Mo 202.032 | 3.1488b     | ppb   | 0.2227  | 7.1    | 19.2828    |
| Na 330.237 | 941.097b    | ppb   | 42.4020 | 4.5    | -21.4258   |
| Ni 231.604 | 85.9538b    | ppb   | 1.9723  | 2.3    | 227.269    |
| Pb 220.353 | 91.8263b    | ppb   | 5.0738  | 5.5    | 168.864    |
| Sb 206.834 | 6.4136b     | ppb   | 2.9769  | 46.4   | 14.4578    |
| Se 196.026 | 0.3199b     | ppb   | 10.3185 | 3225.1 | 4.3776     |
| Sn 189.925 | 19.9486b    | ppb   | 2.3945  | 12.0   | 2.0690     |
| Sr 216.596 | 38.3284b    | ppb   | 0.5871  | 1.5    | 626.180    |
| Ti 334.941 | 12629.8b    | ppb   | 47.2567 | 0.4    | 3283580    |
| Tl 190.794 | 14.3040b    | ppb   | 10.2845 | 71.9   | -10.8192   |
| V 292.401  | 680.538b    | ppb   | 2.0325  | 0.3    | 16741.2    |
| Zn 206.200 | 444.180b    | ppb   | 1.7573  | 0.4    | 578.455    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90599-a-31-a (Samp) 5/31/2013, 12:55:49 AM Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -1.7251u                 | -1.4143u | -1.5292u |
| Al 308.215 | 232797                   | 232108   | 231835   |
| As 188.980 | 24.6651                  | 20.5690  | 15.3759  |
| B 249.678  | 11.6976u                 | 11.2269u | 11.1534u |
| Ba 389.178 | 792.900                  | 792.434  | 791.354  |
| Be 313.042 | 18.6969                  | 18.6421  | 18.6630  |
| Ca 370.602 | 2839u                    | 2777u    | 2830u    |
| Cd 226.502 | -2.0934                  | -2.4755  | -2.2433  |
| Co 228.615 | 122.810                  | 122.529  | 122.972  |
| Cr 267.716 | 237.535                  | 236.486  | 236.835  |
| Cu 324.754 | 239.096                  | 238.711  | 239.387  |
| Fe 271.441 | 335295                   | 335142   | 334972   |
| K 766.491  | 17315.9                  | 17320.9  | 17297.6  |
| Mg 279.078 | 31508.2                  | 31381.6  | 31330.3  |
| Mn 257.610 | 1982.76                  | 1979.13  | 1979.38  |
| Mo 202.032 | 4.0590                   | 4.0699   | 3.1306   |
| Na 330.237 | 804.146u                 | 774.805u | 778.385u |
| Ni 231.604 | 77.2689                  | 77.0490  | 79.1705  |
| Pb 220.353 | 77.4856                  | 91.1455  | 82.9814  |
| Sb 206.834 | -4.1873                  | 8.7557   | -3.0773  |
| Se 196.026 | 8.9266                   | 5.1614u  | 10.3428  |
| Sn 189.925 | 32.1216                  | 24.8707  | 23.8759  |
| Sr 216.596 | 32.7057                  | 32.2484  | 32.6136  |
| Ti 334.941 | 11483.1                  | 11451.3  | 11429.5  |
| Tl 190.794 | 5.4296u                  | 20.4907u | 15.5994u |
| V 292.401  | 862.795                  | 863.321  | 862.825  |
| Zn 206.200 | 633.794                  | 632.043  | 627.482  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -1.5562     | ppb   | 0.1572  | 10.1   | -114.786   |
| Al 308.215 | 232247      | ppb   | 495.846 | 0.2    | 1434989    |
| As 188.980 | 20.2033     | ppb   | 4.6554  | 23.0   | 2.6810     |
| B 249.678  | 11.3593     | ppb   | 0.2953  | 2.6    | -373.572   |
| Ba 389.178 | 792.229     | ppb   | 0.7933  | 0.1    | 15252.9    |
| Be 313.042 | 18.6673     | ppb   | 0.0277  | 0.1    | 32919.5    |
| Ca 370.602 | 2815        | ppb   | 33.17   | 1.2    | -7138      |
| Cd 226.502 | -2.2707     | ppb   | 0.1925  | 8.5    | 750.658    |
| Co 228.615 | 122.770     | ppb   | 0.2244  | 0.2    | 1688.75    |
| Cr 267.716 | 236.952     | ppb   | 0.5344  | 0.2    | 11063.5    |
| Cu 324.754 | 239.065     | ppb   | 0.3391  | 0.1    | 13512.3    |
| Fe 271.441 | 335137      | ppb   | 161.392 | 0.0    | 526144     |
| K 766.491  | 17311.4     | ppb   | 12.2717 | 0.1    | 583881     |
| Mg 279.078 | 31406.7     | ppb   | 91.5599 | 0.3    | 66835.9    |
| Mn 257.610 | 1980.42     | ppb   | 2.0273  | 0.1    | 444822     |
| Mo 202.032 | 3.7532      | ppb   | 0.5392  | 14.4   | 18.7539    |
| Na 330.237 | 785.779     | ppb   | 16.0069 | 2.0    | -52.4588   |
| Ni 231.604 | 77.8295     | ppb   | 1.1666  | 1.5    | 207.807    |
| Pb 220.353 | 83.8708     | ppb   | 6.8732  | 8.2    | 163.641    |
| Sb 206.834 | 0.4970      | ppb   | 7.1737  | 1443.3 | 10.7801    |
| Se 196.026 | 8.1436      | ppb   | 2.6779  | 32.9   | 6.4975     |
| Sn 189.925 | 26.9561     | ppb   | 4.5010  | 16.7   | 7.9107     |
| Sr 216.596 | 32.5226     | ppb   | 0.2418  | 0.7    | 644.567    |
| Ti 334.941 | 11454.6     | ppb   | 26.9319 | 0.2    | 2978021    |
| Tl 190.794 | 13.8399     | ppb   | 7.6832  | 55.5   | -13.5026   |
| V 292.401  | 862.980     | ppb   | 0.2952  | 0.0    | 21173.5    |
| Zn 206.200 | 631.106     | ppb   | 3.2587  | 0.5    | 519.999    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

640-43724-a-1-a (Samp) 5/31/2013, 1:00:26 AM Rack 3, Tube 21

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2948u                  | 0.1508u  | -0.3037u |
| Al 308.215 | 37146.5                  | 37187.0  | 37246.5  |
| As 188.980 | 44.1159                  | 38.9254  | 38.0920  |
| B 249.678  | 630.845                  | 636.267  | 640.372  |
| Ba 389.178 | 588.736                  | 591.103  | 591.435  |
| Be 313.042 | 2.1892                   | 2.2038   | 2.1919   |
| Ca 370.602 | 595383                   | 593810   | 595184   |
| Cd 226.502 | 1.9728                   | 1.7722   | 1.8277   |
| Co 228.615 | 11.1806                  | 10.6047  | 10.6468  |
| Cr 267.716 | 111.082                  | 111.549  | 111.559  |
| Cu 324.754 | 1564.38                  | 1563.21  | 1552.16  |
| Fe 271.441 | 35007.6                  | 35012.7  | 35085.6  |
| K 766.491  | 5894.62                  | 5873.04  | 5882.43  |
| Mg 279.078 | 24001.0                  | 24033.0  | 24060.5  |
| Mn 257.610 | 1240.00                  | 1243.06  | 1244.40  |
| Mo 202.032 | 8.5839                   | 7.2543   | 8.1843   |
| Na 330.237 | 6103.68                  | 5997.61  | 6133.32  |
| Ni 231.604 | 58.9881                  | 56.9373  | 57.3052  |
| Pb 220.353 | 309.958                  | 309.659  | 314.378  |
| Sb 206.834 | 8.1523                   | 7.2437   | 0.4707   |
| Se 196.026 | 3.7773                   | 11.3359  | 4.7203   |
| Sn 189.925 | 45.6923                  | 47.3846  | 46.4389  |
| Sr 216.596 | 1476.72                  | 1480.11  | 1482.13  |
| Ti 334.941 | 1069.15                  | 1067.70  | 1070.70  |
| Tl 190.794 | 3.6467                   | -2.1267u | 4.8958   |
| V 292.401  | 81.0552                  | 81.2228  | 81.4951  |
| Zn 206.200 | 2291.99                  | 2291.70  | 2304.59  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 0.0473      | ppb   | 0.3124  | 660.5 | -70.1411   |
| Al 308.215 | 37193.3     | ppb   | 50.3238 | 0.1   | 229972     |
| As 188.980 | 40.3777     | ppb   | 3.2640  | 8.1   | 13.7424    |
| B 249.678  | 635.828     | ppb   | 4.7788  | 0.8   | 8706.34    |
| Ba 389.178 | 590.425     | ppb   | 1.4715  | 0.2   | 11118.5    |
| Be 313.042 | 2.1950      | ppb   | 0.0078  | 0.4   | 3844.10    |
| Ca 370.602 | 594793      | ppb   | 856.4   | 0.1   | 1168159    |
| Cd 226.502 | 1.8575      | ppb   | 0.1036  | 5.6   | 162.425    |
| Co 228.615 | 10.8107     | ppb   | 0.3211  | 3.0   | 156.100    |
| Cr 267.716 | 111.397     | ppb   | 0.2722  | 0.2   | 5172.85    |
| Cu 324.754 | 1559.92     | ppb   | 6.7444  | 0.4   | 86505.5    |
| Fe 271.441 | 35035.3     | ppb   | 43.6413 | 0.1   | 55018.3    |
| K 766.491  | 5883.36     | ppb   | 10.8184 | 0.2   | 198603     |
| Mg 279.078 | 24031.5     | ppb   | 29.7950 | 0.1   | 51155.0    |
| Mn 257.610 | 1242.48     | ppb   | 2.2583  | 0.2   | 278662     |
| Mo 202.032 | 8.0075      | ppb   | 0.6822  | 8.5   | 63.0674    |
| Na 330.237 | 6078.20     | ppb   | 71.3509 | 1.2   | 289.990    |
| Ni 231.604 | 57.7435     | ppb   | 1.0934  | 1.9   | 149.057    |
| Pb 220.353 | 311.332     | ppb   | 2.6425  | 0.8   | 489.986    |
| Sb 206.834 | 5.2889      | ppb   | 4.1974  | 79.4  | 7.4761     |
| Se 196.026 | 6.6112      | ppb   | 4.1188  | 62.3  | 9.3100     |
| Sn 189.925 | 46.5052     | ppb   | 0.8481  | 1.8   | 24.4847    |
| Sr 216.596 | 1479.65     | ppb   | 2.7345  | 0.2   | 15624.2    |
| Ti 334.941 | 1069.18     | ppb   | 1.5006  | 0.1   | 278006     |
| Tl 190.794 | 2.1386      | ppb   | 3.7463  | 175.2 | -10.0284   |
| V 292.401  | 81.2577     | ppb   | 0.2220  | 0.3   | 1971.59    |
| Zn 206.200 | 2296.09     | ppb   | 7.3635  | 0.3   | 2962.07    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

640-43724-a-3-a (Samp) 5/31/2013, 1:05:03 AM Rack 3, Tube 22

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1927u                 | 0.0396u  | -0.1037u |
| Al 308.215 | 39152.9                  | 39395.1  | 39179.6  |
| As 188.980 | 52.9920                  | 59.8390  | 51.4985  |
| B 249.678  | 160.485                  | 160.864  | 159.420  |
| Ba 389.178 | 535.067                  | 538.209  | 535.383  |
| Be 313.042 | 1.5572                   | 1.5527   | 1.5534   |
| Ca 370.602 | 108952                   | 109710   | 108679   |
| Cd 226.502 | 1.6142                   | 1.5883   | 1.4884   |
| Co 228.615 | 4.9716                   | 5.0217   | 5.3550   |
| Cr 267.716 | 124.031                  | 124.342  | 123.422  |
| Cu 324.754 | 185.691                  | 187.435  | 186.517  |
| Fe 271.441 | 40483.1                  | 40664.3  | 40441.2  |
| K 766.491  | 7246.11                  | 7306.70  | 7292.31  |
| Mg 279.078 | 14380.2                  | 14435.1  | 14377.3  |
| Mn 257.610 | 1351.08                  | 1357.10  | 1349.41  |
| Mo 202.032 | 12.2351                  | 11.4038  | 11.8976  |
| Na 330.237 | 1827.00                  | 1918.04  | 2070.45  |
| Ni 231.604 | 33.2215                  | 33.5378  | 34.1838  |
| Pb 220.353 | 152.895                  | 155.498  | 153.318  |
| Sb 206.834 | 0.9185                   | 2.1888   | 1.6754   |
| Se 196.026 | -3.0073u                 | -4.5206u | 5.9234   |
| Sn 189.925 | 22.2430                  | 21.9667  | 24.3817  |
| Sr 216.596 | 420.912                  | 421.910  | 418.796  |
| Ti 334.941 | 509.276                  | 512.192  | 511.021  |
| Tl 190.794 | -2.8415u                 | 9.7816   | 4.0328   |
| V 292.401  | 90.6581                  | 91.0244  | 91.2529  |
| Zn 206.200 | 1104.51                  | 1102.71  | 1097.89  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0856     | ppb   | 0.1172  | 136.9  | -31.7212   |
| Al 308.215 | 39242.5     | ppb   | 132.776 | 0.3    | 242632     |
| As 188.980 | 54.7765     | ppb   | 4.4474  | 8.1    | 21.0052    |
| B 249.678  | 160.256     | ppb   | 0.7486  | 0.5    | 2214.98    |
| Ba 389.178 | 536.220     | ppb   | 1.7299  | 0.3    | 10091.0    |
| Be 313.042 | 1.5544      | ppb   | 0.0024  | 0.2    | 2542.20    |
| Ca 370.602 | 109114      | ppb   | 534.3   | 0.5    | 212738     |
| Cd 226.502 | 1.5636      | ppb   | 0.0664  | 4.2    | 165.888    |
| Co 228.615 | 5.1161      | ppb   | 0.2084  | 4.1    | 78.1524    |
| Cr 267.716 | 123.932     | ppb   | 0.4680  | 0.4    | 5753.04    |
| Cu 324.754 | 186.548     | ppb   | 0.8726  | 0.5    | 10518.8    |
| Fe 271.441 | 40529.5     | ppb   | 118.583 | 0.3    | 63642.5    |
| K 766.491  | 7281.71     | ppb   | 31.6546 | 0.4    | 245746     |
| Mg 279.078 | 14397.6     | ppb   | 32.5741 | 0.2    | 30650.4    |
| Mn 257.610 | 1352.53     | ppb   | 4.0430  | 0.3    | 303246     |
| Mo 202.032 | 11.8455     | ppb   | 0.4181  | 3.5    | 88.8165    |
| Na 330.237 | 1938.50     | ppb   | 123.011 | 6.3    | 112.244    |
| Ni 231.604 | 33.6477     | ppb   | 0.4905  | 1.5    | 85.9281    |
| Pb 220.353 | 153.904     | ppb   | 1.3970  | 0.9    | 257.183    |
| Sb 206.834 | 1.5942      | ppb   | 0.6390  | 40.1   | 4.0142     |
| Se 196.026 | -0.5348     | ppb   | 5.6440  | 1055.3 | 5.9755     |
| Sn 189.925 | 22.8638     | ppb   | 1.3218  | 5.8    | 4.5539     |
| Sr 216.596 | 420.540     | ppb   | 1.5900  | 0.4    | 4471.38    |
| Ti 334.941 | 510.830     | ppb   | 1.4674  | 0.3    | 132810     |
| Tl 190.794 | 3.6576      | ppb   | 6.3199  | 172.8  | -9.4935    |
| V 292.401  | 90.9785     | ppb   | 0.3001  | 0.3    | 2199.56    |
| Zn 206.200 | 1101.70     | ppb   | 3.4249  | 0.3    | 1423.82    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

mb 680-278504/1-a (Samp) 5/31/2013, 1:09:39 AM Rack 3, Tube 23

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2655u                 | -0.2295u | 0.0181   |
| Al 308.215 | 7.3231                   | 6.8968   | 8.2676   |
| As 188.980 | 1.0175                   | -2.9596u | 0.9138   |
| B 249.678  | 8.1263                   | 7.3221   | 7.0671   |
| Ba 389.178 | -0.5516u                 | -0.0859u | 0.3754   |
| Be 313.042 | 0.0014                   | 0.0044   | 0.0048   |
| Ca 370.602 | 14.21                    | 10.53    | 9.759    |
| Cd 226.502 | 0.1382                   | 0.1581   | 0.2262   |
| Co 228.615 | -0.2960u                 | 0.0187   | -0.7151u |
| Cr 267.716 | 0.3226                   | 0.0935   | 0.1018   |
| Cu 324.754 | -0.1399u                 | -0.1597u | -0.2041u |
| Fe 271.441 | 9.6077                   | 4.3163   | 10.9822  |
| K 766.491  | 3.6398                   | 3.7597   | 3.4892   |
| Mg 279.078 | 17.5247                  | 15.5499  | 15.6810  |
| Mn 257.610 | 0.0707                   | 0.1034   | 0.0636   |
| Mo 202.032 | 0.4441                   | -0.4457u | -0.3125u |
| Na 330.237 | -56.8773u                | 43.9127  | 11.6454  |
| Ni 231.604 | 0.3058                   | 2.7637   | 0.8898   |
| Pb 220.353 | -1.7872u                 | -1.5666u | -1.3410u |
| Sb 206.834 | 1.3001                   | -3.2192u | -4.3939u |
| Se 196.026 | 1.4765                   | -5.7620u | -3.6137u |
| Sn 189.925 | 3.7994                   | 5.4622   | 2.8107   |
| Sr 216.596 | 0.1594                   | -0.3118u | -0.5264u |
| Ti 334.941 | 0.4310                   | 0.3745   | 0.3930   |
| Tl 190.794 | -3.9141u                 | -1.0742u | 0.8181   |
| V 292.401  | -0.0068u                 | 0.3087   | 0.0329   |
| Zn 206.200 | -0.5469u                 | 1.0511   | 0.8581   |

| Label      | Sol'n Conc. | Units | SD      | %RSD    | Int. (c/s) |
|------------|-------------|-------|---------|---------|------------|
| Ag 328.068 | -0.1590     | ppb   | 0.1544  | 97.1    | -24.8616   |
| Al 308.215 | 7.4958      | ppb   | 0.7015  | 9.4     | 229.034    |
| As 188.980 | -0.3428     | ppb   | 2.2668  | 661.3   | -6.8928    |
| B 249.678  | 7.5051      | ppb   | 0.5528  | 7.4     | 210.259    |
| Ba 389.178 | -0.0874     | ppb   | 0.4635  | 530.6   | -14.6253   |
| Be 313.042 | 0.0036      | ppb   | 0.0019  | 52.2    | -248.490   |
| Ca 370.602 | 11.50       | ppb   | 2.378   | 20.7    | 19.61      |
| Cd 226.502 | 0.1741      | ppb   | 0.0462  | 26.5    | 22.0723    |
| Co 228.615 | -0.3308     | ppb   | 0.3681  | 111.3   | 2.5424     |
| Cr 267.716 | 0.1726      | ppb   | 0.1300  | 75.3    | 15.0803    |
| Cu 324.754 | -0.1679     | ppb   | 0.0329  | 19.6    | 175.219    |
| Fe 271.441 | 8.3021      | ppb   | 3.5195  | 42.4    | 29.9072    |
| K 766.491  | 3.6295      | ppb   | 0.1355  | 3.7     | 378.278    |
| Mg 279.078 | 16.2519     | ppb   | 1.1042  | 6.8     | 70.0015    |
| Mn 257.610 | 0.0792      | ppb   | 0.0212  | 26.7    | 48.3934    |
| Mo 202.032 | -0.1047     | ppb   | 0.4799  | 458.4   | 9.8513     |
| Na 330.237 | -0.4396     | ppb   | 51.4703 | 11707.6 | 48.9163    |
| Ni 231.604 | 1.3198      | ppb   | 1.2841  | 97.3    | 0.2176     |
| Pb 220.353 | -1.5649     | ppb   | 0.2231  | 14.3    | 24.7636    |
| Sb 206.834 | -2.1043     | ppb   | 3.0063  | 142.9   | -1.4785    |
| Se 196.026 | -2.6331     | ppb   | 3.7175  | 141.2   | 5.1954     |
| Sn 189.925 | 4.0241      | ppb   | 1.3400  | 33.3    | -11.2077   |
| Sr 216.596 | -0.2262     | ppb   | 0.3508  | 155.1   | 12.6642    |
| Ti 334.941 | 0.3995      | ppb   | 0.0288  | 7.2     | 45.3275    |
| Tl 190.794 | -1.3901     | ppb   | 2.3819  | 171.3   | -10.4061   |
| V 292.401  | 0.1116      | ppb   | 0.1718  | 154.0   | -15.6888   |
| Zn 206.200 | 0.4541      | ppb   | 0.8722  | 192.1   | 5.5526     |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

Ics 680-278504/2-a (Samp) 5/31/2013, 1:14:15 AM Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 49.2734                  | 49.2677 | 49.3482 |
| Al 308.215 | 4826.04                  | 4815.57 | 4799.26 |
| As 188.980 | 108.200                  | 105.953 | 100.834 |
| B 249.678  | 192.190                  | 192.035 | 193.105 |
| Ba 389.178 | 96.0045                  | 96.4171 | 96.8773 |
| Be 313.042 | 50.0430                  | 49.9484 | 49.7661 |
| Ca 370.602 | 4752                     | 4737    | 4737    |
| Cd 226.502 | 49.9339                  | 49.7543 | 49.5336 |
| Co 228.615 | 49.9213                  | 49.9300 | 48.5294 |
| Cr 267.716 | 99.6259                  | 99.3300 | 99.0688 |
| Cu 324.754 | 100.002                  | 99.1038 | 101.585 |
| Fe 271.441 | 4816.62                  | 4817.13 | 4819.88 |
| K 766.491  | 4987.16                  | 4974.90 | 4957.83 |
| Mg 279.078 | 4886.09                  | 4880.66 | 4869.77 |
| Mn 257.610 | 509.526                  | 508.634 | 507.827 |
| Mo 202.032 | 98.9781                  | 99.9016 | 100.189 |
| Na 330.237 | 4918.92                  | 4986.03 | 4648.72 |
| Ni 231.604 | 98.6143                  | 98.7770 | 97.8442 |
| Pb 220.353 | 50.1156                  | 48.2359 | 46.3288 |
| Sb 206.834 | 44.8546                  | 47.5429 | 36.4578 |
| Se 196.026 | 92.9064                  | 94.0044 | 91.5479 |
| Sn 189.925 | 205.813                  | 198.073 | 203.404 |
| Sr 216.596 | 96.8818                  | 96.9727 | 96.6942 |
| Ti 334.941 | 97.7879                  | 97.6051 | 97.5890 |
| Tl 190.794 | 38.1472                  | 34.4283 | 43.3025 |
| V 292.401  | 98.7930                  | 98.6095 | 98.2600 |
| Zn 206.200 | 99.6309                  | 97.2836 | 98.1877 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.2964     | ppb   | 0.0449  | 0.1  | 3563.83    |
| Al 308.215 | 4813.63     | ppb   | 13.4976 | 0.3  | 29910.6    |
| As 188.980 | 104.995     | ppb   | 3.7753  | 3.6  | 46.4274    |
| B 249.678  | 192.444     | ppb   | 0.5782  | 0.3  | 2721.40    |
| Ba 389.178 | 96.4330     | ppb   | 0.4366  | 0.5  | 1806.59    |
| Be 313.042 | 49.9192     | ppb   | 0.1407  | 0.3  | 88490.4    |
| Ca 370.602 | 4742        | ppb   | 8.631   | 0.2  | 9125       |
| Cd 226.502 | 49.7406     | ppb   | 0.2005  | 0.4  | 1669.69    |
| Co 228.615 | 49.4602     | ppb   | 0.8061  | 1.6  | 575.551    |
| Cr 267.716 | 99.3416     | ppb   | 0.2787  | 0.3  | 4602.82    |
| Cu 324.754 | 100.230     | ppb   | 1.2560  | 1.3  | 5733.79    |
| Fe 271.441 | 4817.88     | ppb   | 1.7536  | 0.0  | 7586.91    |
| K 766.491  | 4973.30     | ppb   | 14.7330 | 0.3  | 167922     |
| Mg 279.078 | 4878.84     | ppb   | 8.3112  | 0.2  | 10409.9    |
| Mn 257.610 | 508.662     | ppb   | 0.8496  | 0.2  | 114032     |
| Mo 202.032 | 99.6896     | ppb   | 0.6327  | 0.6  | 686.091    |
| Na 330.237 | 4851.22     | ppb   | 178.551 | 3.7  | 273.597    |
| Ni 231.604 | 98.4118     | ppb   | 0.4983  | 0.5  | 255.102    |
| Pb 220.353 | 48.2268     | ppb   | 1.8934  | 3.9  | 98.7290    |
| Sb 206.834 | 42.9518     | ppb   | 5.7823  | 13.5 | 43.0201    |
| Se 196.026 | 92.8196     | ppb   | 1.2305  | 1.3  | 49.2289    |
| Sn 189.925 | 202.430     | ppb   | 3.9608  | 2.0  | 154.293    |
| Sr 216.596 | 96.8496     | ppb   | 0.1420  | 0.1  | 1032.64    |
| Ti 334.941 | 97.6607     | ppb   | 0.1105  | 0.1  | 25351.4    |
| Tl 190.794 | 38.6260     | ppb   | 4.4564  | 11.5 | 8.8867     |
| V 292.401  | 98.5542     | ppb   | 0.2708  | 0.3  | 2366.58    |
| Zn 206.200 | 98.3674     | ppb   | 1.1839  | 1.2  | 513.384    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90622-a-30-a (Samp) 5/31/2013, 1:28:16 AM Rack 3, Tube 27

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.5132                   | 2.7798   | 1.8758   |
| Al 308.215 | 74886.0                  | 74989.5  | 74752.2  |
| As 188.980 | 244.457                  | 263.975  | 243.566  |
| B 249.678  | 80.6944                  | 80.9439  | 80.4380  |
| Ba 389.178 | 2253.74                  | 2254.96  | 2249.47  |
| Be 313.042 | 8.3906                   | 8.3830   | 8.3680   |
| Ca 370.602 | 105129                   | 105161   | 104902   |
| Cd 226.502 | 10.9819                  | 11.1225  | 11.5340  |
| Co 228.615 | 88.6809                  | 86.8575  | 86.7593  |
| Cr 267.716 | 412.458                  | 412.797  | 411.649  |
| Cu 324.754 | 764.094                  | 769.310  | 771.955  |
| Fe 271.441 | 557544                   | 560388   | 562850   |
| K 766.491  | 9770.38                  | 9784.36  | 9754.24  |
| Mg 279.078 | 22645.9                  | 22702.1  | 22671.6  |
| Mn 257.610 | 13281.6                  | 13281.7  | 13248.7  |
| Mo 202.032 | 56.1369                  | 57.8237  | 57.4995  |
| Na 330.237 | 1252.59u                 | 1059.57u | 1004.90u |
| Ni 231.604 | 214.643                  | 216.885  | 215.836  |
| Pb 220.353 | 2383.58                  | 2387.47  | 2382.98  |
| Sb 206.834 | 12.4113                  | 7.6239   | 6.6324   |
| Se 196.026 | 17.9220                  | 6.0345u  | 7.2028u  |
| Sn 189.925 | 136.248                  | 141.614  | 136.310  |
| Sr 216.596 | 370.696                  | 369.599  | 369.390  |
| Ti 334.941 | 1117.72                  | 1120.05  | 1114.27  |
| Tl 190.794 | 32.4533u                 | 30.6861u | 20.2891u |
| V 292.401  | 326.435                  | 327.758  | 327.241  |
| Zn 206.200 | 6268.58                  | 6230.09  | 6276.18  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 2.0563      | ppb   | 0.6523  | 31.7 | 177.612    |
| Al 308.215 | 74875.9     | ppb   | 118.993 | 0.2  | 462755     |
| As 188.980 | 250.666     | ppb   | 11.5346 | 4.6  | 116.315    |
| B 249.678  | 80.6921     | ppb   | 0.2529  | 0.3  | 143.783    |
| Ba 389.178 | 2252.72     | ppb   | 2.8798  | 0.1  | 42802.3    |
| Be 313.042 | 8.3805      | ppb   | 0.0115  | 0.1  | 14650.5    |
| Ca 370.602 | 105064      | ppb   | 141.4   | 0.1  | 179546     |
| Cd 226.502 | 11.2128     | ppb   | 0.2869  | 2.6  | 1738.98    |
| Co 228.615 | 87.4325     | ppb   | 1.0822  | 1.2  | 1056.91    |
| Cr 267.716 | 412.301     | ppb   | 0.5899  | 0.1  | 19254.1    |
| Cu 324.754 | 768.453     | ppb   | 3.9997  | 0.5  | 42884.8    |
| Fe 271.441 | 560261      | ppb   | 2655.36 | 0.5  | 879539     |
| K 766.491  | 9769.66     | ppb   | 15.0700 | 0.2  | 329623     |
| Mg 279.078 | 22673.2     | ppb   | 28.1363 | 0.1  | 48154.6    |
| Mn 257.610 | 13270.7     | ppb   | 19.0066 | 0.1  | 2974600    |
| Mo 202.032 | 57.1534     | ppb   | 0.8951  | 1.6  | 371.223    |
| Na 330.237 | 1105.69     | ppb   | 130.124 | 11.8 | -140.696   |
| Ni 231.604 | 215.788     | ppb   | 1.1217  | 0.5  | 574.712    |
| Pb 220.353 | 2384.68     | ppb   | 2.4379  | 0.1  | 3598.63    |
| Sb 206.834 | 8.8892      | ppb   | 3.0903  | 34.8 | 24.9081    |
| Se 196.026 | 10.3864     | ppb   | 6.5521  | 63.1 | 7.3635     |
| Sn 189.925 | 138.058     | ppb   | 3.0804  | 2.2  | 100.621    |
| Sr 216.596 | 369.895     | ppb   | 0.7013  | 0.2  | 4384.94    |
| Ti 334.941 | 1117.34     | ppb   | 2.9083  | 0.3  | 290579     |
| Tl 190.794 | 27.8095     | ppb   | 6.5725  | 23.6 | -16.5244   |
| V 292.401  | 327.145     | ppb   | 0.6672  | 0.2  | 7946.91    |
| Zn 206.200 | 6258.28     | ppb   | 24.7136 | 0.4  | 8068.69    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90622-a-30-aSD^5 (Samp) 5/31/2013, 1:32:53 AM

Rack 3, Tube 28

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 0.2739                   | 0.0682   | 0.0450   |
| Al 308.215 | 14959.6                  | 14904.8  | 14912.8  |
| As 188.980 | 55.2417                  | 50.3348  | 52.0261  |
| B 249.678  | 20.4213                  | 20.1831  | 19.7416  |
| Ba 389.178 | 476.492                  | 471.800  | 471.822  |
| Be 313.042 | 1.7569                   | 1.7547   | 1.7647   |
| Ca 370.602 | 22354                    | 22228    | 22232    |
| Cd 226.502 | 2.0304                   | 1.9177   | 1.9404   |
| Co 228.615 | 18.7141                  | 18.6815  | 18.7982  |
| Cr 267.716 | 87.9723                  | 87.0712  | 87.4131  |
| Cu 324.754 | 155.220                  | 155.577  | 153.194  |
| Fe 271.441 | 121476                   | 120900   | 121001   |
| K 766.491  | 1751.27                  | 1751.65  | 1755.76  |
| Mg 279.078 | 4852.81                  | 4839.43  | 4835.23  |
| Mn 257.610 | 2875.34                  | 2863.85  | 2866.94  |
| Mo 202.032 | 12.0984                  | 11.9906  | 12.1212  |
| Na 330.237 | 133.067u                 | 163.365u | 299.114u |
| Ni 231.604 | 48.6043                  | 47.0116  | 48.2070  |
| Pb 220.353 | 516.515                  | 511.813  | 510.087  |
| Sb 206.834 | -0.3465                  | -0.3899  | 0.9567   |
| Se 196.026 | -1.8718u                 | 2.0254   | 3.6884   |
| Sn 189.925 | 31.9249                  | 31.8673  | 33.8248  |
| Sr 216.596 | 79.0620                  | 80.2889  | 79.3060  |
| Ti 334.941 | 236.728                  | 236.010  | 236.406  |
| Tl 190.794 | 0.2327u                  | 2.0746u  | 1.1105u  |
| V 292.401  | 69.0105                  | 69.9358  | 69.5018  |
| Zn 206.200 | 1346.92                  | 1351.11  | 1348.36  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.1290      | ppb   | 0.1260  | 97.7   | 5.0726     |
| Al 308.215 | 14925.7     | ppb   | 29.6136 | 0.2    | 92391.0    |
| As 188.980 | 52.5342     | ppb   | 2.4926  | 4.7    | 19.0304    |
| B 249.678  | 20.1153     | ppb   | 0.3449  | 1.7    | 152.142    |
| Ba 389.178 | 473.371     | ppb   | 2.7026  | 0.6    | 8987.93    |
| Be 313.042 | 1.7588      | ppb   | 0.0053  | 0.3    | 2873.26    |
| Ca 370.602 | 22271       | ppb   | 71.65   | 0.3    | 37942      |
| Cd 226.502 | 1.9628      | ppb   | 0.0596  | 3.0    | 373.483    |
| Co 228.615 | 18.7313     | ppb   | 0.0602  | 0.3    | 231.378    |
| Cr 267.716 | 87.4855     | ppb   | 0.4549  | 0.5    | 4091.81    |
| Cu 324.754 | 154.664     | ppb   | 1.2856  | 0.8    | 8781.36    |
| Fe 271.441 | 121126      | ppb   | 307.251 | 0.3    | 190165     |
| K 766.491  | 1752.90     | ppb   | 2.4914  | 0.1    | 59351.8    |
| Mg 279.078 | 4842.49     | ppb   | 9.1812  | 0.2    | 10312.6    |
| Mn 257.610 | 2868.71     | ppb   | 5.9475  | 0.2    | 643040     |
| Mo 202.032 | 12.0701     | ppb   | 0.0698  | 0.6    | 86.5971    |
| Na 330.237 | 198.515     | ppb   | 88.4281 | 44.5   | 6.1239     |
| Ni 231.604 | 47.9410     | ppb   | 0.8290  | 1.7    | 125.087    |
| Pb 220.353 | 512.805     | ppb   | 3.3266  | 0.6    | 795.180    |
| Sb 206.834 | 0.0734      | ppb   | 0.7652  | 1041.9 | 4.0163     |
| Se 196.026 | 1.2807      | ppb   | 2.8540  | 222.8  | 6.1704     |
| Sn 189.925 | 32.5390     | ppb   | 1.1139  | 3.4    | 12.5834    |
| Sr 216.596 | 79.5523     | ppb   | 0.6495  | 0.8    | 955.398    |
| Ti 334.941 | 236.381     | ppb   | 0.3599  | 0.2    | 61428.1    |
| Tl 190.794 | 1.1393      | ppb   | 0.9213  | 80.9   | -13.5705   |
| V 292.401  | 69.4827     | ppb   | 0.4630  | 0.7    | 1673.35    |
| Zn 206.200 | 1348.80     | ppb   | 2.1297  | 0.2    | 51742.88   |

