

**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  
 Concurrence<sup>1</sup>: Nicole Lancaster

Project No: 15268508.20000  
 Job ID.: 680-89695-3  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date Collected: 04/22/2013 & 04/23/13  
 Date: 05/20/2013  
 Date: 05/22/2013

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?		✓			
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?	✓				
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.	

<sup>1</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 042313-RB-Sieve (680-89695-35) was collected during the week of 4/22/13. The rinsate blank was analyzed for metals by EPA Methods 200.7 and 245.1 under this Test America Job ID. Lead was detected during the EPA 200.7 analysis of the rinsate blank at 120 µg/L (RL 10, MDL 4.0).	
12. Were contaminants detected in samples below the blank contamination action level? <ul style="list-style-type: none"> <li>○ If blank result &gt; RL, <ul style="list-style-type: none"> <li>• Flag sample results ≤ RL with a U</li> <li>• Flag positive sample results &gt; RL and ≤10x blank result , as J+ positive results</li> </ul> </li> <li>○ If blank result ≤RL, <ul style="list-style-type: none"> <li>• Flag sample results ≤ 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>		✓		An evaluation of the effect of blank contamination on soil sample results was based on method and rinsate blank results, and not calibration blank results.  A blank contamination action level (BCAL) of 1200 µg/L was developed for lead by multiplying the amount observed in the rinsate blank by a factor of 10. Sample-specific BCALs were developed by taking into account sample preparation factors, dilution factors, and percent solids (refer to <b>Attachment B</b> ). Qualification of data is not warranted, as all sample results were greater than sample-specific BCALs.	
13. Are there negative laboratory blank results with the absolute value ≤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?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument? <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: 04/30/2013-05/01/2013, instrument ICPF. 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: 04/30/2013-05/01/2013, instrument LEEMAN2. 6-Point ICAL per analytical batch. ICV initially, CCV every 10 samples</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>and at end of run. CRI after initial calibration blank analysis.</p> <ul style="list-style-type: none"> <li>● 6010C: 05/01/2013-05/02/2013, instrument ICPF. 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: 05/01/2013-05/02/2013, 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> <li>▪ If 121-135%R, then J flag positive results</li> </ul> </li> </ul> </li> </ul>	✓			<p>Mercury correlation coefficient:</p> <ul style="list-style-type: none"> <li>● 245.1: ICAL of 04/30/2013 is 0.9999871 (page 414)</li> <li>● 7471B: ICAL of 05/01/2013 is 0.9999444 (page 419)</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 &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;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> <li>○ Aqueous:           <ul style="list-style-type: none"> <li>• If &lt;50%R, then J- and R flag positive and ND results,</li> </ul> </li> </ul>	✓				

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>respectively</p> <ul style="list-style-type: none"> <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>					
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			✓	LCS 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 274866: 680-89693-1 (Batch Sample), MS/MSD</li> <li>245.1, Prep Batch 274733: 680-89700-1 (Batch Sample), MS/MSD</li> <li>6010C, Prep Batch 274586: 680-89695-4 (CV1329A-CS), MS/MSD</li> <li>7471B, Prep Batch 274941: 680-89695-4 (CV1329A-CS), MS/MSD</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 and mercury)?	✓			<ul style="list-style-type: none"> <li>200.7: 680-89693-1 (Batch Sample)</li> <li>6010C: 680-89695-4 (CV1329A-CS)</li> </ul>	
<p>26. For all analytes with sample concentration <math>&lt; 4 \times</math> 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? <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 <math>&lt; 30</math> and PDS %R <math>&lt; 75</math>, then J- and R Flag positive and ND results, respectively</li> <li>If MS %R <math>&lt; 30</math> and PDS %R <math>&gt; 75</math>, then J flag positive and UJ flag non-detect results</li> <li>If MS and MSD %R 30-74 and PDS%R <math>&lt; 75</math>, then J- flag positive and UJ flag non-detect results</li> <li>If MS and MSD %R 30-74 and PDS%R <math>\geq 75</math>, then J flag</li> </ul> </li> </ul>		✓		<p>CV1329A-CS (680-89695-4):</p> <ul style="list-style-type: none"> <li>6010C: <ul style="list-style-type: none"> <li>Barium @ -220 and 415 %R (75-125). An evaluation of interference is not possible based on MS and MSD results<sup>2</sup>. PDS recovery (97%) fell within control limits (75-125).</li> <li>Chromium @ 628 and -43 %R (75-125). An evaluation of interference is not possible<sup>2</sup>.</li> <li>Lead @ -380 and 480 %R (75-125). An evaluation of interference is not possible<sup>2</sup>.</li> </ul> </li> <li>7471B: Mercury @ 136 and 164 %R (80-120), J+ Flag sample result.</li> </ul>	J+