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**680-90622-a-30-aPDS (Samp) 5/31/2013, 1:37:30 AM Rack 3, Tube 29****Weight: 1****Volume: 1****Dilution: 1**

| <b>Label</b> | <b>Replicates Concentration</b> |         |         |
|--------------|---------------------------------|---------|---------|
| Ag 328.068   | 50.9082                         | 51.4958 | 50.4287 |
| Al 308.215   | 75384.0                         | 75631.9 | 75781.6 |
| As 188.980   | 2403.67                         | 2398.53 | 2405.88 |
| B 249.678    | 1072.08                         | 1082.37 | 1084.79 |
| Ba 389.178   | 4080.59                         | 4106.35 | 4115.42 |
| Be 313.042   | 56.6379                         | 56.6749 | 56.7705 |
| Ca 370.602   | 107120                          | 107925  | 108481  |
| Cd 226.502   | 58.5098                         | 58.4230 | 57.9332 |
| Co 228.615   | 569.947                         | 568.083 | 567.868 |
| Cr 267.716   | 598.262                         | 599.548 | 602.185 |
| Cu 324.754   | 1015.27                         | 1005.95 | 1025.81 |
| Fe 271.441   | 548738                          | 550414  | 552698  |
| K 766.491    | 15930.9                         | 15958.7 | 15932.8 |
| Mg 279.078   | 27235.8                         | 27334.1 | 27413.3 |
| Mn 257.610   | 13466.2                         | 13552.6 | 13553.7 |
| Mo 202.032   | 565.490                         | 565.853 | 567.981 |
| Na 330.237   | 6479.85                         | 6345.65 | 6365.61 |
| Ni 231.604   | 689.793                         | 691.127 | 687.530 |
| Pb 220.353   | 2802.19                         | 2821.27 | 2835.22 |
| Sb 206.834   | 476.731                         | 486.617 | 490.294 |
| Se 196.026   | 2051.59                         | 2065.71 | 2064.56 |
| Sn 189.925   | 1102.44                         | 1117.30 | 1106.61 |
| Sr 216.596   | 844.935                         | 850.861 | 855.858 |
| Ti 334.941   | 2073.19                         | 2079.09 | 2032.36 |
| Tl 190.794   | 1968.05                         | 1972.11 | 1956.41 |
| V 292.401    | 804.587                         | 807.444 | 809.263 |
| Zn 206.200   | 6547.80                         | 6560.40 | 6617.99 |

| <b>Label</b> | <b>Sol'n Conc.</b> | <b>Units</b> | <b>SD</b> | <b>%RSD</b> | <b>Int. (c/s)</b> |
|--------------|--------------------|--------------|-----------|-------------|-------------------|
| Ag 328.068   | 50.9442            | ppb          | 0.5345    | 1.0         | 3709.71           |
| Al 308.215   | 75599.2            | ppb          | 200.830   | 0.3         | 467148            |
| As 188.980   | 2402.69            | ppb          | 3.7711    | 0.2         | 1206.05           |
| B 249.678    | 1079.75            | ppb          | 6.7527    | 0.6         | 13776.8           |
| Ba 389.178   | 4100.79            | ppb          | 18.0696   | 0.4         | 77362.1           |
| Be 313.042   | 56.6944            | ppb          | 0.0685    | 0.1         | 100466            |
| Ca 370.602   | 107842             | ppb          | 684.6     | 0.6         | 185804            |
| Cd 226.502   | 58.2887            | ppb          | 0.3109    | 0.5         | 3269.59           |
| Co 228.615   | 568.633            | ppb          | 1.1433    | 0.2         | 6603.59           |
| Cr 267.716   | 599.998            | ppb          | 1.9997    | 0.3         | 27929.1           |
| Cu 324.754   | 1015.68            | ppb          | 9.9354    | 1.0         | 56570.8           |
| Fe 271.441   | 550617             | ppb          | 1987.91   | 0.4         | 864460            |
| K 766.491    | 15940.8            | ppb          | 15.5213   | 0.1         | 537672            |
| Mg 279.078   | 27327.7            | ppb          | 88.9424   | 0.3         | 58054.4           |
| Mn 257.610   | 13524.2            | ppb          | 50.1958   | 0.4         | 3031394           |
| Mo 202.032   | 566.442            | ppb          | 1.3453    | 0.2         | 3823.97           |
| Na 330.237   | 6397.04            | ppb          | 72.4119   | 1.1         | 102.784           |
| Ni 231.604   | 689.483            | ppb          | 1.8184    | 0.3         | 1817.05           |
| Pb 220.353   | 2819.56            | ppb          | 16.5823   | 0.6         | 4241.62           |
| Sb 206.834   | 484.547            | ppb          | 7.0144    | 1.4         | 488.714           |
| Se 196.026   | 2060.62            | ppb          | 7.8386    | 0.4         | 952.094           |
| Sn 189.925   | 1108.78            | ppb          | 7.6651    | 0.7         | 910.337           |
| Sr 216.596   | 850.552            | ppb          | 5.4678    | 0.6         | 9404.11           |
| Ti 334.941   | 2061.55            | ppb          | 25.4457   | 1.2         | 536065            |
| Tl 190.794   | 1965.53            | ppb          | 8.1500    | 0.4         | 927.960           |
| V 292.401    | 807.098            | ppb          | 2.3572    | 0.3         | 19578.8           |
| Zn 206.200   | 6575.40            | ppb          | 37.4171   | 0.6         | 8476.42           |

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**680-90622-a-30-b ms (Samp) 5/31/2013, 1:42:17 AM Rack 3, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 50.2835                  | 50.7568 | 50.7739 |
| Al 308.215 | 90183.9                  | 90002.9 | 90124.6 |
| As 188.980 | 360.077                  | 361.837 | 356.890 |
| B 249.678  | 315.729                  | 312.986 | 313.684 |
| Ba 389.178 | 2774.93                  | 2765.54 | 2774.21 |
| Be 313.042 | 57.6774                  | 57.6130 | 57.8450 |
| Ca 370.602 | 140621                   | 140131  | 140385  |
| Cd 226.502 | 108.656                  | 108.307 | 110.045 |
| Co 228.615 | 152.596                  | 152.360 | 150.496 |
| Cr 267.716 | 547.263                  | 545.587 | 548.817 |
| Cu 324.754 | 716.220                  | 711.748 | 729.020 |
| Fe 271.441 | 571083                   | 569620  | 573299  |
| K 766.491  | 15263.5                  | 15265.9 | 15252.0 |
| Mg 279.078 | 28415.1                  | 28349.6 | 28450.4 |
| Mn 257.610 | 13303.8                  | 13279.8 | 13311.2 |
| Mo 202.032 | 140.639                  | 140.222 | 140.982 |
| Na 330.237 | 6421.89                  | 6149.73 | 6476.51 |
| Ni 231.604 | 270.066                  | 268.504 | 271.715 |
| Pb 220.353 | 2929.59                  | 2930.21 | 2935.85 |
| Sb 206.834 | 42.6437                  | 37.2881 | 43.3699 |
| Se 196.026 | 114.776                  | 105.639 | 95.3930 |
| Sn 189.925 | 367.120                  | 364.099 | 368.490 |
| Sr 216.596 | 465.168                  | 463.120 | 463.656 |
| Ti 334.941 | 1445.80                  | 1444.10 | 1448.53 |
| Tl 190.794 | 63.0131                  | 46.5599 | 61.0162 |
| V 292.401  | 526.695                  | 526.805 | 528.591 |
| Zn 206.200 | 6316.56                  | 6318.45 | 6349.30 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 50.6047     | ppb   | 0.2783  | 0.6  | 3699.08    |
| Al 308.215 | 90103.8     | ppb   | 92.3133 | 0.1  | 556809     |
| As 188.980 | 359.601     | ppb   | 2.5079  | 0.7  | 171.494    |
| B 249.678  | 314.133     | ppb   | 1.4256  | 0.5  | 3304.04    |
| Ba 389.178 | 2771.56     | ppb   | 5.2254  | 0.2  | 52529.8    |
| Be 313.042 | 57.7118     | ppb   | 0.1198  | 0.2  | 102360     |
| Ca 370.602 | 140379      | ppb   | 244.7   | 0.2  | 248549     |
| Cd 226.502 | 109.003     | ppb   | 0.9197  | 0.8  | 4993.32    |
| Co 228.615 | 151.817     | ppb   | 1.1504  | 0.8  | 1803.87    |
| Cr 267.716 | 547.223     | ppb   | 1.6152  | 0.3  | 25493.6    |
| Cu 324.754 | 718.996     | ppb   | 8.9646  | 1.2  | 40152.3    |
| Fe 271.441 | 571334      | ppb   | 1852.01 | 0.3  | 896932     |
| K 766.491  | 15260.5     | ppb   | 7.4268  | 0.0  | 514736     |
| Mg 279.078 | 28405.1     | ppb   | 51.1261 | 0.2  | 60350.3    |
| Mn 257.610 | 13298.2     | ppb   | 16.4194 | 0.1  | 2980848    |
| Mo 202.032 | 140.614     | ppb   | 0.3807  | 0.3  | 936.245    |
| Na 330.237 | 6349.38     | ppb   | 175.040 | 2.8  | 100.272    |
| Ni 231.604 | 270.095     | ppb   | 1.6059  | 0.6  | 717.379    |
| Pb 220.353 | 2931.88     | ppb   | 3.4470  | 0.1  | 4410.10    |
| Sb 206.834 | 41.1006     | ppb   | 3.3216  | 8.1  | 57.4185    |
| Se 196.026 | 105.269     | ppb   | 9.6966  | 9.2  | 50.9465    |
| Sn 189.925 | 366.570     | ppb   | 2.2467  | 0.6  | 291.248    |
| Sr 216.596 | 463.981     | ppb   | 1.0622  | 0.2  | 5382.95    |
| Ti 334.941 | 1446.14     | ppb   | 2.2338  | 0.2  | 376084     |
| Tl 190.794 | 56.8631     | ppb   | 8.9785  | 15.8 | -2.6057    |
| V 292.401  | 527.364     | ppb   | 1.0642  | 0.2  | 12815.0    |
| Zn 206.200 | 6328.11     | ppb   | 18.3817 | 0.3  | 8158.29    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90622-a-30-c msd (Samp) 5/31/2013, 1:46:54 AM Rack 3, Tube 31

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |         |
|------------|--------------------------|----------|---------|
| Ag 328.068 | 50.2077                  | 48.8242  | 49.9830 |
| Al 308.215 | 106577                   | 107015   | 107716  |
| As 188.980 | 413.278                  | 418.892  | 421.681 |
| B 249.678  | 256.817                  | 257.265  | 257.520 |
| Ba 389.178 | 6401.68                  | 6435.87  | 6462.87 |
| Be 313.042 | 59.3286                  | 59.6597  | 59.8769 |
| Ca 370.602 | 108095                   | 108506   | 108911  |
| Cd 226.502 | 59.1300                  | 58.6152  | 59.2875 |
| Co 228.615 | 167.401                  | 171.133  | 170.049 |
| Cr 267.716 | 635.486                  | 637.418  | 639.693 |
| Cu 324.754 | 884.212                  | 878.379  | 886.014 |
| Fe 271.441 | 685303                   | 687253   | 687994  |
| K 766.491  | 16549.1                  | 16584.1  | 16715.0 |
| Mg 279.078 | 29480.8                  | 29541.5  | 29673.7 |
| Mn 257.610 | 19496.4                  | 19515.5  | 19522.0 |
| Mo 202.032 | 131.870                  | 131.299  | 131.456 |
| Na 330.237 | 6239.32                  | 6012.55u | 6251.57 |
| Ni 231.604 | 228.300                  | 232.034  | 232.983 |
| Pb 220.353 | 2689.27                  | 2708.48  | 2707.29 |
| Sb 206.834 | 29.6402                  | 35.1781  | 41.3319 |
| Se 196.026 | 98.7271                  | 103.210  | 98.6299 |
| Sn 189.925 | 323.891                  | 319.108  | 324.456 |
| Sr 216.596 | 500.336                  | 500.884  | 503.268 |
| Ti 334.941 | 1766.33                  | 1772.36  | 1782.14 |
| Tl 190.794 | 78.7475                  | 74.4469  | 65.9167 |
| V 292.401  | 740.131                  | 742.395  | 746.268 |
| Zn 206.200 | 7130.19                  | 7137.16  | 7143.48 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 49.6716     | ppb   | 0.7425  | 1.5  | 3658.07    |
| Al 308.215 | 107102      | ppb   | 574.604 | 0.5  | 661799     |
| As 188.980 | 417.951     | ppb   | 4.2798  | 1.0  | 200.254    |
| B 249.678  | 257.201     | ppb   | 0.3557  | 0.1  | 2308.85    |
| Ba 389.178 | 6433.47     | ppb   | 30.6639 | 0.5  | 121141     |
| Be 313.042 | 59.6217     | ppb   | 0.2761  | 0.5  | 105735     |
| Ca 370.602 | 108504      | ppb   | 408.0   | 0.4  | 180395     |
| Cd 226.502 | 59.0109     | ppb   | 0.3516  | 0.6  | 3622.14    |
| Co 228.615 | 169.527     | ppb   | 1.9199  | 1.1  | 2019.64    |
| Cr 267.716 | 637.532     | ppb   | 2.1059  | 0.3  | 29720.9    |
| Cu 324.754 | 882.868     | ppb   | 3.9908  | 0.5  | 49254.6    |
| Fe 271.441 | 686850      | ppb   | 1389.79 | 0.2  | 1078274    |
| K 766.491  | 16616.0     | ppb   | 87.4400 | 0.5  | 560437     |
| Mg 279.078 | 29565.3     | ppb   | 98.6713 | 0.3  | 62735.2    |
| Mn 257.610 | 19511.3     | ppb   | 13.2737 | 0.1  | 4373011    |
| Mo 202.032 | 131.542     | ppb   | 0.2952  | 0.2  | 868.931    |
| Na 330.237 | 6167.81     | ppb   | 134.605 | 2.2  | 48.1337    |
| Ni 231.604 | 231.106     | ppb   | 2.4762  | 1.1  | 617.389    |
| Pb 220.353 | 2701.68     | ppb   | 10.7636 | 0.4  | 4076.85    |
| Sb 206.834 | 35.3834     | ppb   | 5.8485  | 16.5 | 55.2970    |
| Se 196.026 | 100.189     | ppb   | 2.6167  | 2.6  | 48.6162    |
| Sn 189.925 | 322.485     | ppb   | 2.9381  | 0.9  | 254.457    |
| Sr 216.596 | 501.496     | ppb   | 1.5588  | 0.3  | 5873.62    |
| Ti 334.941 | 1773.61     | ppb   | 7.9786  | 0.4  | 461234     |
| Tl 190.794 | 73.0370     | ppb   | 6.5305  | 8.9  | 0.3293     |
| V 292.401  | 742.931     | ppb   | 3.1033  | 0.4  | 18073.3    |
| Zn 206.200 | 7136.94     | ppb   | 6.6471  | 0.1  | 9290.73    |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

**680-90691-a-11-a (Samp)**      **5/31/2013, 1:51:31 AM**      **Rack 3, Tube 32****Weight: 1****Volume: 1****Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.3810u                 | -0.2597u  | -0.5276u  |
| Al 308.215 | 8545.16                  | 8577.25   | 8518.62   |
| As 188.980 | -1.2353u                 | 0.9719    | 3.7485    |
| B 249.678  | 12.8907                  | 12.8014   | 11.5270   |
| Ba 389.178 | 19.3712                  | 18.8776   | 19.3204   |
| Be 313.042 | 0.1015                   | 0.1042    | 0.0990    |
| Ca 370.602 | 185.0                    | 180.9     | 186.9     |
| Cd 226.502 | 0.4143                   | 0.5193    | 0.2908    |
| Co 228.615 | 0.4504                   | 0.3791    | -0.1991   |
| Cr 267.716 | 52.0388                  | 51.8519   | 51.5381   |
| Cu 324.754 | 0.5746                   | 0.9739    | 0.5382    |
| Fe 271.441 | 5718.42                  | 5721.61   | 5685.83   |
| K 766.491  | 50.8543                  | 50.8311   | 50.4030   |
| Mg 279.078 | 106.203                  | 105.461   | 104.680   |
| Mn 257.610 | 7.4346                   | 7.5248    | 7.4004    |
| Mo 202.032 | 0.6599                   | 1.0019    | 1.1753    |
| Na 330.237 | -83.7298u                | -70.5552u | -63.1137u |
| Ni 231.604 | 12.2149                  | 10.9767   | 11.9650   |
| Pb 220.353 | 3.8881                   | 6.5109    | 3.7245    |
| Sb 206.834 | 1.8418                   | -7.0767u  | -3.7686u  |
| Se 196.026 | 0.8048                   | -3.3836u  | -0.4052u  |
| Sn 189.925 | 10.7514                  | 11.7872   | 13.9781   |
| Sr 216.596 | 13.5592                  | 13.8398   | 12.7037   |
| Ti 334.941 | 118.288                  | 118.720   | 117.724   |
| Tl 190.794 | -5.2241u                 | 2.0324    | 6.3982    |
| V 292.401  | 20.5483                  | 20.5078   | 20.6450   |
| Zn 206.200 | 4.0455                   | 3.0841    | 3.9682    |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.3894     | ppb   | 0.1342  | 34.4  | -42.0002   |
| Al 308.215 | 8547.01     | ppb   | 29.3587 | 0.3   | 52987.9    |
| As 188.980 | 1.1617      | ppb   | 2.4973  | 215.0 | -6.1087    |
| B 249.678  | 12.4064     | ppb   | 0.7628  | 6.1   | 266.222    |
| Ba 389.178 | 19.1897     | ppb   | 0.2715  | 1.4   | 352.608    |
| Be 313.042 | 0.1016      | ppb   | 0.0026  | 2.5   | -74.3190   |
| Ca 370.602 | 184.3       | ppb   | 3.045   | 1.7   | 117.6      |
| Cd 226.502 | 0.4081      | ppb   | 0.1144  | 28.0  | 43.5619    |
| Co 228.615 | 0.2101      | ppb   | 0.3561  | 169.5 | 11.7392    |
| Cr 267.716 | 51.8096     | ppb   | 0.2530  | 0.5   | 2404.22    |
| Cu 324.754 | 0.6956      | ppb   | 0.2418  | 34.8  | 224.670    |
| Fe 271.441 | 5708.62     | ppb   | 19.7996 | 0.3   | 8978.70    |
| K 766.491  | 50.6961     | ppb   | 0.2541  | 0.5   | 1965.05    |
| Mg 279.078 | 105.448     | ppb   | 0.7612  | 0.7   | 258.213    |
| Mn 257.610 | 7.4533      | ppb   | 0.0643  | 0.9   | 1716.17    |
| Mo 202.032 | 0.9457      | ppb   | 0.2623  | 27.7  | 16.6698    |
| Na 330.237 | -72.4662    | ppb   | 10.4401 | 14.4  | 43.5432    |
| Ni 231.604 | 11.7189     | ppb   | 0.6548  | 5.6   | 27.6373    |
| Pb 220.353 | 4.7078      | ppb   | 1.5637  | 33.2  | 34.2292    |
| Sb 206.834 | -3.0011     | ppb   | 4.5085  | 150.2 | -1.7962    |
| Se 196.026 | -0.9946     | ppb   | 2.1555  | 216.7 | 5.8818     |
| Sn 189.925 | 12.1722     | ppb   | 1.6474  | 13.5  | -4.4112    |
| Sr 216.596 | 13.3676     | ppb   | 0.5918  | 4.4   | 160.004    |
| Ti 334.941 | 118.244     | ppb   | 0.4995  | 0.4   | 30683.2    |
| Tl 190.794 | 1.0688      | ppb   | 5.8707  | 549.3 | -9.3830    |
| V 292.401  | 20.5670     | ppb   | 0.0705  | 0.3   | 482.127    |
| Zn 206.200 | 3.6993      | ppb   | 0.5341  | 14.4  | 9.6191     |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

680-90691-a-12-a (Samp) 5/31/2013, 1:56:08 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.2975u                 | -0.5798u  | -0.1074u  |
| Al 308.215 | 8513.67                  | 8503.86   | 8483.52   |
| As 188.980 | 6.9722                   | 3.9853    | 1.5821    |
| B 249.678  | 8.0018                   | 7.1646    | 7.0816    |
| Ba 389.178 | 67.0114                  | 67.2749   | 66.7625   |
| Be 313.042 | 0.2876                   | 0.2925    | 0.2906    |
| Ca 370.602 | 219.7                    | 212.1     | 217.3     |
| Cd 226.502 | 11.9653                  | 11.8340   | 11.7867   |
| Co 228.615 | 1.1270                   | 0.6111    | 0.9707    |
| Cr 267.716 | 14.4613                  | 14.6091   | 14.5931   |
| Cu 324.754 | 0.7071                   | 0.8524    | 0.4072    |
| Fe 271.441 | 6203.99                  | 6212.75   | 6191.66   |
| K 766.491  | 77.8997                  | 77.7992   | 77.0907   |
| Mg 279.078 | 133.465                  | 130.304   | 134.863   |
| Mn 257.610 | 8.9058                   | 8.9309    | 8.8738    |
| Mo 202.032 | 0.2315                   | 0.5297    | -0.0739u  |
| Na 330.237 | 68.1740                  | -98.2114u | -28.1796u |
| Ni 231.604 | 31.9375                  | 31.4857   | 33.0299   |
| Pb 220.353 | 9.8707                   | 10.9197   | 10.3645   |
| Sb 206.834 | 1.0956                   | -1.3515u  | -6.8827u  |
| Se 196.026 | -7.0796u                 | -2.9745u  | -7.4489u  |
| Sn 189.925 | 11.5556                  | 13.9836   | 11.5182   |
| Sr 216.596 | 50.9662                  | 51.6393   | 51.1711   |
| Ti 334.941 | 144.479                  | 144.784   | 144.796   |
| Tl 190.794 | 6.1747                   | 3.5489    | 3.2491    |
| V 292.401  | 18.3206                  | 18.5578   | 18.0735   |
| Zn 206.200 | 5.2665                   | 6.6636    | 5.1058    |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.3283     | ppb   | 0.2377  | 72.4  | -39.1994   |
| Al 308.215 | 8500.35     | ppb   | 15.3790 | 0.2   | 52699.9    |
| As 188.980 | 4.1799      | ppb   | 2.7003  | 64.6  | -4.5845    |
| B 249.678  | 7.4160      | ppb   | 0.5090  | 6.9   | 197.277    |
| Ba 389.178 | 67.0163     | ppb   | 0.2562  | 0.4   | 1247.56    |
| Be 313.042 | 0.2902      | ppb   | 0.0024  | 0.8   | 261.252    |
| Ca 370.602 | 216.4       | ppb   | 3.904   | 1.8   | 165.1      |
| Cd 226.502 | 11.8620     | ppb   | 0.0925  | 0.8   | 422.793    |
| Co 228.615 | 0.9029      | ppb   | 0.2646  | 29.3  | 20.2223    |
| Cr 267.716 | 14.5545     | ppb   | 0.0811  | 0.6   | 681.614    |
| Cu 324.754 | 0.6556      | ppb   | 0.2270  | 34.6  | 222.621    |
| Fe 271.441 | 6202.80     | ppb   | 10.5981 | 0.2   | 9754.47    |
| K 766.491  | 77.5966     | ppb   | 0.4410  | 0.6   | 2871.95    |
| Mg 279.078 | 132.878     | ppb   | 2.3356  | 1.8   | 316.672    |
| Mn 257.610 | 8.9035      | ppb   | 0.0286  | 0.3   | 2042.58    |
| Mo 202.032 | 0.2291      | ppb   | 0.3018  | 131.7 | 11.7918    |
| Na 330.237 | -19.4057    | ppb   | 83.5390 | 430.5 | 45.7803    |
| Ni 231.604 | 32.1510     | ppb   | 0.7939  | 2.5   | 81.2847    |
| Pb 220.353 | 10.3849     | ppb   | 0.5248  | 5.1   | 42.6663    |
| Sb 206.834 | -2.3796     | ppb   | 4.0873  | 171.8 | -1.4859    |
| Se 196.026 | -5.8343     | ppb   | 2.4836  | 42.6  | 3.6464     |
| Sn 189.925 | 12.3525     | ppb   | 1.4128  | 11.4  | -4.2608    |
| Sr 216.596 | 51.2589     | ppb   | 0.3451  | 0.7   | 557.539    |
| Ti 334.941 | 144.687     | ppb   | 0.1796  | 0.1   | 37557.7    |
| Tl 190.794 | 4.3243      | ppb   | 1.6095  | 37.2  | -7.8129    |
| V 292.401  | 18.3173     | ppb   | 0.2422  | 1.3   | 429.507    |
| Zn 206.200 | 5.6786      | ppb   | 0.8568  | 15.1  | 512.2908   |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90751-a-1-a (Samp) 5/31/2013, 2:00:44 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |          |
|------------|--------------------------|-----------|----------|
| Ag 328.068 | -1.9888u                 | -1.9267u  | -2.2577u |
| Al 308.215 | 78118.9                  | 78805.3   | 79039.2  |
| As 188.980 | 215.187                  | 210.714   | 205.871  |
| B 249.678  | 22.1880                  | 22.4593   | 23.2630  |
| Ba 389.178 | 404.978                  | 407.434   | 410.744  |
| Be 313.042 | 2.3805                   | 2.4168    | 2.4137   |
| Ca 370.602 | 12136                    | 12180     | 12215    |
| Cd 226.502 | -0.3265                  | -0.6804   | -0.5838  |
| Co 228.615 | 24.1960                  | 23.8650   | 23.4750  |
| Cr 267.716 | 254.850                  | 256.767   | 257.568  |
| Cu 324.754 | 188.663                  | 187.056   | 189.451  |
| Fe 271.441 | 121789                   | 122399    | 123041   |
| K 766.491  | 2821.22                  | 2833.24   | 2850.69  |
| Mg 279.078 | 4719.75                  | 4767.00   | 4773.56  |
| Mn 257.610 | 1534.45                  | 1544.15   | 1550.62  |
| Mo 202.032 | 6.1097                   | 5.9726    | 6.5271   |
| Na 330.237 | 105.456u                 | 251.748u  | 295.366u |
| Ni 231.604 | 46.1700                  | 48.4838   | 47.9332  |
| Pb 220.353 | 155.286                  | 157.263   | 162.152  |
| Sb 206.834 | 1.6967                   | 8.3214    | -3.8349  |
| Se 196.026 | -3.4014u                 | -10.2368u | -1.5908u |
| Sn 189.925 | 19.9212                  | 19.4643   | 16.4207  |
| Sr 216.596 | 81.4625                  | 82.0368   | 82.8041  |
| Ti 334.941 | 1082.38                  | 1090.81   | 1094.99  |
| Tl 190.794 | 2.0411u                  | -3.3775u  | 2.5178u  |
| V 292.401  | 200.093                  | 201.547   | 202.846  |
| Zn 206.200 | 649.667                  | 649.871   | 658.879  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -2.0578     | ppb   | 0.1759  | 8.6   | -158.555   |
| Al 308.215 | 78654.4     | ppb   | 478.358 | 0.6   | 486123     |
| As 188.980 | 210.591     | ppb   | 4.6590  | 2.2   | 99.5675    |
| B 249.678  | 22.6368     | ppb   | 0.5591  | 2.5   | 184.069    |
| Ba 389.178 | 407.719     | ppb   | 2.8933  | 0.7   | 7761.73    |
| Be 313.042 | 2.4036      | ppb   | 0.0201  | 0.8   | 4019.02    |
| Ca 370.602 | 12177       | ppb   | 39.25   | 0.3   | 18293      |
| Cd 226.502 | -0.5302     | ppb   | 0.1829  | 34.5  | 294.290    |
| Co 228.615 | 23.8453     | ppb   | 0.3609  | 1.5   | 310.123    |
| Cr 267.716 | 256.395     | ppb   | 1.3965  | 0.5   | 11898.0    |
| Cu 324.754 | 188.390     | ppb   | 1.2202  | 0.6   | 10646.2    |
| Fe 271.441 | 122410      | ppb   | 625.821 | 0.5   | 192183     |
| K 766.491  | 2835.05     | ppb   | 14.8186 | 0.5   | 95834.7    |
| Mg 279.078 | 4753.43     | ppb   | 29.3566 | 0.6   | 10125.8    |
| Mn 257.610 | 1543.08     | ppb   | 8.1377  | 0.5   | 346073     |
| Mo 202.032 | 6.2031      | ppb   | 0.2888  | 4.7   | 46.5240    |
| Na 330.237 | 217.523     | ppb   | 99.4735 | 45.7  | 13.2221    |
| Ni 231.604 | 47.5290     | ppb   | 1.2087  | 2.5   | 124.041    |
| Pb 220.353 | 158.234     | ppb   | 3.5345  | 2.2   | 267.890    |
| Sb 206.834 | 2.0611      | ppb   | 6.0863  | 295.3 | 7.5397     |
| Se 196.026 | -5.0763     | ppb   | 4.5599  | 89.8  | 2.9207     |
| Sn 189.925 | 18.6021     | ppb   | 1.9029  | 10.2  | 0.9538     |
| Sr 216.596 | 82.1011     | ppb   | 0.6731  | 0.8   | 982.286    |
| Ti 334.941 | 1089.39     | ppb   | 6.4263  | 0.6   | 283191     |
| Tl 190.794 | 0.3938      | ppb   | 3.2747  | 831.5 | -13.6298   |
| V 292.401  | 201.495     | ppb   | 1.3775  | 0.7   | 4896.95    |
| Zn 206.200 | 652.806     | ppb   | 5.2695  | 0.8   | 845.993    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90708-a-1-a (Samp) 5/31/2013, 2:05:21 AM Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |          |
|------------|--------------------------|---------|----------|
| Ag 328.068 | 5.9608                   | 5.9379  | 6.3151   |
| Al 308.215 | 16970.3                  | 16785.6 | 17197.1  |
| As 188.980 | 12.1742                  | 7.9852  | 10.5667  |
| B 249.678  | 46.7339                  | 45.2851 | 47.0058  |
| Ba 389.178 | 629.426                  | 619.415 | 634.669  |
| Be 313.042 | 0.4368                   | 0.4191  | 0.4516   |
| Ca 370.602 | 12610                    | 12431   | 12755    |
| Cd 226.502 | 76.0828                  | 75.5416 | 77.7392  |
| Co 228.615 | 5.2855                   | 5.7274  | 6.2839   |
| Cr 267.716 | 164.983                  | 163.439 | 166.631  |
| Cu 324.754 | 186.140                  | 182.174 | 186.129  |
| Fe 271.441 | 20386.6                  | 20169.8 | 20641.6  |
| K 766.491  | 3921.99                  | 3880.67 | 3951.03  |
| Mg 279.078 | 2915.04                  | 2886.30 | 2954.83  |
| Mn 257.610 | 8941.96                  | 8832.87 | 9046.93  |
| Mo 202.032 | 37.1457                  | 36.6616 | 38.0362  |
| Na 330.237 | 2144.59                  | 2301.18 | 2274.67  |
| Ni 231.604 | 33.2073                  | 31.3678 | 33.6229  |
| Pb 220.353 | 19.9801                  | 24.7642 | 23.8795  |
| Sb 206.834 | -0.1727                  | -0.2238 | -1.6273u |
| Se 196.026 | 12.7549                  | 4.3323  | 4.7003   |
| Sn 189.925 | 27.4067                  | 28.1074 | 29.0525  |
| Sr 216.596 | 113.685                  | 112.320 | 114.560  |
| Ti 334.941 | 1691.62                  | 1676.87 | 1717.83  |
| Tl 190.794 | 21.3232                  | 8.2806  | 16.9753  |
| V 292.401  | 26.1534                  | 25.7255 | 26.3433  |
| Zn 206.200 | 339.208                  | 333.664 | 345.981  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 6.0713      | ppb   | 0.2114  | 3.5   | 462.129    |
| Al 308.215 | 16984.3     | ppb   | 206.089 | 1.2   | 105119     |
| As 188.980 | 10.2420     | ppb   | 2.1133  | 20.6  | -1.5687    |
| B 249.678  | 46.3416     | ppb   | 0.9250  | 2.0   | 700.803    |
| Ba 389.178 | 627.837     | ppb   | 7.7506  | 1.2   | 11756.8    |
| Be 313.042 | 0.4358      | ppb   | 0.0163  | 3.7   | 516.069    |
| Ca 370.602 | 12599       | ppb   | 162.0   | 1.3   | 24485      |
| Cd 226.502 | 76.4545     | ppb   | 1.1449  | 1.5   | 2588.97    |
| Co 228.615 | 5.7656      | ppb   | 0.5003  | 8.7   | 110.893    |
| Cr 267.716 | 165.018     | ppb   | 1.5965  | 1.0   | 7681.73    |
| Cu 324.754 | 184.814     | ppb   | 2.2863  | 1.2   | 10417.8    |
| Fe 271.441 | 20399.3     | ppb   | 236.165 | 1.2   | 32041.8    |
| K 766.491  | 3917.89     | ppb   | 35.3551 | 0.9   | 132341     |
| Mg 279.078 | 2918.72     | ppb   | 34.4139 | 1.2   | 6101.27    |
| Mn 257.610 | 8940.58     | ppb   | 107.034 | 1.2   | 2002978    |
| Mo 202.032 | 37.2812     | ppb   | 0.6972  | 1.9   | 262.337    |
| Na 330.237 | 2240.15     | ppb   | 83.8122 | 3.7   | 138.270    |
| Ni 231.604 | 32.7326     | ppb   | 1.2001  | 3.7   | 83.0931    |
| Pb 220.353 | 22.8746     | ppb   | 2.5455  | 11.1  | 62.8694    |
| Sb 206.834 | -0.6746     | ppb   | 0.8255  | 122.4 | 1.3661     |
| Se 196.026 | 7.2625      | ppb   | 4.7601  | 65.5  | 11.5616    |
| Sn 189.925 | 28.1889     | ppb   | 0.8259  | 2.9   | 8.9545     |
| Sr 216.596 | 113.522     | ppb   | 1.1290  | 1.0   | 1223.63    |
| Ti 334.941 | 1695.44     | ppb   | 20.7433 | 1.2   | 440726     |
| Tl 190.794 | 15.5263     | ppb   | 6.6409  | 42.8  | -4.8219    |
| V 292.401  | 26.0741     | ppb   | 0.3164  | 1.2   | 627.621    |
| Zn 206.200 | 339.618     | ppb   | 6.1685  | 1.8   | 442.018    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90692-d-1-a (Samp) 5/31/2013, 2:09:58 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.1068u                 | -0.2260u | -0.0951u |
| Al 308.215 | 56.9150                  | 57.7753  | 58.3115  |
| As 188.980 | 5.7330                   | -1.0420u | -4.7031u |
| B 249.678  | 5.8199                   | 5.3339   | 5.2972   |
| Ba 389.178 | 1.2390                   | 1.7206   | 2.1906   |
| Be 313.042 | 0.0190                   | 0.0109   | 0.0152   |
| Ca 370.602 | 196.0u                   | 203.1u   | 195.3u   |
| Cd 226.502 | 0.1816                   | 0.0955   | -0.1442  |
| Co 228.615 | 0.3668                   | 0.6517   | -0.1213u |
| Cr 267.716 | 1.9394                   | 1.7613   | 2.2054   |
| Cu 324.754 | 21.3217                  | 21.2914  | 21.2594  |
| Fe 271.441 | 17533.4                  | 17554.9  | 17629.6  |
| K 766.491  | 187.360                  | 186.818  | 188.124  |
| Mg 279.078 | 31.7421                  | 31.8183  | 31.6021  |
| Mn 257.610 | 63.1858                  | 63.1587  | 63.4818  |
| Mo 202.032 | 0.2858                   | -0.0128u | 0.1646   |
| Na 330.237 | 127790x                  | 127178x  | 128181x  |
| Ni 231.604 | 2.1020                   | 1.8499   | 2.2371   |
| Pb 220.353 | 0.8026                   | 3.1502   | -2.0641u |
| Sb 206.834 | -2.1442u                 | -0.2974  | -4.2421u |
| Se 196.026 | -0.7753u                 | 0.6229   | -3.4622u |
| Sn 189.925 | 14.4699                  | 13.2209  | 13.8325  |
| Sr 216.596 | 0.0760                   | 0.8852   | 0.4182   |
| Ti 334.941 | 3.4832                   | 3.3923   | 3.3555   |
| Tl 190.794 | -10.1444u                | -9.3331u | -8.3726u |
| V 292.401  | 0.3985                   | 0.4764   | 0.6075   |
| Zn 206.200 | 53.8058                  | 54.4103  | 56.9890  |

| Label      | Sol'n Conc. | Units | SD      | %RSD     | Int. (c/s) |
|------------|-------------|-------|---------|----------|------------|
| Ag 328.068 | -0.1426b    | ppb   | 0.0724  | 50.8     | -23.5086   |
| Al 308.215 | 57.6673b    | ppb   | 0.7045  | 1.2      | 538.932    |
| As 188.980 | -0.0041b    | ppb   | 5.2949  | 130735.3 | -6.8615    |
| B 249.678  | 5.4837b     | ppb   | 0.2918  | 5.3      | 149.350    |
| Ba 389.178 | 1.7167b     | ppb   | 0.4758  | 27.7     | 39.2752    |
| Be 313.042 | 0.0150b     | ppb   | 0.0041  | 27.1     | -242.145   |
| Ca 370.602 | 198.1b      | ppb   | 4.343   | 2.2      | -478.1     |
| Cd 226.502 | 0.0443b     | ppb   | 0.1688  | 381.2    | 59.5732    |
| Co 228.615 | 0.2991b     | ppb   | 0.3909  | 130.7    | 10.4560    |
| Cr 267.716 | 1.9687b     | ppb   | 0.2235  | 11.4     | 104.541    |
| Cu 324.754 | 21.2908b    | ppb   | 0.0311  | 0.1      | 1368.29    |
| Fe 271.441 | 17572.7b    | ppb   | 50.5051 | 0.3      | 27602.8    |
| K 766.491  | 187.434b    | ppb   | 0.6562  | 0.4      | 6574.93    |
| Mg 279.078 | 31.7208b    | ppb   | 0.1097  | 0.3      | 105.098    |
| Mn 257.610 | 63.2754b    | ppb   | 0.1793  | 0.3      | 14251.7    |
| Mo 202.032 | 0.1458b     | ppb   | 0.1502  | 103.0    | 10.7253    |
| Na 330.237 | 127717xb    | ppb   | 505.537 | 0.4      | 6035.85    |
| Ni 231.604 | 2.0630b     | ppb   | 0.1966  | 9.5      | 2.5320     |
| Pb 220.353 | 0.6296b     | ppb   | 2.6114  | 414.8    | 29.1337    |
| Sb 206.834 | -2.2279b    | ppb   | 1.9737  | 88.6     | -1.1904    |
| Se 196.026 | -1.2049b    | ppb   | 2.0762  | 172.3    | 5.6520     |
| Sn 189.925 | 13.8411b    | ppb   | 0.6245  | 4.5      | -2.9748    |
| Sr 216.596 | 0.4598b     | ppb   | 0.4062  | 88.3     | 35.0357    |
| Ti 334.941 | 3.4103b     | ppb   | 0.0657  | 1.9      | 820.944    |
| Tl 190.794 | -9.2834b    | ppb   | 0.8869  | 9.6      | -14.8125   |
| V 292.401  | 0.4942b     | ppb   | 0.1056  | 21.4     | -7.3096    |
| Zn 206.200 | 55.0684b    | ppb   | 1.6996  | 3.1      | 576.0408   |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90713-a-1-a (Samp) 5/31/2013, 2:23:48 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 5.2818                   | 5.2732    | 5.5301    |
| Al 308.215 | 206070                   | 205814    | 205615    |
| As 188.980 | 19.4287                  | 4.0602    | 8.7100    |
| B 249.678  | 105.426                  | 105.361   | 105.727   |
| Ba 389.178 | 10870.8x                 | 10865.4x  | 10832.4x  |
| Be 313.042 | 0.9253                   | 0.9297    | 0.9285    |
| Ca 370.602 | 476417                   | 475540    | 476868    |
| Cd 226.502 | 53.2423                  | 52.9725   | 52.9478   |
| Co 228.615 | 6.3561                   | 6.5209    | 5.8160    |
| Cr 267.716 | 84.2387                  | 84.1519   | 84.1336   |
| Cu 324.754 | 45.6979                  | 45.1349   | 44.9150   |
| Fe 271.441 | 22573.8                  | 22554.9   | 22497.8   |
| K 766.491  | 4741.37                  | 4734.12   | 4726.35   |
| Mg 279.078 | 67765.0                  | 67725.8   | 67506.6   |
| Mn 257.610 | 332.859                  | 332.264   | 331.499   |
| Mo 202.032 | 7.2944                   | 6.8629    | 7.6888    |
| Na 330.237 | -3437.32u                | -3231.40u | -2938.17u |
| Ni 231.604 | 42.8609                  | 44.5261   | 42.4951   |
| Pb 220.353 | 101.804                  | 101.094   | 94.0597   |
| Sb 206.834 | 9.4287                   | 13.6407   | 8.3081    |
| Se 196.026 | -6.5470u                 | -10.1578u | -1.1489u  |
| Sn 189.925 | 138.545                  | 136.861   | 142.000   |
| Sr 216.596 | 397.555                  | 396.545   | 396.862   |
| Ti 334.941 | 7361.38                  | 7351.99   | 7352.91   |
| Tl 190.794 | 5.0965                   | 6.9717    | 4.7994    |
| V 292.401  | 131.543                  | 130.869   | 131.105   |
| Zn 206.200 | 64825.4x                 | 64826.5x  | 64527.7x  |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 5.3617b     | ppb   | 0.1459  | 2.7  | 359.875    |
| Al 308.215 | 205833b     | ppb   | 227.864 | 0.1  | 1271923    |
| As 188.980 | 10.7330b    | ppb   | 7.8815  | 73.4 | 0.1736     |
| B 249.678  | 105.505b    | ppb   | 0.1955  | 0.2  | 1502.97    |
| Ba 389.178 | 10856.2xb   | ppb   | 20.7746 | 0.2  | 203162     |
| Be 313.042 | 0.9278b     | ppb   | 0.0023  | 0.2  | 1564.05    |
| Ca 370.602 | 476275b     | ppb   | 675.1   | 0.1  | 937820     |
| Cd 226.502 | 53.0542b    | ppb   | 0.1634  | 0.3  | 1822.59    |
| Co 228.615 | 6.2310b     | ppb   | 0.3687  | 5.9  | 243.584    |
| Cr 267.716 | 84.1747b    | ppb   | 0.0562  | 0.1  | 3918.41    |
| Cu 324.754 | 45.2493b    | ppb   | 0.4038  | 0.9  | 2694.27    |
| Fe 271.441 | 22542.2b    | ppb   | 39.5794 | 0.2  | 35407.5    |
| K 766.491  | 4733.95b    | ppb   | 7.5144  | 0.2  | 159853     |
| Mg 279.078 | 67665.8b    | ppb   | 139.279 | 0.2  | 143981     |
| Mn 257.610 | 332.207b    | ppb   | 0.6819  | 0.2  | 75050.9    |
| Mo 202.032 | 7.2820b     | ppb   | 0.4131  | 5.7  | 58.6396    |
| Na 330.237 | -3202.30b   | ppb   | 250.841 | 7.8  | -1005.81   |
| Ni 231.604 | 43.2940b    | ppb   | 1.0826  | 2.5  | 110.970    |
| Pb 220.353 | 98.9859b    | ppb   | 4.2809  | 4.3  | 168.474    |
| Sb 206.834 | 10.4592b    | ppb   | 2.8117  | 26.9 | 12.0655    |
| Se 196.026 | -5.9512b    | ppb   | 4.5339  | 76.2 | 3.4655     |
| Sn 189.925 | 139.135b    | ppb   | 2.6200  | 1.9  | 101.694    |
| Sr 216.596 | 396.987b    | ppb   | 0.5166  | 0.1  | 4245.68    |
| Ti 334.941 | 7355.43b    | ppb   | 5.1759  | 0.1  | 1912454    |
| Tl 190.794 | 5.6226b     | ppb   | 1.1778  | 20.9 | -7.7111    |
| V 292.401  | 131.172b    | ppb   | 0.3423  | 0.3  | 3277.59    |
| Zn 206.200 | 64726.5xb   | ppb   | 172.171 | 0.3  | 83366.3    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90713-a-2-a (Samp) 5/31/2013, 2:28:25 AM Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | 1.8991                   | 1.8768   | 1.8060   |
| Al 308.215 | 214928                   | 214683   | 214663   |
| As 188.980 | 7.1622                   | 0.8442   | 12.3274  |
| B 249.678  | 143.321                  | 143.463  | 142.584  |
| Ba 389.178 | 21684.5x                 | 21675.6x | 21667.6x |
| Be 313.042 | 1.0743                   | 1.0796   | 1.0810   |
| Ca 370.602 | 814276x                  | 813541x  | 820057x  |
| Cd 226.502 | 52.6909                  | 52.2348  | 52.2742  |
| Co 228.615 | 643.752                  | 639.649  | 644.943  |
| Cr 267.716 | 223.343                  | 223.243  | 222.286  |
| Cu 324.754 | 141.286                  | 141.334  | 141.267  |
| Fe 271.441 | 149067                   | 149259   | 148731   |
| K 766.491  | 9336.05                  | 9313.59  | 9346.09  |
| Mg 279.078 | 57024.1                  | 57146.8  | 57060.7  |
| Mn 257.610 | 840.536                  | 841.655  | 840.597  |
| Mo 202.032 | 6.9248                   | 5.7807   | 6.3248   |
| Na 330.237 | 359.239u                 | 314.611u | 280.842u |
| Ni 231.604 | 49.1507                  | 47.4676  | 47.8972  |
| Pb 220.353 | 1285.43                  | 1283.29  | 1282.50  |
| Sb 206.834 | 2.8707                   | 11.1875  | 10.0473  |
| Se 196.026 | -1.4271u                 | 4.2809   | -8.4399u |
| Sn 189.925 | 152.427                  | 149.652  | 145.039  |
| Sr 216.596 | 876.557                  | 879.264  | 877.807  |
| Ti 334.941 | 8373.67                  | 8316.31  | 8263.91  |
| Tl 190.794 | -1.1054u                 | 2.2158u  | 3.4706u  |
| V 292.401  | 129.211                  | 130.062  | 129.757  |
| Zn 206.200 | 42291.9x                 | 42461.8x | 42374.8x |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 1.8606b     | ppb   | 0.0486  | 2.6   | 85.7864    |
| Al 308.215 | 214758b     | ppb   | 147.371 | 0.1   | 1327040    |
| As 188.980 | 6.7779b     | ppb   | 5.7513  | 84.9  | -2.7689    |
| B 249.678  | 143.123b    | ppb   | 0.4719  | 0.3   | 1775.40    |
| Ba 389.178 | 21675.9xb   | ppb   | 8.4497  | 0.0   | 405609     |
| Be 313.042 | 1.0783b     | ppb   | 0.0035  | 0.3   | 1937.14    |
| Ca 370.602 | 815958xb    | ppb   | 3569    | 0.4   | 1599814    |
| Cd 226.502 | 52.4000b    | ppb   | 0.2527  | 0.5   | 2106.23    |
| Co 228.615 | 642.781b    | ppb   | 2.7771  | 0.4   | 7598.63    |
| Cr 267.716 | 222.957b    | ppb   | 0.5839  | 0.3   | 10369.0    |
| Cu 324.754 | 141.296b    | ppb   | 0.0345  | 0.0   | 8049.96    |
| Fe 271.441 | 149019b     | ppb   | 267.498 | 0.2   | 234029     |
| K 766.491  | 9331.91b    | ppb   | 16.6401 | 0.2   | 314865     |
| Mg 279.078 | 57077.2b    | ppb   | 62.9712 | 0.1   | 121458     |
| Mn 257.610 | 840.929b    | ppb   | 0.6289  | 0.1   | 189271     |
| Mo 202.032 | 6.3434b     | ppb   | 0.5723  | 9.0   | 46.3433    |
| Na 330.237 | 318.232b    | ppb   | 39.3239 | 12.4  | -576.736   |
| Ni 231.604 | 48.1718b    | ppb   | 0.8745  | 1.8   | 125.045    |
| Pb 220.353 | 1283.74b    | ppb   | 1.5128  | 0.1   | 1932.26    |
| Sb 206.834 | 8.0352b     | ppb   | 4.5087  | 56.1  | 13.7447    |
| Se 196.026 | -1.8620b    | ppb   | 6.3716  | 342.2 | 3.9106     |
| Sn 189.925 | 149.039b    | ppb   | 3.7317  | 2.5   | 110.099    |
| Sr 216.596 | 877.876b    | ppb   | 1.3550  | 0.2   | 9433.14    |
| Ti 334.941 | 8317.96b    | ppb   | 54.9010 | 0.7   | 2162657    |
| Tl 190.794 | 1.5270b     | ppb   | 2.3645  | 154.8 | -12.8684   |
| V 292.401  | 129.677b    | ppb   | 0.4309  | 0.3   | 3248.14    |
| Zn 206.200 | 42376.2xb   | ppb   | 84.9577 | 0.2   | 54581.9    |

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680-90713-a-3-a (Samp) 5/31/2013, 2:33:02 AM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 3.2045                   | 2.8102    | 3.2784    |
| Al 308.215 | 58908.0                  | 58910.6   | 58945.2   |
| As 188.980 | 16.8305                  | 10.1996   | 19.6941   |
| B 249.678  | 83.4654                  | 84.3816   | 84.4075   |
| Ba 389.178 | 3447.79                  | 3446.22   | 3442.56   |
| Be 313.042 | 0.2070                   | 0.1903    | 0.2081    |
| Ca 370.602 | 934511x                  | 933127x   | 928469x   |
| Cd 226.502 | 59.1371                  | 58.5711   | 58.4087   |
| Co 228.615 | 246.280                  | 245.042   | 245.944   |
| Cr 267.716 | 80.4496                  | 80.0339   | 80.1080   |
| Cu 324.754 | 214.333                  | 214.915   | 215.124   |
| Fe 271.441 | 22373.8                  | 22329.0   | 22321.4   |
| K 766.491  | 15776.0                  | 15797.0   | 15763.3   |
| Mg 279.078 | 63291.7                  | 63134.4   | 63152.8   |
| Mn 257.610 | 256.936                  | 256.394   | 256.396   |
| Mo 202.032 | 6.8336                   | 6.9882    | 7.5857    |
| Na 330.237 | -7194.35u                | -7761.46u | -7211.45u |
| Ni 231.604 | 20.8699                  | 20.4541   | 21.3576   |
| Pb 220.353 | 312.430                  | 304.874   | 311.299   |
| Sb 206.834 | 3.6186                   | 17.4829   | 20.3457   |
| Se 196.026 | -0.5449u                 | -6.5438u  | -4.7281u  |
| Sn 189.925 | 176.485                  | 174.886   | 170.510   |
| Sr 216.596 | 907.168                  | 907.087   | 905.807   |
| Ti 334.941 | 9376.61                  | 9404.90   | 9362.31   |
| Tl 190.794 | -5.1158u                 | 1.5868    | 9.7471    |
| V 292.401  | 79.0773                  | 78.9208   | 78.8622   |
| Zn 206.200 | 149081x                  | 148425x   | 148469x   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 3.0977b     | ppb   | 0.2517  | 8.1   | 171.195    |
| Al 308.215 | 58921.3b    | ppb   | 20.7803 | 0.0   | 364209     |
| As 188.980 | 15.5747b    | ppb   | 4.8702  | 31.3  | 1.4564     |
| B 249.678  | 84.0848b    | ppb   | 0.5366  | 0.6   | 1211.44    |
| Ba 389.178 | 3445.52b    | ppb   | 2.6833  | 0.1   | 64575.7    |
| Be 313.042 | 0.2018b     | ppb   | 0.0100  | 4.9   | 420.549    |
| Ca 370.602 | 932036xb    | ppb   | 3166    | 0.3   | 1834643    |
| Cd 226.502 | 58.7056b    | ppb   | 0.3824  | 0.7   | 2008.67    |
| Co 228.615 | 245.755b    | ppb   | 0.6405  | 0.3   | 3046.53    |
| Cr 267.716 | 80.1971b    | ppb   | 0.2217  | 0.3   | 3735.40    |
| Cu 324.754 | 214.791b    | ppb   | 0.4099  | 0.2   | 12075.5    |
| Fe 271.441 | 22341.4b    | ppb   | 28.3350 | 0.1   | 35120.9    |
| K 766.491  | 15778.8b    | ppb   | 17.0063 | 0.1   | 532209     |
| Mg 279.078 | 63193.0b    | ppb   | 85.9933 | 0.1   | 134506     |
| Mn 257.610 | 256.576b    | ppb   | 0.3124  | 0.1   | 58078.3    |
| Mo 202.032 | 7.1358b     | ppb   | 0.3972  | 5.6   | 57.7467    |
| Na 330.237 | -7389.09b   | ppb   | 322.596 | 4.4   | -2341.15   |
| Ni 231.604 | 20.8939b    | ppb   | 0.4522  | 2.2   | 51.6770    |
| Pb 220.353 | 309.534b    | ppb   | 4.0751  | 1.3   | 481.918    |
| Sb 206.834 | 13.8157b    | ppb   | 8.9462  | 64.8  | 15.3341    |
| Se 196.026 | -3.9390b    | ppb   | 3.0763  | 78.1  | 4.3781     |
| Sn 189.925 | 173.960b    | ppb   | 3.0927  | 1.8   | 130.934    |
| Sr 216.596 | 906.687b    | ppb   | 0.7632  | 0.1   | 9637.62    |
| Ti 334.941 | 9381.27b    | ppb   | 21.6742 | 0.2   | 2439096    |
| Tl 190.794 | 2.0727b     | ppb   | 7.4433  | 359.1 | -9.0825    |
| V 292.401  | 78.9534b    | ppb   | 0.1112  | 0.1   | 2033.66    |
| Zn 206.200 | 148658xb    | ppb   | 366.757 | 0.2   | 5191462    |



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**680-90713-a-4-a (Samp)**                      **5/31/2013, 2:37:39 AM**                      **Rack 3, Tube 42**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.6461u                 | -0.5592u  | -0.8005u  |
| Al 308.215 | 72247.7                  | 72756.8   | 73261.3   |
| As 188.980 | 12.4157                  | 7.0619    | 10.9101   |
| B 249.678  | 55.3352                  | 55.9155   | 56.7445   |
| Ba 389.178 | 9840.63                  | 9926.01   | 9991.26   |
| Be 313.042 | 1.2364                   | 1.2378    | 1.2456    |
| Ca 370.602 | 905239x                  | 913778x   | 928670x   |
| Cd 226.502 | 18.6113                  | 18.6886   | 18.8480   |
| Co 228.615 | 176.446                  | 176.288   | 178.479   |
| Cr 267.716 | 187.271                  | 188.291   | 189.485   |
| Cu 324.754 | 1280.99                  | 1296.97   | 1307.18   |
| Fe 271.441 | 42918.9                  | 43176.6   | 43506.8   |
| K 766.491  | 11033.8                  | 11106.5   | 11149.6   |
| Mg 279.078 | 45483.6                  | 45815.0   | 46154.0   |
| Mn 257.610 | 713.561                  | 720.039   | 723.754   |
| Mo 202.032 | 3.4162                   | 3.5152    | 3.8537    |
| Na 330.237 | -999.668u                | -991.820u | -1276.57u |
| Ni 231.604 | 27.1315                  | 26.3738   | 27.1333   |
| Pb 220.353 | 1612.14                  | 1625.46   | 1636.67   |
| Sb 206.834 | 10.6474                  | 2.8852    | 7.2200    |
| Se 196.026 | -7.1420u                 | -1.0890u  | -8.0297u  |
| Sn 189.925 | 98.7065                  | 93.5311   | 90.7613   |
| Sr 216.596 | 1205.13                  | 1213.26   | 1222.27   |
| Ti 334.941 | 9363.93                  | 9373.63   | 9459.31   |
| Tl 190.794 | -6.9030u                 | 4.8601    | 2.8173    |
| V 292.401  | 81.3607                  | 80.4808   | 81.4741   |
| Zn 206.200 | 97664.3x                 | 98614.8x  | 99127.7x  |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.6686b    | ppb   | 0.1222  | 18.3   | -113.197   |
| Al 308.215 | 72755.3b    | ppb   | 506.795 | 0.7    | 449686     |
| As 188.980 | 10.1293b    | ppb   | 2.7610  | 27.3   | -1.3571    |
| B 249.678  | 55.9984b    | ppb   | 0.7083  | 1.3    | 789.086    |
| Ba 389.178 | 9919.30b    | ppb   | 75.5393 | 0.8    | 185620     |
| Be 313.042 | 1.2399b     | ppb   | 0.0050  | 0.4    | 2256.84    |
| Ca 370.602 | 915896xb    | ppb   | 11858   | 1.3    | 1801894    |
| Cd 226.502 | 18.7160b    | ppb   | 0.1207  | 0.6    | 738.915    |
| Co 228.615 | 177.071b    | ppb   | 1.2220  | 0.7    | 2257.36    |
| Cr 267.716 | 188.349b    | ppb   | 1.1081  | 0.6    | 8744.47    |
| Cu 324.754 | 1295.05b    | ppb   | 13.2024 | 1.0    | 71852.7    |
| Fe 271.441 | 43200.8b    | ppb   | 294.680 | 0.7    | 67858.4    |
| K 766.491  | 11096.7b    | ppb   | 58.5236 | 0.5    | 374361     |
| Mg 279.078 | 45817.5b    | ppb   | 335.222 | 0.7    | 97519.9    |
| Mn 257.610 | 719.118b    | ppb   | 5.1587  | 0.7    | 161615     |
| Mo 202.032 | 3.5950b     | ppb   | 0.2295  | 6.4    | 32.7575    |
| Na 330.237 | -1089.35b   | ppb   | 162.185 | 14.9   | -1374.87   |
| Ni 231.604 | 26.8795b    | ppb   | 0.4380  | 1.6    | 67.9243    |
| Pb 220.353 | 1624.75b    | ppb   | 12.2798 | 0.8    | 2433.06    |
| Sb 206.834 | 6.9175b     | ppb   | 3.8899  | 56.2   | 9.9877     |
| Se 196.026 | -5.4203b    | ppb   | 3.7771  | 69.7   | 3.5451     |
| Sn 189.925 | 94.3329b    | ppb   | 4.0328  | 4.3    | 64.5091    |
| Sr 216.596 | 1213.55b    | ppb   | 8.5717  | 0.7    | 12872.5    |
| Ti 334.941 | 9398.96b    | ppb   | 52.4917 | 0.6    | 2443622    |
| Tl 190.794 | 0.2581b     | ppb   | 6.2853  | 2434.9 | -10.8193   |
| V 292.401  | 81.1052b    | ppb   | 0.5437  | 0.7    | 2081.48    |
| Zn 206.200 | 98468.9xb   | ppb   | 742.513 | 0.8    | 5136823    |

680-90713-a-5-a (Samp) 5/31/2013, 2:42:16 AM Rack 3, Tube 43  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 8.1587                   | 7.8788    | 7.8683    |
| Al 308.215 | 41118.9                  | 40861.0   | 40866.3   |
| As 188.980 | 27.9965                  | 42.7096   | 30.1429   |
| B 249.678  | 107.586                  | 107.287   | 107.983   |
| Ba 389.178 | 322.851                  | 322.026   | 321.496   |
| Be 313.042 | 0.1671                   | 0.1661    | 0.1619    |
| Ca 370.602 | 1525400x                 | 1508767x  | 1504857x  |
| Cd 226.502 | 93.7386                  | 93.8071   | 93.7981   |
| Co 228.615 | 1023.40                  | 1006.82   | 1016.84   |
| Cr 267.716 | 962.417                  | 953.639   | 956.645   |
| Cu 324.754 | 381.622                  | 378.500   | 376.654   |
| Fe 271.441 | 49331.0                  | 48885.0   | 49037.9   |
| K 766.491  | 7358.63                  | 7317.30   | 7278.20   |
| Mg 279.078 | 72020.0                  | 71536.5   | 71865.3   |
| Mn 257.610 | 648.008                  | 642.857   | 644.272   |
| Mo 202.032 | 175.005                  | 174.221   | 174.494   |
| Na 330.237 | -10783.6u                | -9278.82u | -9181.04u |
| Ni 231.604 | 60.1864                  | 60.7713   | 58.9595   |
| Pb 220.353 | 167649x                  | 166169x   | 166652x   |
| Sb 206.834 | 70.8528                  | 64.6946   | 69.8701   |
| Se 196.026 | -11.2007u                | -2.6428u  | 3.1632    |
| Sn 189.925 | 276.699                  | 273.959   | 275.452   |
| Sr 216.596 | 1182.69                  | 1169.09   | 1177.52   |
| Ti 334.941 | 15597.4                  | 15351.5   | 15006.0   |
| Tl 190.794 | 5.3595                   | 24.6126   | 10.1960   |
| V 292.401  | 56.3486                  | 55.5958   | 55.7720   |
| Zn 206.200 | 132797x                  | 131707x   | 132611x   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 7.9686b     | ppb   | 0.1647  | 2.1   | 512.905    |
| Al 308.215 | 40948.7b    | ppb   | 147.403 | 0.4   | 253143     |
| As 188.980 | 33.6163b    | ppb   | 7.9478  | 23.6  | 10.1984    |
| B 249.678  | 107.619b    | ppb   | 0.3490  | 0.3   | 1481.24    |
| Ba 389.178 | 322.124b    | ppb   | 0.6825  | 0.2   | 6218.78    |
| Be 313.042 | 0.1650b     | ppb   | 0.0027  | 1.7   | 482.095    |
| Ca 370.602 | 1513008xb   | ppb   | 10908   | 0.7   | 2977647    |
| Cd 226.502 | 93.7813b    | ppb   | 0.0372  | 0.0   | 3233.51    |
| Co 228.615 | 1015.69b    | ppb   | 8.3513  | 0.8   | 12042.8    |
| Cr 267.716 | 957.567b    | ppb   | 4.4612  | 0.5   | 44323.8    |
| Cu 324.754 | 378.925b    | ppb   | 2.5112  | 0.7   | 21171.2    |
| Fe 271.441 | 49084.6b    | ppb   | 226.612 | 0.5   | 77197.0    |
| K 766.491  | 7318.04b    | ppb   | 40.2183 | 0.5   | 246971     |
| Mg 279.078 | 71807.3b    | ppb   | 246.899 | 0.3   | 152843     |
| Mn 257.610 | 645.045b    | ppb   | 2.6611  | 0.4   | 145249     |
| Mo 202.032 | 174.574b    | ppb   | 0.3977  | 0.2   | 1191.81    |
| Na 330.237 | -9747.83b   | ppb   | 898.362 | 9.2   | -2259.59   |
| Ni 231.604 | 59.9724b    | ppb   | 0.9247  | 1.5   | 153.163    |
| Pb 220.353 | 166823xb    | ppb   | 754.738 | 0.5   | 247354     |
| Sb 206.834 | 68.4725b    | ppb   | 3.3084  | 4.8   | 75.2737    |
| Se 196.026 | -3.5601b    | ppb   | 7.2257  | 203.0 | 4.3131     |
| Sn 189.925 | 275.370b    | ppb   | 1.3720  | 0.5   | 215.770    |
| Sr 216.596 | 1176.43b    | ppb   | 6.8677  | 0.6   | 12545.7    |
| Ti 334.941 | 15318.3b    | ppb   | 297.088 | 1.9   | 3982612    |
| Tl 190.794 | 13.3894b    | ppb   | 10.0159 | 74.8  | -3.4267    |
| V 292.401  | 55.9055b    | ppb   | 0.3938  | 0.7   | 1488.41    |
| Zn 206.200 | 132371xb    | ppb   | 583.147 | 0.4   | 5130484    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90713-a-6-a (Samp) 5/31/2013, 2:46:53 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |          |
|------------|--------------------------|---------|----------|
| Ag 328.068 | 3.0976                   | 3.4024  | 3.4226   |
| Al 308.215 | 42069.1                  | 41972.6 | 41984.1  |
| As 188.980 | 1.8107                   | 16.2071 | 10.4035  |
| B 249.678  | 132.439                  | 134.311 | 132.765  |
| Ba 389.178 | 1622.69                  | 1615.07 | 1619.94  |
| Be 313.042 | 0.1437                   | 0.1399  | 0.1414   |
| Ca 370.602 | 917215x                  | 918512x | 919428x  |
| Cd 226.502 | 54.3645                  | 54.0793 | 53.8213  |
| Co 228.615 | 1090.14                  | 1094.67 | 1090.78  |
| Cr 267.716 | 3132.99                  | 3122.68 | 3144.38  |
| Cu 324.754 | 333.236                  | 334.388 | 333.696  |
| Fe 271.441 | 29602.8                  | 29564.8 | 29534.3  |
| K 766.491  | 8086.29                  | 8099.33 | 8139.74  |
| Mg 279.078 | 50832.7                  | 50709.8 | 50694.5  |
| Mn 257.610 | 401.843                  | 400.509 | 400.911  |
| Mo 202.032 | 153.975                  | 156.371 | 155.785  |
| Na 330.237 | 5921.92                  | 5968.43 | 5974.30  |
| Ni 231.604 | 52.2779                  | 52.4824 | 51.3046  |
| Pb 220.353 | 17871.9                  | 17810.5 | 17799.0  |
| Sb 206.834 | 154.165                  | 160.951 | 165.187  |
| Se 196.026 | 3.2519                   | 5.7852  | -3.2272u |
| Sn 189.925 | 85.5448                  | 92.5445 | 90.4972  |
| Sr 216.596 | 755.399                  | 754.658 | 751.433  |
| Ti 334.941 | 12042.7                  | 12089.0 | 12164.5  |
| Tl 190.794 | -3.5639u                 | 2.0499  | 17.2293  |
| V 292.401  | 29.8442                  | 30.1489 | 31.1204  |
| Zn 206.200 | 9139.51                  | 9097.13 | 9070.33  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | 3.3075b     | ppb   | 0.1821  | 5.5   | 193.457    |
| Al 308.215 | 42008.6b    | ppb   | 52.6978 | 0.1   | 259692     |
| As 188.980 | 9.4738b     | ppb   | 7.2431  | 76.5  | -1.8585    |
| B 249.678  | 133.172b    | ppb   | 1.0001  | 0.8   | 1866.51    |
| Ba 389.178 | 1619.23b    | ppb   | 3.8612  | 0.2   | 30407.4    |
| Be 313.042 | 0.1417b     | ppb   | 0.0019  | 1.3   | 274.720    |
| Ca 370.602 | 918385xb    | ppb   | 1112    | 0.1   | 1808351    |
| Cd 226.502 | 54.0883b    | ppb   | 0.2717  | 0.5   | 1873.89    |
| Co 228.615 | 1091.86b    | ppb   | 2.4507  | 0.2   | 12854.6    |
| Cr 267.716 | 3133.35b    | ppb   | 10.8585 | 0.3   | 144924     |
| Cu 324.754 | 333.773b    | ppb   | 0.5798  | 0.2   | 18666.3    |
| Fe 271.441 | 29567.3b    | ppb   | 34.3067 | 0.1   | 46570.4    |
| K 766.491  | 8108.45b    | ppb   | 27.8716 | 0.3   | 273618     |
| Mg 279.078 | 50745.6b    | ppb   | 75.7515 | 0.1   | 108020     |
| Mn 257.610 | 401.088b    | ppb   | 0.6841  | 0.2   | 90372.5    |
| Mo 202.032 | 155.377b    | ppb   | 1.2487  | 0.8   | 1062.62    |
| Na 330.237 | 5954.89b    | ppb   | 28.7003 | 0.5   | 157.268    |
| Ni 231.604 | 52.0216b    | ppb   | 0.6293  | 1.2   | 131.622    |
| Pb 220.353 | 17827.2b    | ppb   | 39.2098 | 0.2   | 26452.6    |
| Sb 206.834 | 160.101b    | ppb   | 5.5598  | 3.5   | 184.073    |
| Se 196.026 | 1.9366b     | ppb   | 4.6479  | 240.0 | 7.0288     |
| Sn 189.925 | 89.5289b    | ppb   | 3.5989  | 4.0   | 60.5084    |
| Sr 216.596 | 753.830b    | ppb   | 2.1087  | 0.3   | 8037.09    |
| Ti 334.941 | 12098.8b    | ppb   | 61.4568 | 0.5   | 3145516    |
| Tl 190.794 | 5.2385b     | ppb   | 10.7571 | 205.3 | -6.6327    |
| V 292.401  | 30.3712b    | ppb   | 0.6665  | 2.2   | 720.103    |
| Zn 206.200 | 9102.32b    | ppb   | 34.8804 | 0.4   | 51718.2    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

mb 680-278504/17-a (Samp) 5/31/2013, 2:51:31 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |          |
|------------|--------------------------|----------|----------|
| Ag 328.068 | -0.2660u                 | -0.1608u | -0.0227u |
| Al 308.215 | 54.3312                  | 54.7977  | 54.6333  |
| As 188.980 | -2.6388u                 | 1.8539   | -3.4972u |
| B 249.678  | 4.9043                   | 4.6314   | 4.6138   |
| Ba 389.178 | 3.9720                   | 2.6936   | 3.8769   |
| Be 313.042 | 0.0076                   | 0.0015   | 0.0028   |
| Ca 370.602 | 319.8                    | 310.4    | 314.2    |
| Cd 226.502 | 0.1055                   | 0.0741   | 0.2555   |
| Co 228.615 | 0.0917                   | 0.0485   | -0.4519u |
| Cr 267.716 | 1.8101                   | 1.5205   | 1.7910   |
| Cu 324.754 | 0.3132                   | 0.3407   | 0.4619   |
| Fe 271.441 | 52.6721                  | 42.1092  | 44.9667  |
| K 766.491  | 18.5169                  | 18.0910  | 18.4197  |
| Mg 279.078 | 23.7264                  | 24.3964  | 25.0700  |
| Mn 257.610 | 0.6351                   | 0.6646   | 0.6324   |
| Mo 202.032 | 0.4553                   | 0.9104   | 0.2108   |
| Na 330.237 | 149.383                  | 77.3787  | 143.499  |
| Ni 231.604 | 1.5549                   | 1.1880   | 1.3650   |
| Pb 220.353 | 4.5583                   | 0.4342   | -1.6633u |
| Sb 206.834 | -7.1937u                 | -1.8436u | -4.1163u |
| Se 196.026 | -4.2726u                 | -3.9349u | 5.7041   |
| Sn 189.925 | 17.2339                  | 20.6372  | 20.8284  |
| Sr 216.596 | 0.2921                   | 0.1759   | 0.7408   |
| Ti 334.941 | 9.0180                   | 7.7963   | 7.2767   |
| Tl 190.794 | 2.6230                   | 0.9353   | 2.5517   |
| V 292.401  | 0.0686                   | 0.2102   | 0.3136   |
| Zn 206.200 | 22.3502                  | 21.4293  | 22.1243  |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.1499     | ppb   | 0.1220  | 81.4  | -24.2191   |
| Al 308.215 | 54.5874     | ppb   | 0.2366  | 0.4   | 520.001    |
| As 188.980 | -1.4274     | ppb   | 2.8739  | 201.3 | -7.4421    |
| B 249.678  | 4.7165      | ppb   | 0.1629  | 3.5   | 172.174    |
| Ba 389.178 | 3.5142      | ppb   | 0.7122  | 20.3  | 52.7913    |
| Be 313.042 | 0.0040      | ppb   | 0.0032  | 80.5  | -247.776   |
| Ca 370.602 | 314.8       | ppb   | 4.736   | 1.5   | 616.4      |
| Cd 226.502 | 0.1450      | ppb   | 0.0970  | 66.9  | 21.2161    |
| Co 228.615 | -0.1039     | ppb   | 0.3021  | 290.8 | 5.3034     |
| Cr 267.716 | 1.7072      | ppb   | 0.1620  | 9.5   | 86.0655    |
| Cu 324.754 | 0.3719      | ppb   | 0.0791  | 21.3  | 205.120    |
| Fe 271.441 | 46.5827     | ppb   | 5.4638  | 11.7  | 90.0322    |
| K 766.491  | 18.3426     | ppb   | 0.2232  | 1.2   | 874.303    |
| Mg 279.078 | 24.3976     | ppb   | 0.6718  | 2.8   | 87.3219    |
| Mn 257.610 | 0.6440      | ppb   | 0.0179  | 2.8   | 175.107    |
| Mo 202.032 | 0.5255      | ppb   | 0.3550  | 67.6  | 14.1222    |
| Na 330.237 | 123.420     | ppb   | 39.9814 | 32.4  | 54.3983    |
| Ni 231.604 | 1.3693      | ppb   | 0.1835  | 13.4  | 0.3481     |
| Pb 220.353 | 1.1097      | ppb   | 3.1654  | 285.2 | 28.7267    |
| Sb 206.834 | -4.3845     | ppb   | 2.6851  | 61.2  | -3.7136    |
| Se 196.026 | -0.8345     | ppb   | 5.6651  | 678.9 | 6.0236     |
| Sn 189.925 | 19.5665     | ppb   | 2.0223  | 10.3  | 1.7569     |
| Sr 216.596 | 0.4030      | ppb   | 0.2983  | 74.0  | 19.3278    |
| Ti 334.941 | 8.0303      | ppb   | 0.8939  | 11.1  | 2029.18    |
| Tl 190.794 | 2.0367      | ppb   | 0.9545  | 46.9  | -8.7388    |
| V 292.401  | 0.1975      | ppb   | 0.1230  | 62.3  | -13.6561   |
| Zn 206.200 | 21.9680     | ppb   | 0.4799  | 2.2   | 33.2559    |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