<sup>2</sup> The native sample concentration is greater than 4x the MS and MSD spiking level. In addition, the native chromium and 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>positive and UJ flag non-detect results</p> <ul style="list-style-type: none"> <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> <p>○ 7471B:</p> <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>					
<p>27. Were laboratory/project (≤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></p> <p>○ If RPD &gt;20%, J and UJ flag positive and non-detect results.</p>		✓		<p>CV1329A-CS (680-89695-4):</p> <ul style="list-style-type: none"> <li>• Barium @ 27%RPD (≤20). An evaluation of interference is not possible based on MS and MSD results<sup>2</sup>.</li> <li>• Chromium @ 50%RPD (≤20). An evaluation of interference is not possible based on MS and MSD results<sup>2</sup>.</li> </ul>	
28. Was a serial dilution conducted for 6010C?	✓			<ul style="list-style-type: none"> <li>• 200.7: 680-89693-1 (Batch Sample)</li> <li>• 6010C: 680-89695-4 (CV1329A-CS)</li> </ul>	
29. Is the serial dilution parent sample a project-specific sample?	✓	✓			
<p>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></p> <p>○ If %D &gt;10, J and UJ flag positive and non-detect results, respectively.</p>	✓				
31. Was a laboratory duplicate analyzed?		✓			
32. Was the lab duplicate analysis conducted on a project-specific sample?			✓		

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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> ○ If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively.			✓		
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>					

**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: 680-89695-3  
SDG: 68089695-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89695-4	CV1329A-CS	Solid	04/22/13 14:55	04/25/13 08:40
680-89695-14	CV0427B-CS-SP	Solid	04/23/13 09:03	04/25/13 08:40
680-89695-18	CV0575A-CS-SP	Solid	04/23/13 13:22	04/25/13 08:40
680-89695-32	CV1329A-CS (sieve)	Solid	04/22/13 14:55	04/25/13 08:40
680-89695-33	CV0575A-CS-SP (sieve)	Solid	04/23/13 13:22	04/25/13 08:40
680-89695-34	CV0427B-CS-SP (sieve)	Solid	04/23/13 09:03	04/25/13 08:40
680-89695-35	042313-RB-Sieve	Water	04/23/13 10:00	04/25/13 08:40

1

2

3

4

5

6

7

8

9

10

11

12

**ATTACHMENT B**

**BLANK CONTAMINATION EVALUATION**

**Sample-Specific Blank Contamination Action Levels**

<b>6010C:</b>		<b>Sample ID:</b>		CV1329A-CS	CV0427B-CS-SP	CV0575A-CS-SP	CV1329A-CS (sieve)	CV0427B-CS- SP (sieve)	CV0575A-CS- SP (sieve)	
		<b>Lab Sample ID:</b>		680-89695-4	680-89695-14	680-89695-18	680-89695-32	680-89695-33	680-89695-34	
		<b>%S:</b>		83.8	76.1	79.5	81.5	77.0	80.4	
		<b>DF:</b>		1	1	1	1	1	1	
		<b>Wt, g:</b>		1.03	1.02	1.01	1.09	1.12	1.06	
<b>Analyte</b>	<b>RL, µg/L</b>	<b>Blank Results, µg/L</b>	<b>Maximum Amount Detected<sup>1</sup>, µg/L</b>	<b>Vol , ml:</b>	100	100	100	100	100	100
		<b>042313-RB- Sieve</b>		<b>Action Level<sup>2</sup>, µg/L</b>	<b>Sample-Specific Blank Contamination Action Levels, mg/Kg</b>					
Lead (Pb)	10	120	120	1200	139	155	149	135	139	141
<b>Reported Sample Result, mg/Kg:</b>					310	430	440	330	480	480
<b>Reporting Limit, mg/Kg:</b>					1.2	1.3	1.2	1.1	1.2	1.2
<b>Blank Contamination Action:</b>					None <sup>3</sup>	None <sup>3</sup>	None <sup>3</sup>	None <sup>3</sup>	None <sup>3</sup>	None <sup>3</sup>

Rinsate blank results reported in micrograms per liter (µg/L). Laboratory blank results and sample-specific blank contamination action levels reported in milligrams per kilogram (mg/Kg).

<sup>1</sup> Maximum amount detected in among all blanks

<sup>2</sup> Maximum amount detected in blanks multiplied by a factor of 10

<sup>3</sup> Qualification of data is not warranted, because the sample concentration is greater than the sample-specific BCAL

**Blank Contamination Actions:**

- o If blank result > RL,
  - Flag sample results ≤ RL with a U
  - Flag positive sample results > RL and ≤10x blank result , as J+ positive results
- o If blank result ≤RL,
  - Flag sample results ≤ RL with a U
  - Flag positive sample results > RL and ≤10x blank result , as J+ positive results

**ATTACHMENT C**

**CASE NARRATIVE**

## Case Narrative

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

TestAmerica Job ID: 680-89695-3  
SDG: 68089695-3

**Job ID: 680-89695-3**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89695-3**

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 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

#### METALS (ICP)-Water

Sample 042313-RB-Sieve (680-89695-35) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

#### TOTAL MERCURY-Water

Sample 042313-RB-Sieve (680-89695-35) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/29/2013 and analyzed on 04/30/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

#### METALS (ICP)

Samples CV1329A-CS (680-89695-4), CV0427B-CS-SP (680-89695-14), CV0575A-CS-SP (680-89695-18), CV1329A-CS (sieve) (680-89695-32), CV0575A-CS-SP (sieve) (680-89695-33) and CV0427B-CS-SP (sieve) (680-89695-34) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/26/2013 and analyzed on 05/01/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 680-275202. Also, Barium and Chromium exceeded the rpd limit.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

#### TOTAL MERCURY

Samples CV1329A-CS (680-89695-4), CV0427B-CS-SP (680-89695-14), CV0575A-CS-SP (680-89695-18), CV1329A-CS (sieve)

## Case Narrative

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

TestAmerica Job ID: 680-89695-3  
SDG: 68089695-3

---

### Job ID: 680-89695-3 (Continued)

---

#### Laboratory: TestAmerica Savannah (Continued)

(680-89695-32), CV0575A-CS-SP (sieve) (680-89695-33) and CV0427B-CS-SP (sieve) (680-89695-34) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013 and 05/02/2013.

Sample CV0575A-CS-SP (sieve) (680-89695-33)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 680-275207.

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 analyses.

All other quality control parameters were within the acceptance limits.

1

2

3

4

5

6

7

8

9

10

11

12

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

# Client Sample Results

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

## Client Sample ID: CV1329A-CS

Lab Sample ID: 680-89695-4

Date Collected: 04/22/13 14:55  
 Date Received: 04/25/13 08:40

Matrix: Solid  
 Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		2.3	0.68	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Barium	260		1.2	0.35	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Cadmium	1.5		0.58	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Chromium	120		1.2	0.58	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Lead	310		1.2	0.61	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	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	J+	0.023	0.0096	mg/Kg	☼	04/30/13 12:32	05/01/13 16:17	1

## Client Sample ID: CV0427B-CS-SP

Lab Sample ID: 680-89695-14

Date Collected: 04/23/13 09:03  
 Date Received: 04/25/13 08:40

Matrix: Solid  
 Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	32		2.6	0.76	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Barium	340		1.3	0.39	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Cadmium	1.7		0.64	0.13	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Chromium	51		1.3	0.64	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Lead	430		1.3	0.68	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Silver	0.46	J	1.3	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	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	0.17		0.023	0.0095	mg/Kg	☼	04/30/13 12:32	05/01/13 16:24	1

## Client Sample ID: CV0575A-CS-SP

Lab Sample ID: 680-89695-18

Date Collected: 04/23/13 13:22  
 Date Received: 04/25/13 08:40

Matrix: Solid  
 Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.5	0.73	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Barium	290		1.2	0.37	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Cadmium	2.9		0.62	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Chromium	55		1.2	0.62	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Lead	440		1.2	0.66	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Silver	0.38	J	1.2	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	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	0.52		0.024	0.0099	mg/Kg	☼	04/30/13 12:32	05/01/13 16:26	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: 680-89695-3  
 SDG: 68089695-3

## Client Sample ID: CV1329A-CS (sieve)

## Lab Sample ID: 680-89695-32

Date Collected: 04/22/13 14:55

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	24		2.3	0.66	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Barium	280		1.1	0.34	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Cadmium	1.3		0.56	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Chromium	87		1.1	0.56	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Lead	330		1.1	0.60	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Silver	1.1	U	1.1	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	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	0.21		0.023	0.0093	mg/Kg	☼	04/30/13 12:32	05/01/13 16:29	1

## Client Sample ID: CV0575A-CS-SP (sieve)

## Lab Sample ID: 680-89695-33

Date Collected: 04/23/13 13:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	24		2.3	0.68	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Barium	300		1.2	0.35	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Cadmium	3.4		0.58	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Chromium	46		1.2	0.58	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Lead	480		1.2	0.61	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Silver	0.43	J	1.2	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	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	0.54		0.044	0.018	mg/Kg	☼	04/30/13 12:32	05/02/13 09:23	2

## Client Sample ID: CV0427B-CS-SP (sieve)

## Lab Sample ID: 680-89695-34

Date Collected: 04/23/13 09:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		2.3	0.69	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Barium	340		1.2	0.35	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Cadmium	1.9		0.59	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Chromium	52		1.2	0.59	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Lead	480		1.2	0.62	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Silver	0.49	J	1.2	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	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	0.17		0.023	0.0096	mg/Kg	☼	04/30/13 12:32	05/01/13 16:34	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: 680-89695-3  
 SDG: 68089695-3

**Client Sample ID: 042313-RB-Sieve**

**Lab Sample ID: 680-89695-35**

**Date Collected: 04/23/13 10:00**

**Matrix: Water**

**Date Received: 04/25/13 08:40**

**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		04/30/13 08:28	05/01/13 06:11	1
Barium	10	U	10	2.3	ug/L		04/30/13 08:28	05/01/13 06:11	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/30/13 08:28	05/01/13 06:11	1
Chromium	10	U	10	1.2	ug/L		04/30/13 08:28	05/01/13 06:11	1
<b>Lead</b>	<b>120</b>		10	4.0	ug/L		04/30/13 08:28	05/01/13 06:11	1
Selenium	20	U	20	6.4	ug/L		04/30/13 08:28	05/01/13 06:11	1
Silver	10	U	10	0.89	ug/L		04/30/13 08:28	05/01/13 06:11	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		04/29/13 10:18	04/30/13 14:26	1

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

## ANALYTICAL REPORT

Job Number: 680-89695-3

SDG Number: 68089695-3

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  
5/7/2013 5:32 PM

---

Designee for

Lisa Harvey

Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

05/07/2013

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.