680-90717-a-1-a (Samp) 5/31/2013, 2:56:08 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | -0.3095u                 | -0.4531u  | -0.8344u  |
| Al 308.215 | 46.6512                  | 44.5725   | 43.8005   |
| As 188.980 | -2.5085u                 | 1.7533    | -4.3555u  |
| B 249.678  | 88.3831                  | 88.5868   | 87.7218   |
| Ba 389.178 | 1.9224                   | 2.7204    | 2.0886    |
| Be 313.042 | 0.0088                   | 0.0133    | 0.0028u   |
| Ca 370.602 | 1559                     | 1579      | 1556      |
| Cd 226.502 | 0.1287                   | -0.0018   | 0.1167    |
| Co 228.615 | 1.2615                   | 0.5097    | 1.2022    |
| Cr 267.716 | 10.1763                  | 10.2420   | 10.1048   |
| Cu 324.754 | 4.0025                   | 4.1141    | 4.4892    |
| Fe 271.441 | 34.6473                  | 40.3759   | 40.7581   |
| K 766.491  | 111531x                  | 112798x   | 111631x   |
| Mg 279.078 | 2651.79                  | 2676.50   | 2663.25   |
| Mn 257.610 | 5.1831                   | 5.2132    | 5.1481    |
| Mo 202.032 | 0.8279                   | 0.9164    | 1.0726    |
| Na 330.237 | 850.227                  | 639.074   | 649.073   |
| Ni 231.604 | 43.7764                  | 43.3470   | 43.3260   |
| Pb 220.353 | -1.1037u                 | 2.8474    | 3.4609    |
| Sb 206.834 | -2.5325u                 | 2.1154    | -3.9791u  |
| Se 196.026 | 9.9117                   | 1.3481    | 4.7384    |
| Sn 189.925 | 46.6959                  | 49.0954   | 51.8701   |
| Sr 216.596 | 0.5210                   | 0.7759    | 0.8698    |
| Ti 334.941 | 5.5162                   | 4.8136    | 4.4855    |
| Tl 190.794 | -45.4975u                | -49.9306u | -48.3799u |
| V 292.401  | 0.6004                   | 1.1068    | 0.9694    |
| Zn 206.200 | 127.648                  | 127.358   | 125.652   |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.5323b    | ppb   | 0.2712  | 51.0  | -52.0061   |
| Al 308.215 | 45.0081b    | ppb   | 1.4744  | 3.3   | 460.674    |
| As 188.980 | -1.7035b    | ppb   | 3.1329  | 183.9 | -7.5820    |
| B 249.678  | 88.2306b    | ppb   | 0.4522  | 0.5   | 1310.57    |
| Ba 389.178 | 2.2438b     | ppb   | 0.4210  | 18.8  | 34.5726    |
| Be 313.042 | 0.0083b     | ppb   | 0.0053  | 63.9  | -245.155   |
| Ca 370.602 | 1565b       | ppb   | 12.21   | 0.8   | 3074       |
| Cd 226.502 | 0.0812b     | ppb   | 0.0722  | 88.9  | 19.1052    |
| Co 228.615 | 0.9911b     | ppb   | 0.4180  | 42.2  | 17.9164    |
| Cr 267.716 | 10.1744b    | ppb   | 0.0686  | 0.7   | 477.604    |
| Cu 324.754 | 4.2019b     | ppb   | 0.2550  | 6.1   | 417.035    |
| Fe 271.441 | 38.5938b    | ppb   | 3.4231  | 8.9   | 77.6409    |
| K 766.491  | 111987xb    | ppb   | 704.744 | 0.6   | 3775691    |
| Mg 279.078 | 2663.84b    | ppb   | 12.3635 | 0.5   | 5704.57    |
| Mn 257.610 | 5.1814b     | ppb   | 0.0326  | 0.6   | 1212.33    |
| Mo 202.032 | 0.9390b     | ppb   | 0.1239  | 13.2  | 16.9250    |
| Na 330.237 | 712.791b    | ppb   | 119.128 | 16.7  | 80.6518    |
| Ni 231.604 | 43.4832b    | ppb   | 0.2542  | 0.6   | 110.903    |
| Pb 220.353 | 1.7349b     | ppb   | 2.4773  | 142.8 | 29.6544    |
| Sb 206.834 | -1.4654b    | ppb   | 3.1843  | 217.3 | -0.7675    |
| Se 196.026 | 5.3327b     | ppb   | 4.3126  | 80.9  | 8.8661     |
| Sn 189.925 | 49.2204b    | ppb   | 2.5894  | 5.3   | 26.4931    |
| Sr 216.596 | 0.7223b     | ppb   | 0.1805  | 25.0  | 22.0885    |
| Ti 334.941 | 4.9384b     | ppb   | 0.5265  | 10.7  | 1236.34    |
| Tl 190.794 | -47.9360b   | ppb   | 2.2496  | 4.7   | -33.0714   |
| V 292.401  | 0.8922b     | ppb   | 0.2619  | 29.3  | 2.8073     |
| Zn 206.200 | 126.886b    | ppb   | 1.0781  | 0.8   | 168.353    |

E05302013.wvq. All Data Report 5/31/2013, 10:17:39 AM

**700-76710-a-1-a (Samp)**                      **5/31/2013, 3:00:45 AM**                      **Rack 3, Tube 47**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.2070                   | -0.5692u  | 0.0646    |
| Al 308.215 | 79.8968                  | 79.3904   | 76.7268   |
| As 188.980 | -1.6658u                 | 5.6672    | -5.3938u  |
| B 249.678  | 2.8576                   | 3.2005    | 3.6143    |
| Ba 389.178 | 2.3128                   | 2.5927    | 1.8083    |
| Be 313.042 | -0.0002u                 | 0.0039    | 0.0126    |
| Ca 370.602 | 488.2                    | 485.8     | 484.2     |
| Cd 226.502 | 0.0130                   | 0.1972    | 0.2280    |
| Co 228.615 | -0.0658u                 | 0.0132    | -0.0276u  |
| Cr 267.716 | 1.0523                   | 0.8621    | 1.1205    |
| Cu 324.754 | 0.8047                   | 0.9176    | 0.7490    |
| Fe 271.441 | 34.4256                  | 43.2592   | 47.8814   |
| K 766.491  | 24.9634                  | 23.0884   | 22.2482   |
| Mg 279.078 | 41.2737                  | 37.3219   | 37.1576   |
| Mn 257.610 | 1.0987                   | 1.1365    | 1.0603    |
| Mo 202.032 | 0.2325                   | -0.0098u  | 0.3809    |
| Na 330.237 | 428.090                  | 410.656   | 433.701   |
| Ni 231.604 | 2.4216                   | 0.6117    | -0.4914u  |
| Pb 220.353 | 17.2235                  | 13.6720   | 15.6287   |
| Sb 206.834 | 0.1949                   | 0.9218    | -3.1484u  |
| Se 196.026 | 2.0582                   | 0.0250    | -3.1616u  |
| Sn 189.925 | 23.9611                  | 29.6664   | 24.4482   |
| Sr 216.596 | 1.0936                   | 0.0484    | 0.7985    |
| Ti 334.941 | 12.3129                  | 12.1741   | 12.1314   |
| Tl 190.794 | -15.2965u                | -14.6854u | -13.8705u |
| V 292.401  | 0.2248                   | 0.0645    | 0.2065    |
| Zn 206.200 | 58.4295                  | 56.8298   | 55.8681   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0992     | ppb   | 0.4132  | 416.6  | -20.5549   |
| Al 308.215 | 78.6713     | ppb   | 1.7029  | 2.2    | 668.789    |
| As 188.980 | -0.4641     | ppb   | 5.6276  | 1212.5 | -6.9540    |
| B 249.678  | 3.2241      | ppb   | 0.3789  | 11.8   | 151.847    |
| Ba 389.178 | 2.2379      | ppb   | 0.3975  | 17.8   | 28.9475    |
| Be 313.042 | 0.0054      | ppb   | 0.0065  | 120.4  | -245.078   |
| Ca 370.602 | 486.1       | ppb   | 2.028   | 0.4    | 954.9      |
| Cd 226.502 | 0.1461      | ppb   | 0.1163  | 79.6   | 21.2346    |
| Co 228.615 | -0.0267     | ppb   | 0.0395  | 147.8  | 6.2877     |
| Cr 267.716 | 1.0116      | ppb   | 0.1339  | 13.2   | 53.9174    |
| Cu 324.754 | 0.8238      | ppb   | 0.0859  | 10.4   | 230.108    |
| Fe 271.441 | 41.8554     | ppb   | 6.8368  | 16.3   | 82.6216    |
| K 766.491  | 23.4333     | ppb   | 1.3901  | 5.9    | 1045.93    |
| Mg 279.078 | 38.5844     | ppb   | 2.3304  | 6.0    | 117.499    |
| Mn 257.610 | 1.0985      | ppb   | 0.0381  | 3.5    | 277.014    |
| Mo 202.032 | 0.2012      | ppb   | 0.1972  | 98.0   | 11.9235    |
| Na 330.237 | 424.149     | ppb   | 12.0172 | 2.8    | 68.0238    |
| Ni 231.604 | 0.8473      | ppb   | 1.4707  | 173.6  | -1.0226    |
| Pb 220.353 | 15.5081     | ppb   | 1.7788  | 11.5   | 50.0714    |
| Sb 206.834 | -0.6772     | ppb   | 2.1707  | 320.5  | -0.0654    |
| Se 196.026 | -0.3595     | ppb   | 2.6310  | 732.0  | 6.2426     |
| Sn 189.925 | 26.0252     | ppb   | 3.1628  | 12.2   | 7.1446     |
| Sr 216.596 | 0.6468      | ppb   | 0.5389  | 83.3   | 21.9131    |
| Ti 334.941 | 12.2061     | ppb   | 0.0949  | 0.8    | 3114.81    |
| Tl 190.794 | -14.6174    | ppb   | 0.7154  | 4.9    | -16.8480   |
| V 292.401  | 0.1653      | ppb   | 0.0878  | 53.1   | -14.3036   |
| Zn 206.200 | 57.0424     | ppb   | 1.2939  | 2.3    | 784.305    |

700-76710-a-2-a (Samp) 5/31/2013, 3:05:22 AM Rack 3, Tube 48  
Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.1729                   | -0.0398u  | 0.0259    |
| Al 308.215 | 77.8818                  | 78.7107   | 75.0312   |
| As 188.980 | -0.9530u                 | 0.1292    | -2.9735u  |
| B 249.678  | 2.4954                   | 2.4561    | 1.7805    |
| Ba 389.178 | 1.0508                   | 1.5597    | 0.6774    |
| Be 313.042 | 0.0044                   | 0.0024    | 0.0082    |
| Ca 370.602 | 447.4                    | 448.4     | 443.8     |
| Cd 226.502 | 0.1902                   | 0.3338    | 0.1650    |
| Co 228.615 | -0.0661u                 | 0.2044    | 0.1757    |
| Cr 267.716 | 1.1538                   | 1.2597    | 1.0187    |
| Cu 324.754 | 1.0944                   | 0.7776    | 0.5444    |
| Fe 271.441 | 45.6311                  | 43.2086   | 47.2151   |
| K 766.491  | 19.5879                  | 19.7588   | 18.8269   |
| Mg 279.078 | 39.7110                  | 38.5921   | 35.9860   |
| Mn 257.610 | 1.2410                   | 1.1981    | 1.1759    |
| Mo 202.032 | -0.4032u                 | -0.3083u  | 0.0656    |
| Na 330.237 | 365.102                  | 180.028   | 112.422   |
| Ni 231.604 | 0.8345                   | 2.1117    | 1.6961    |
| Pb 220.353 | 34.8197                  | 36.1920   | 33.4981   |
| Sb 206.834 | 3.7703                   | -2.5379u  | -3.1165u  |
| Se 196.026 | 7.8222                   | -5.8512u  | -3.3336u  |
| Sn 189.925 | 25.1337                  | 27.4201   | 26.3300   |
| Sr 216.596 | 1.0090                   | 0.0954    | -0.5724u  |
| Ti 334.941 | 11.7555                  | 11.8337   | 11.4460   |
| Tl 190.794 | -25.3248u                | -12.9843u | -16.9600u |
| V 292.401  | 0.1090                   | 0.2593    | 0.2619    |
| Zn 206.200 | 49.2715                  | 49.5431   | 47.8042   |

| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | 0.0530      | ppb   | 0.1089  | 205.4  | -9.4788    |
| Al 308.215 | 77.2079     | ppb   | 1.9301  | 2.5    | 659.717    |
| As 188.980 | -1.2657     | ppb   | 1.5748  | 124.4  | -7.3599    |
| B 249.678  | 2.2440      | ppb   | 0.4019  | 17.9   | 138.484    |
| Ba 389.178 | 1.0959      | ppb   | 0.4429  | 40.4   | 7.5951     |
| Be 313.042 | 0.0050      | ppb   | 0.0029  | 58.9   | -245.828   |
| Ca 370.602 | 446.5       | ppb   | 2.456   | 0.6    | 876.7      |
| Cd 226.502 | 0.2297      | ppb   | 0.0910  | 39.6   | 24.0045    |
| Co 228.615 | 0.1047      | ppb   | 0.1486  | 141.9  | 7.8012     |
| Cr 267.716 | 1.1441      | ppb   | 0.1208  | 10.6   | 60.0408    |
| Cu 324.754 | 0.8055      | ppb   | 0.2760  | 34.3   | 229.084    |
| Fe 271.441 | 45.3516     | ppb   | 2.0179  | 4.4    | 88.1227    |
| K 766.491  | 19.3912     | ppb   | 0.4961  | 2.6    | 909.655    |
| Mg 279.078 | 38.0964     | ppb   | 1.9114  | 5.0    | 116.460    |
| Mn 257.610 | 1.2050      | ppb   | 0.0331  | 2.7    | 300.879    |
| Mo 202.032 | -0.2153     | ppb   | 0.2478  | 115.1  | 9.0993     |
| Na 330.237 | 219.184     | ppb   | 130.811 | 59.7   | 58.5177    |
| Ni 231.604 | 1.5475      | ppb   | 0.6514  | 42.1   | 0.8153     |
| Pb 220.353 | 34.8366     | ppb   | 1.3470  | 3.9    | 78.7289    |
| Sb 206.834 | -0.6281     | ppb   | 3.8200  | 608.2  | -0.0106    |
| Se 196.026 | -0.4542     | ppb   | 7.2773  | 1602.2 | 6.1989     |
| Sn 189.925 | 26.2946     | ppb   | 1.1436  | 4.3    | 7.3692     |
| Sr 216.596 | 0.1774      | ppb   | 0.7939  | 447.6  | 16.9733    |
| Ti 334.941 | 11.6784     | ppb   | 0.2050  | 1.8    | 2977.62    |
| Tl 190.794 | -18.4230    | ppb   | 6.2990  | 34.2   | -18.7010   |
| V 292.401  | 0.2101      | ppb   | 0.0875  | 41.7   | -13.1614   |
| Zn 206.200 | 48.8729     | ppb   | 0.9354  | 1.9    | 67.9085    |

mb 680-278184/24-a (Samp) 5/31/2013, 3:19:13 AM Rack 3, Tube 51

Weight: 1 Volume: 1 Dilution: 1

| Label      | Replicates Concentration |           |           |
|------------|--------------------------|-----------|-----------|
| Ag 328.068 | 0.0811                   | -0.1986u  | -0.6197u  |
| Al 308.215 | 65.4821                  | 64.9523   | 65.5044   |
| As 188.980 | 4.0119                   | -4.3788u  | 3.9514    |
| B 249.678  | 5.2025                   | 5.4496    | 5.3223    |
| Ba 389.178 | 0.9206                   | -0.2492u  | 0.3217    |
| Be 313.042 | 0.0089                   | 0.0045    | -0.0005u  |
| Ca 370.602 | 54.99                    | 60.14     | 62.54     |
| Cd 226.502 | 0.2391                   | -0.0131u  | 0.2690    |
| Co 228.615 | -0.0328u                 | -0.2273u  | -0.6062u  |
| Cr 267.716 | 1.1264                   | 1.3920    | 1.1660    |
| Cu 324.754 | -0.0212u                 | 0.5558    | 0.5819    |
| Fe 271.441 | 112.163                  | 116.251   | 117.451   |
| K 766.491  | 18.5020                  | 19.2977   | 18.6049   |
| Mg 279.078 | 20.1752                  | 17.9644   | 18.2342   |
| Mn 257.610 | 2.5262                   | 2.5683    | 2.5527    |
| Mo 202.032 | 0.4586                   | 0.0508    | 0.4880    |
| Na 330.237 | -80.0985u                | -201.480u | -172.061u |
| Ni 231.604 | 0.6043                   | 0.0809    | 1.7531    |
| Pb 220.353 | -0.2189u                 | 0.3852    | -0.4403u  |
| Sb 206.834 | -1.9725u                 | -1.4357u  | -2.1792u  |
| Se 196.026 | 0.2215                   | 1.0664    | 0.6505    |
| Sn 189.925 | 20.7065                  | 20.9314   | 21.4240   |
| Sr 216.596 | -0.0295u                 | 0.9408    | -0.3145u  |
| Ti 334.941 | 2.2926                   | 2.3539    | 2.4218    |
| Tl 190.794 | -3.0008u                 | -1.3338u  | -2.2681u  |
| V 292.401  | 0.3496                   | 0.5795    | 0.5193    |
| Zn 206.200 | 4.0902                   | 3.7798    | 3.0931    |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2457     | ppb   | 0.3528  | 143.6 | -31.1668   |
| Al 308.215 | 65.3130     | ppb   | 0.3125  | 0.5   | 586.221    |
| As 188.980 | 1.1948      | ppb   | 4.8270  | 404.0 | -6.1147    |
| B 249.678  | 5.3248      | ppb   | 0.1236  | 2.3   | 180.335    |
| Ba 389.178 | 0.3310      | ppb   | 0.5850  | 176.7 | -6.6659    |
| Be 313.042 | 0.0043      | ppb   | 0.0047  | 108.8 | -247.183   |
| Ca 370.602 | 59.22       | ppb   | 3.860   | 6.5   | 108.7      |
| Cd 226.502 | 0.1650      | ppb   | 0.1550  | 93.9  | 22.0385    |
| Co 228.615 | -0.2888     | ppb   | 0.2916  | 101.0 | 3.0535     |
| Cr 267.716 | 1.2281      | ppb   | 0.1433  | 11.7  | 63.9229    |
| Cu 324.754 | 0.3722      | ppb   | 0.3409  | 91.6  | 205.145    |
| Fe 271.441 | 115.288     | ppb   | 2.7722  | 2.4   | 197.865    |
| K 766.491  | 18.8015     | ppb   | 0.4327  | 2.3   | 889.776    |
| Mg 279.078 | 18.7913     | ppb   | 1.2061  | 6.4   | 75.3693    |
| Mn 257.610 | 2.5490      | ppb   | 0.0213  | 0.8   | 602.000    |
| Mo 202.032 | 0.3325      | ppb   | 0.2443  | 73.5  | 12.8095    |
| Na 330.237 | -151.213    | ppb   | 63.3195 | 41.9  | 41.7613    |
| Ni 231.604 | 0.8127      | ppb   | 0.8554  | 105.2 | -1.1113    |
| Pb 220.353 | -0.0913     | ppb   | 0.4273  | 467.8 | 26.9535    |
| Sb 206.834 | -1.8625     | ppb   | 0.3838  | 20.6  | -1.2311    |
| Se 196.026 | 0.6461      | ppb   | 0.4225  | 65.4  | 6.7053     |
| Sn 189.925 | 21.0206     | ppb   | 0.3670  | 1.7   | 2.9697     |
| Sr 216.596 | 0.1989      | ppb   | 0.6581  | 330.8 | 17.2313    |
| Ti 334.941 | 2.3561      | ppb   | 0.0646  | 2.7   | 554.028    |
| Tl 190.794 | -2.2009     | ppb   | 0.8355  | 38.0  | -10.8049   |
| V 292.401  | 0.4828      | ppb   | 0.1192  | 24.7  | -6.7249    |
| Zn 206.200 | 3.6544      | ppb   | 0.5102  | 14.0  | 0.6719     |



E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

190-861-a-1-a (Samp) 5/31/2013, 3:23:50 AM Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.4642u                 | 0.0521   | -0.3872u  |
| Al 308.215 | 49.5116                  | 48.1347  | 49.6652   |
| As 188.980 | -4.7472u                 | -2.1365u | -4.6891u  |
| B 249.678  | 3.3662                   | 3.6104   | 3.2612    |
| Ba 389.178 | 0.9447                   | -0.0334u | -0.1753u  |
| Be 313.042 | 0.0098                   | 0.0054   | 0.0060    |
| Ca 370.602 | 71.13                    | 67.98    | 77.81     |
| Cd 226.502 | 0.0930                   | 0.3749   | 0.0943    |
| Co 228.615 | 0.3574                   | 0.2356   | -0.3714u  |
| Cr 267.716 | 1.2303                   | 1.3106   | 0.9999    |
| Cu 324.754 | 1.6495                   | 1.3305   | 1.4233    |
| Fe 271.441 | 65.9413                  | 68.3131  | 67.1377   |
| K 766.491  | 21.5369                  | 21.8810  | 23.0594   |
| Mg 279.078 | 17.3207                  | 15.2220  | 17.7615   |
| Mn 257.610 | 2.0192                   | 2.0573   | 2.0300    |
| Mo 202.032 | -0.0656u                 | 0.0432   | 0.7882    |
| Na 330.237 | 133.215                  | 180.238  | -34.8927u |
| Ni 231.604 | 1.0739                   | 0.2266   | 1.6808    |
| Pb 220.353 | -0.2359u                 | -1.5617u | -0.5608u  |
| Sb 206.834 | -4.0212u                 | -2.3424u | 1.6740    |
| Se 196.026 | -1.7658u                 | -3.3019u | -3.3291u  |
| Sn 189.925 | 22.9995                  | 24.9337  | 25.9630   |
| Sr 216.596 | 0.2106                   | 0.5347   | 0.1827    |
| Ti 334.941 | 1.9303                   | 1.9325   | 1.9070    |
| Tl 190.794 | -7.0623u                 | -3.9645u | -3.3526u  |
| V 292.401  | 0.1786                   | 0.2752   | 0.1004    |
| Zn 206.200 | 7.2650                   | 5.9196   | 6.1497    |

| Label      | Sol'n Conc. | Units | SD      | %RSD  | Int. (c/s) |
|------------|-------------|-------|---------|-------|------------|
| Ag 328.068 | -0.2664     | ppb   | 0.2785  | 104.5 | -32.6715   |
| Al 308.215 | 49.1038     | ppb   | 0.8428  | 1.7   | 486.105    |
| As 188.980 | -3.8576     | ppb   | 1.4908  | 38.6  | -8.6729    |
| B 249.678  | 3.4126      | ppb   | 0.1791  | 5.2   | 154.366    |
| Ba 389.178 | 0.2453      | ppb   | 0.6098  | 248.5 | -8.3282    |
| Be 313.042 | 0.0071      | ppb   | 0.0024  | 33.7  | -242.299   |
| Ca 370.602 | 72.31       | ppb   | 5.015   | 6.9   | 136.6      |
| Cd 226.502 | 0.1874      | ppb   | 0.1624  | 86.7  | 22.6638    |
| Co 228.615 | 0.0739      | ppb   | 0.3904  | 528.4 | 7.2171     |
| Cr 267.716 | 1.1803      | ppb   | 0.1613  | 13.7  | 61.7009    |
| Cu 324.754 | 1.4678      | ppb   | 0.1641  | 11.2  | 265.751    |
| Fe 271.441 | 67.1307     | ppb   | 1.1859  | 1.8   | 122.306    |
| K 766.491  | 22.1591     | ppb   | 0.7985  | 3.6   | 1002.97    |
| Mg 279.078 | 16.7681     | ppb   | 1.3570  | 8.1   | 71.0678    |
| Mn 257.610 | 2.0355      | ppb   | 0.0197  | 1.0   | 486.811    |
| Mo 202.032 | 0.2553      | ppb   | 0.4647  | 182.0 | 12.2889    |
| Na 330.237 | 92.8533     | ppb   | 113.102 | 121.8 | 53.1891    |
| Ni 231.604 | 0.9938      | ppb   | 0.7304  | 73.5  | -0.6378    |
| Pb 220.353 | -0.7862     | ppb   | 0.6910  | 87.9  | 25.9207    |
| Sb 206.834 | -1.5632     | ppb   | 2.9265  | 187.2 | -0.9364    |
| Se 196.026 | -2.7989     | ppb   | 0.8948  | 32.0  | 5.1186     |
| Sn 189.925 | 24.6321     | ppb   | 1.5046  | 6.1   | 5.9822     |
| Sr 216.596 | 0.3093      | ppb   | 0.1957  | 63.3  | 18.3386    |
| Ti 334.941 | 1.9233      | ppb   | 0.0141  | 0.7   | 441.469    |
| Tl 190.794 | -4.7931     | ppb   | 1.9888  | 41.5  | -12.0652   |
| V 292.401  | 0.1847      | ppb   | 0.0876  | 47.4  | -13.9870   |
| Zn 206.200 | 6.4448      | ppb   | 0.7196  | 11.2  | 513.2653   |

E05302013.vvq. All Data Report 5/31/2013, 10:17:39 AM

CRI (Samp) 5/31/2013, 3:28:27 AM Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 9.7900                   | 10.0919 | 9.9818  |
| Al 308.215 | 202.794                  | 203.591 | 204.743 |
| As 188.980 | 18.1559                  | 18.6659 | 21.9965 |
| B 249.678  | 99.4337                  | 100.255 | 100.685 |
| Ba 389.178 | 10.1974                  | 11.4819 | 10.2221 |
| Be 313.042 | 4.1677                   | 4.1753  | 4.1608  |
| Ca 370.602 | 479.3                    | 491.3   | 482.6   |
| Cd 226.502 | 5.1095                   | 5.0299  | 5.0849  |
| Co 228.615 | 9.6322                   | 10.4662 | 10.1547 |
| Cr 267.716 | 10.1861                  | 10.2642 | 10.0383 |
| Cu 324.754 | 20.7493                  | 20.5920 | 20.8025 |
| Fe 271.441 | 52.9996                  | 58.0738 | 52.8880 |
| K 766.491  | 977.190                  | 976.968 | 975.338 |
| Mg 279.078 | 507.613                  | 505.193 | 506.276 |
| Mn 257.610 | 10.6845                  | 10.7123 | 10.7183 |
| Mo 202.032 | 9.8116                   | 10.0840 | 10.1285 |
| Na 330.237 | 739.891                  | 820.312 | 1049.58 |
| Ni 231.604 | 42.0070                  | 40.3823 | 40.9048 |
| Pb 220.353 | 10.3199                  | 8.8618  | 5.8371  |
| Sb 206.834 | 15.7899                  | 21.1261 | 20.7352 |
| Se 196.026 | 13.3102                  | 15.7898 | 16.1190 |
| Sn 189.925 | 50.1251                  | 48.7760 | 52.1864 |
| Sr 216.596 | 10.0650                  | 10.4268 | 10.2998 |
| Ti 334.941 | 10.1146                  | 10.1506 | 10.0099 |
| Tl 190.794 | 22.3621                  | 19.9742 | 22.4568 |
| V 292.401  | 10.1874                  | 10.0987 | 10.7546 |
| Zn 206.200 | 20.2995                  | 21.5286 | 21.3224 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 9.9545      | ppb   | 0.1528  | 1.5  | 708.970    |
| Al 308.215 | 203.709     | ppb   | 0.9798  | 0.5  | 1439.70    |
| As 188.980 | 19.6061     | ppb   | 2.0858  | 10.6 | 3.2081     |
| B 249.678  | 100.125     | ppb   | 0.6359  | 0.6  | 1472.36    |
| Ba 389.178 | 10.6338     | ppb   | 0.7346  | 6.9  | 186.997    |
| Be 313.042 | 4.1679      | ppb   | 0.0073  | 0.2  | 7154.47    |
| Ca 370.602 | 484.4       | ppb   | 6.222   | 1.3  | 950.6      |
| Cd 226.502 | 5.0747      | ppb   | 0.0407  | 0.8  | 183.932    |
| Co 228.615 | 10.0844     | ppb   | 0.4214  | 4.2  | 122.391    |
| Cr 267.716 | 10.1629     | ppb   | 0.1147  | 1.1  | 476.982    |
| Cu 324.754 | 20.7146     | ppb   | 0.1094  | 0.5  | 1330.86    |
| Fe 271.441 | 54.6538     | ppb   | 2.9624  | 5.4  | 103.999    |
| K 766.491  | 976.499     | ppb   | 1.0114  | 0.1  | 33176.9    |
| Mg 279.078 | 506.361     | ppb   | 1.2123  | 0.2  | 1112.84    |
| Mn 257.610 | 10.7051     | ppb   | 0.0180  | 0.2  | 2432.77    |
| Mo 202.032 | 10.0080     | ppb   | 0.1715  | 1.7  | 78.3988    |
| Na 330.237 | 869.926     | ppb   | 160.693 | 18.5 | 89.4308    |
| Ni 231.604 | 41.0980     | ppb   | 0.8294  | 2.0  | 104.623    |
| Pb 220.353 | 8.3396      | ppb   | 2.2866  | 27.4 | 39.4302    |
| Sb 206.834 | 19.2171     | ppb   | 2.9745  | 15.5 | 19.5100    |
| Se 196.026 | 15.0730     | ppb   | 1.5355  | 10.2 | 13.3546    |
| Sn 189.925 | 50.3625     | ppb   | 1.7175  | 3.4  | 27.4453    |
| Sr 216.596 | 10.2639     | ppb   | 0.1836  | 1.8  | 121.999    |
| Ti 334.941 | 10.0917     | ppb   | 0.0731  | 0.7  | 2567.03    |
| Tl 190.794 | 21.5977     | ppb   | 1.4068  | 6.5  | 0.7987     |
| V 292.401  | 10.3469     | ppb   | 0.3558  | 3.4  | 232.049    |
| Zn 206.200 | 21.0502     | ppb   | 0.6582  | 3.1  | 32.0471    |

**CCV (Samp)** 5/31/2013, 3:33:04 AM **Rack 3, Tube 54**  
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label      | Replicates Concentration |         |         |
|------------|--------------------------|---------|---------|
| Ag 328.068 | 472.857                  | 473.486 | 470.284 |
| Al 308.215 | 4792.74                  | 4790.68 | 4761.23 |
| As 188.980 | 463.479                  | 476.797 | 479.627 |
| B 249.678  | 493.679                  | 494.305 | 496.337 |
| Ba 389.178 | 4636.80                  | 4643.54 | 4624.29 |
| Be 313.042 | 478.977                  | 480.929 | 477.966 |
| Ca 370.602 | 4616                     | 4616    | 4593    |
| Cd 226.502 | 469.037                  | 469.251 | 467.230 |
| Co 228.615 | 477.053                  | 475.631 | 475.952 |
| Cr 267.716 | 4704.82                  | 4712.22 | 4693.38 |
| Cu 324.754 | 4625.29                  | 4757.64 | 4752.46 |
| Fe 271.441 | 4742.88                  | 4759.25 | 4728.37 |
| K 766.491  | 9656.36                  | 9655.78 | 9640.33 |
| Mg 279.078 | 4743.66                  | 4738.51 | 4728.16 |
| Mn 257.610 | 4777.49                  | 4792.11 | 4764.21 |
| Mo 202.032 | 463.522                  | 464.024 | 461.902 |
| Na 330.237 | 6835.17                  | 7128.16 | 6797.83 |
| Ni 231.604 | 2373.43                  | 2375.64 | 2367.02 |
| Pb 220.353 | 463.620                  | 459.336 | 462.007 |
| Sb 206.834 | 916.408                  | 915.056 | 913.830 |
| Se 196.026 | 4780.06                  | 4761.95 | 4780.26 |
| Sn 189.925 | 4668.31                  | 4648.76 | 4700.14 |
| Sr 216.596 | 2333.62                  | 2336.77 | 2327.81 |
| Ti 334.941 | 469.220                  | 469.989 | 467.164 |
| Tl 190.794 | 4782.37                  | 4776.56 | 4727.46 |
| V 292.401  | 4680.88                  | 4689.56 | 4663.16 |
| Zn 206.200 | 2351.19                  | 2347.78 | 2343.41 |

| Label      | Sol'n Conc. | Units | SD      | %RSD | Int. (c/s) |
|------------|-------------|-------|---------|------|------------|
| Ag 328.068 | 472.209     | ppb   | 1.6967  | 0.4  | 34213.5    |
| Al 308.215 | 4781.55     | ppb   | 17.6302 | 0.4  | 28928.3    |
| As 188.980 | 473.301     | ppb   | 8.6231  | 1.8  | 232.855    |
| B 249.678  | 494.774     | ppb   | 1.3895  | 0.3  | 6841.51    |
| Ba 389.178 | 4634.88     | ppb   | 9.7660  | 0.2  | 86682.8    |
| Be 313.042 | 479.291     | ppb   | 1.5063  | 0.3  | 851754     |
| Ca 370.602 | 4608        | ppb   | 13.10   | 0.3  | 9090       |
| Cd 226.502 | 468.506     | ppb   | 1.1105  | 0.2  | 15491.1    |
| Co 228.615 | 476.212     | ppb   | 0.7457  | 0.2  | 5498.72    |
| Cr 267.716 | 4703.47     | ppb   | 9.4897  | 0.2  | 217471     |
| Cu 324.754 | 4711.80     | ppb   | 74.9659 | 1.6  | 260852     |
| Fe 271.441 | 4743.50     | ppb   | 15.4524 | 0.3  | 7559.90    |
| K 766.491  | 9650.82     | ppb   | 9.0928  | 0.1  | 325617     |
| Mg 279.078 | 4736.78     | ppb   | 7.8975  | 0.2  | 10038.5    |
| Mn 257.610 | 4777.94     | ppb   | 13.9553 | 0.3  | 1070435    |
| Mo 202.032 | 463.149     | ppb   | 1.1091  | 0.2  | 3142.41    |
| Na 330.237 | 6920.39     | ppb   | 180.904 | 2.6  | 339.215    |
| Ni 231.604 | 2372.03     | ppb   | 4.4765  | 0.2  | 6222.95    |
| Pb 220.353 | 461.654     | ppb   | 2.1634  | 0.5  | 711.762    |
| Sb 206.834 | 915.098     | ppb   | 1.2897  | 0.1  | 940.995    |
| Se 196.026 | 4774.09     | ppb   | 10.5143 | 0.2  | 2206.90    |
| Sn 189.925 | 4672.40     | ppb   | 25.9349 | 0.6  | 3882.85    |
| Sr 216.596 | 2332.74     | ppb   | 4.5458  | 0.2  | 24441.7    |
| Ti 334.941 | 468.791     | ppb   | 1.4605  | 0.3  | 121835     |
| Tl 190.794 | 4762.13     | ppb   | 30.1632 | 0.6  | 2309.61    |
| V 292.401  | 4677.87     | ppb   | 13.4509 | 0.3  | 113768     |
| Zn 206.200 | 2347.46     | ppb   | 3.8988  | 0.2  | 3013.40    |

**CCB (Samp)** **5/31/2013, 3:37:41 AM** **Rack 3, Tube 55**  
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label      | Replicates Concentration |          |           |
|------------|--------------------------|----------|-----------|
| Ag 328.068 | -0.2952u                 | 0.0595   | 0.0442    |
| Al 308.215 | 2.7019                   | 1.0783   | 2.8631    |
| As 188.980 | 2.8248                   | 1.3447   | -1.7442u  |
| B 249.678  | 10.5569                  | 10.5600  | 9.5659    |
| Ba 389.178 | 0.2005                   | 0.4500   | 0.7227    |
| Be 313.042 | 0.0160                   | 0.0129   | 0.0206    |
| Ca 370.602 | 1.245                    | 5.541    | -0.7275u  |
| Cd 226.502 | -0.1571u                 | 0.1636   | 0.1595    |
| Co 228.615 | -0.1875u                 | -0.4351u | 0.1794    |
| Cr 267.716 | -0.0076u                 | 0.2387   | 0.3022    |
| Cu 324.754 | -0.3000u                 | -0.4587u | -0.0344u  |
| Fe 271.441 | 5.2883                   | 7.1769   | 4.7108    |
| K 766.491  | 0.6939                   | 0.1320   | 0.1501    |
| Mg 279.078 | 2.6370                   | -2.9173u | -4.0582u  |
| Mn 257.610 | 0.1823                   | 0.1275   | 0.1992    |
| Mo 202.032 | 0.8946                   | -0.1774u | 0.3691    |
| Na 330.237 | -323.060u                | 25.1539  | -61.7588u |
| Ni 231.604 | 1.4186                   | 0.2044   | 1.8951    |
| Pb 220.353 | -0.2061u                 | 1.4922   | -2.1974u  |
| Sb 206.834 | 1.3783                   | -0.8894u | -1.7345u  |
| Se 196.026 | -6.1444u                 | -1.5063u | 0.9206    |
| Sn 189.925 | 3.4296                   | 1.5029   | -0.0591u  |
| Sr 216.596 | 0.1039                   | 0.4725   | -0.0554u  |
| Ti 334.941 | 0.2040                   | 0.2749   | 0.1903    |
| Tl 190.794 | 7.3953                   | -3.4873u | -5.7700u  |
| V 292.401  | 0.4742                   | 0.5179   | 0.2991    |
| Zn 206.200 | -0.1016u                 | -0.0701u | 0.2185    |