Savannah Certifications and ID #: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

**TestAmerica Laboratories, Inc.**

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404

Tel (912) 354-7858 Fax (912) 352-0165 [www.testamericainc.com](http://www.testamericainc.com)



# Table of Contents

Cover Title Page .....	1
Data Summaries .....	4
Report Narrative .....	4
Sample Summary .....	6
Method Summary .....	7
Method / Analyst Summary .....	8
Data Qualifiers .....	9
QC Association Summary .....	10
Inorganic Sample Data .....	13
Metals Data .....	13
Met Cover Page .....	14
Met Sample Data .....	15
Met QC Data .....	22
Met ICV/CCV .....	22
Met CRQL .....	30
Met Blanks .....	34
Met ICSA/ICSAB .....	44
Met MS/MSD/PDS .....	48
Met LCS/LCSD .....	56
Met Serial Dilution .....	60
Met MDL .....	62
Met IECF .....	70
Met Preparation Log .....	75
Met Analysis Run Log .....	79
Met Raw Data .....	95
Met Prep Data .....	422

# Table of Contents

Shipping and Receiving Documents . . . . .	431
Client Chain of Custody . . . . .	432
Sample Receipt Checklist . . . . .	435

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89695-3**

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 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

### **METALS (ICP)-Water**

Sample 042313-RB-Sieve (680-89695-35) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

### **TOTAL MERCURY-Water**

Sample 042313-RB-Sieve (680-89695-35) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/29/2013 and analyzed on 04/30/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

### **METALS (ICP)**

Samples CV1329A-CS (680-89695-4), CV0427B-CS-SP (680-89695-14), CV0575A-CS-SP (680-89695-18), CV1329A-CS (sieve) (680-89695-32), CV0575A-CS-SP (sieve) (680-89695-33) and CV0427B-CS-SP (sieve) (680-89695-34) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/26/2013 and analyzed on 05/01/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 680-275202. Also, Barium and Chromium exceeded the rpd limit.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

### **TOTAL MERCURY**

Samples CV1329A-CS (680-89695-4), CV0427B-CS-SP (680-89695-14), CV0575A-CS-SP (680-89695-18), CV1329A-CS (sieve) (680-89695-32), CV0575A-CS-SP (sieve) (680-89695-33) and CV0427B-CS-SP (sieve) (680-89695-34) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013 and 05/02/2013.

Sample CV0575A-CS-SP (sieve) (680-89695-33)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 680-275207.

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 analyses.

All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-3

Sdg Number: 68089695-3

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-89695-4	CV1329A-CS	Solid	04/22/2013 1455	04/25/2013 0840
680-89695-4MS	CV1329A-CS	Solid	04/22/2013 1455	04/25/2013 0840
680-89695-4MSD	CV1329A-CS	Solid	04/22/2013 1455	04/25/2013 0840
680-89695-14	CV0427B-CS-SP	Solid	04/23/2013 0903	04/25/2013 0840
680-89695-18	CV0575A-CS-SP	Solid	04/23/2013 1322	04/25/2013 0840
680-89695-32	CV1329A-CS (sieve)	Solid	04/22/2013 1455	04/25/2013 0840
680-89695-33	CV0575A-CS-SP (sieve)	Solid	04/23/2013 1322	04/25/2013 0840
680-89695-34	CV0427B-CS-SP (sieve)	Solid	04/23/2013 0903	04/25/2013 0840
680-89695-35	042313-RB-Sieve	Water	04/23/2013 1000	04/25/2013 0840



## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-3

Sdg Number: 68089695-3

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: 680-89695-3

Sdg Number: 68089695-3

<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: 680-89695-3

Sdg Number: 68089695-3

<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

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-3

Sdg Number: 68089695-3

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 680-274586</b>					
LCS 680-274586/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-274586/1-A	Method Blank	T	Solid	3050B	
680-89695-4	CV1329A-CS	T	Solid	3050B	
680-89695-4MS	Matrix Spike	T	Solid	3050B	
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-89695-14	CV0427B-CS-SP	T	Solid	3050B	
680-89695-18	CV0575A-CS-SP	T	Solid	3050B	
680-89695-32	CV1329A-CS (sieve)	T	Solid	3050B	
680-89695-33	CV0575A-CS-SP (sieve)	T	Solid	3050B	
680-89695-34	CV0427B-CS-SP (sieve)	T	Solid	3050B	
<b>Prep Batch: 680-274733</b>					
LCS 680-274733/2-A	Lab Control Sample	T	Water	245.1	
MB 680-274733/1-A	Method Blank	T	Water	245.1	
680-89695-35	042313-RB-Sieve	T	Water	245.1	
680-89700-G-1-D MS	Matrix Spike	T	Water	245.1	
680-89700-G-1-E MSD	Matrix Spike Duplicate	T	Water	245.1	
<b>Prep Batch: 680-274866</b>					
LCS 680-274866/2-A	Lab Control Sample	T	Water	200.7	
MB 680-274866/1-A	Method Blank	T	Water	200.7	
680-89693-A-1-B MS	Matrix Spike	T	Water	200.7	
680-89693-A-1-C MSD	Matrix Spike Duplicate	T	Water	200.7	
680-89695-35	042313-RB-Sieve	T	Water	200.7	
<b>Prep Batch: 680-274941</b>					
LCS 680-274941/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-274941/1-A	Method Blank	T	Solid	7471B	
680-89695-4	CV1329A-CS	T	Solid	7471B	
680-89695-4MS	Matrix Spike	T	Solid	7471B	
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-89695-14	CV0427B-CS-SP	T	Solid	7471B	
680-89695-18	CV0575A-CS-SP	T	Solid	7471B	
680-89695-32	CV1329A-CS (sieve)	T	Solid	7471B	
680-89695-33	CV0575A-CS-SP (sieve)	T	Solid	7471B	
680-89695-34	CV0427B-CS-SP (sieve)	T	Solid	7471B	
<b>Analysis Batch:680-275065</b>					
LCS 680-274866/2-A	Lab Control Sample	T	Water	200.7 Rev 4.4	680-274866
MB 680-274866/1-A	Method Blank	T	Water	200.7 Rev 4.4	680-274866
680-89693-A-1-B MS	Matrix Spike	T	Water	200.7 Rev 4.4	680-274866
680-89693-A-1-C MSD	Matrix Spike Duplicate	T	Water	200.7 Rev 4.4	680-274866
680-89695-35	042313-RB-Sieve	T	Water	200.7 Rev 4.4	680-274866