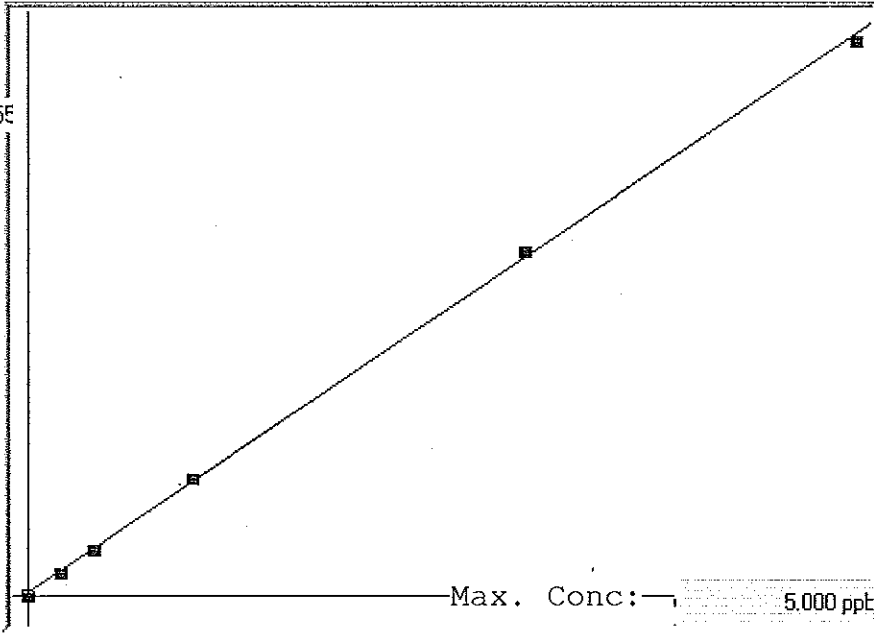
| Label      | Sol'n Conc. | Units | SD      | %RSD   | Int. (c/s) |
|------------|-------------|-------|---------|--------|------------|
| Ag 328.068 | -0.0638     | ppb   | 0.2005  | 314.2  | -17.9613   |
| Al 308.215 | 2.2144      | ppb   | 0.9872  | 44.6   | 196.365    |
| As 188.980 | 0.8084      | ppb   | 2.3313  | 288.4  | -6.3099    |
| B 249.678  | 10.2276     | ppb   | 0.5731  | 5.6    | 247.367    |
| Ba 389.178 | 0.4577      | ppb   | 0.2612  | 57.1   | -4.4721    |
| Be 313.042 | 0.0165      | ppb   | 0.0038  | 23.3   | -225.561   |
| Ca 370.602 | 2.020       | ppb   | 3.205   | 158.7  | 1.123      |
| Cd 226.502 | 0.0553      | ppb   | 0.1840  | 332.6  | 18.1416    |
| Co 228.615 | -0.1478     | ppb   | 0.3092  | 209.2  | 4.6344     |
| Cr 267.716 | 0.1778      | ppb   | 0.1637  | 92.0   | 15.3145    |
| Cu 324.754 | -0.2644     | ppb   | 0.2144  | 81.1   | 169.891    |
| Fe 271.441 | 5.7253      | ppb   | 1.2898  | 22.5   | 25.8837    |
| K 766.491  | 0.3253      | ppb   | 0.3193  | 98.2   | 266.882    |
| Mg 279.078 | -1.4462     | ppb   | 3.5818  | 247.7  | 32.3352    |
| Mn 257.610 | 0.1697      | ppb   | 0.0375  | 22.1   | 68.5035    |
| Mo 202.032 | 0.3621      | ppb   | 0.5361  | 148.0  | 13.0159    |
| Na 330.237 | -119.888    | ppb   | 181.239 | 151.2  | 43.3185    |
| Ni 231.604 | 1.1727      | ppb   | 0.8718  | 74.3   | -0.1689    |
| Pb 220.353 | -0.3038     | ppb   | 1.8467  | 607.9  | 26.6327    |
| Sb 206.834 | -0.4152     | ppb   | 1.6097  | 387.7  | 0.1778     |
| Se 196.026 | -2.2434     | ppb   | 3.5897  | 160.0  | 5.3750     |
| Sn 189.925 | 1.6245      | ppb   | 1.7475  | 107.6  | -13.2094   |
| Sr 216.596 | 0.1737      | ppb   | 0.2708  | 155.9  | 16.8533    |
| Ti 334.941 | 0.2230      | ppb   | 0.0454  | 20.4   | -0.6051    |
| Tl 190.794 | -0.6207     | ppb   | 7.0352  | 1133.5 | -10.0312   |
| V 292.401  | 0.4304      | ppb   | 0.1158  | 26.9   | -7.9863    |
| Zn 206.200 | 0.0156      | ppb   | 0.1764  | 1130.3 | -4.9878    |



Linear

μ Abs.:

12355



A= 0.0000e+000

B= 4.0257e-004

C= -2.5243e-002

Rho= 0.9997395

Accept=Accepted

| Std ID | Conc. | Calc.  | Dev.   | Mean  | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 |
|--------|-------|--------|--------|-------|------------|-------|-------|-------|-------|-------|
| blank  | 0.000 | -0.032 | -0.032 | -15   | 2.625      | -17   | -18   | -12   |       |       |
| 0.2    | 0.200 | 0.186  | -0.014 | 524   | 0.6 %      | 521   | 524   | 529   |       |       |
| 0.4    | 0.400 | 0.393  | -0.007 | 1039  | 0.5 %      | 1037  | 1035  | 1047  |       |       |
| 1.0    | 1.000 | 1.029  | 0.029  | 2619  | 0.8 %      | 2597  | 2613  | 2648  |       |       |
| 3.0    | 3.000 | 3.075  | 0.075  | 7700  | 1.0 %      | 7600  | 7715  | 7786  |       |       |
| 5.0    | 5.000 | 4.948  | -0.052 | 12354 | 0.6 %      | 12260 | 12371 | 12433 |       |       |

## C05302013D

Method: Hg Norm2 5-15-2013

Operator: Admin

Date of Analysis: 30 May 2013 17:33:13

| Sample ID            | Extended ID | Mean    | Units | RSD      | Date                 |
|----------------------|-------------|---------|-------|----------|----------------------|
| blank                |             | -16     | ppb   | -16.7532 | 30 May 2013 18:20:00 |
| 0.2                  |             | 525     | ppb   | 0.6289   | 30 May 2013 18:22:39 |
| 0.4                  |             | 1040    | ppb   | 0.5049   | 30 May 2013 18:25:19 |
| 1.0                  |             | 2619    | ppb   | 0.8131   | 30 May 2013 18:27:56 |
| 3.0                  |             | 7700    | ppb   | 0.9953   | 30 May 2013 18:30:33 |
| 5.0                  |             | 12355   | ppb   | 0.5793   | 30 May 2013 18:33:10 |
| ICV                  |             | 3.0770  | ppb   | 0.0700   | 30 May 2013 18:35:47 |
| ICB                  |             | -0.0379 | ppb   | -1.3263  | 30 May 2013 18:38:23 |
| CRA                  |             | 0.1842  | ppb   | 0.1030   | 30 May 2013 18:41:00 |
| CCV                  |             | 2.6343  | ppb   | 0.2355   | 30 May 2013 18:43:39 |
| CCB                  |             | -0.0251 | ppb   | -4.5974  | 30 May 2013 18:46:17 |
| mb 680-278298/1-a    | (BCB)       | -0.0196 | ppb   | -3.3529  | 30 May 2013 18:48:54 |
| lcs 680-278298/2-a   | (BCB)       | 2.6145  | ppb   | 1.0878   | 30 May 2013 18:51:30 |
| lcsd 680-278298/3-a  | (BCB)       | 2.6651  | ppb   | 0.9506   | 30 May 2013 18:54:07 |
| llcs 680-278298/4-a  | (BCB)       | 0.1677  | ppb   | 0.4080   | 30 May 2013 18:56:43 |
| 680-90557-c-1-c      | (BCB)       | -0.0223 | ppb   | -3.0696  | 30 May 2013 18:59:20 |
| 680-90557-c-1-d ms   | (BCB)       | -0.0105 | ppb   | -10.0803 | 30 May 2013 19:01:57 |
| 680-90557-c-1-e msd  | (BCB)       | -0.0204 | ppb   | -3.2206  | 30 May 2013 19:04:34 |
| 680-90557-c-2-c      | (BCB)       | -0.0271 | ppb   | -4.8980  | 30 May 2013 19:07:11 |
| 680-90622-c-15-d     | (BCB)       | -0.0200 | ppb   | -6.5709  | 30 May 2013 19:09:47 |
| mb 680-278289/1-a    | (BCB)       | -0.0235 | ppb   | -0.8076  | 30 May 2013 19:12:27 |
| CCV                  |             | 2.5994  | ppb   | 0.5945   | 30 May 2013 19:15:04 |
| CCB                  |             | -0.0427 | ppb   | -3.7984  | 30 May 2013 19:17:42 |
| lb 680-278256/3-b    | (BCB)       | -0.0171 | ppb   | -9.1068  | 30 May 2013 19:20:19 |
| lcs 680-278289/3-a   | (BCB)       | 2.6757  | ppb   | 0.5406   | 30 May 2013 19:22:57 |
| 680-90634-b-1-b      | (BCB)       | -0.0354 | ppb   | -2.9813  | 30 May 2013 19:25:35 |
| 680-90634-b-1-c ms   | (BCB)       | 0.9458  | ppb   | 1.3023   | 30 May 2013 19:28:12 |
| 680-90634-b-1-d msd  | (BCB)       | 0.9180  | ppb   | 0.1561   | 30 May 2013 19:30:50 |
| lb 680-277993/2-b    | (BCB)       | -0.0294 | ppb   | -4.2324  | 30 May 2013 19:33:28 |
| 680-90619-a-1-j      | (BCB)       | -0.0193 | ppb   | -1.9627  | 30 May 2013 19:36:06 |
| 680-90619-a-1-k ms   | (BCB)       | 1.1287  | ppb   | 0.1376   | 30 May 2013 19:38:45 |
| 680-90619-a-1-l msd  | (BCB)       | 1.0324  | ppb   | 0.2853   | 30 May 2013 19:41:22 |
| mb 680-278317/1-a    | (BCB)       | -0.0219 | ppb   | -3.4681  | 30 May 2013 19:44:00 |
| CCV                  |             | 2.6968  | ppb   | 0.9308   | 30 May 2013 19:46:39 |
| CCB                  |             | -0.0376 | ppb   | -2.8110  | 30 May 2013 19:49:16 |
| lcs 680-278317/2-a   | (BCB)       | 2.6104  | ppb   | 0.6170   | 30 May 2013 19:51:52 |
| 680-90715-d-1-a      | (BCB)       | -0.0271 | ppb   | -1.8513  | 30 May 2013 19:54:31 |
| 680-90715-d-1-b ms   | (BCB)       | 1.0182  | ppb   | 0.0000   | 30 May 2013 19:57:09 |
| 680-90715-d-1-c msd  | (BCB)       | 0.9620  | ppb   | 0.4446   | 30 May 2013 19:59:47 |
| 680-90715-d-2-a      | (BCB)       | -0.0129 | ppb   | -6.4137  | 30 May 2013 20:02:25 |
| 680-90715-d-3-a      | (BCB)       | 0.0145  | ppb   | 1.3108   | 30 May 2013 20:05:01 |
| 680-90661-a-1-a      | (BCB)       | 0.0098  | ppb   | 5.8208   | 30 May 2013 20:07:38 |
| 680-90661-a-2-a      | (BCB)       | 0.0302  | ppb   | 1.6638   | 30 May 2013 20:10:16 |
| 680-90661-a-3-a      | (BCB)       | -0.0106 | ppb   | -8.9380  | 30 May 2013 20:12:52 |
| 680-90661-a-4-a      | (BCB)       | 0.0023  | ppb   | 30.1940  | 30 May 2013 20:15:30 |
| CCV                  |             | 2.6481  | ppb   | 1.2218   | 30 May 2013 20:18:07 |
| CCB                  |             | -0.0297 | ppb   | -2.2156  | 30 May 2013 20:20:45 |
| 680-90661-a-6-a      | (BCB)       | 0.0620  | ppb   | 2.7214   | 30 May 2013 20:23:21 |
| 680-90661-a-7-a      | (BCB)       | 0.0024  | ppb   | 15.8123  | 30 May 2013 20:25:58 |
| 680-90661-a-8-a      | (BCB)       | 0.0495  | ppb   | 1.0143   | 30 May 2013 20:28:35 |
| 680-90661-a-9-a      | (BCB)       | -0.0087 | ppb   | -3.7619  | 30 May 2013 20:31:12 |
| 680-90661-a-10-a     | (BCB)       | -0.0120 | ppb   | -12.5964 | 30 May 2013 20:33:49 |
| 680-90670-a-5-a      | (BCB)       | 0.0796  | ppb   | 0.6311   | 30 May 2013 20:36:28 |
| 680-90670-a-9-a      | (BCB)       | -0.0079 | ppb   | -4.1438  | 30 May 2013 20:39:06 |
| 640-43699-k-1-d      | (BCB)       | -0.0189 | ppb   | -5.5800  | 30 May 2013 20:41:42 |
| 640-43706-a-21-b     | (BCB)       | -0.0030 | ppb   | -16.9210 | 30 May 2013 20:44:19 |
| 680-90704-g-5-b      | (BCB)       | 0.0627  | ppb   | 2.1843   | 30 May 2013 20:46:57 |
| CCV                  |             | 2.7813  | ppb   | 1.4460   | 30 May 2013 20:49:34 |
| CCB                  |             | -0.0310 | ppb   | -1.6190  | 30 May 2013 20:52:12 |
| mb 680-278369/1-a    | (BCB)       | -0.0278 | ppb   | -1.8066  | 30 May 2013 20:54:49 |
| lcs 680-278369/2-a   | (BCB)       | 2.7408  | ppb   | 0.7478   | 30 May 2013 20:57:27 |
| 640-43734-a-39-a     | (BCB)       | 1.7211  | ppb   | 0.6591   | 30 May 2013 21:00:04 |
| 640-43734-a-39-b ms  | (BCB)       | 2.5105  | ppb   | 0.5593   | 30 May 2013 21:02:40 |
| 640-43734-a-39-c msd | (BCB)       | 2.4679  | ppb   | 0.8465   | 30 May 2013 21:05:17 |
| 640-43734-a-40-a     | (BCB)       | 0.2250  | ppb   | 1.0260   | 30 May 2013 21:07:55 |
| 640-43734-a-41-a     | (BCB)       | 0.7148  | ppb   | 1.3581   | 30 May 2013 21:10:34 |
| 640-43734-a-42-a     | (BCB)       | -0.0232 | ppb   | -1.4150  | 30 May 2013 21:13:12 |

## C05302013D

Method: Hg Norm2 5-15-2013

Operator: Admin

Date of Analysis: 30 May 2013 17:33:13

| Sample ID            | Extended ID | Mean       | Units | RSD      | Date                 |
|----------------------|-------------|------------|-------|----------|----------------------|
| 640-43734-a-43-a     | (BCB)       | 0.1217     | ppb   | 0.8103   | 30 May 2013 21:15:51 |
| 640-43734-a-44-a     | (BCB)       | 0.7184     | ppb   | 1.2854   | 30 May 2013 21:18:27 |
| CCV                  |             | 2.8169     | ppb   | 0.3223   | 30 May 2013 21:21:05 |
| CCB                  |             | -0.0289    | ppb   | -4.1056  | 30 May 2013 21:23:42 |
| 640-43734-a-45-a     | (BCB)       | 0.4969     | ppb   | 0.6063   | 30 May 2013 21:26:19 |
| 640-43734-a-46-a     | (BCB)       | -0.0273    | ppb   | -2.0888  | 30 May 2013 21:28:56 |
| 640-43734-a-47-a     | (BCB)       | 0.0137     | ppb   | 5.0046   | 30 May 2013 21:31:35 |
| 640-43734-a-48-a     | (BCB)       | 0.1308     | ppb   | 0.2901   | 30 May 2013 21:34:12 |
| 640-43734-a-60-a     | (BCB)       | -0.0243    | ppb   | -4.3476  | 30 May 2013 21:36:50 |
| 640-43734-a-61-a     | (BCB)       | -0.0180    | ppb   | -3.6529  | 30 May 2013 21:39:29 |
| 640-43734-a-62-a     | (BCB)       | -0.0061    | ppb   | -11.3029 | 30 May 2013 21:42:06 |
| mb 680-278360/1-a    | (BCB)       | -0.0196    | ppb   | -7.3074  | 30 May 2013 21:44:44 |
| lcs 680-278360/2-a   | (BCB)       | 2.6476     | ppb   | 1.1417   | 30 May 2013 21:47:21 |
| 640-43734-a-1-a      | (BCB)       | -0.0260    | ppb   | -2.5238  | 30 May 2013 21:50:00 |
| CCV                  |             | 2.7432     | ppb   | 0.6262   | 30 May 2013 21:52:40 |
| CCB                  |             | -0.0342    | ppb   | -3.6351  | 30 May 2013 21:55:17 |
| 640-43734-a-2-a      | (BCB)       | -0.0214    | ppb   | -3.2047  | 30 May 2013 21:57:53 |
| 640-43734-a-3-a      | (BCB)       | -0.0066    | ppb   | -14.3977 | 30 May 2013 22:00:32 |
| 640-43734-a-4-a      | (BCB)       | 0.0094     | ppb   | 9.2731   | 30 May 2013 22:03:09 |
| 640-43734-a-5-a      | (BCB)       | -0.0251    | ppb   | -0.7558  | 30 May 2013 22:05:47 |
| 640-43734-a-6-a      | (BCB)       | -0.0247    | ppb   | -2.0323  | 30 May 2013 22:08:26 |
| 640-43734-a-7-a      | (BCB)       | 0.0166     | ppb   | 7.9088   | 30 May 2013 22:11:03 |
| 640-43734-a-8-a      | (BCB)       | 0.3922     | ppb   | 0.3022   | 30 May 2013 22:13:41 |
| 640-43734-a-9-a      | (BCB)       | -0.0255    | ppb   | -2.6821  | 30 May 2013 22:16:19 |
| 640-43734-a-10-a     | (BCB)       | 4.5003     | ppb   | 0.7052   | 30 May 2013 22:18:56 |
| 640-43734-a-11-a     | (BCB)       | 3.1679     | ppb   | 1.4377   | 30 May 2013 22:21:35 |
| CCV                  |             | 2.6372     | ppb   | 0.3486   | 30 May 2013 22:24:12 |
| CCB                  |             | -0.0443    | ppb   | -1.8674  | 30 May 2013 22:26:50 |
| 640-43734-a-12-a     | (BCB)       | 0.7167     | ppb   | 0.4375   | 30 May 2013 22:29:28 |
| 640-43734-a-13-a     | (BCB)       | 0.1306     | ppb   | 2.1949   | 30 May 2013 22:32:06 |
| 640-43734-a-14-a     | (BCB)       | 0.2087     | ppb   | 0.8771   | 30 May 2013 22:34:44 |
| 640-43734-a-22-a     | (BCB)       | -0.0279    | ppb   | -3.5958  | 30 May 2013 22:37:23 |
| 640-43734-a-24-a     | (BCB)       | -0.0256    | ppb   | -3.3911  | 30 May 2013 22:40:02 |
| 640-43734-a-25-a     | (BCB)       | 13.6828    | ppb   | 1.6101   | 30 May 2013 22:42:40 |
| 640-43734-a-26-a     | (BCB)       | 6.9592     | ppb   | 0.3669   | 30 May 2013 22:45:18 |
| 640-43734-a-27-a     | (BCB)       | -0.2336    | ppb   | -0.4522  | 30 May 2013 22:47:57 |
| 640-43734-a-38-a     | (BCB)       | 5.5487     | ppb   | 0.5336   | 30 May 2013 22:50:35 |
| 640-43734-a-38-b ms  | (BCB)       | 6.3228     | ppb   | 0.9852   | 30 May 2013 22:53:14 |
| CCV                  |             | 2.3760     | ppb   | 0.3830   | 30 May 2013 22:55:52 |
| CCB                  |             | (L)-0.1377 | ppb   | -0.8383  | 30 May 2013 22:58:29 |
| 640-43734-a-38-c msd | (BCB)       | 6.3834     | ppb   | 0.2426   | 30 May 2013 23:01:08 |
| CCV                  |             | 2.5355     | ppb   | 0.2590   | 30 May 2013 23:03:46 |
| CCB                  |             | -0.0962    | ppb   | -11.2738 | 30 May 2013 23:06:25 |
| CCV                  |             | 2.5913     | ppb   | 0.3646   | 31 May 2013 09:34:14 |
| CCB                  |             | -0.0311    | ppb   | -2.1968  | 31 May 2013 09:36:52 |
| 640-43734-a-12-a     | (BCB)       | 0.6845     | ppb   | 0.2541   | 31 May 2013 09:39:30 |
| 640-43734-a-13-a     | (BCB)       | 0.1226     | ppb   | 1.7232   | 31 May 2013 09:42:10 |
| 640-43734-a-14-a     | (BCB)       | 0.2005     | ppb   | 0.6208   | 31 May 2013 09:44:48 |
| 640-43734-a-22-a     | (BCB)       | -0.0334    | ppb   | -2.4746  | 31 May 2013 09:47:28 |
| 640-43734-a-24-a     | (BCB)       | -0.0271    | ppb   | -1.8513  | 31 May 2013 09:50:08 |
| 640-43734-a-25-a     | (BCB)       | 12.9666    | ppb   | 1.0057   | 31 May 2013 09:52:46 |
| 640-43734-a-26-a     | (BCB)       | 6.3788     | ppb   | 1.5825   | 31 May 2013 09:55:25 |
| 640-43734-a-27-a     | (BCB)       | -0.2570    | ppb   | -0.1954  | 31 May 2013 09:58:03 |
| 640-43734-a-38-a     | (BCB)       | 5.2396     | ppb   | 0.5908   | 31 May 2013 10:00:44 |
| 640-43734-a-38-b ms  | (BCB)       | 5.8542     | ppb   | 0.7589   | 31 May 2013 10:03:23 |
| CCV                  |             | 2.3699     | ppb   | 1.5345   | 31 May 2013 10:06:01 |
| CCB                  |             | -0.0334    | ppb   | -1.1354  | 31 May 2013 10:08:40 |
| 640-43734-a-38-c msd | (BCB)       | 6.2636     | ppb   | 0.3866   | 31 May 2013 10:11:19 |
| CCV                  |             | 2.3319     | ppb   | 0.4936   | 31 May 2013 10:13:58 |
| CCB                  |             | -0.0365    | ppb   | -3.2456  | 31 May 2013 10:16:38 |
| CCV                  |             | 2.5053     | ppb   | 1.6676   | 31 May 2013 11:29:05 |
| CCB                  |             | -0.0243    | ppb   | -2.0659  | 31 May 2013 11:31:43 |
| 640-43734-a-25-a     | ^5          | 3.5924     | ppb   | 0.6445   | 31 May 2013 11:34:21 |
| 640-43734-a-26-a     | ^5          | 1.6458     | ppb   | 0.3731   | 31 May 2013 11:36:59 |
| 640-43734-a-27-a     |             | -0.0533    | ppb   | -0.3561  | 31 May 2013 11:39:38 |
| 640-43734-a-38-a     | ^2          | 3.0495     | ppb   | 0.8650   | 31 May 2013 11:42:17 |
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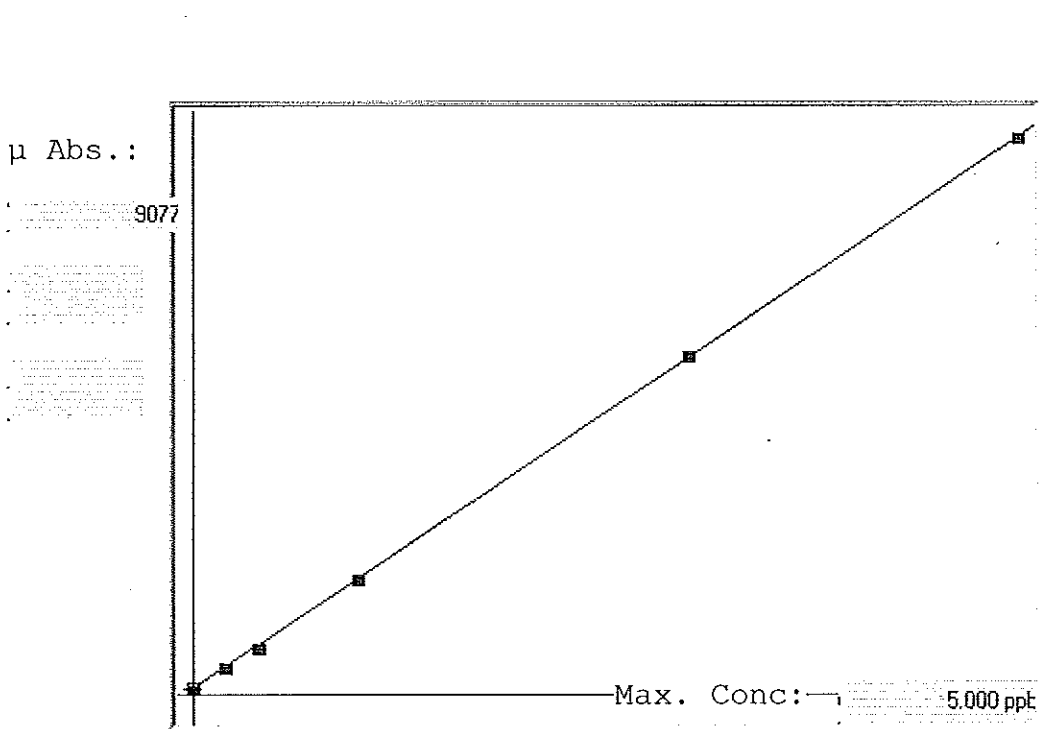
# C05302013D

Method: Hg Norm2 5-15-2013

Operator: Admin

Date of Analysis: 30 May 2013 17:33:13

| Sample ID            | Extended ID | Mean    | Units | RSD     | Date                 |
|----------------------|-------------|---------|-------|---------|----------------------|
| 640-43734-a-38-c msd | A2          | 3.1634  | ppb   | 0.7170  | 31 May 2013 11:47:35 |
| CCV                  |             | 2.4189  | ppb   | 1.6019  | 31 May 2013 11:50:14 |
| CCB                  |             | -0.0321 | ppb   | -1.0244 | 31 May 2013 11:52:52 |



Linear

A= 0.0000e+000  
 B= 5.5567e-004  
 C= -5.4510e-002  
 Rho= 0.9999760  
 Accept=Accepted

| Std ID | Conc. | Calc. | Dev.   | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 |
|--------|-------|-------|--------|------|------------|-------|-------|-------|-------|-------|
| blank  | 0.000 | 0.007 | 0.007  | 111  | 8.219      | 102   | 110   | 122   |       |       |
| 0.2    | 0.200 | 0.200 | 0.000  | 458  | 2.1 %      | 447   | 458   | 471   |       |       |
| 0.4    | 0.400 | 0.380 | -0.020 | 782  | 3.3 %      | 751   | 781   | 814   |       |       |
| 1.0    | 1.000 | 1.004 | 0.004  | 1905 | 2.9 %      | 1831  | 1920  | 1964  |       |       |
| 3.0    | 3.000 | 3.019 | 0.019  | 5531 | 2.8 %      | 5333  | 5557  | 5704  |       |       |
| 5.0    | 5.000 | 4.989 | -0.011 | 9076 | 2.8 %      | 8753  | 9106  | 9371  |       |       |

## C05302013

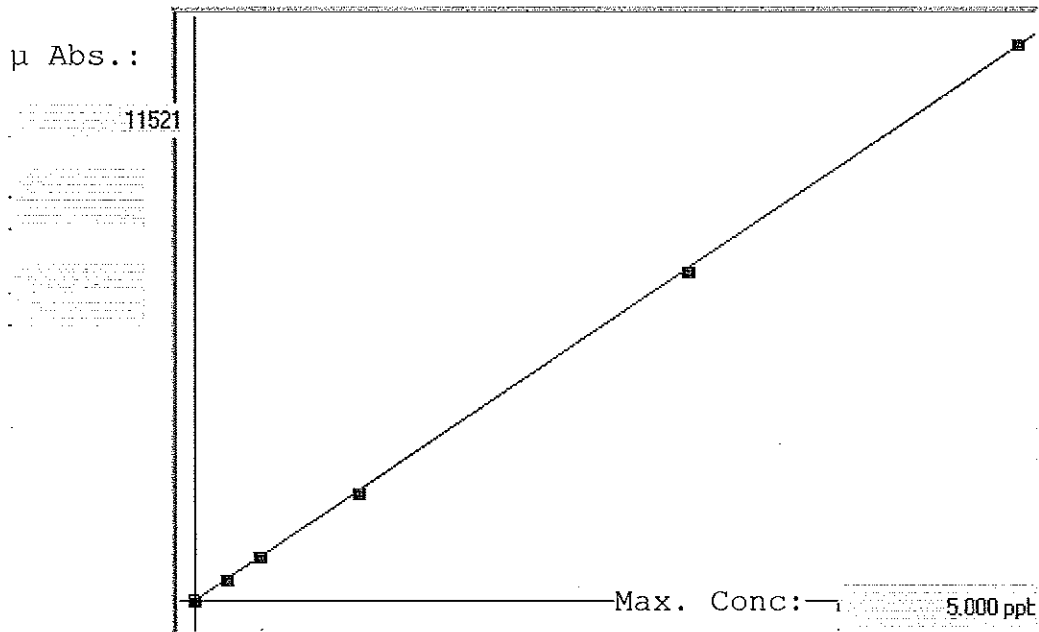
Method: Hg Norm2 5-15-2013

Operator: Admin

Date of Analysis: 30 May 2013 12:12:01

| Sample ID            | Extended ID | Mean    | Units | RSD        | Date                 |
|----------------------|-------------|---------|-------|------------|----------------------|
| blank                |             | 111     | ppb   | 7.3825     | 30 May 2013 12:15:46 |
| 0.2                  |             | 459     | ppb   | 2.1387     | 30 May 2013 12:18:12 |
| 0.4                  |             | 782     | ppb   | 3.2902     | 30 May 2013 12:20:40 |
| 1.0                  |             | 1905    | ppb   | 2.9041     | 30 May 2013 12:23:08 |
| 3.0                  |             | 5531    | ppb   | 2.7578     | 30 May 2013 12:25:35 |
| 5.0                  |             | 9077    | ppb   | 2.7890     | 30 May 2013 12:28:03 |
| ICV                  |             | 3.0213  | ppb   | 2.9958     | 30 May 2013 12:30:30 |
| ICB                  |             | -0.0158 | ppb   | -11.6062   | 30 May 2013 12:32:56 |
| CRA                  |             | 0.1804  | ppb   | 2.6424     | 30 May 2013 12:35:21 |
| CCV                  |             | 2.5577  | ppb   | 3.3843     | 30 May 2013 12:37:49 |
| CCB                  |             | -0.0173 | ppb   | -13.8930   | 30 May 2013 12:40:16 |
| 680-90448-b-34-d     | (BCB)       | 0.1570  | ppb   | 2.9088     | 30 May 2013 12:42:41 |
| 680-90448-b-35-d     | (BCB)       | -0.0251 | ppb   | -4.7901    | 30 May 2013 12:45:08 |
| 680-90448-b-36-d     | (BCB)       | -0.0188 | ppb   | -3.6938    | 30 May 2013 12:47:34 |
| mb 680-278204/1-a    | (BCB)       | -0.0293 | ppb   | -1.7868    | 30 May 2013 12:49:59 |
| lcs 680-278204/2-a   | (BCB)       | 2.3969  | ppb   | 2.6527     | 30 May 2013 12:52:26 |
| 680-90622-b-13-d     | (BCB)       | 2.9133  | ppb   | 2.2712     | 30 May 2013 12:54:53 |
| 680-90622-b-13-e ms  | (BCB)       | 3.2076  | ppb   | 2.3846     | 30 May 2013 12:57:20 |
| 680-90622-b-13-f msd | (BCB)       | 3.3999  | ppb   | 2.3004     | 30 May 2013 12:59:47 |
| 680-90622-a-14-b     | (BCB)       | 2.8357  | ppb   | 2.0160     | 30 May 2013 13:02:15 |
| 680-90622-b-20-b     | (BCB)       | 2.3306  | ppb   | 2.1623     | 30 May 2013 13:04:43 |
| CCV                  |             | 2.8229  | ppb   | 2.8206     | 30 May 2013 13:07:12 |
| CCB                  |             | -0.0001 | ppb   | -5810.5716 | 30 May 2013 13:09:40 |
| 680-90622-b-21-b     | (BCB)       | 2.8153  | ppb   | 1.9258     | 30 May 2013 13:12:07 |
| 680-90622-b-27-b     | (BCB)       | 2.5886  | ppb   | 1.7660     | 30 May 2013 13:14:36 |
| 680-90622-a-40-b     | (BCB)       | 2.4888  | ppb   | 2.8895     | 30 May 2013 13:17:04 |
| 680-90622-a-41-b     | (BCB)       | 3.7165  | ppb   | 1.9004     | 30 May 2013 13:19:31 |
| 680-90622-a-42-b     | (BCB)       | 3.3588  | ppb   | 1.6985     | 30 May 2013 13:21:58 |
| 680-90622-a-43-b     | (BCB)       | 3.4788  | ppb   | 2.0755     | 30 May 2013 13:24:24 |
| 680-90599-a-2-b      | (BCB)       | 0.0631  | ppb   | 4.0881     | 30 May 2013 13:26:53 |
| 680-90599-a-3-b      | (BCB)       | 0.0700  | ppb   | 2.5941     | 30 May 2013 13:29:24 |
| 680-90599-a-4-b      | (BCB)       | 0.1290  | ppb   | 3.5392     | 30 May 2013 13:31:50 |
| 680-90599-a-5-b      | (BCB)       | 0.1863  | ppb   | 2.9261     | 30 May 2013 13:34:18 |
| CCV                  |             | 2.6355  | ppb   | 3.5620     | 30 May 2013 13:36:46 |
| CCB                  |             | -0.0021 | ppb   | -54.5760   | 30 May 2013 13:39:14 |
| 680-90599-a-6-b      | (BCB)       | 0.4734  | ppb   | 3.1249     | 30 May 2013 13:41:40 |
| 680-90599-a-7-b      | (BCB)       | 0.5039  | ppb   | 1.8604     | 30 May 2013 13:44:07 |
| 680-90599-a-8-b      | (BCB)       | 0.3606  | ppb   | 3.2252     | 30 May 2013 13:46:35 |
| 680-90599-a-9-b      | (BCB)       | 0.3559  | ppb   | 2.8052     | 30 May 2013 13:49:04 |
| 680-90599-a-10-b     | (BCB)       | 0.3871  | ppb   | 1.7635     | 30 May 2013 13:51:32 |
| 680-90599-a-11-b     | (BCB)       | 0.1744  | ppb   | 0.4505     | 30 May 2013 13:53:59 |
| CCV                  |             | 2.6118  | ppb   | 2.8055     | 30 May 2013 13:56:26 |
| CCB                  |             | -0.0015 | ppb   | -85.2440   | 30 May 2013 13:58:53 |

Linear



A= 0.0000e+000  
 B= 4.3508e-004  
 C= 2.8596e-003  
 Rho= 0.9999672  
 Accept=Accepted

| Std ID | Conc. | Calc. | Dev.   | Mean  | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 |
|--------|-------|-------|--------|-------|------------|-------|-------|-------|-------|-------|
| blank  | 0.000 | 0.007 | 0.007  | 9     | 0.000      | 9     | 9     | 9     |       |       |
| 0.2    | 0.200 | 0.198 | -0.002 | 449   | 1.1 %      | 443   | 449   | 455   |       |       |
| 0.4    | 0.400 | 0.416 | 0.016  | 950   | 0.6 %      | 944   | 951   | 957   |       |       |
| 1.0    | 1.000 | 0.987 | -0.013 | 2262  | 1.3 %      | 2229  | 2258  | 2299  |       |       |
| 3.0    | 3.000 | 2.976 | -0.024 | 6833  | 0.7 %      | 6772  | 6833  | 6896  |       |       |
| 5.0    | 5.000 | 5.015 | 0.015  | 11521 | 2.0 %      | 11248 | 11507 | 11808 |       |       |

## C05312013

Method: Hg Norm2 5-15-2013

Operator: Admin

Date of Analysis: 31 May 2013 17:23:37

| Sample ID            | Extended ID | Mean   | Units | RSD     | Date                 |
|----------------------|-------------|--------|-------|---------|----------------------|
| blank                |             | 9      | ppb   | 0.0000  | 31 May 2013 17:34:25 |
| 0.2                  |             | 449    | ppb   | 1.0911  | 31 May 2013 17:37:01 |
| 0.4                  |             | 951    | ppb   | 0.5588  | 31 May 2013 17:39:39 |
| 1.0                  |             | 2262   | ppb   | 1.2695  | 31 May 2013 17:42:17 |
| 3.0                  |             | 6834   | ppb   | 0.7408  | 31 May 2013 17:44:54 |
| 5.0                  |             | 11521  | ppb   | 1.9862  | 31 May 2013 17:47:31 |
| ICV                  |             | 2.9901 | ppb   | 1.8671  | 31 May 2013 17:50:08 |
| ICB                  |             | 0.0013 | ppb   | 90.3213 | 31 May 2013 17:52:44 |
| CRA                  |             | 0.2089 | ppb   | 0.9364  | 31 May 2013 17:55:20 |
| CCV                  |             | 2.5661 | ppb   | 0.8242  | 31 May 2013 17:57:58 |
| CCB                  |             | 0.0039 | ppb   | 10.5863 | 31 May 2013 18:00:35 |
| mb 680-278555/1-a    | (BCB)       | 0.0290 | ppb   | 6.1324  | 31 May 2013 18:03:11 |
| lcs 680-278555/2-a   | (BCB)       | 2.6714 | ppb   | 0.0537  | 31 May 2013 18:05:49 |
| 680-90686-b-7-d      | (BCB)       | 4.2216 | ppb   | 0.4704  | 31 May 2013 18:08:25 |
| 680-90686-b-7-e ms   | (BCB)       | 5.5403 | ppb   | 0.5107  | 31 May 2013 18:11:02 |
| 680-90686-b-7-f msd  | (BCB)       | 4.9835 | ppb   | 0.5844  | 31 May 2013 18:13:38 |
| 680-90686-b-21-b     | (BCB)       | 3.8728 | ppb   | 0.2661  | 31 May 2013 18:16:14 |
| 680-90686-b-27-b     | (BCB)       | 1.5175 | ppb   | 1.1443  | 31 May 2013 18:18:50 |
| 680-90686-a-32-b     | (BCB)       | 5.6774 | ppb   | 0.4043  | 31 May 2013 18:21:27 |
| 680-90686-a-33-b     | (BCB)       | 4.7469 | ppb   | 0.8537  | 31 May 2013 18:24:04 |
| 680-90686-a-34-b     | (BCB)       | 2.5091 | ppb   | 0.4318  | 31 May 2013 18:26:41 |
| CCV                  |             | 2.6395 | ppb   | 0.6036  | 31 May 2013 18:29:18 |
| CCB                  |             | 0.0068 | ppb   | 5.2432  | 31 May 2013 18:31:55 |
| 680-90723-b-1-d      | (BCB)       | 3.6058 | ppb   | 0.7738  | 31 May 2013 18:34:31 |
| 680-90723-b-1-e ms   | (BCB)       | 4.6279 | ppb   | 0.2856  | 31 May 2013 18:37:10 |
| 680-90723-b-1-f msd  | (BCB)       | 4.4320 | ppb   | 0.2819  | 31 May 2013 18:39:49 |
| 680-90723-b-7-b      | (BCB)       | 4.6758 | ppb   | 0.6052  | 31 May 2013 18:42:27 |
| 680-90723-b-17-b     | (BCB)       | 3.8064 | ppb   | 0.4556  | 31 May 2013 18:45:04 |
| 680-90723-b-29-b     | (BCB)       | 2.0475 | ppb   | 0.3869  | 31 May 2013 18:47:42 |
| 680-90723-a-41-b     | (BCB)       | 3.1537 | ppb   | 0.0850  | 31 May 2013 18:50:21 |
| 680-90723-a-42-b     | (BCB)       | 3.8180 | ppb   | 0.2699  | 31 May 2013 18:52:59 |
| 680-90723-a-43-b     | (BCB)       | 2.0773 | ppb   | 0.3025  | 31 May 2013 18:55:37 |
| 680-90723-a-44-b     | (BCB)       | 5.5916 | ppb   | 1.1450  | 31 May 2013 18:58:14 |
| CCV                  |             | 2.6038 | ppb   | 0.3947  | 31 May 2013 19:00:51 |
| CCB                  |             | 0.0050 | ppb   | 18.6669 | 31 May 2013 19:03:29 |
| 680-90717-a-1-b      | (BCB)       | 0.1747 | ppb   | 2.3449  | 31 May 2013 19:06:05 |
| 680-90622-a-30-d     | (BCB)       | 1.2924 | ppb   | 0.2443  | 31 May 2013 19:08:43 |
| 680-90622-a-30-e ms  | (BCB)       | 3.0081 | ppb   | 0.2191  | 31 May 2013 19:11:20 |
| 680-90622-a-30-f msd | (BCB)       | 2.6777 | ppb   | 0.3562  | 31 May 2013 19:13:58 |
| mb 680-278513/1-a    | (BCB)       | 0.0184 | ppb   | 5.5802  | 31 May 2013 19:16:36 |
| lcs 680-278513/2-a   | (BCB)       | 2.6062 | ppb   | 0.4998  | 31 May 2013 19:19:13 |
| 680-90671-a-2-d      | (BCB)       | 0.4440 | ppb   | 0.9226  | 31 May 2013 19:21:51 |
| 680-90671-a-3-b      | (BCB)       | 2.4074 | ppb   | 1.2745  | 31 May 2013 19:24:29 |
| 680-90671-a-4-b      | (BCB)       | 0.1155 | ppb   | 0.8134  | 31 May 2013 19:27:07 |
| 680-90671-a-5-b      | (BCB)       | 0.0342 | ppb   | 3.1175  | 31 May 2013 19:29:44 |
| CCV                  |             | 2.5877 | ppb   | 0.8725  | 31 May 2013 19:32:21 |
| CCB                  |             | 0.0033 | ppb   | 10.7823 | 31 May 2013 19:35:00 |
| 680-90671-a-6-b      | (BCB)       | 0.5348 | ppb   | 0.6027  | 31 May 2013 19:37:36 |
| 680-90671-a-7-b      | (BCB)       | 0.3606 | ppb   | 0.7393  | 31 May 2013 19:40:14 |
| 680-90671-a-8-b      | (BCB)       | 0.9303 | ppb   | 0.4805  | 31 May 2013 19:42:52 |
| 680-90671-a-9-b      | (BCB)       | 0.0324 | ppb   | 3.2847  | 31 May 2013 19:45:31 |
| 680-90671-a-10-b     | (BCB)       | 0.3965 | ppb   | 0.8975  | 31 May 2013 19:48:09 |
| 680-90671-a-11-b     | (BCB)       | 0.7511 | ppb   | 1.1560  | 31 May 2013 19:50:47 |
| 680-90671-a-12-b     | (BCB)       | 0.4706 | ppb   | 1.2834  | 31 May 2013 19:53:25 |
| 680-90671-a-14-b     | (BCB)       | 1.2636 | ppb   | 0.8033  | 31 May 2013 19:56:03 |
| 680-90671-a-15-b     | (BCB)       | 0.0590 | ppb   | 1.5934  | 31 May 2013 19:58:42 |
| 680-90671-a-16-b     | (BCB)       | 0.0516 | ppb   | 2.0658  | 31 May 2013 20:01:20 |
| CCV                  |             | 2.5761 | ppb   | 0.2793  | 31 May 2013 20:03:59 |
| CCB                  |             | 0.0027 | ppb   | 19.9899 | 31 May 2013 20:06:36 |
| 680-90671-a-17-b     | (BCB)       | 0.0175 | ppb   | 5.1065  | 31 May 2013 20:09:13 |

## C05312013

Method: Hg Norm2 5-15-2013

Operator: Admin

Date of Analysis: 31 May 2013 17:23:37

| Sample ID            | Extended ID | Mean   | Units | RSD     | Date                 |
|----------------------|-------------|--------|-------|---------|----------------------|
| 680-90671-a-18-b     | (BCB)       | 7.3143 | ppb   | 0.9165  | 31 May 2013 20:11:51 |
| 680-90671-a-19-b     | (BCB)       | 1.8612 | ppb   | 0.7289  | 31 May 2013 20:14:29 |
| 680-90671-a-20-b     | (BCB)       | 0.1879 | ppb   | 0.2888  | 31 May 2013 20:17:06 |
| 680-90671-a-21-b     | (BCB)       | 0.0230 | ppb   | 4.7149  | 31 May 2013 20:19:43 |
| 680-90671-a-22-b     | (BCB)       | 0.4013 | ppb   | 0.1843  | 31 May 2013 20:22:20 |
| 680-90671-a-22-c ms  | (BCB)       | 1.3325 | ppb   | 1.2666  | 31 May 2013 20:24:57 |
| 680-90671-a-22-d msd | (BCB)       | 1.3164 | ppb   | 0.6891  | 31 May 2013 20:27:35 |
| CCV                  |             | 2.5506 | ppb   | 1.5572  | 31 May 2013 20:30:12 |
| CCB                  |             | 0.0008 | ppb   | 65.4390 | 31 May 2013 20:32:50 |

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278125 Batch Start Date: 05/28/13 09:59 Batch Analyst: Kennedy, Michael

Batch Method: 200.7 Batch End Date: 05/28/13 15:53

| Lab Sample ID         | Client Sample ID | Method Chain            | Basis | Initial pH | InitialAmount | FinalAmount | MS_Ag_LCS_SPK<br>00006 | MS_LCS1_WK<br>00004 | MS_LCS2_wk<br>00145 |
|-----------------------|------------------|-------------------------|-------|------------|---------------|-------------|------------------------|---------------------|---------------------|
| MB 680-278125/1       |                  | 200.7, 200.7<br>Rev 4.4 |       |            | 50 mL         | 50 mL       |                        |                     |                     |
| LCS<br>680-278125/2   |                  | 200.7, 200.7<br>Rev 4.4 |       |            | 50 mL         | 50 mL       | 0.5 mL                 | 0.5 mL              | 0.5 mL              |
| 680-90622-C-15        | 052113-RB-Shovel | 200.7, 200.7<br>Rev 4.4 | T     | <2         | 50 mL         | 50 mL       |                        |                     |                     |
| 680-90622-C-15<br>MS  | 052113-RB-Shovel | 200.7, 200.7<br>Rev 4.4 | T     | <2         | 50 mL         | 50 mL       | 0.5 mL                 | 0.5 mL              | 0.5 mL              |
| 680-90622-C-15<br>MSD | 052113-RB-Shovel | 200.7, 200.7<br>Rev 4.4 | T     | <2         | 50 mL         | 50 mL       | 0.5 mL                 | 0.5 mL              | 0.5 mL              |

| Batch Notes                       |              |
|-----------------------------------|--------------|
| Lot # of hydrochloric acid        | 24317        |
| Lot # of Nitric Acid              | L08022       |
| Hood ID or number                 | FH10         |
| Hot Block ID number               | 7            |
| Oven, Bath or Block Temperature 1 | 93 Degrees C |
| Pipette ID                        | ME 8         |
| ID number of the thermometer      | MEPREP 13    |
| Digestion Tube/Cup Lot #          | ML27KK03     |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278184 Batch Start Date: 05/28/13 12:24 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 05/28/13 17:05

| Lab Sample ID      | Client Sample ID      | Method Chain | Basis | CalcMsg             | InitialAmount | FinalAmount | MS_Ag_LCS_SPK<br>00006 | MS_LCS1_WK<br>00004 | MS_LCS2_wk<br>00145 |
|--------------------|-----------------------|--------------|-------|---------------------|---------------|-------------|------------------------|---------------------|---------------------|
| MB 680-278184/1    |                       | 3050B, 6010C |       | CALC NOT SET TO RUN | 1.00 g        | 100 mL      |                        |                     |                     |
| LCS 680-278184/2   |                       | 3050B, 6010C |       | CALC NOT SET TO RUN | 1.02 g        | 100 mL      | 1 mL                   | 1 mL                | 1 mL                |
| 680-90622-B-13     | CV0626B-CS            | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.01 g        | 100 mL      |                        |                     |                     |
| 680-90622-B-13 MS  | CV0626B-CS            | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.00 g        | 100 mL      | 1 mL                   | 1 mL                | 1 mL                |
| 680-90622-B-13 MSD | CV0626B-CS            | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.00 g        | 100 mL      | 1 mL                   | 1 mL                | 1 mL                |
| 680-90622-A-14     | CV0626B-CS (sieve)    | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.06 g        | 100 mL      |                        |                     |                     |
| 680-90622-B-20     | CV1358A-CS            | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.06 g        | 100 mL      |                        |                     |                     |
| 680-90622-B-21     | CV1358A-CSD           | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.14 g        | 100 mL      |                        |                     |                     |
| 680-90622-B-27     | CV1016A-CS-SP         | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.12 g        | 100 mL      |                        |                     |                     |
| 680-90622-A-40     | CV0828B-CS-SP (sieve) | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.03 g        | 100 mL      |                        |                     |                     |
| 680-90622-A-41     | CV1016A-CS-SP (sieve) | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.05 g        | 100 mL      |                        |                     |                     |
| 680-90622-A-42     | CV1358A-CS (sieve)    | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.05 g        | 100 mL      |                        |                     |                     |
| 680-90622-A-43     | CV1358A-CSD (sieve)   | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.05 g        | 100 mL      |                        |                     |                     |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278184 Batch Start Date: 05/28/13 12:24 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 05/28/13 17:05

| Batch Notes                       |                 |
|-----------------------------------|-----------------|
| Analyst                           | JL              |
| Balance ID                        | 25              |
| Blank Soil Lot Number             | 2958846         |
| Hydrogen peroxide lot number      | 3058307         |
| Lot # of hydrochloric acid        | 3119867         |
| Lot # of Nitric Acid              | 3095494         |
| Hood ID or number                 | FH-8            |
| Hot Block ID number               | 10              |
| Nominal Amount Used               | 1.0 g           |
| Oven, Bath or Block Temperature 1 | 96 Degrees C    |
| Oven, Bath or Block Temperature 2 | 96 Degrees C    |
| Pipette ID                        | ME4             |
| Perform Calculation (0=No, 1=Yes) | 0               |
| Temperature                       | 96 Degrees C    |
| ID number of the thermometer      | MEPREP15        |
| Digestion Tube/Cup Lot #          | J161651-263-100 |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278504 Batch Start Date: 05/30/13 11:02 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 05/30/13 17:21

| Lab Sample ID      | Client Sample ID | Method Chain | Basis | CalcMsg             | InitialAmount | FinalAmount | MS_Ag_LCS_SPK<br>00006 | MS_LCS1_WK<br>00004 | MS_LCS2_wk<br>00145 |
|--------------------|------------------|--------------|-------|---------------------|---------------|-------------|------------------------|---------------------|---------------------|
| MB 680-278504/1    |                  | 3050B, 6010C |       | CALC NOT SET TO RUN | 1.02 g        | 100 mL      |                        |                     |                     |
| LCS 680-278504/2   |                  | 3050B, 6010C |       | CALC NOT SET TO RUN | 1.00 g        | 100 mL      | 1 mL                   | 1 mL                | 1 mL                |
| 680-90622-A-30     | CV0828B-CS-SP    | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.01 g        | 100 mL      |                        |                     |                     |
| 680-90622-A-30 MS  | CV0828B-CS-SP    | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.02 g        | 100 mL      | 1 mL                   | 1 mL                | 1 mL                |
| 680-90622-A-30 MSD | CV0828B-CS-SP    | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.01 g        | 100 mL      | 1 mL                   | 1 mL                | 1 mL                |

| Batch Notes                       |                 |
|-----------------------------------|-----------------|
| Analyst                           | JL              |
| Balance ID                        | 25              |
| Blank Soil Lot Number             | 2958846         |
| Hydrogen peroxide lot number      | 3058307         |
| Lot # of hydrochloric acid        | 3119867         |
| Lot # of Nitric Acid              | 3095498         |
| Hood ID or number                 | FH-8            |
| Hot Block ID number               | 10              |
| Nominal Amount Used               | 1.0 g           |
| Oven, Bath or Block Temperature 1 | 97 Degrees C    |
| Oven, Bath or Block Temperature 2 | 97 Degrees C    |
| Pipette ID                        | ME4             |
| Perform Calculation (0=No, 1=Yes) | 0               |
| Temperature                       | 97 Degrees C    |
| ID number of the thermometer      | MEPREP15        |
| Digestion Tube/Cup Lot #          | J161651-263-100 |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278298 Batch Start Date: 05/29/13 10:33 Batch Analyst: Umbehr, Uli

Batch Method: 245.1 Batch End Date: 05/29/13 16:40

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | Initial pH | InitialAmount | FinalAmount | hg_icvint 00086 | Hg_Int_Cal<br>00092 | AnalysisComment    |
|----------------------|------------------|--------------|-------|------------|---------------|-------------|-----------------|---------------------|--------------------|
| MB 680-278298/1      |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       |                 |                     |                    |
| LCS<br>680-278298/2  |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       |                 | 0.25 mL             |                    |
| LCSD<br>680-278298/3 |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       |                 | 0.25 mL             |                    |
| 680-90557-C-1<br>MS  |                  | 245.1, 245.1 | T     | <2         | 50 mL         | 50 mL       |                 | 0.1 mL              |                    |
| 680-90557-C-1<br>MSD |                  | 245.1, 245.1 | T     | <2         | 50 mL         | 50 mL       |                 | 0.1 mL              |                    |
| 680-90622-C-15       | 052113-RB-Shovel | 245.1, 245.1 | T     | <2         | 50 mL         | 50 mL       |                 |                     |                    |
| CCV<br>680-278298/17 |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       |                 | 0.25 mL             |                    |
| CCB<br>680-278298/18 |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       |                 |                     |                    |
| ICV<br>680-278298/20 |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       | 0.15 mL         |                     |                    |
| ICB<br>680-278298/21 |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       |                 |                     |                    |
| CRA<br>680-278298/22 |                  | 245.1, 245.1 |       |            | 50 mL         | 50 mL       |                 | 0.02 mL             | 0.2 standard used. |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278298 Batch Start Date: 05/29/13 10:33 Batch Analyst: Umbeh, Uli

Batch Method: 245.1 Batch End Date: 05/29/13 16:40

| Batch Notes                            |                 |
|--|-----------------|
| Hydroxylamine Sulfate Lot Number       | 3080752         |
| Hydroxylamine Hydrochloride Lot        | 3127574         |
| Sulfuric Acid Lot Number               | 3056256         |
| Lot # of hydrochloric acid             | 3119928         |
| Lot # of Nitric Acid                   | 3095497         |
| Hood ID or number                      | 5, 6            |
| Hot Block ID number                    | 11, 12          |
| Potassium Persulfate Lot Number        | 3001729         |
| Potassium Permanganate Lot Number      | 2975605         |
| NaCL Lot #                             | 2980896         |
| Oven, Bath or Block Temperature 1      | 93 Degrees C    |
| Oven, Bath or Block Temperature 2      | 93 Degrees C    |
| Pipette ID                             | ME1, ME7, ME10  |
| Repittetor Volume Check                | 05/07/13        |
| Stannous Chloride Lot Number           | 3001829         |
| SOP Number                             | ME028           |
| Temperature                            | 95 Degrees C    |
| ID number of the thermometer           | ME10            |
| Digestion Tube/Cup Lot #               | J161651-263-100 |
| Visual ck - digestate F.V. consistency | Consistent      |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

245.1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278118 Batch Start Date: 05/28/13 09:49 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 05/29/13 12:00

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | hg_icvint 00086 | Hg_Int_Cal<br>00092 |  |  |
|----------------------|------------------|--------------|-------|---------------|-------------|-----------------|---------------------|--|--|
| CCV<br>680-278118/28 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 | 0.25 mL             |  |  |
| CCB<br>680-278118/29 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 |                     |  |  |
| ICV<br>680-278118/31 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       | 0.15 mL         |                     |  |  |
| ICB<br>680-278118/32 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 |                     |  |  |
| CRA<br>680-278118/33 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 | 0.02 mL             |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278118 Batch Start Date: 05/28/13 09:49 Batch Analyst: Umbeh, Uli

Batch Method: 7471A Batch End Date: 05/29/13 12:00

| Batch Notes                       |                 |
|-----------------------------------|-----------------|
| Hydroxylamine Sulfate Lot Number  | 3046703         |
| Hydroxylamine Hydrochloride Lot   | 3071776         |
| Aqua Regia Lot Number             | 3098917         |
| Balance ID                        | 27              |
| Blank Soil Lot Number             | 2021822         |
| Sulfuric Acid Lot Number          | 3056255         |
| Lot # of hydrochloric acid        | 3053715         |
| Lot # of Nitric Acid              | 3053246         |
| Hood ID or number                 | WB2             |
| Hot Block ID number               | 11, 12          |
| Potassium Persulfate Lot Number   | 2939890         |
| Potassium Permanganate Lot Number | 2975605         |
| NaCL Lot #                        | 2980895         |
| Nominal Amount Used               | 0.5 - 0.6 g g   |
| Oven, Bath or Block Temperature 1 | 96 Degrees C    |
| Oven, Bath or Block Temperature 2 | 96 Degrees C    |
| Pipette ID                        | ME1, ME7, ME10  |
| Repittetor Volume Check           | 05/07/13        |
| Stannous Chloride Lot Number      | 3001829         |
| SOP Number                        | ME028           |
| ID number of the thermometer      | ME9, ME10       |
| Digestion Tube/Cup Lot #          | J161651-263-100 |
| Uncorrected Temperature           | 96 Celsius      |
| Uncorrected Temperature 2         | 96 Celsius      |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278204 Batch Start Date: 05/28/13 13:51 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 05/29/13 12:00

| Lab Sample ID         | Client Sample ID         | Method Chain | Basis | InitialAmount | FinalAmount | Hg_Int_Cal<br>00092 |  |  |  |
|-----------------------|--------------------------|--------------|-------|---------------|-------------|---------------------|--|--|--|
| MB 680-278204/1       |                          | 7471B, 7471B |       | 0.59 g        | 50 mL       |                     |  |  |  |
| LCS<br>680-278204/2   |                          | 7471B, 7471B |       | 0.54 g        | 50 mL       | 0.25 mL             |  |  |  |
| 680-90622-B-13        | CV0626B-CS               | 7471B, 7471B | T     | 0.56 g        | 50 mL       |                     |  |  |  |
| 680-90622-B-13<br>MS  | CV0626B-CS               | 7471B, 7471B | T     | 0.52 g        | 50 mL       | 0.1 mL              |  |  |  |
| 680-90622-B-13<br>MSD | CV0626B-CS               | 7471B, 7471B | T     | 0.59 g        | 50 mL       | 0.1 mL              |  |  |  |
| 680-90622-A-14        | CV0626B-CS<br>(sieve)    | 7471B, 7471B | T     | 0.58 g        | 50 mL       |                     |  |  |  |
| 680-90622-B-20        | CV1358A-CS               | 7471B, 7471B | T     | 0.51 g        | 50 mL       |                     |  |  |  |
| 680-90622-B-21        | CV1358A-CSD              | 7471B, 7471B | T     | 0.56 g        | 50 mL       |                     |  |  |  |
| 680-90622-B-27        | CV1016A-CS-SP            | 7471B, 7471B | T     | 0.53 g        | 50 mL       |                     |  |  |  |
| 680-90622-A-40        | CV0828B-CS-SP<br>(sieve) | 7471B, 7471B | T     | 0.56 g        | 50 mL       |                     |  |  |  |
| 680-90622-A-41        | CV1016A-CS-SP<br>(sieve) | 7471B, 7471B | T     | 0.54 g        | 50 mL       |                     |  |  |  |
| 680-90622-A-42        | CV1358A-CS<br>(sieve)    | 7471B, 7471B | T     | 0.58 g        | 50 mL       |                     |  |  |  |
| 680-90622-A-43        | CV1358A-CSD<br>(sieve)   | 7471B, 7471B | T     | 0.51 g        | 50 mL       |                     |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278204 Batch Start Date: 05/28/13 13:51 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 05/29/13 12:00

| Batch Notes                       |                 |
|-----------------------------------|-----------------|
| Hydroxylamine Sulfate Lot Number  | 3080752         |
| Hydroxylamine Hydrochloride Lot   | 3127574         |
| Aqua Regia Lot Number             | 3098917         |
| Balance ID                        | 27              |
| Blank Soil Lot Number             | 2021822         |
| Sulfuric Acid Lot Number          | 3056255         |
| Lot # of hydrochloric acid        | 3053715         |
| Lot # of Nitric Acid              | 3053246         |
| Hood ID or number                 | WB2             |
| Hot Block ID number               | 11, 12          |
| Potassium Persulfate Lot Number   | 2939890         |
| Potassium Permanganate Lot Number | 2975605         |
| NaCL Lot #                        | 2980895         |
| Nominal Amount Used               | 0.5 - 0.6 g g   |
| Oven, Bath or Block Temperature 1 | 96 Degrees C    |
| Oven, Bath or Block Temperature 2 | 96 Degrees C    |
| Pipette ID                        | ME1, ME7, ME10  |
| Repittetor Volume Check           | 05/07/13        |
| Stannous Chloride Lot Number      | 3001829         |
| SOP Number                        | ME028           |
| ID number of the thermometer      | ME9, ME10       |
| Digestion Tube/Cup Lot #          | J161651-263-100 |
| Uncorrected Temperature           | 96 Celsius      |
| Uncorrected Temperature 2         | 96 Celsius      |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278513 Batch Start Date: 05/30/13 11:45 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 05/30/13 17:15

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | hg_icvint 00086 | Hg_Int_Cal<br>00092 | AnalysisComment       |  |
|----------------------|------------------|--------------|-------|---------------|-------------|-----------------|---------------------|-----------------------|--|
| CCV<br>680-278513/32 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 | 0.25 mL             |                       |  |
| CCB<br>680-278513/33 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 |                     |                       |  |
| ICV<br>680-278513/35 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       | 0.15 mL         |                     |                       |  |
| ICB<br>680-278513/36 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 |                     |                       |  |
| CRA<br>680-278513/37 |                  | 7471A, 7471B |       | 50 mL         | 50 mL       |                 | 0.02 mL             | 0.2 standard<br>used. |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278513 Batch Start Date: 05/30/13 11:45 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 05/30/13 17:15

| Batch Notes                       |                 |
|-----------------------------------|-----------------|
| Hydroxylamine Sulfate Lot Number  | 3080752         |
| Hydroxylamine Hydrochloride Lot   | 3127574         |
| Aqua Regia Lot Number             | 3098917         |
| Balance ID                        | 27              |
| Blank Soil Lot Number             | 2021822         |
| Sulfuric Acid Lot Number          | 3056255         |
| Lot # of hydrochloric acid        | 3053715         |
| Lot # of Nitric Acid              | 3053246         |
| Hood ID or number                 | WB2             |
| Hot Block ID number               | 11, 12          |
| Potassium Persulfate Lot Number   | 2939890         |
| Potassium Permanganate Lot Number | 2975605         |
| NaCL Lot #                        | 2980895         |
| Nominal Amount Used               | 0.5 - 0.6 g g   |
| Oven, Bath or Block Temperature 1 | 96 Degrees C    |
| Oven, Bath or Block Temperature 2 | 96 Degrees C    |
| Pipette ID                        | ME1, ME7, ME10  |
| Repittetor Volume Check           | 05/07/13        |
| Stannous Chloride Lot Number      | 3001829         |
| SOP Number                        | ME028           |
| ID number of the thermometer      | ME9, ME10       |
| Digestion Tube/Cup Lot #          | J161651-263-100 |
| Uncorrected Temperature           | 96 Celsius      |
| Uncorrected Temperature 2         | 96 Celsius      |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278555 Batch Start Date: 05/30/13 14:32 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 05/30/13 17:15

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | Hg_Int_Cal<br>00092 |  |  |  |
|-----------------------|------------------|--------------|-------|---------------|-------------|---------------------|--|--|--|
| MB 680-278555/1       |                  | 7471B, 7471B |       | 0.50 g        | 50 mL       |                     |  |  |  |
| LCS<br>680-278555/2   |                  | 7471B, 7471B |       | 0.54 g        | 50 mL       | 0.25 mL             |  |  |  |
| 680-90622-A-30        | CV0828B-CS-SP    | 7471B, 7471B | T     | 0.54 g        | 50 mL       |                     |  |  |  |
| 680-90622-A-30<br>MS  | CV0828B-CS-SP    | 7471B, 7471B | T     | 0.53 g        | 50 mL       | 0.1 mL              |  |  |  |
| 680-90622-A-30<br>MSD | CV0828B-CS-SP    | 7471B, 7471B | T     | 0.55 g        | 50 mL       | 0.1 mL              |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-90622-3

SDG No.: 68090622-3

Batch Number: 278555 Batch Start Date: 05/30/13 14:32 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 05/30/13 17:15

| Batch Notes                       |                 |
|-----------------------------------|-----------------|
| Hydroxylamine Sulfate Lot Number  | 3080752         |
| Hydroxylamine Hydrochloride Lot   | 3127574         |
| Aqua Regia Lot Number             | 3098917         |
| Balance ID                        | 27              |
| Blank Soil Lot Number             | 2021822         |
| Sulfuric Acid Lot Number          | 3056255         |
| Lot # of hydrochloric acid        | 3053715         |
| Lot # of Nitric Acid              | 3053246         |
| Hood ID or number                 | WB2             |
| Hot Block ID number               | 11, 12          |
| Potassium Persulfate Lot Number   | 2939890         |
| Potassium Permanganate Lot Number | 2975605         |
| NaCL Lot #                        | 2980895         |
| Nominal Amount Used               | 0.5 - 0.6 g g   |
| Oven, Bath or Block Temperature 1 | 96 Degrees C    |
| Oven, Bath or Block Temperature 2 | 96 Degrees C    |
| Pipette ID                        | ME1, ME7, ME10  |
| Repittetor Volume Check           | 05/07/13        |
| Stannous Chloride Lot Number      | 3001829         |
| SOP Number                        | ME028           |
| ID number of the thermometer      | ME9, ME10       |
| Digestion Tube/Cup Lot #          | J161651-263-100 |
| Uncorrected Temperature           | 96 Celsius      |
| Uncorrected Temperature 2         | 96 Celsius      |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location:  
**Test Am Tampa**

Phone: **680-90622**  
Fax:

|   |                                    |                                       |              |                   |                           |
|---|------------------------------------|---------------------------------------|--------------|-------------------|---------------------------|
| PROJECT REFERENCE<br><b>35<sup>th</sup> Ave Removal</b> | PROJECT NO.<br><b>2005148-1356</b> | PROJECT LOCATION (STATE)<br><b>AZ</b> | MATRIX TYPE: | REQUIRED ANALYSIS | PAGE <b>2</b> OF <b>4</b> |
|---|------------------------------------|---------------------------------------|--------------|-------------------|---------------------------|

|   |              |              |       |  |
|---|--------------|--------------|-------|--|
| TAL (LAB) PROJECT MANAGER<br><b>Lisa Harvey</b> | P.O. NUMBER  | CONTRACT NO. | ICATE | STANDARD REPORT DELIVERY <input type="radio"/> |
| CLIENT (S/F/T) PM                               | CLIENT PHONE | CLIENT FAX   |       | DATE DUE                                       |

|       |                 |                    |     |                                       |          |
|-------|-----------------|--------------------|-----|---------------------------------------|----------|
| ICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | DATE DUE |
|       |                 |                    |     | <b>W. PAH</b>                         |          |
|       |                 |                    |     | <b>Metals</b>                         |          |

|                     |  |  |  |   |          |
|---------------------|--|--|--|---|----------|
| <b>PRESERVATIVE</b> |  |  |  | EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/> | DATE DUE |
|                     |  |  |  | NUMBER OF COOLERS SUBMITTED PER SHIPMENT:                   |          |

| SAMPLE DATE | TIME | SAMPLE IDENTIFICATION | COMPOS | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED |  |  |  | REMARKS |        |
|-------------|------|-----------------------|--------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|--|--|--|---------|--------|
|             |      |                       |        |                 |                    |     |                                       |                                |  |  |  |         |        |
| 5-20-13     | 1445 | CV0626B-CS            | C      | X               |                    |     | X                                     | X                              |  |  |  |         |        |
| 5-20-13     | 1445 | CV0626B-CS (sieve)    | C      | X               |                    |     | X                                     |                                |  |  |  |         |        |
| 5-21-13     | 1135 | 052113-RB-Shovel      |        | X               |                    |     | X                                     | X                              |  |  |  |         |        |
| 5-21-13     | 0855 | CV0747A-CS            | C      | X               |                    |     | X                                     |                                |  |  |  |         |        |
|             | 0855 | CV0747A-CSD           | C      | X               |                    |     | X                                     |                                |  |  |  |         |        |
|             | 1050 | CV1351A-CS            | C      | X               |                    |     | X                                     |                                |  |  |  |         |        |
|             | 1040 | CV1351B-CS            | C      | X               |                    |     | X                                     |                                |  |  |  |         |        |
|             | 0930 | CV1358A-CS            | C      | X               |                    |     | X                                     | X                              |  |  |  |         |        |
|             | 0930 | CV1358A-CSD           | C      | X               |                    |     | X                                     | X                              |  |  |  |         |        |
|             | 0940 | CV1358B-CS            | C      | X               |                    |     | X                                     |                                |  |  |  |         |        |
|             | 0951 | CV0525A-CS-SP         | C      | X               |                    |     | X                                     |                                |  |  |  |         |        |
|             | 1005 | CV0525B-CS-SP         | C      | X               |                    |     | X                                     |                                |  |  |  |         | ms/msw |

|  |                 |              |                              |      |      |                              |      |      |
|--|-----------------|--------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br>5-22-13 | TIME<br>1330 | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br>5/23/13 | TIME<br>0930 | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |      |      |   |                  |                  |                    |
|---|------|------|---|------------------|------------------|--------------------|
| LABORATORY USE ONLY                     |      |      |   |                  |                  |                    |
| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |

**(b) (6)**

Serial Number 64605

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
*Test Am Tampa*

Phone: *680-90622*  
Fax:

|   |                               |                                       |                                     |  |                           |
|---|-------------------------------|---------------------------------------|-------------------------------------|--|---------------------------|
| PROJECT REFERENCE<br><i>35th Ave Removal</i>    | PROJECT NO.<br><i>2005148</i> | PROJECT LOCATION (STATE)<br><i>AL</i> | MATRIX TYPE                         | REQUIRED ANALYSIS                              | PAGE <i>3</i> OF <i>4</i> |
| TAL (LAB) PROJECT MANAGER<br><i>Lisa Harven</i> | P.O. NUMBER                   | CONTRACT NO.                          | COMPOSITE (C) OR GRAB (G) INDICATE. | STANDARD REPORT DELIVERY <input type="radio"/> | DATE DUE _____            |

**(b) (6)**

|   |                                     |                 |                    |     |                                       |   |
|---|-------------------------------------|-----------------|--------------------|-----|---------------------------------------|---|
| COMPONENT CONTRACTING THIS WORK (if applicable) | COMPOSITE (C) OR GRAB (G) INDICATE. | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | REMARKS   |
|   |                                     |                 |                    |     | <i>ALL PAH</i>                        |   |
|   |                                     |                 |                    |     | <i>PCPA &amp; Metals</i>              |   |
|   |                                     |                 |                    |     | <b>PRESERVATIVE</b>                   | NUMBER OF COOLERS SUBMITTED PER SHIPMENT: _____ |

| SAMPLE DATE    | SAMPLE TIME | SAMPLE IDENTIFICATION     | COMPOSITE (C) OR GRAB (G) INDICATE. | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED | REMARKS |
|----------------|-------------|---------------------------|-------------------------------------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|---------|
| <i>5-21-13</i> | <i>0907</i> | <i>CV 0729A - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>0921</i> | <i>CV 0729B - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1058</i> | <i>CV 1026A - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              | <i>X</i>                       |         |
|                | <i>1500</i> | <i>FM 0217A - CS</i>      | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1343</i> | <i>CV 0828A - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1402</i> | <i>CV 0828B - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              | <i>X</i>                       |         |
|                | <i>1355</i> | <i>CV 0828C - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1430</i> | <i>CV 0838A - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1441</i> | <i>CV 0838B - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1515</i> | <i>CV 0912A - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1522</i> | <i>CV 0912B - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |
|                | <i>1540</i> | <i>CV 0912C - CS - SP</i> | <i>C</i>                            | <i>X</i>        |                    |     | <i>X</i>                              |                                |         |

|  |                        |                     |                              |      |      |                              |      |      |
|--|------------------------|---------------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br><i>5-22-13</i> | TIME<br><i>1330</i> | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br><i>5/23/13</i> | TIME<br><i>0930</i> | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |      |      |   |                  |                  |                    |
|---|------|------|---|------------------|------------------|--------------------|
| LABORATORY USE ONLY                     |      |      |   |                  |                  |                    |
| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |

Serial Number 64606

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test Am Tampa

Phone:  
Fax:

680-90622

|   |                                    |                                       |             |                   |  |                |
|---|------------------------------------|---------------------------------------|-------------|-------------------|--|----------------|
| PROJECT REFERENCE<br><i>35th Ave Removal</i>      | PROJECT NO.<br><i>2005148-1356</i> | PROJECT LOCATION (STATE)<br><i>AL</i> | MATRIX TYPE | REQUIRED ANALYSIS | PAGE<br><i>4</i>   | OF<br><i>4</i> |
| TAL (LAB) PROJECT MANAGER<br><i>Steve Harvick</i> | P.O. NUMBER                        | CONTRACT NO.                          |             |                   | STANDARD REPORT DELIVERY<br>DATE DUE _____<br><br>EXPEDITED REPORT DELIVERY (SURCHARGE)<br><i>10 Calendar Days</i><br>DATE DUE _____ |                |

**(b) (6)**

|        |                 |                    |     |                                       |                                |  |  |  |  |  |  |  |  |  |   |
|--------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|---|
| COMPOS | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | PRESERVATIVE                   |  |  |  |  |  |  |  |  |  | NUMBER OF COOLERS SUBMITTED PER SHIPMENT: |
|        |                 |                    |     |                                       | NUMBER OF CONTAINERS SUBMITTED |  |  |  |  |  |  |  |  |  | REMARKS                                   |

| SAMPLE         |             | SAMPLE IDENTIFICATION             | COMPOS   | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED |  |  |  |  |  |  |  |  |  | REMARKS |  |
|----------------|-------------|-----------------------------------|----------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|--|---------|--|
| DATE           | TIME        |                                   |          |                 |                    |     |                                       |                                |  |  |  |  |  |  |  |  |  |         |  |
| <i>5-21-13</i> | <i>1550</i> | <i>CV 6912D - CS - SP</i>         | <i>C</i> | <i>X</i>        |                    |     | <i>X</i>                              |                                |  |  |  |  |  |  |  |  |  |         |  |
|                | <i>1303</i> | <i>CV 1189A - CS - SP</i>         | <i>C</i> | <i>X</i>        |                    |     | <i>X</i>                              |                                |  |  |  |  |  |  |  |  |  |         |  |
|                | <i>1315</i> | <i>CV 1189B - CS - SP</i>         | <i>C</i> | <i>X</i>        |                    |     | <i>X</i>                              |                                |  |  |  |  |  |  |  |  |  |         |  |
|                | <i>1402</i> | <i>CV 6828B - CS - SP (sieve)</i> | <i>C</i> | <i>X</i>        |                    |     |                                       | <i>X</i>                       |  |  |  |  |  |  |  |  |  |         |  |
|                | <i>1058</i> | <i>CV 1616A - CS - SP (sieve)</i> | <i>C</i> | <i>X</i>        |                    |     |                                       | <i>X</i>                       |  |  |  |  |  |  |  |  |  |         |  |
|                | <i>0930</i> | <i>CV 1358A - CS (sieve)</i>      | <i>C</i> | <i>X</i>        |                    |     |                                       | <i>X</i>                       |  |  |  |  |  |  |  |  |  |         |  |
|                | <i>0930</i> | <i>CV 1358A - CSD (sieve)</i>     | <i>C</i> | <i>X</i>        |                    |     |                                       | <i>X</i>                       |  |  |  |  |  |  |  |  |  |         |  |

|  |                        |                     |                              |      |      |                              |      |      |
|--|------------------------|---------------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br><i>5-22-13</i> | TIME<br><i>1330</i> | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br><i>5/23/13</i> | TIME<br><i>0930</i> | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |      |      |   |                  |                  |                    |
|---|------|------|---|------------------|------------------|--------------------|
| LABORATORY USE ONLY                     |      |      |   |                  |                  |                    |
| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |











## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

SDG Number: 68090622-3

**Login Number: 90622**  
**List Number: 1**  
**Creator: Snead, Joshua**

**List Source: TestAmerica Savannah**

| Question   | Answer | Comment                                 |
|--|--------|---|
| Radioactivity wasn't checked or is <= background as measured by a survey meter.  | N/A    |   |
| The cooler's custody seal, if present, is intact.                                | True   |   |
| Sample custody seals, if present, are intact.                                    | True   |   |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |   |
| Samples were received on ice.  | True   |   |
| Cooler Temperature is acceptable.  | True   |   |
| Cooler Temperature is recorded.  | True   |   |
| COC is present.  | True   |   |
| COC is filled out in ink and legible.  | True   |   |
| COC is filled out with all pertinent information.                                | True   |   |
| Is the Field Sampler's name present on COC?                                      | True   |   |
| There are no discrepancies between the containers received and the COC.          | False  | IDs on containers do not match the COC. |
| Samples are received within Holding Time.  | True   |   |
| Sample containers have legible labels.   | True   |   |
| Containers are not broken or leaking.  | True   |   |
| Sample collection date/times are provided.                                       | True   |   |
| Appropriate sample containers are used.  | True   |   |
| Sample bottles are completely filled.  | True   |   |
| Sample Preservation Verified.  | N/A    |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |   |
| Multiphasic samples are not present.   | True   |   |
| Samples do not require splitting or compositing.                                 | True   |   |
| Residual Chlorine Checked.   | N/A    |   |

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

SDG Number: 68090622-3

**Login Number: 90622**  
**List Number: 1**  
**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**  
**List Creation: 05/23/13 02:38 PM**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time.  | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404  
Tel: (912)354-7858

TestAmerica Job ID: 680-90622-3

TestAmerica Sample Delivery Group: 68090622-3  
Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC  
1220 Kennestone Circle  
Suite 106  
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:  
6/5/2013 5:08:34 PM

Bernard Kirkland, Project Manager I  
(912)354-7858 e.3238

[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey, Project Manager II  
[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

### LINKS

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results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

**Job ID: 680-90622-3**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-90622-3**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

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

### **RECEIPT**

The samples were received on 05/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 5.6° C.