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-3

Sdg Number: 68089695-3

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:680-275100</b>					
LCS 680-274733/2-A	Lab Control Sample	T	Water	245.1	680-274733
MB 680-274733/1-A	Method Blank	T	Water	245.1	680-274733
680-89695-35	042313-RB-Sieve	T	Water	245.1	680-274733
680-89700-G-1-D MS	Matrix Spike	T	Water	245.1	680-274733
680-89700-G-1-E MSD	Matrix Spike Duplicate	T	Water	245.1	680-274733
<b>Analysis Batch:680-275202</b>					
LCS 680-274586/2-A	Lab Control Sample	T	Solid	6010C	680-274586
MB 680-274586/1-A	Method Blank	T	Solid	6010C	680-274586
680-89695-4	CV1329A-CS	T	Solid	6010C	680-274586
680-89695-4MS	Matrix Spike	T	Solid	6010C	680-274586
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	6010C	680-274586
680-89695-14	CV0427B-CS-SP	T	Solid	6010C	680-274586
680-89695-18	CV0575A-CS-SP	T	Solid	6010C	680-274586
680-89695-32	CV1329A-CS (sieve)	T	Solid	6010C	680-274586
680-89695-33	CV0575A-CS-SP (sieve)	T	Solid	6010C	680-274586
680-89695-34	CV0427B-CS-SP (sieve)	T	Solid	6010C	680-274586
<b>Analysis Batch:680-275207</b>					
LCS 680-274941/2-A	Lab Control Sample	T	Solid	7471B	680-274941
MB 680-274941/1-A	Method Blank	T	Solid	7471B	680-274941
680-89695-4	CV1329A-CS	T	Solid	7471B	680-274941
680-89695-4MS	Matrix Spike	T	Solid	7471B	680-274941
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	7471B	680-274941
680-89695-14	CV0427B-CS-SP	T	Solid	7471B	680-274941
680-89695-18	CV0575A-CS-SP	T	Solid	7471B	680-274941
680-89695-32	CV1329A-CS (sieve)	T	Solid	7471B	680-274941
680-89695-33	CV0575A-CS-SP (sieve)	T	Solid	7471B	680-274941
680-89695-34	CV0427B-CS-SP (sieve)	T	Solid	7471B	680-274941

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-3

Sdg Number: 68089695-3

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-136902</b>					
680-89695-4	CV1329A-CS	T	Solid	Moisture	
680-89695-4MS	Matrix Spike	T	Solid	Moisture	
680-89695-4MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89695-14	CV0427B-CS-SP	T	Solid	Moisture	
680-89695-18	CV0575A-CS-SP	T	Solid	Moisture	
<b>Analysis Batch:680-274509</b>					
680-89695-32	CV1329A-CS (sieve)	T	Solid	Moisture	
680-89695-33	CV0575A-CS-SP (sieve)	T	Solid	Moisture	
680-89695-34	CV0427B-CS-SP (sieve)	T	Solid	Moisture	

#### Report Basis

T = Total

# **METALS**

COVER PAGE  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89695-3

SDG No.: 68089695-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV1329A-CS</u>	<u>680-89695-4</u>
<u>CV0427B-CS-SP</u>	<u>680-89695-14</u>
<u>CV0575A-CS-SP</u>	<u>680-89695-18</u>
<u>CV1329A-CS (sieve)</u>	<u>680-89695-32</u>
<u>CV0575A-CS-SP (sieve)</u>	<u>680-89695-33</u>
<u>CV0427B-CS-SP (sieve)</u>	<u>680-89695-34</u>
<u>042313-RB-Sieve</u>	<u>680-89695-35</u>

Comments:



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1329A-CS

Lab Sample ID: 680-89695-4

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG ID.: 68089695-3

Matrix: Solid

Date Sampled: 04/22/2013 14:55

Reporting Basis: DRY

Date Received: 04/25/2013 08:40

% Solids: 83.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	23	2.3	0.68	mg/Kg			1	6010C
7440-39-3	Barium	260	1.2	0.35	mg/Kg			1	6010C
7440-43-9	Cadmium	1.5	0.58	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	120	1.2	0.58	mg/Kg			1	6010C
7439-92-1	Lead	310	1.2	0.61	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	0.16	0.023	0.0096	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0427B-CS-SP Lab Sample ID: 680-89695-14  
 Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG ID.: 68089695-3  
 Matrix: Solid Date Sampled: 04/23/2013 09:03  
 Reporting Basis: DRY Date Received: 04/25/2013 08:40  
 % Solids: 76.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	32	2.6	0.76	mg/Kg			1	6010C
7440-39-3	Barium	340	1.3	0.39	mg/Kg			1	6010C
7440-43-9	Cadmium	1.7	0.64	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	51	1.3	0.64	mg/Kg			1	6010C
7439-92-1	Lead	430	1.3	0.68	mg/Kg			1	6010C
7782-49-2	Selenium	3.2	3.2	1.3	mg/Kg	U		1	6010C
7440-22-4	Silver	0.46	1.3	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.17	0.023	0.0095	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0575A-CS-SP Lab Sample ID: 680-89695-18  
 Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG ID.: 68089695-3  
 Matrix: Solid Date Sampled: 04/23/2013 13:22  
 Reporting Basis: DRY Date Received: 04/25/2013 08:40  
 % Solids: 79.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	28	2.5	0.73	mg/Kg			1	6010C
7440-39-3	Barium	290	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	2.9	0.62	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	55	1.2	0.62	mg/Kg			1	6010C
7439-92-1	Lead	440	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	0.38	1.2	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.52	0.024	0.0099	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV1329A-CS (sieve)

Lab Sample ID: 680-89695-32

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG ID.: 68089695-3

Matrix: Solid

Date Sampled: 04/22/2013 14:55

Reporting Basis: DRY

Date Received: 04/25/2013 08:40

% Solids: 81.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	24	2.3	0.66	mg/Kg			1	6010C
7440-39-3	Barium	280	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	1.3	0.56	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	87	1.1	0.56	mg/Kg			1	6010C
7439-92-1	Lead	330	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	1.1	1.1	0.11	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.21	0.023	0.0093	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0575A-CS-SP (sieve)

Lab Sample ID: 680-89695-33

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG ID.: 68089695-3

Matrix: Solid

Date Sampled: 04/23/2013 13:22

Reporting Basis: DRY

Date Received: 04/25/2013 08:40

% Solids: 77.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	24	2.3	0.68	mg/Kg			1	6010C
7440-39-3	Barium	300	1.2	0.35	mg/Kg			1	6010C
7440-43-9	Cadmium	3.4	0.58	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	46	1.2	0.58	mg/Kg			1	6010C
7439-92-1	Lead	480	1.2	0.61	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.43	1.2	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.54	0.044	0.018	mg/Kg			2	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0427B-CS-SP (sieve)

Lab Sample ID: 680-89695-34

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG ID.: 68089695-3

Matrix: Solid

Date Sampled: 04/23/2013 09:03

Reporting Basis: DRY

Date Received: 04/25/2013 08:40

% Solids: 80.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	25	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	1.9	0.59	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	52	1.2	0.59	mg/Kg			1	6010C
7439-92-1	Lead	480	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	0.49	1.2	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.17	0.023	0.0096	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 042313-RB-Sieve

Lab Sample ID: 680-89695-35

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG ID.: 68089695-3

Matrix: Water

Date Sampled: 04/23/2013 10:00

Reporting Basis: WET

Date Received: 04/25/2013 08:40

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 Rev 4.4
7440-39-3	Barium	10	10	2.3	ug/L	U		1	200.7 Rev 4.4
7440-43-9	Cadmium	5.0	5.0	2.0	ug/L	U		1	200.7 Rev 4.4
7440-47-3	Chromium	10	10	1.2	ug/L	U		1	200.7 Rev 4.4
7439-92-1	Lead	120	10	4.0	ug/L			1	200.7 Rev 4.4
7782-49-2	Selenium	20	20	6.4	ug/L	U		1	200.7 Rev 4.4
7440-22-4	Silver	10	10	0.89	ug/L	U		1	200.7 Rev 4.4
7439-97-6	Mercury	0.20	0.20	0.091	ug/L	U		1	245.1

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

ICV Source: P\_ICV\_wk\_00213 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00110

Analyte	ICV 680-275202/4 05/01/2013 12:19				CCV 680-275202/21 05/01/2013 13:58				CCV 680-275202/33 05/01/2013 15:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	959		1000	96	510		500	102	498		500	100
<b>Barium</b>	1030		1000	103	5300		5000	106	5100		5000	102
<b>Cadmium</b>	1040		1000	104	537		500	107	519		500	104
<b>Chromium</b>	1020		1000	102	5350		5000	107	5150		5000	103
<b>Lead</b>	1000		1000	100	509		500	102	494		500	99
<b>Selenium</b>	975		1000	98	5110		5000	102	4930		5000	99
<b>Silver</b>	992		1000	99	522		500	104	502		500	100

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



2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

ICV Source: P\_ICV\_wk\_00213 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00110

Analyte	CCV 680-275202/45 05/01/2013 16:09											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	499		500	100								
<b>Barium</b>	5070		5000	101								
<b>Cadmium</b>	518		500	104								
<b>Chromium</b>	5150		5000	103								
<b>Lead</b>	493		500	99								
<b>Selenium</b>	4920		5000	98								
<b>Silver</b>	498		500	100								

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

ICV Source: P\_ICV\_wk\_00213 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00110

Analyte	ICV 680-275065/4 04/30/2013 16:02				CCV 680-275065/139 05/01/2013 04:27				CCV 680-275065/151 05/01/2013 05:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	1010		1000	101	533		500	107	537		500	107
<b>Barium</b>	1050		1000	105	5180		5000	104	5200		5000	104
<b>Cadmium</b>	1050		1000	105	527		500	105	529		500	106
<b>Chromium</b>	1040		1000	104	5370		5000	107	5400		5000	108
<b>Lead</b>	1020		1000	102	504		500	101	512		500	102
<b>Selenium</b>	994		1000	99	4900		5000	98	4920		5000	98
<b>Silver</b>	987		1000	99	502		500	100	505		500	101