Except:

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): CV0003B-GS (680-90622-8), HP0068A-CS (680-90622-9), HP0068A-CSD (680-90622-10). The container labels list HP0068A-CSD. The COC lists CV0068A-CSD. Based on feedback from the client, the COC was incorrect, and the samples should be identified as HP-0003B-GS, HP-9968A CS, and HP 0068A CSD

### **METALS (ICP)-Waters**

Sample 052113-RB-Shovel (680-90622-15) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 05/28/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

### **TOTAL MERCURY-Waters**

Sample 052113-RB-Shovel (680-90622-15) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 05/29/2013 and analyzed on 05/30/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample 680-90557-1 in batch 680-278688.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.



## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

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### Job ID: 680-90622-3 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

##### METALS (ICP)

Samples CV0626B-CS (680-90622-13), CV0626B-CS (sieve) (680-90622-14), CV1358A-CS (680-90622-20), CV1358A-CSD (680-90622-21), CV1016A-CS-SP (680-90622-27), CV0828B-CS-SP (680-90622-30), CV0828B-CS-SP (sieve) (680-90622-40), CV1016A-CS-SP (sieve) (680-90622-41), CV1358A-CS (sieve) (680-90622-42) and CV1358A-CSD (sieve) (680-90622-43) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/28/2013 and 05/30/2013 and analyzed on 05/30/2013 and 05/31/2013.

Barium and Lead recovered outside the recovery criteria for the MS/MSD of sample CV0626B-CS (680-90622-13) in batch 680-278654.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0828B-CS-SP (680-90622-30) in batch 680-278654. Barium and Cadmium exceeded the RPD limit.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

##### TOTAL MERCURY

Samples CV0626B-CS (680-90622-13), CV0626B-CS (sieve) (680-90622-14), CV1358A-CS (680-90622-20), CV1358A-CSD (680-90622-21), CV1016A-CS-SP (680-90622-27), CV0828B-CS-SP (680-90622-30), CV0828B-CS-SP (sieve) (680-90622-40), CV1016A-CS-SP (sieve) (680-90622-41), CV1358A-CS (sieve) (680-90622-42) and CV1358A-CSD (sieve) (680-90622-43) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 05/28/2013 and 05/30/2013 and analyzed on 05/30/2013 and 05/31/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0626B-CS (680-90622-13) in batch 680-278549.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0828B-CS-SP (680-90622-30) in batch 680-278834.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       |
|---------------|-----------------------|--------|----------------|----------------|
| 680-90622-13  | CV0626B-CS            | Solid  | 05/20/13 14:45 | 05/23/13 09:30 |
| 680-90622-14  | CV0626B-CS (sieve)    | Solid  | 05/20/13 14:45 | 05/23/13 09:30 |
| 680-90622-15  | 052113-RB-Shovel      | Water  | 05/21/13 11:35 | 05/23/13 09:30 |
| 680-90622-20  | CV1358A-CS            | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |
| 680-90622-21  | CV1358A-CSD           | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |
| 680-90622-27  | CV1016A-CS-SP         | Solid  | 05/21/13 10:58 | 05/23/13 09:30 |
| 680-90622-30  | CV0828B-CS-SP         | Solid  | 05/21/13 14:02 | 05/23/13 09:30 |
| 680-90622-40  | CV0828B-CS-SP (sieve) | Solid  | 05/21/13 14:02 | 05/23/13 09:30 |
| 680-90622-41  | CV1016A-CS-SP (sieve) | Solid  | 05/21/13 10:58 | 05/23/13 09:30 |
| 680-90622-42  | CV1358A-CS (sieve)    | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |
| 680-90622-43  | CV1358A-CSD (sieve)   | Solid  | 05/21/13 09:30 | 05/23/13 09:30 |

# Method Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

| Method        | Method Description  | Protocol  | Laboratory |
|---------------|---|-----------|------------|
| 200.7 Rev 4.4 | Metals (ICP)  | 40CFR136A | TAL SAV    |
| 245.1         | Mercury (CVAA)  | EPA       | TAL SAV    |
| 6010C         | Metals (ICP)  | SW846     | TAL SAV    |
| 7471B         | Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) | SW846     | TAL SAV    |
| Moisture      | Percent Moisture  | EPA       | TAL TAM    |
| Moisture      | Percent Moisture  | EPA       | TAL SAV    |

#### Protocol References:

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

EPA = US Environmental Protection Agency

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

#### Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

## Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

### Qualifiers

#### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| U         | Indicates the analyte was analyzed for but not detected.  |
| F         | MS or MSD exceeds the control limits  |
| 4         | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |
| F         | RPD of the MS and MSD exceeds the control limits  |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

**Client Sample ID: CV0626B-CS**

**Lab Sample ID: 680-90622-13**

Date Collected: 05/20/13 14:45

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 79.1

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 26     |           | 2.5  | 0.74 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Barium   | 260    |           | 1.3  | 0.38 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Cadmium  | 1.0    |           | 0.63 | 0.13 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Chromium | 40     |           | 1.3  | 0.63 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Lead     | 260    |           | 1.3  | 0.66 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Selenium | 3.1    | U         | 3.1  | 1.3  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |
| Silver   | 1.3    | U         | 1.3  | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:21 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.33   |           | 0.023 | 0.0093 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 12:54 | 1       |

**Client Sample ID: CV0626B-CS (sieve)**

**Lab Sample ID: 680-90622-14**

Date Collected: 05/20/13 14:45

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 86.3

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 25     |           | 2.2  | 0.65 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Barium   | 260    |           | 1.1  | 0.33 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Cadmium  | 1.2    |           | 0.55 | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Chromium | 42     |           | 1.1  | 0.55 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Lead     | 310    |           | 1.1  | 0.58 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Selenium | 1.5    | J         | 2.7  | 1.1  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |
| Silver   | 1.1    | U         | 1.1  | 0.10 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:44 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.28   |           | 0.020 | 0.0082 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:02 | 1       |

**Client Sample ID: 052113-RB-Shovel**

**Lab Sample ID: 680-90622-15**

Date Collected: 05/21/13 11:35

Matrix: Water

Date Received: 05/23/13 09:30

**Method: 200.7 Rev 4.4 - Metals (ICP)**

| Analyte  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Arsenic  | 20     | U         | 20  | 4.6  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Barium   | 10     | U         | 10  | 2.3  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Cadmium  | 5.0    | U         | 5.0 | 2.0  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Chromium | 10     | U         | 10  | 1.2  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Lead     | 10     | U         | 10  | 4.0  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Selenium | 20     | U         | 20  | 6.4  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |
| Silver   | 10     | U         | 10  | 0.89 | ug/L |   | 05/28/13 09:59 | 05/28/13 23:57 | 1       |

**Method: 245.1 - Mercury (CVAA)**

| Analyte | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Mercury | 0.20   | U         | 0.20 | 0.091 | ug/L |   | 05/29/13 10:33 | 05/30/13 19:09 | 1       |

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Client Sample ID: CV1358A-CS

## Lab Sample ID: 680-90622-20

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 76.2

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 27     |           | 2.5  | 0.73 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Barium   | 340    |           | 1.2  | 0.37 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Cadmium  | 3.4    |           | 0.62 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Chromium | 60     |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Lead     | 390    |           | 1.2  | 0.66 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Selenium | 3.1    | U         | 3.1  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:49 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.30   |           | 0.026 | 0.011 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:04 | 1       |

## Client Sample ID: CV1358A-CSD

## Lab Sample ID: 680-90622-21

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 74.9

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 29     |           | 2.3  | 0.69 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Barium   | 380    |           | 1.2  | 0.35 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Cadmium  | 3.3    |           | 0.59 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Chromium | 63     |           | 1.2  | 0.59 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Lead     | 450    |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Selenium | 1.2    | J         | 2.9  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 15:54 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.34   |           | 0.024 | 0.0098 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:12 | 1       |

## Client Sample ID: CV1016A-CS-SP

## Lab Sample ID: 680-90622-27

Date Collected: 05/21/13 10:58

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 78.8

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 35     |           | 2.3  | 0.67 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Barium   | 320    |           | 1.1  | 0.34 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Cadmium  | 2.4    |           | 0.57 | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Chromium | 43     |           | 1.1  | 0.57 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Lead     | 370    |           | 1.1  | 0.60 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Selenium | 2.8    | U         | 2.8  | 1.1  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |
| Silver   | 0.30   | J         | 1.1  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:07 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.31   |           | 0.024 | 0.0098 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:14 | 1       |

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Client Sample ID: CV0828B-CS-SP

## Lab Sample ID: 680-90622-30

Date Collected: 05/21/13 14:02

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 75.6

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 33     |           | 2.6  | 0.77 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Barium   | 290    |           | 1.3  | 0.39 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Cadmium  | 1.5    |           | 0.65 | 0.13 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Chromium | 54     |           | 1.3  | 0.65 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Lead     | 310    |           | 1.3  | 0.69 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Selenium | 1.4    | J         | 3.3  | 1.3  | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |
| Silver   | 0.27   | J         | 1.3  | 0.13 | mg/Kg | ☼ | 05/30/13 11:02 | 05/31/13 01:28 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.16   |           | 0.024 | 0.010 | mg/Kg | ☼ | 05/30/13 14:32 | 05/31/13 19:08 | 1       |

## Client Sample ID: CV0828B-CS-SP (sieve)

## Lab Sample ID: 680-90622-40

Date Collected: 05/21/13 14:02

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 90.0

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 40     |           | 2.2  | 0.64 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Barium   | 260    |           | 1.1  | 0.32 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Cadmium  | 1.9    |           | 0.54 | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Chromium | 59     |           | 1.1  | 0.54 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Lead     | 340    |           | 1.1  | 0.57 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Selenium | 2.7    | U         | 2.7  | 1.1  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |
| Silver   | 0.51   | J         | 1.1  | 0.10 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:12 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.25   |           | 0.020 | 0.0081 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:17 | 1       |

## Client Sample ID: CV1016A-CS-SP (sieve)

## Lab Sample ID: 680-90622-41

Date Collected: 05/21/13 10:58

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 77.9

### Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 37     |           | 2.4  | 0.72 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Barium   | 350    |           | 1.2  | 0.37 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Cadmium  | 2.5    |           | 0.61 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Chromium | 40     |           | 1.2  | 0.61 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Lead     | 420    |           | 1.2  | 0.65 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Selenium | 1.8    | J         | 3.1  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |
| Silver   | 0.32   | J         | 1.2  | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:16 | 1       |

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.44   |           | 0.024 | 0.0098 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:19 | 1       |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

**Client Sample ID: CV1358A-CS (sieve)**

**Lab Sample ID: 680-90622-42**

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 81.6

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 30     |           | 2.3  | 0.69 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Barium   | 390    |           | 1.2  | 0.35 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Cadmium  | 3.3    |           | 0.58 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Chromium | 63     |           | 1.2  | 0.58 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Lead     | 390    |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Selenium | 2.9    | U         | 2.9  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:21 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.35   |           | 0.021 | 0.0087 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:21 | 1       |

**Client Sample ID: CV1358A-CSD (sieve)**

**Lab Sample ID: 680-90622-43**

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 81.5

**Method: 6010C - Metals (ICP)**

| Analyte  | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 28     |           | 2.3  | 0.69 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Barium   | 340    |           | 1.2  | 0.35 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Cadmium  | 3.2    |           | 0.58 | 0.12 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Chromium | 71     |           | 1.2  | 0.58 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Lead     | 400    |           | 1.2  | 0.62 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Selenium | 1.5    | J         | 2.9  | 1.2  | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |
| Silver   | 1.2    | U         | 1.2  | 0.11 | mg/Kg | ☼ | 05/28/13 12:24 | 05/30/13 16:26 | 1       |

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.42   |           | 0.024 | 0.0099 | mg/Kg | ☼ | 05/28/13 13:51 | 05/30/13 13:24 | 1       |



# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 680-278125/1-A**  
**Matrix: Water**  
**Analysis Batch: 278301**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 278125**

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Arsenic  | 20        | U            | 20  | 4.6  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:48 | 1       |
| Barium   | 10        | U            | 10  | 2.3  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:48 | 1       |
| Cadmium  | 5.0       | U            | 5.0 | 2.0  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:48 | 1       |
| Chromium | 10        | U            | 10  | 1.2  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:48 | 1       |
| Lead     | 10        | U            | 10  | 4.0  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:48 | 1       |
| Selenium | 20        | U            | 20  | 6.4  | ug/L |   | 05/28/13 09:59 | 05/28/13 23:48 | 1       |
| Silver   | 10        | U            | 10  | 0.89 | ug/L |   | 05/28/13 09:59 | 05/28/13 23:48 | 1       |

**Lab Sample ID: LCS 680-278125/2-A**  
**Matrix: Water**  
**Analysis Batch: 278301**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 278125**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic  | 100         | 108        |               | ug/L |   | 108  | 85 - 115     |
| Barium   | 100         | 97.3       |               | ug/L |   | 97   | 85 - 115     |
| Cadmium  | 50.0        | 51.4       |               | ug/L |   | 103  | 85 - 115     |
| Chromium | 100         | 101        |               | ug/L |   | 101  | 85 - 115     |
| Lead     | 50.0        | 50.0       |               | ug/L |   | 100  | 85 - 115     |
| Selenium | 100         | 98.4       |               | ug/L |   | 98   | 85 - 115     |
| Silver   | 50.0        | 49.7       |               | ug/L |   | 99   | 85 - 115     |

**Lab Sample ID: 680-90622-15 MS**  
**Matrix: Water**  
**Analysis Batch: 278301**

**Client Sample ID: 052113-RB-Shovel**  
**Prep Type: Total/NA**  
**Prep Batch: 278125**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Arsenic  | 20            | U                | 100         | 110       |              | ug/L |   | 110  | 75 - 125     |
| Barium   | 10            | U                | 100         | 95.9      |              | ug/L |   | 96   | 75 - 125     |
| Cadmium  | 5.0           | U                | 50.0        | 50.6      |              | ug/L |   | 101  | 75 - 125     |
| Chromium | 10            | U                | 100         | 100       |              | ug/L |   | 100  | 75 - 125     |
| Lead     | 10            | U                | 50.0        | 48.5      |              | ug/L |   | 97   | 75 - 125     |
| Selenium | 20            | U                | 100         | 104       |              | ug/L |   | 104  | 75 - 125     |
| Silver   | 10            | U                | 50.0        | 49.8      |              | ug/L |   | 100  | 75 - 125     |

**Lab Sample ID: 680-90622-15 MSD**  
**Matrix: Water**  
**Analysis Batch: 278301**

**Client Sample ID: 052113-RB-Shovel**  
**Prep Type: Total/NA**  
**Prep Batch: 278125**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Arsenic  | 20            | U                | 100         | 106        |               | ug/L |   | 106  | 75 - 125     | 4   | 20        |
| Barium   | 10            | U                | 100         | 96.6       |               | ug/L |   | 97   | 75 - 125     | 1   | 20        |
| Cadmium  | 5.0           | U                | 50.0        | 51.0       |               | ug/L |   | 102  | 75 - 125     | 1   | 20        |
| Chromium | 10            | U                | 100         | 101        |               | ug/L |   | 101  | 75 - 125     | 1   | 20        |
| Lead     | 10            | U                | 50.0        | 51.9       |               | ug/L |   | 104  | 75 - 125     | 7   | 20        |
| Selenium | 20            | U                | 100         | 97.0       |               | ug/L |   | 97   | 75 - 125     | 7   | 20        |
| Silver   | 10            | U                | 50.0        | 49.8       |               | ug/L |   | 100  | 75 - 125     | 0   | 20        |

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-278298/1-A  
 Matrix: Water  
 Analysis Batch: 278688

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 278298

| Analyte | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Mercury | 0.20      | U            | 0.20 | 0.091 | ug/L |   | 05/29/13 10:33 | 05/30/13 18:48 | 1       |

Lab Sample ID: LCS 680-278298/2-A  
 Matrix: Water  
 Analysis Batch: 278688

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 278298

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 2.50        | 2.61       |               | ug/L |   | 105  | 85 - 115     |

Lab Sample ID: LCSD 680-278298/3-A  
 Matrix: Water  
 Analysis Batch: 278688

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 278298

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Mercury | 2.50        | 2.67        |                | ug/L |   | 107  | 85 - 115     | 2   | 20        |

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-278184/1-A  
 Matrix: Solid  
 Analysis Batch: 278654

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 278184

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic  | 2.0       | U            | 2.0  | 0.59  | mg/Kg |   | 05/28/13 12:24 | 05/30/13 15:12 | 1       |
| Barium   | 1.0       | U            | 1.0  | 0.30  | mg/Kg |   | 05/28/13 12:24 | 05/30/13 15:12 | 1       |
| Cadmium  | 0.50      | U            | 0.50 | 0.10  | mg/Kg |   | 05/28/13 12:24 | 05/30/13 15:12 | 1       |
| Chromium | 1.0       | U            | 1.0  | 0.50  | mg/Kg |   | 05/28/13 12:24 | 05/30/13 15:12 | 1       |
| Lead     | 1.0       | U            | 1.0  | 0.53  | mg/Kg |   | 05/28/13 12:24 | 05/30/13 15:12 | 1       |
| Selenium | 2.5       | U            | 2.5  | 1.0   | mg/Kg |   | 05/28/13 12:24 | 05/30/13 15:12 | 1       |
| Silver   | 1.0       | U            | 1.0  | 0.096 | mg/Kg |   | 05/28/13 12:24 | 05/30/13 15:12 | 1       |

Lab Sample ID: LCS 680-278184/2-A  
 Matrix: Solid  
 Analysis Batch: 278654

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 278184

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic  | 9.80        | 10.3       |               | mg/Kg |   | 105  | 75 - 125     |
| Barium   | 9.80        | 9.95       |               | mg/Kg |   | 102  | 75 - 125     |
| Cadmium  | 4.90        | 5.03       |               | mg/Kg |   | 103  | 75 - 125     |
| Chromium | 9.80        | 10.1       |               | mg/Kg |   | 103  | 75 - 125     |
| Lead     | 4.90        | 4.85       |               | mg/Kg |   | 99   | 75 - 125     |
| Selenium | 9.80        | 10.3       |               | mg/Kg |   | 105  | 75 - 125     |
| Silver   | 4.90        | 4.93       |               | mg/Kg |   | 101  | 75 - 125     |

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-90622-13 MS

Matrix: Solid

Analysis Batch: 278654

Client Sample ID: CV0626B-CS

Prep Type: Total/NA

Prep Batch: 278184

| Analyte  | Sample | Sample    | Spike | MS MS  |           | Unit  | D | %Rec | %Rec.    |        |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|
|          | Result | Qualifier |       | Result | Qualifier |       |   |      | Limits   | Limits |
| Arsenic  | 26     |           | 12.6  | 42.0   |           | mg/Kg | ☼ | 123  | 75 - 125 |        |
| Barium   | 260    |           | 12.6  | 317    | 4         | mg/Kg | ☼ | 471  | 75 - 125 |        |
| Cadmium  | 1.0    |           | 6.32  | 7.25   |           | mg/Kg | ☼ | 98   | 75 - 125 |        |
| Chromium | 40     |           | 12.6  | 53.7   |           | mg/Kg | ☼ | 107  | 75 - 125 |        |
| Lead     | 260    |           | 6.32  | 306    | 4         | mg/Kg | ☼ | 739  | 75 - 125 |        |
| Selenium | 3.1    | U         | 12.6  | 12.9   |           | mg/Kg | ☼ | 102  | 75 - 125 |        |
| Silver   | 1.3    | U         | 6.32  | 6.11   |           | mg/Kg | ☼ | 97   | 75 - 125 |        |

Lab Sample ID: 680-90622-13 MSD

Matrix: Solid

Analysis Batch: 278654

Client Sample ID: CV0626B-CS

Prep Type: Total/NA

Prep Batch: 278184

| Analyte  | Sample | Sample    | Spike | MSD MSD |           | Unit  | D | %Rec | %Rec.    |        | RPD |       |
|----------|--------|-----------|-------|---------|-----------|-------|---|------|----------|--------|-----|-------|
|          | Result | Qualifier |       | Result  | Qualifier |       |   |      | Limits   | Limits | RPD | Limit |
| Arsenic  | 26     |           | 12.6  | 40.5    |           | mg/Kg | ☼ | 111  | 75 - 125 | 4      | 20  |       |
| Barium   | 260    |           | 12.6  | 302     | 4         | mg/Kg | ☼ | 355  | 75 - 125 | 5      | 20  |       |
| Cadmium  | 1.0    |           | 6.32  | 6.99    |           | mg/Kg | ☼ | 94   | 75 - 125 | 4      | 20  |       |
| Chromium | 40     |           | 12.6  | 51.8    |           | mg/Kg | ☼ | 92   | 75 - 125 | 4      | 20  |       |
| Lead     | 260    |           | 6.32  | 282     | 4         | mg/Kg | ☼ | 355  | 75 - 125 | 8      | 20  |       |
| Selenium | 3.1    | U         | 12.6  | 13.0    |           | mg/Kg | ☼ | 103  | 75 - 125 | 1      | 20  |       |
| Silver   | 1.3    | U         | 6.32  | 6.10    |           | mg/Kg | ☼ | 96   | 75 - 125 | 0      | 20  |       |

Lab Sample ID: MB 680-278504/1-A

Matrix: Solid

Analysis Batch: 278654

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 278504

| Analyte  | MB MB  |           | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil | Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|-----|-----|
|          | Result | Qualifier |      |       |       |   |                |                |     |     |
| Arsenic  | 2.0    | U         | 2.0  | 0.58  | mg/Kg |   | 05/30/13 11:02 | 05/31/13 01:09 |     | 1   |
| Barium   | 0.98   | U         | 0.98 | 0.29  | mg/Kg |   | 05/30/13 11:02 | 05/31/13 01:09 |     | 1   |
| Cadmium  | 0.49   | U         | 0.49 | 0.098 | mg/Kg |   | 05/30/13 11:02 | 05/31/13 01:09 |     | 1   |
| Chromium | 0.98   | U         | 0.98 | 0.49  | mg/Kg |   | 05/30/13 11:02 | 05/31/13 01:09 |     | 1   |
| Lead     | 0.98   | U         | 0.98 | 0.52  | mg/Kg |   | 05/30/13 11:02 | 05/31/13 01:09 |     | 1   |
| Selenium | 2.5    | U         | 2.5  | 0.98  | mg/Kg |   | 05/30/13 11:02 | 05/31/13 01:09 |     | 1   |
| Silver   | 0.98   | U         | 0.98 | 0.094 | mg/Kg |   | 05/30/13 11:02 | 05/31/13 01:09 |     | 1   |

Lab Sample ID: LCS 680-278504/2-A

Matrix: Solid

Analysis Batch: 278654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 278504

| Analyte  | Spike | LCS LCS |        | Unit  | D | %Rec | %Rec.     |        |
|----------|-------|---------|--------|-------|---|------|-----------|--------|
|          |       | Added   | Result |       |   |      | Qualifier | Limits |
| Arsenic  | 10.0  | 10.5    |        | mg/Kg |   | 105  | 75 - 125  |        |
| Barium   | 10.0  | 9.64    |        | mg/Kg |   | 96   | 75 - 125  |        |
| Cadmium  | 5.00  | 4.97    |        | mg/Kg |   | 99   | 75 - 125  |        |
| Chromium | 10.0  | 9.93    |        | mg/Kg |   | 99   | 75 - 125  |        |
| Lead     | 5.00  | 4.82    |        | mg/Kg |   | 96   | 75 - 125  |        |
| Selenium | 10.0  | 9.28    |        | mg/Kg |   | 93   | 75 - 125  |        |
| Silver   | 5.00  | 4.93    |        | mg/Kg |   | 99   | 75 - 125  |        |

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 680-90622-30 MS**

**Matrix: Solid**

**Analysis Batch: 278654**

**Client Sample ID: CV0828B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 278504**

| Analyte  | Sample | Sample    | Spike | MS     | MS        | Unit  | D | %Rec | %Rec.    |        |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|
|          | Result | Qualifier | Added | Result | Qualifier |       |   |      | Limits   | Limits |
| Arsenic  | 33     |           | 13.0  | 46.6   |           | mg/Kg | ☼ | 106  | 75 - 125 |        |
| Barium   | 290    |           | 13.0  | 359    | 4         | mg/Kg | ☼ | 497  | 75 - 125 |        |
| Cadmium  | 1.5    |           | 6.48  | 14.1   | F         | mg/Kg | ☼ | 195  | 75 - 125 |        |
| Chromium | 54     |           | 13.0  | 71.0   | 4         | mg/Kg | ☼ | 131  | 75 - 125 |        |
| Lead     | 310    |           | 6.48  | 380    | 4         | mg/Kg | ☼ | 1047 | 75 - 125 |        |
| Selenium | 1.4    | J         | 13.0  | 13.6   |           | mg/Kg | ☼ | 95   | 75 - 125 |        |
| Silver   | 0.27   | J         | 6.48  | 6.56   |           | mg/Kg | ☼ | 97   | 75 - 125 |        |

**Lab Sample ID: 680-90622-30 MSD**

**Matrix: Solid**

**Analysis Batch: 278654**

**Client Sample ID: CV0828B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 278504**

| Analyte  | Sample | Sample    | Spike | MSD    | MSD       | Unit  | D | %Rec | %Rec.    |        | RPD |       |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|-----|-------|
|          | Result | Qualifier | Added | Result | Qualifier |       |   |      | Limits   | Limits | RPD | Limit |
| Arsenic  | 33     |           | 13.1  | 54.7   | F         | mg/Kg | ☼ | 167  | 75 - 125 | 16     | 20  |       |
| Barium   | 290    |           | 13.1  | 842    | 4 F       | mg/Kg | ☼ | 4181 | 75 - 125 | 80     | 20  |       |
| Cadmium  | 1.5    |           | 6.55  | 7.73   | F         | mg/Kg | ☼ | 96   | 75 - 125 | 59     | 20  |       |
| Chromium | 54     |           | 13.1  | 83.5   | 4         | mg/Kg | ☼ | 225  | 75 - 125 | 16     | 20  |       |
| Lead     | 310    |           | 6.55  | 354    | 4         | mg/Kg | ☼ | 634  | 75 - 125 | 7      | 20  |       |
| Selenium | 1.4    | J         | 13.1  | 13.1   |           | mg/Kg | ☼ | 90   | 75 - 125 | 4      | 20  |       |
| Silver   | 0.27   | J         | 6.55  | 6.50   |           | mg/Kg | ☼ | 95   | 75 - 125 | 1      | 20  |       |

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 680-278204/1-A**

**Matrix: Solid**

**Analysis Batch: 278549**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 278204**

| Analyte | MB     | MB        | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
|         | Result | Qualifier |       |        |       |   |                |                |         |
| Mercury | 0.017  | U         | 0.017 | 0.0069 | mg/Kg |   | 05/28/13 13:51 | 05/30/13 12:49 | 1       |

**Lab Sample ID: LCS 680-278204/2-A**

**Matrix: Solid**

**Analysis Batch: 278549**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 278204**

| Analyte | Spike Added | LCS    | LCS       | Unit  | D | %Rec | %Rec.    |        |
|---------|-------------|--------|-----------|-------|---|------|----------|--------|
|         |             | Result | Qualifier |       |   |      | Limits   | Limits |
| Mercury | 0.231       | 0.222  |           | mg/Kg |   | 96   | 80 - 120 |        |

**Lab Sample ID: 680-90622-13 MS**

**Matrix: Solid**

**Analysis Batch: 278549**

**Client Sample ID: CV0626B-CS**

**Prep Type: Total/NA**

**Prep Batch: 278204**

| Analyte | Sample | Sample    | Spike | MS     | MS        | Unit  | D | %Rec | %Rec.    |        |
|---------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|
|         | Result | Qualifier | Added | Result | Qualifier |       |   |      | Limits   | Limits |
| Mercury | 0.33   |           | 0.122 | 0.390  | F         | mg/Kg | ☼ | 50   | 80 - 120 |        |

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

**Lab Sample ID: 680-90622-13 MSD**

**Matrix: Solid**

**Analysis Batch: 278549**

**Client Sample ID: CV0626B-CS**

**Prep Type: Total/NA**

**Prep Batch: 278204**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.33          |                  | 0.107       | 0.364      | F             | mg/Kg | ⊛ | 33   | 80 - 120     | 7   | 20        |

**Lab Sample ID: MB 680-278555/1-A**

**Matrix: Solid**

**Analysis Batch: 278834**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 278555**

| Analyte | MB Result | MB Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.020     | U            | 0.020 | 0.0082 | mg/Kg |   | 05/30/13 14:32 | 05/31/13 18:03 | 1       |

**Lab Sample ID: LCS 680-278555/2-A**

**Matrix: Solid**

**Analysis Batch: 278834**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 278555**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Mercury | 0.231       | 0.247      |               | mg/Kg |   | 107  | 80 - 120     |

**Lab Sample ID: 680-90622-30 MS**

**Matrix: Solid**

**Analysis Batch: 278834**

**Client Sample ID: CV0828B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 278555**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Mercury | 0.16          |                  | 0.125       | 0.375     | F            | mg/Kg | ⊛ | 174  | 80 - 120     |

**Lab Sample ID: 680-90622-30 MSD**

**Matrix: Solid**

**Analysis Batch: 278834**

**Client Sample ID: CV0828B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 278555**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.16          |                  | 0.120       | 0.322      | F             | mg/Kg | ⊛ | 136  | 80 - 120     | 15  | 20        |

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Metals

### Prep Batch: 278125

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-90622-15       | 052113-RB-Shovel   | Total/NA  | Water  | 200.7  |            |
| 680-90622-15 MS    | 052113-RB-Shovel   | Total/NA  | Water  | 200.7  |            |
| 680-90622-15 MSD   | 052113-RB-Shovel   | Total/NA  | Water  | 200.7  |            |
| LCS 680-278125/2-A | Lab Control Sample | Total/NA  | Water  | 200.7  |            |
| MB 680-278125/1-A  | Method Blank       | Total/NA  | Water  | 200.7  |            |

### Prep Batch: 278184

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 680-90622-13       | CV0626B-CS            | Total/NA  | Solid  | 3050B  |            |
| 680-90622-13 MS    | CV0626B-CS            | Total/NA  | Solid  | 3050B  |            |
| 680-90622-13 MSD   | CV0626B-CS            | Total/NA  | Solid  | 3050B  |            |
| 680-90622-14       | CV0626B-CS (sieve)    | Total/NA  | Solid  | 3050B  |            |
| 680-90622-20       | CV1358A-CS            | Total/NA  | Solid  | 3050B  |            |
| 680-90622-21       | CV1358A-CSD           | Total/NA  | Solid  | 3050B  |            |
| 680-90622-27       | CV1016A-CS-SP         | Total/NA  | Solid  | 3050B  |            |
| 680-90622-40       | CV0828B-CS-SP (sieve) | Total/NA  | Solid  | 3050B  |            |
| 680-90622-41       | CV1016A-CS-SP (sieve) | Total/NA  | Solid  | 3050B  |            |
| 680-90622-42       | CV1358A-CS (sieve)    | Total/NA  | Solid  | 3050B  |            |
| 680-90622-43       | CV1358A-CSD (sieve)   | Total/NA  | Solid  | 3050B  |            |
| LCS 680-278184/2-A | Lab Control Sample    | Total/NA  | Solid  | 3050B  |            |
| MB 680-278184/1-A  | Method Blank          | Total/NA  | Solid  | 3050B  |            |

### Prep Batch: 278204

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 680-90622-13       | CV0626B-CS            | Total/NA  | Solid  | 7471B  |            |
| 680-90622-13 MS    | CV0626B-CS            | Total/NA  | Solid  | 7471B  |            |
| 680-90622-13 MSD   | CV0626B-CS            | Total/NA  | Solid  | 7471B  |            |
| 680-90622-14       | CV0626B-CS (sieve)    | Total/NA  | Solid  | 7471B  |            |
| 680-90622-20       | CV1358A-CS            | Total/NA  | Solid  | 7471B  |            |
| 680-90622-21       | CV1358A-CSD           | Total/NA  | Solid  | 7471B  |            |
| 680-90622-27       | CV1016A-CS-SP         | Total/NA  | Solid  | 7471B  |            |
| 680-90622-40       | CV0828B-CS-SP (sieve) | Total/NA  | Solid  | 7471B  |            |
| 680-90622-41       | CV1016A-CS-SP (sieve) | Total/NA  | Solid  | 7471B  |            |
| 680-90622-42       | CV1358A-CS (sieve)    | Total/NA  | Solid  | 7471B  |            |
| 680-90622-43       | CV1358A-CSD (sieve)   | Total/NA  | Solid  | 7471B  |            |
| LCS 680-278204/2-A | Lab Control Sample    | Total/NA  | Solid  | 7471B  |            |
| MB 680-278204/1-A  | Method Blank          | Total/NA  | Solid  | 7471B  |            |

### Prep Batch: 278298

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 680-90622-15        | 052113-RB-Shovel       | Total/NA  | Water  | 245.1  |            |
| LCS 680-278298/2-A  | Lab Control Sample     | Total/NA  | Water  | 245.1  |            |
| LCSD 680-278298/3-A | Lab Control Sample Dup | Total/NA  | Water  | 245.1  |            |
| MB 680-278298/1-A   | Method Blank           | Total/NA  | Water  | 245.1  |            |

### Analysis Batch: 278301

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 680-90622-15       | 052113-RB-Shovel   | Total/NA  | Water  | 200.7 Rev 4.4 | 278125     |
| 680-90622-15 MS    | 052113-RB-Shovel   | Total/NA  | Water  | 200.7 Rev 4.4 | 278125     |
| 680-90622-15 MSD   | 052113-RB-Shovel   | Total/NA  | Water  | 200.7 Rev 4.4 | 278125     |
| LCS 680-278125/2-A | Lab Control Sample | Total/NA  | Water  | 200.7 Rev 4.4 | 278125     |

TestAmerica Savannah

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Metals (Continued)

### Analysis Batch: 278301 (Continued)

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method        | Prep Batch |
|-------------------|------------------|-----------|--------|---------------|------------|
| MB 680-278125/1-A | Method Blank     | Total/NA  | Water  | 200.7 Rev 4.4 | 278125     |

### Prep Batch: 278504

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-90622-30       | CV0828B-CS-SP      | Total/NA  | Solid  | 3050B  |            |
| 680-90622-30 MS    | CV0828B-CS-SP      | Total/NA  | Solid  | 3050B  |            |
| 680-90622-30 MSD   | CV0828B-CS-SP      | Total/NA  | Solid  | 3050B  |            |
| LCS 680-278504/2-A | Lab Control Sample | Total/NA  | Solid  | 3050B  |            |
| MB 680-278504/1-A  | Method Blank       | Total/NA  | Solid  | 3050B  |            |