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

ICV Source: P\_ICV\_wk\_00213 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00110

Analyte	CCV 680-275065/163 05/01/2013 06:38											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	508		500	102								
<b>Barium</b>	4990		5000	100								
<b>Cadmium</b>	506		500	101								
<b>Chromium</b>	5200		5000	104								
<b>Lead</b>	492		500	98								
<b>Selenium</b>	4680		5000	94								
<b>Silver</b>	487		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.: 680-89695-3

SDG No.: 68089695-3

ICV Source: hg\_icvint\_00085 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00091

Analyte	ICV 680-274733/29-A 04/30/2013 11:56				CCV 680-274733/26-A 04/30/2013 13:32				CCV 680-274733/26-A 04/30/2013 14:01			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	3.12		3.00	104	2.63		2.50	105	2.52		2.50	101

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

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

ICV Source: hg\_icvint\_00085 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00091

Analyte	CCV 680-274733/26-A 04/30/2013 14:31				CCV 680-274733/26-A 05/01/2013 10:25				CCV 680-274733/26-A 05/01/2013 10:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	2.53		2.50	101	2.38		2.50	95	2.32		2.50	93

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.: 680-89695-3

SDG No.: 68089695-3

ICV Source: hg\_icvint\_00085 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00091

Analyte	ICV 680-274939/33-A 05/01/2013 15:59				CCV 680-274939/30-A 05/01/2013 16:07				CCV 680-274939/30-A 05/01/2013 16:36			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	3.09		3.00	103	2.53		2.50	101	2.42		2.50	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.: 680-89695-3

SDG No.: 68089695-3

ICV Source: hg\_icvint\_00085 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00091

Analyte	CCV 680-274939/30-A 05/02/2013 09:18				CCV 680-274939/30-A 05/02/2013 09:25							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	1.99		2.50	80	2.14		2.50	86				

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.: 680-89695-3  
 SDG No.: 68089695-3  
 Method: 200.7 Rev 4.4 Instrument ID: ICPF  
 Lab Sample ID: CRI 680-275065/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	25.2		126	50-150
Barium	10.0	10.2		102	50-150
Cadmium	5.00	5.43		109	50-150
Chromium	10.0	10.9		109	50-150
Lead	10.0	9.15	J	92	50-150
Selenium	20.0	23.7		119	50-150
Silver	10.0	9.97	J	100	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.: 680-89695-3  
 SDG No.: 68089695-3  
 Method: 6010C Instrument ID: ICPE  
 Lab Sample ID: CRI 680-275202/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	19.2	J	96	50-150
Barium	10.0	10.0		100	50-150
Cadmium	5.00	5.20		104	50-150
Chromium	10.0	10.4		104	50-150
Lead	10.0	8.33	J	83	50-150
Selenium	20.0	24.4	J	122	50-150
Silver	10.0	10.2		102	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.: 680-89695-3  
 SDG No.: 68089695-3  
 Method: 245.1 Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-274733/31-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00091

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.213		106	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.: 680-89695-3  
 SDG No.: 68089695-3  
 Method: 7471B Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-274939/35-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00091

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.203		101	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.: 680-89695-3

SDG No.: 68089695-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-275202/5 05/01/2013 12:25		CCB 680-275202/22 05/01/2013 14:04		CCB 680-275202/34 05/01/2013 15:09		CCB 680-275202/46 05/01/2013 16:15	
		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.: 680-89695-3

SDG No.: 68089695-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-275065/5 04/30/2013 16:08		CCB 680-275065/140 05/01/2013 04:32		CCB 680-275065/152 05/01/2013 05:38		CCB 680-275065/164 05/01/2013 06:44	
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	5.97	J	8.77	J	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	7.11	J	20	U	7.07	J
<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.: 680-89695-3

SDG No.: 68089695-3

Concentration Units: ug/L

Analyte	RL	ICB 680-274733/30-A 04/30/2013 11:58		CCB 680-274733/27-A 04/30/2013 13:34		CCB 680-274733/27-A 04/30/2013 14:04		CCB 680-274733/27-A 04/30/2013 14:33	
		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.: 680-89695-3

SDG No.: 68089695-3

Concentration Units: ug/L

Analyte	RL	CCB 680-274733/27-A 05/01/2013 10:27		CCB 680-274733/27-A 05/01/2013 10:35		Found	C	Found	C
		Found	C	Found	C				
<b>Mercury</b>	0.20	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.: 680-89695-3

SDG No.: 68089695-3

Concentration Units: ug/L

Analyte	RL	ICB 680-274939/34-A 05/01/2013 16:02		CCB 680-274939/31-A 05/01/2013 16:09		CCB 680-274939/31-A 05/01/2013 16:39		CCB 680-274939/31-A 05/02/2013 09:20	
		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.: 680-89695-3

SDG No.: 68089695-3

Concentration Units: ug/L

Analyte	RL	CCB 680-274939/31-A 05/02/2013 09:28							
		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.: 680-89695-3  
SDG No.: 68089695-3  
Concentration Units: ug/L Lab Sample ID: MB 680-274866/1-A  
Instrument Code: ICPF Batch No.: 275065