### Anal y i Batch 278549

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 680-90622-13       | CV0626B-CS            | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-13 MS    | CV0626B-CS            | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-13 MSD   | CV0626B-CS            | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-14       | CV0626B-CS (sieve)    | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-20       | CV1358A-CS            | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-21       | CV1358A-CSD           | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-27       | CV1016A-CS-SP         | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-40       | CV0828B-CS-SP (sieve) | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-41       | CV1016A-CS-SP (sieve) | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-42       | CV1358A-CS (sieve)    | Total/NA  | Solid  | 7471B  | 278204     |
| 680-90622-43       | CV1358A-CSD (sieve)   | Total/NA  | Solid  | 7471B  | 278204     |
| LCS 680-278204/2-A | Lab Control Sample    | Total/NA  | Solid  | 7471B  | 278204     |
| MB 680-278204/1-A  | Method Blank          | Total/NA  | Solid  | 7471B  | 278204     |

### Prep Batch: 278555

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-90622-30       | CV0828B-CS-SP      | Total/NA  | Solid  | 7471B  |            |
| 680-90622-30 MS    | CV0828B-CS-SP      | Total/NA  | Solid  | 7471B  |            |
| 680-90622-30 MSD   | CV0828B-CS-SP      | Total/NA  | Solid  | 7471B  |            |
| LCS 680-278555/2-A | Lab Control Sample | Total/NA  | Solid  | 7471B  |            |
| MB 680-278555/1-A  | Method Blank       | Total/NA  | Solid  | 7471B  |            |

### Analysis Batch: 278654

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 680-90622-13       | CV0626B-CS            | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-13 MS    | CV0626B-CS            | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-13 MSD   | CV0626B-CS            | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-14       | CV0626B-CS (sieve)    | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-20       | CV1358A-CS            | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-21       | CV1358A-CSD           | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-27       | CV1016A-CS-SP         | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-30       | CV0828B-CS-SP         | Total/NA  | Solid  | 6010C  | 278504     |
| 680-90622-30 MS    | CV0828B-CS-SP         | Total/NA  | Solid  | 6010C  | 278504     |
| 680-90622-30 MSD   | CV0828B-CS-SP         | Total/NA  | Solid  | 6010C  | 278504     |
| 680-90622-40       | CV0828B-CS-SP (sieve) | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-41       | CV1016A-CS-SP (sieve) | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-42       | CV1358A-CS (sieve)    | Total/NA  | Solid  | 6010C  | 278184     |
| 680-90622-43       | CV1358A-CSD (sieve)   | Total/NA  | Solid  | 6010C  | 278184     |
| LCS 680-278184/2-A | Lab Control Sample    | Total/NA  | Solid  | 6010C  | 278184     |

TestAmerica Savannah

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Metals (Continued)

### Analysis Batch: 278654 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| LCS 680-278504/2-A | Lab Control Sample | Total/NA  | Solid  | 6010C  | 278504     |
| MB 680-278184/1-A  | Method Blank       | Total/NA  | Solid  | 6010C  | 278184     |
| MB 680-278504/1-A  | Method Blank       | Total/NA  | Solid  | 6010C  | 278504     |

### Analysis Batch: 278688

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 680-90622-15        | 052113-RB-Shovel       | Total/NA  | Water  | 245.1  | 278298     |
| LCS 680-278298/2-A  | Lab Control Sample     | Total/NA  | Water  | 245.1  | 278298     |
| LCSD 680-278298/3-A | Lab Control Sample Dup | Total/NA  | Water  | 245.1  | 278298     |
| MB 680-278298/1-A   | Method Blank           | Total/NA  | Water  | 245.1  | 278298     |

### Analysis Batch: 278834

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-90622-30       | CV0828B-CS-SP      | Total/NA  | Solid  | 7471B  | 278555     |
| 680-90622-30 MS    | CV0828B-CS-SP      | Total/NA  | Solid  | 7471B  | 278555     |
| 680-90622-30 MSD   | CV0828B-CS-SP      | Total/NA  | Solid  | 7471B  | 278555     |
| LCS 680-278555/2-A | Lab Control Sample | Total/NA  | Solid  | 7471B  | 278555     |
| MB 680-278555/1-A  | Method Blank       | Total/NA  | Solid  | 7471B  | 278555     |

## General Chemistry

### Analysis Batch: 137757

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 680-90622-13     | CV0626B-CS       | Total/NA  | Solid  | Moisture |            |
| 680-90622-13 MS  | CV0626B-CS       | Total/NA  | Solid  | Moisture |            |
| 680-90622-13 MSD | CV0626B-CS       | Total/NA  | Solid  | Moisture |            |
| 680-90622-20     | CV1358A-CS       | Total/NA  | Solid  | Moisture |            |
| 680-90622-27     | CV1016A-CS-SP    | Total/NA  | Solid  | Moisture |            |
| 680-90622-30     | CV0828B-CS-SP    | Total/NA  | Solid  | Moisture |            |

### Analysis Batch: 137835

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 680-90622-21      | CV1358A-CSD            | Total/NA  | Solid  | Moisture |            |
| LCSD 660-137835/1 | Lab Control Sample Dup | Total/NA  | Solid  | Moisture |            |

### Analysis Batch: 278400

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|---------------|-----------------------|-----------|--------|----------|------------|
| 680-90622-14  | CV0626B-CS (sieve)    | Total/NA  | Solid  | Moisture |            |
| 680-90622-40  | CV0828B-CS-SP (sieve) | Total/NA  | Solid  | Moisture |            |
| 680-90622-41  | CV1016A-CS-SP (sieve) | Total/NA  | Solid  | Moisture |            |
| 680-90622-42  | CV1358A-CS (sieve)    | Total/NA  | Solid  | Moisture |            |
| 680-90622-43  | CV1358A-CSD (sieve)   | Total/NA  | Solid  | Moisture |            |



# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Client Sample ID: CV0626B-CS

Lab Sample ID: 680-90622-13

Date Collected: 05/20/13 14:45

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 79.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 12:54       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 15:21       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 137757       | 05/24/13 06:58       | AG      | TAL TAM |

## Client Sample ID: CV0626B-CS (sieve)

Lab Sample ID: 680-90622-14

Date Collected: 05/20/13 14:45

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 86.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:02       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 15:44       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 278400       | 05/29/13 18:11       | FS      | TAL SAV |

## Client Sample ID: 052113-RB-Shovel

Lab Sample ID: 680-90622-15

Date Collected: 05/21/13 11:35

Matrix: Water

Date Received: 05/23/13 09:30

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 200.7         |     |                 | 278125       | 05/28/13 09:59       | MK      | TAL SAV |
| Total/NA  | Analysis   | 200.7 Rev 4.4 |     | 1               | 278301       | 05/28/13 23:57       | BCB     | TAL SAV |
| Total/NA  | Prep       | 245.1         |     |                 | 278298       | 05/29/13 10:33       | UU      | TAL SAV |
| Total/NA  | Analysis   | 245.1         |     | 1               | 278688       | 05/30/13 19:09       | BCB     | TAL SAV |

## Client Sample ID: CV1358A-CS

Lab Sample ID: 680-90622-20

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 76.2

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:04       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 15:49       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 137757       | 05/24/13 06:58       | AG      | TAL TAM |

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Client Sample ID: CV1358A-CSD

Lab Sample ID: 680-90622-21

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 74.9

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:12       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 15:54       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 137835       | 05/28/13 10:59       | AG      | TAL TAM |

## Client Sample ID: CV1016A-CS-SP

Lab Sample ID: 680-90622-27

Date Collected: 05/21/13 10:58

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 78.8

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:14       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 16:07       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 137757       | 05/24/13 06:58       | AG      | TAL TAM |

## Client Sample ID: CV0828B-CS-SP

Lab Sample ID: 680-90622-30

Date Collected: 05/21/13 14:02

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 75.6

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 278504       | 05/30/13 11:02       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/31/13 01:28       | BCB     | TAL SAV |
| Total/NA  | Prep       | 7471B        |     |                 | 278555       | 05/30/13 14:32       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278834       | 05/31/13 19:08       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 137757       | 05/24/13 06:58       | AG      | TAL TAM |

## Client Sample ID: CV0828B-CS-SP (sieve)

Lab Sample ID: 680-90622-40

Date Collected: 05/21/13 14:02

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 90.0

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:17       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 16:12       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 278400       | 05/29/13 18:11       | FS      | TAL SAV |

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

## Client Sample ID: CV1016A-CS-SP (sieve)

**Lab Sample ID: 680-90622-41**

Date Collected: 05/21/13 10:58

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 77.9

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:19       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 16:16       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 278400       | 05/29/13 18:11       | FS      | TAL SAV |

## Client Sample ID: CV1358A-CS (sieve)

**Lab Sample ID: 680-90622-42**

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 81.6

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:21       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 16:21       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 278400       | 05/29/13 18:11       | FS      | TAL SAV |

## Client Sample ID: CV1358A-CSD (sieve)

**Lab Sample ID: 680-90622-43**

Date Collected: 05/21/13 09:30

Matrix: Solid

Date Received: 05/23/13 09:30

Percent Solids: 81.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7471B        |     |                 | 278204       | 05/28/13 13:51       | UU      | TAL SAV |
| Total/NA  | Analysis   | 7471B        |     | 1               | 278549       | 05/30/13 13:24       | BCB     | TAL SAV |
| Total/NA  | Prep       | 3050B        |     |                 | 278184       | 05/28/13 12:24       | JKL     | TAL SAV |
| Total/NA  | Analysis   | 6010C        |     | 1               | 278654       | 05/30/13 16:26       | BCB     | TAL SAV |
| Total/NA  | Analysis   | Moisture     |     | 1               | 278400       | 05/29/13 18:11       | FS      | TAL SAV |

**Laboratory References:**

TAL AV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354 7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
*Test Am Tampa*

Phone: *680-90622*  
Fax:

|  |                                   |                                       |             |                   |                  |                |
|--|-----------------------------------|---------------------------------------|-------------|-------------------|------------------|----------------|
| PROJECT REFERENCE<br><i>35th Ave Removal</i> | PROJECT NO.<br><i>200548-1356</i> | PROJECT LOCATION (STATE)<br><i>AL</i> | MATRIX TYPE | REQUIRED ANALYSIS | PAGE<br><i>1</i> | OF<br><i>4</i> |
|--|-----------------------------------|---------------------------------------|-------------|-------------------|------------------|----------------|

|   |             |              |   |          |  |          |   |
|---|-------------|--------------|---|----------|--|----------|---|
| TAL (LAB) PROJECT MANAGER<br><i>Lisa Harven</i> | P.O. NUMBER | CONTRACT NO. | STANDARD REPORT DELIVERY<br><input type="radio"/> | DATE DUE | EXPEDITED REPORT DELIVERY (SURCHARGE)<br><i>10 Calendar Days</i> | DATE DUE | NUMBER OF COOLERS SUBMITTED PER SHIPMENT: |
|---|-------------|--------------|---|----------|--|----------|---|

**(b) (6)**

|                                    |                 |                    |     |                                       |              |                    |                     |
|------------------------------------|-----------------|--------------------|-----|---------------------------------------|--------------|--------------------|---------------------|
| COMPOSITE (C) OF GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | <i>KLPAH</i> | <i>REAS Metals</i> | <b>PRESERVATIVE</b> |
|------------------------------------|-----------------|--------------------|-----|---------------------------------------|--------------|--------------------|---------------------|

|      |      |                       |                                    |                 |                    |     |                                       |                                |         |
|------|------|-----------------------|------------------------------------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|---------|
| DATE | TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OF GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED | REMARKS |
|------|------|-----------------------|------------------------------------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|---------|

| DATE    | TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OF GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED | REMARKS |
|---------|------|-----------------------|------------------------------------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|---------|
| 5-20-13 | 1503 | CV0182A-CS-SP         | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1518 | CV0182B-CS-SP         | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1414 | CV0287A-CS-SP         | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1429 | CV0287B-CS-SP         | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1318 | CV1198A-CS-SP         | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1330 | CV1198B-CS-SP         | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1515 | CV0003A-CS            | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1525 | CV0003B-CS            | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1305 | CV0068A-CS            | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1305 | CV0068A-CSD           | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1315 | CV0068B-CS            | C                                  | X               |                    |     | X                                     |                                |         |
|         | 1435 | CV0626A-CS            | C                                  | X               |                    |     | X                                     |                                |         |

|  |                        |                     |                              |      |      |                              |      |      |
|--|------------------------|---------------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br><i>5-22-13</i> | TIME<br><i>1330</i> | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br><i>5/23/13</i> | TIME<br><i>0930</i> | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |      |      |   |                  |                  |   |
|---|------|------|---|------------------|------------------|---|
| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS<br><i>5.6% Cu-07</i> |
|---|------|------|---|------------------|------------------|---|

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Fax:

|  |                                   |                                       |             |                   |                           |
|--|-----------------------------------|---------------------------------------|-------------|-------------------|---------------------------|
| PROJECT REFERENCE<br><i>35th Ave Removal</i> | PROJECT NO.<br><i>200548-1356</i> | PROJECT LOCATION (STATE)<br><i>AZ</i> | MATRIX TYPE | REQUIRED ANALYSIS | PAGE <i>2</i> OF <i>4</i> |
|--|-----------------------------------|---------------------------------------|-------------|-------------------|---------------------------|

|   |              |              |   |
|---|--------------|--------------|---|
| TAL (LAB) PROJECT MANAGER<br><i>Lisa Harvey</i> | P.O. NUMBER  | CONTRACT NO. | STANDARD REPORT DELIVERY <input type="radio"/>              |
| CLIENT (SITE) PM                                | CLIENT PHONE | CLIENT FAX   | DATE DUE _____  |
|   |              |              | EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/> |
|   |              |              | DATE DUE _____  |

**(b) (6)**

|                                    |                 |                    |     |                                       |   |
|------------------------------------|-----------------|--------------------|-----|---------------------------------------|---|
| COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | REMARKS                                   |
|                                    |                 |                    |     | <i>LL PAH</i><br><i>Metals</i>        |   |
| <b>PRESERVATIVE</b>                |                 |                    |     |                                       | NUMBER OF COOLERS SUBMITTED PER SHIPMENT: |

| SAMPLE  |      | SAMPLE IDENTIFICATION     | COMPOSITE (C) OR GRAB (G) | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED |   |   |   | REMARKS |
|---------|------|---------------------------|---------------------------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|---|---|---|---------|
| DATE    | TIME |                           |                           |                 |                    |     |                                       | 1                              | 2 | 3 | 4 |         |
| 5-20-13 | 1445 | <i>CV0626B-CS</i>         | C                         | X               |                    |     | X                                     | X                              |   |   |   |         |
| 5-20-13 | 1445 | <i>CV0626B-CS (sieve)</i> | C                         | X               |                    |     | X                                     | X                              |   |   |   |         |
| 5-21-13 | 1135 | <i>052113-RB-Shovel</i>   |                           | X               |                    |     | X                                     | X                              |   |   |   |         |
| 5-21-13 | 0855 | <i>CV0747A-CS</i>         | C                         | X               |                    |     | X                                     |                                |   |   |   |         |
|         | 0855 | <i>CV0747A-CSD</i>        | C                         | X               |                    |     | X                                     |                                |   |   |   |         |
|         | 1050 | <i>CV1351A-CS</i>         | C                         | X               |                    |     | X                                     |                                |   |   |   |         |
|         | 1040 | <i>CV1351B-CS</i>         | C                         | X               |                    |     | X                                     |                                |   |   |   |         |
|         | 0930 | <i>CV1358A-CS</i>         | C                         | X               |                    |     | X                                     | X                              |   |   |   |         |
|         | 0930 | <i>CV1358A-CSD</i>        | C                         | X               |                    |     | X                                     | X                              |   |   |   |         |
|         | 0940 | <i>CV1358B-CS</i>         | C                         | X               |                    |     | X                                     |                                |   |   |   |         |
|         | 0951 | <i>CV0525A-CS-SP</i>      | C                         | X               |                    |     | X                                     |                                |   |   |   |         |
|         | 1005 | <i>CV0525B-CS-SP</i>      | C                         | X               |                    |     | X                                     |                                |   |   |   |         |

|  |                        |                     |                              |      |      |                              |      |      |
|--|------------------------|---------------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br><i>5-22-13</i> | TIME<br><i>1330</i> | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br><i>5/23/13</i> | TIME<br><i>0930</i> | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |      |      |   |                  |                  |                    |
|---|------|------|---|------------------|------------------|--------------------|
| LABORATORY USE ONLY                     |      |      |   |                  |                  |                    |
| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Phone: *680-90622*  
Fax:

|  |                               |                                       |             |                   |                           |
|--|-------------------------------|---------------------------------------|-------------|-------------------|---------------------------|
| PROJECT REFERENCE<br><i>35th Ave Removal</i> | PROJECT NO.<br><i>2005148</i> | PROJECT LOCATION (STATE)<br><i>AL</i> | MATRIX TYPE | REQUIRED ANALYSIS | PAGE <i>3</i> OF <i>4</i> |
|--|-------------------------------|---------------------------------------|-------------|-------------------|---------------------------|

|   |             |              |  |          |
|---|-------------|--------------|--|----------|
| TAL (LAB) PROJECT MANAGER<br><i>Lisa Harvey</i> | P.O. NUMBER | CONTRACT NO. | STANDARD REPORT DELIVERY <input type="radio"/> | DATE DUE |
|---|-------------|--------------|--|----------|

|                                    |                 |                    |     |                                       |   |          |
|------------------------------------|-----------------|--------------------|-----|---------------------------------------|---|----------|
| COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/> | DATE DUE |
|------------------------------------|-----------------|--------------------|-----|---------------------------------------|---|----------|

## PRESERVATIVE

| SAMPLE         |             | SAMPLE IDENTIFICATION      | COMPOSITE (C) OR GRAB (G) | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED |   |   |   | REMARKS |
|----------------|-------------|----------------------------|---------------------------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|---|---|---|---------|
| DATE           | TIME        |                            |                           |                 |                    |     |                                       | 1                              | 2 | 3 | 4 |         |
| <i>5-21-13</i> | <i>0907</i> | <i>CV 0729A - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>0921</i> | <i>CV 0729 B - CS - SP</i> | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1058</i> | <i>CV 1016A - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              | <i>X</i>                       |   |   |   |         |
|                | <i>1500</i> | <i>FM 0217A - CS</i>       | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1343</i> | <i>CV 0828A - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1402</i> | <i>CV 0828B - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              | <i>X</i>                       |   |   |   |         |
|                | <i>1355</i> | <i>CV 0828 C - CS - SP</i> | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1430</i> | <i>CV 0838A - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1441</i> | <i>CV 0838B - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1515</i> | <i>CV 0912A - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1522</i> | <i>CV 0912B - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |
|                | <i>1540</i> | <i>CV 0912C - CS - SP</i>  | <i>C</i>                  | <i>X</i>        |                    |     | <i>X</i>                              |                                |   |   |   |         |

|  |                        |                     |                              |      |      |                              |      |      |
|--|------------------------|---------------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br><i>5-22-13</i> | TIME<br><i>1330</i> | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br><i>5/23/13</i> | TIME<br><i>0930</i> | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |      |      |   |                  |                  |                    |
|---|------|------|---|------------------|------------------|--------------------|
| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|------|------|---|------------------|------------------|--------------------|

**(b) (6)**

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Alternate Laboratory Name/Location

Test Am Tampa

Phone:  
Fax:

680-90622

|   |                                    |                                       |  |   |  |
|---|------------------------------------|---------------------------------------|--|---|--|
| PROJECT REFERENCE<br><i>35th Ave Removal</i>    | PROJECT NO.<br><i>2005148-1356</i> | PROJECT LOCATION (STATE)<br><i>AL</i> | MATRIX TYPE  | REQUIRED ANALYSIS   | PAGE <i>4</i> OF <i>4</i>  |
| TAL (LAB) PROJECT MANAGER<br><i>Lisa Harvey</i> | P.O. NUMBER                        | CONTRACT NO.                          | CATE<br>AQUEOUS (WATER)<br>SOLID OR SEMISOLID<br>AIR<br>NON-AQUEOUS LIQUID (OIL, SOLVENT, ...) | <i>LL PAH</i><br><i>RCA &amp; Metals</i><br><br><b>PRESERVATIVE</b> | STANDARD REPORT DELIVERY <input type="radio"/>   |
| CLIENT (SITE) PM                                | CLIENT PHONE                       | CLIENT FAX                            |  |   | EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/><br><i>10 calendar Days</i> |

**(b) (6)**

| SAMPLE         |             | SAMPLE IDENTIFICATION           | COMPOS   | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NON-AQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED |   |   |   |   |          |   |   |   |    | REMARKS |    |    |  |  |  |
|----------------|-------------|---------------------------------|----------|-----------------|--------------------|-----|--|--------------------------------|---|---|---|---|----------|---|---|---|----|---------|----|----|--|--|--|
| DATE           | TIME        |                                 |          |                 |                    |     |  | 1                              | 2 | 3 | 4 | 5 | 6        | 7 | 8 | 9 | 10 |         | 11 | 12 |  |  |  |
| <i>5-21-13</i> | <i>1550</i> | <i>CV 912D - CS-SP</i>          | <i>C</i> | <i>X</i>        |                    |     | <i>X</i>                               |                                |   |   |   |   |          |   |   |   |    |         |    |    |  |  |  |
|                | <i>1303</i> | <i>CV 1189A - CS-SP</i>         | <i>C</i> | <i>X</i>        |                    |     | <i>X</i>                               |                                |   |   |   |   |          |   |   |   |    |         |    |    |  |  |  |
|                | <i>1315</i> | <i>CV 1189B - CS-SP</i>         | <i>C</i> | <i>X</i>        |                    |     | <i>X</i>                               |                                |   |   |   |   |          |   |   |   |    |         |    |    |  |  |  |
|                | <i>1402</i> | <i>CV 0828B - CS-SP (sieve)</i> | <i>C</i> | <i>X</i>        |                    |     |  |                                |   |   |   |   | <i>X</i> |   |   |   |    |         |    |    |  |  |  |
|                | <i>1058</i> | <i>CV 1016A - CS-SP (sieve)</i> | <i>C</i> | <i>X</i>        |                    |     |  |                                |   |   |   |   | <i>X</i> |   |   |   |    |         |    |    |  |  |  |
|                | <i>0930</i> | <i>CV 1358A - CS (sieve)</i>    | <i>C</i> | <i>X</i>        |                    |     |  |                                |   |   |   |   | <i>X</i> |   |   |   |    |         |    |    |  |  |  |
|                | <i>0930</i> | <i>CV 1358A - CSD (sieve)</i>   | <i>C</i> | <i>X</i>        |                    |     |  |                                |   |   |   |   | <i>X</i> |   |   |   |    |         |    |    |  |  |  |

|  |                        |                     |                              |      |      |                              |      |      |
|--|------------------------|---------------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br><i>5-22-13</i> | TIME<br><i>1330</i> | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br><i>5/23/13</i> | TIME<br><i>0930</i> | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |  |  |  |  |      |      |   |                  |                  |                    |
|---|--|--|--|--|------|------|---|------------------|------------------|--------------------|
| RECEIVED FOR LABORATORY BY: (SIGNATURE) |  |  |  |  | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|--|--|--|--|------|------|---|------------------|------------------|--------------------|

Serial Number 64604

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

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Alternate Laboratory Name/Location:  
Test Am Tampa

Phone: 680-90622  
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO.: 2005 48-1356 PROJECT LOCATION (STATE): AZ MATRIX TYPE: DATE: REQUIRED ANALYSIS: PAGE 2 OF 4

TAL (LAB) PROJECT MANAGER: Lisa Harvey P.O. NUMBER: CONTRACT NO.: CLIENT (SITE) PM: CLIENT PHONE: CLIENT FAX: STANDARD REPORT DELIVERY: DATE DUE: EXPEDITED REPORT DELIVERY (SURCHARGE): DATE DUE: NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

(b) (6)

| DATE    | TIME | SAMPLE IDENTIFICATION | COMPO | AQUEOUS (WATER) SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | PRESERVATIVE |   |   |   | REMARKS |  |
|---------|------|-----------------------|-------|------------------------------------|-----|---------------------------------------|--------------|---|---|---|---------|--|
|         |      |                       |       |                                    |     |                                       | 1            | 2 | 3 | 4 |         |  |
| 5-20-13 | 1445 | CN0626B-CS            | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
| 5-20-13 | 1445 | CN0626B-CS (sieve)    | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
| 5-21-13 | 1135 | 052113-RB-shove       |       | X                                  |     | X                                     | X            |   |   |   |         |  |
| 5-21-13 | 0855 | CN0747A-CS            | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 0855 | CN0747A-CSD           | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 1050 | CN1351A-CS            | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 1040 | CN1351B-CS            | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 0930 | CN1358A-CS            | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 0930 | CN1358A-CSD           | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 0940 | CN1358B-CS            | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 0951 | CN0525A-CS-SP         | C     | X                                  |     | X                                     | X            |   |   |   |         |  |
|         | 1005 | CN0525B-CS-SP         | C     | X                                  |     | X                                     | X            |   |   |   |         |  |

RELINQUISHED BY: (SIGNATURE) DATE: 5-22-13 TIME: 1330 RECEIVED BY: (SIGNATURE) DATE: 5/23/13 TIME: 0930

LABORATORY USE ONLY: RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE: TIME: CUSTODY INTACT YES: NO: SAVANNAH LOG NO.: LABORATORY REMARKS:

Page 26 of 32

6/5/2013





Serial Number 64605

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Phone: 680-90622  
Fax:

|  |                        |                                |  |                                       |   |
|--|------------------------|--------------------------------|--|---------------------------------------|---|
| PROJECT REFERENCE<br>35th Ave Removal    | PROJECT NO.<br>2005148 | PROJECT LOCATION (STATE)<br>AL | MATRIX TYPE  | REQUIRED ANALYSIS                     | PAGE 3 OF 4   |
| TAL (LAB) PROJECT MANAGER<br>Lisa Harven | P.O. NUMBER            | CONTRACT NO.                   | COMPOSITE (C) OR GRAB (G) INDICATE<br>AQUEOUS (WATER)<br>SOLID OR SEMISOLID<br>AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | STANDARD REPORT DELIVERY <input type="radio"/>              |
|  |                        |                                |  | 22 PAH<br>PCPA & Metals               | DATE DUE _____  |
|  |                        |                                |  | <b>PRESERVATIVE</b>                   | EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/> |
|  |                        |                                |  |                                       | DATE DUE _____  |
|  |                        |                                |  |                                       | NUMBER OF COOLERS SUBMITTED PER SHIPMENT: _____             |

(b) (6)

| SAMPLE  |      | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | NUMBER OF CONTAINERS SUBMITTED |   |   |   |   |   |   |   |   |    | REMARKS |    |    |  |
|---------|------|-----------------------|------------------------------------|-----------------|--------------------|-----|---------------------------------------|--------------------------------|---|---|---|---|---|---|---|---|----|---------|----|----|--|
| DATE    | TIME |                       |                                    |                 |                    |     |                                       | 1                              | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |         | 11 | 12 |  |
| 5-21-13 | 0907 | CV 0729A - CS-SP      | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 0921 | CV 0729 B - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1058 | CV 1026A - CS-SP      | C                                  | X               |                    |     | X                                     | X                              |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1500 | FM 0217A - CS         | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1343 | CV 0828 A - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1402 | CV 0828 B - CS-SP     | C                                  | X               |                    |     | X                                     | X                              |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1355 | CV 0828 C - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1430 | CV 0838 A - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1441 | CV 0838 B - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1515 | CV 0912 A - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1522 | CV 0912 B - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |
|         | 1540 | CV 0912 C - CS-SP     | C                                  | X               |                    |     | X                                     |                                |   |   |   |   |   |   |   |   |    |         |    |    |  |

|  |                 |              |                              |      |      |                              |      |      |
|--|-----------------|--------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br>5-22-13 | TIME<br>1330 | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br>5/23/13 | TIME<br>0930 | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |      |      |   |                  |                  |                    |  |  |
|---|------|------|---|------------------|------------------|--------------------|--|--|
| LABORATORY USE ONLY                     |      |      |   |                  |                  |                    |  |  |
| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |  |  |

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6/5/2013



Serial Number 64606

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

TEST Am Tampa

Phone:  
Fax:

680-90622

|   |                                    |                                       |  |  |                           |
|---|------------------------------------|---------------------------------------|--|--|---------------------------|
| PROJECT REFERENCE<br><b>35<sup>th</sup> Ave Removal</b> | PROJECT NO.<br><b>2005148-1356</b> | PROJECT LOCATION (STATE)<br><b>AL</b> | MATRIX TYPE  | REQUIRED ANALYSIS  | PAGE <b>4</b> OF <b>4</b> |
| TAL (LAB) PROJECT MANAGER<br><b>Steve Harrison</b>      | P.O. NUMBER                        | CONTRACT NO.                          | E<br>LIQUID (OIL, SOLVENT, ...)<br>LI-PAN<br>ROCA & Metals | STANDARD REPORT DELIVERY <input type="radio"/><br>DATE DUE _____<br>EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/><br>10 Calendar Days<br>DATE DUE _____<br>NUMBER OF COOLERS SUBMITTED PER SHIPMENT: |                           |
| PRESERVATIVE  |                                    |                                       |  |  |                           |

**(b) (6)**

| SAMPLE  |      | SAMPLE IDENTIFICATION    | COMPO. | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | PRESERVATIVE | NUMBER OF CONTAINERS SUBMITTED | REMARKS |
|---------|------|--------------------------|--------|-----------------|--------------------|-----|---------------------------------------|--------------|--------------------------------|---------|
| DATE    | TIME |                          |        |                 |                    |     |                                       |              |                                |         |
| 5-21-13 | 1550 | CV 0912D - CS-SP         | C      | X               |                    |     | X                                     |              |                                |         |
|         | 1303 | CV 1189A - CS-SP         | C      | X               |                    |     | X                                     |              |                                |         |
|         | 1315 | CV 1189B - CS-SP         | C      | X               |                    |     | X                                     |              |                                |         |
|         | 1402 | CV 0828B - CS-SP (sieve) | C      | X               |                    |     | X                                     |              |                                |         |
|         | 1058 | CV 1016A - CS-SP (sieve) | C      | X               |                    |     | X                                     |              |                                |         |
|         | 0930 | CV 1358A - CS (sieve)    | C      | X               |                    |     | X                                     |              |                                |         |
|         | 0930 | CV 1358A - CSD (sieve)   | C      | X               |                    |     | X                                     |              |                                |         |

|  |                 |              |                              |      |      |                              |      |      |
|--|-----------------|--------------|------------------------------|------|------|------------------------------|------|------|
| RELINQUISHED BY: (SIGNATURE)<br><i>[Signature]</i> | DATE<br>5-22-13 | TIME<br>1330 | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
| RECEIVED BY: (SIGNATURE)<br><i>[Signature]</i>     | DATE<br>5/23/13 | TIME<br>0930 | RECEIVED BY: (SIGNATURE)     | DATE | TIME | RECEIVED BY: (SIGNATURE)     | DATE | TIME |

|   |  |      |      |   |                  |                  |                    |
|---|--|------|------|---|------------------|------------------|--------------------|
| RECEIVED FOR LABORATORY BY: (SIGNATURE) |  | DATE | TIME | CUSTODY INTACT<br>YES <input type="radio"/><br>NO <input type="radio"/> | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|--|------|------|---|------------------|------------------|--------------------|

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6/5/2013



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

SDG Number: 68090622-3

**Login Number: 90622**

**List Number: 1**

**Creator: Snead, Joshua**

**List Source: TestAmerica Savannah**

| Question   | Answer | Comment                                 |
|--|--------|---|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |   |
| The cooler's custody seal, if present, is intact.                                | True   |   |
| Sample custody seals, if present, are intact.                                    | True   |   |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |   |
| Samples were received on ice.  | True   |   |
| Cooler Temperature is acceptable.  | True   |   |
| Cooler Temperature is recorded.  | True   |   |
| COC is present.  | True   |   |
| COC is filled out in ink and legible.  | True   |   |
| COC is filled out with all pertinent information.                                | True   |   |
| Is the Field Sampler's name present on COC?                                      | True   |   |
| There are no discrepancies between the containers received and the COC.          | False  | IDs on containers do not match the COC. |
| Samples are received within Holding Time.  | True   |   |
| Sample containers have leg ble labels.   | True   |   |
| Containers are not broken or leaking.  | True   |   |
| Sample collection date/times are provided.                                       | True   |   |
| Appropriate sample containers are used.  | True   |   |
| Sample bottles are completely filled.  | True   |   |
| Sample Preservation Verified.  | N/A    |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |   |
| Multiphasic samples are not present.   | True   |   |
| Samples do not require splitting or compositing.                                 | True   |   |
| Residual Chlorine Checked.   | N/A    |   |

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90622-3

SDG Number: 68090622-3

**Login Number: 90622**

**List Number: 1**

**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**

**List Creation: 05/23/13 02:38 PM**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time.  | True   |         |
| Sample containers have leg ble labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |

## Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
 SDG: 68090622-3

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority               | Program       | EPA Region | Certification ID     | Expiration Date |
|-------------------------|---------------|------------|----------------------|-----------------|
| A2LA                    | DoD ELAP      |            | 399.01               | 07-31-13        |
| Alabama                 | State Program | 4          | 41450                | 06-30-13        |
| Alaska (UST)            | State Program | 10         | UST-104              | 06-19-13        |
| Arkansas DEQ            | State Program | 6          | 88-0692              | 02-01-13 *      |
| California              | NELAP         | 9          | 3217CA               | 07-31-13        |
| Colorado                | State Program | 8          | N/A                  | 12-31-13        |
| Florida                 | NELAP         | 4          | E87052               | 06-30-13        |
| GA Dept. of Agriculture | State Program | 4          | N/A                  | 12-31-13        |
| Georgia                 | State Program | 4          | N/A                  | 06-30-13        |
| Georgia                 | State Program | 4          | 803                  | 06-30-13        |
| Hawaii                  | State Program | 9          | N/A                  | 06-30-13        |
| Illinois                | NELAP         | 5          | 200022               | 11-30-13        |
| Indiana                 | State Program | 5          | N/A                  | 06-30-13        |
| Iowa                    | State Program | 7          | 353                  | 07-01-13 *      |
| Kentucky                | State Program | 4          | 90084                | 12-31-12 *      |
| Kentucky (UST)          | State Program | 4          | 18                   | 03-31-13 *      |
| Louisiana               | NELAP         | 6          | 30690                | 06-30-13        |
| Louisiana               | NELAP         | 6          | LA100015             | 12-31-13        |
| Maine                   | State Program | 1          | GA00006              | 08-16-14        |
| Maryland                | State Program | 3          | 250                  | 12-31-13        |
| Massachusetts           | State Program | 1          | M-GA006              | 06-30-13        |
| Michigan                | State Program | 5          | 9925                 | 06-30-13        |
| Mississippi             | State Program | 4          | N/A                  | 06-30-13        |
| Montana                 | State Program | 8          | CERT0081             | 01-01-14        |
| Nebraska                | State Program | 7          | TestAmerica-Savannah | 06-30-13 *      |
| New Jersey              | NELAP         | 2          | GA769                | 06-30-13        |
| New Mexico              | State Program | 6          | N/A                  | 06-30-13        |
| New York                | NELAP         | 2          | 10842                | 04-01-14        |
| North Carolina DENR     | State Program | 4          | 269                  | 12-31-13        |
| North Carolina DHHS     | State Program | 4          | 13701                | 07-31-13        |
| Oklahoma                | State Program | 6          | 9984                 | 08-31-13        |
| Pennsylvania            | NELAP         | 3          | 68-00474             | 06-30-13 *      |
| Puerto Rico             | State Program | 2          | GA00006              | 01-01-14        |
| South Carolina          | State Program | 4          | 98001                | 06-30-13        |
| Tennessee               | State Program | 4          | TN02961              | 06-30-13        |
| Texas                   | NELAP         | 6          | T104704185-08-TX     | 11-30-13        |
| USDA                    | Federal       |            | SAV 3-04             | 04-07-14        |
| Virginia                | NELAP         | 3          | 460161               | 06-14-13 *      |
| Washington              | State Program | 10         | C1794                | 06-10-13        |
| West Virginia           | State Program | 3          | 9950C                | 12-31-13        |
| West Virginia DEP       | State Program | 3          | 94                   | 06-30-13        |
| Wisconsin               | State Program | 5          | 999819810            | 08-31-13        |
| Wyoming                 | State Program | 8          | 8TMS-Q               | 06-30-13        |

### Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program       | EPA Region | Certification ID | Expiration Date |
|-----------|---------------|------------|------------------|-----------------|
| Alabama   | State Program | 4          | 40610            | 06-30-13        |
| Florida   | NELAP         | 4          | E84282           | 06-30-13        |

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-90622-3  
SDG: 68090622-3

## Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program       | EPA Region | Certification ID | Expiration Date |
|-----------|---------------|------------|------------------|-----------------|
| Georgia   | State Program | 4          | 905              | 06-30-13        |
| USDA      | Federal       |            | P330-11-00177    | 04-20-14        |

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