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.: 680-89695-3  
SDG No.: 68089695-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-274586/1-A  
Instrument Code: ICPE Batch No.: 275202

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.: 680-89695-3  
SDG No.: 68089695-3  
Concentration Units: ug/L Lab Sample ID: MB 680-274733/1-A  
Instrument Code: LEEMAN2 Batch No.: 275100

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.: 680-89695-3  
SDG No.: 68089695-3  
Concentration Units: mg/Kg Lab Sample ID: MB 680-274941/1-A  
Instrument Code: LEEMAN2 Batch No.: 275207

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.018	U		7471B

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG No.: 68089695-3

Lab Sample ID: ICSA 680-275065/7

Instrument ID: ICPF

Lab File ID: F04302013P.csv

ICS Source: P\_ICSA\_wk\_00032

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Arsenic</b>		<b>-5.68</b>	
<b>Barium</b>		<b>-2.46</b>	
<b>Cadmium</b>		<b>1.23</b>	
<b>Chromium</b>		<b>-1.25</b>	
<b>Lead</b>		<b>3.83</b>	
<b>Selenium</b>		<b>6.06</b>	
<b>Silver</b>		<b>-0.691</b>	
<i>Aluminum</i>	<i>500000</i>	<i>572934</i>	<i>115</i>
<i>Antimony</i>		<i>-7.53</i>	
<i>Beryllium</i>		<i>-0.0720</i>	
<i>Boron</i>		<i>3.70</i>	
<i>Calcium</i>	<i>500000</i>	<i>530243</i>	<i>106</i>
<i>Cobalt</i>		<i>0.522</i>	
<i>Copper</i>		<i>8.45</i>	
<i>Iron</i>	<i>200000</i>	<i>197485</i>	<i>99</i>
<i>Magnesium</i>	<i>500000</i>	<i>562239</i>	<i>112</i>
<i>Manganese</i>		<i>2.05</i>	
<i>Molybdenum</i>		<i>-2.61</i>	
<i>Nickel</i>		<i>2.85</i>	
<i>Potassium</i>		<i>3.04</i>	
<i>Sodium</i>		<i>424</i>	
<i>Strontium</i>		<i>5.60</i>	
<i>Thallium</i>		<i>-0.468</i>	
<i>Tin</i>		<i>4.61</i>	
<i>Titanium</i>		<i>6.30</i>	
<i>Vanadium</i>		<i>1.06</i>	
<i>Zinc</i>		<i>9.87</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.: 680-89695-3

SDG No.: 68089695-3

Lab Sample ID: ICSAB 680-275065/8

Instrument ID: ICPF

Lab File ID: F04302013P.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>109</b>	<b>109</b>
<b>Barium</b>	<b>500</b>	<b>527</b>	<b>105</b>
<b>Cadmium</b>	<b>1000</b>	<b>1013</b>	<b>101</b>
<b>Chromium</b>	<b>500</b>	<b>523</b>	<b>105</b>
<b>Lead</b>	<b>50.0</b>	<b>55.9</b>	<b>112</b>
<b>Selenium</b>	<b>50.0</b>	<b>59.0</b>	<b>118</b>
<b>Silver</b>	<b>200</b>	<b>223</b>	<b>111</b>
<i>Aluminum</i>	<i>500000</i>	<i>565884</i>	<i>113</i>
<i>Antimony</i>	<i>600</i>	<i>608</i>	<i>101</i>
<i>Beryllium</i>	<i>500</i>	<i>518</i>	<i>104</i>
<i>Boron</i>		<i>3.32</i>	
<i>Calcium</i>	<i>500000</i>	<i>523137</i>	<i>105</i>
<i>Cobalt</i>	<i>500</i>	<i>499</i>	<i>100</i>
<i>Copper</i>	<i>500</i>	<i>583</i>	<i>117</i>
<i>Iron</i>	<i>200000</i>	<i>194735</i>	<i>97</i>
<i>Magnesium</i>	<i>500000</i>	<i>557254</i>	<i>111</i>
<i>Manganese</i>	<i>500</i>	<i>531</i>	<i>106</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1096</i>	<i>110</i>
<i>Nickel</i>	<i>1000</i>	<i>995</i>	<i>99</i>
<i>Potassium</i>		<i>2.47</i>	
<i>Sodium</i>		<i>220</i>	
<i>Strontium</i>		<i>4.93</i>	
<i>Thallium</i>	<i>100</i>	<i>84.8</i>	<i>85</i>
<i>Tin</i>	<i>1000</i>	<i>1031</i>	<i>103</i>
<i>Titanium</i>		<i>-0.110</i>	
<i>Vanadium</i>	<i>500</i>	<i>506</i>	<i>101</i>
<i>Zinc</i>	<i>1000</i>	<i>992</i>	<i>99</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.: 680-89695-3

SDG No.: 68089695-3

Lab Sample ID: ICSA 680-275202/7

Instrument ID: ICPE

Lab File ID: E05012013.csv

ICS Source: P\_ICSA\_wk\_00032

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Arsenic</b>		<b>-0.416</b>	
<b>Barium</b>		<b>-3.07</b>	
<b>Cadmium</b>		<b>0.975</b>	
<b>Chromium</b>		<b>0.641</b>	
<b>Lead</b>		<b>6.10</b>	
<b>Selenium</b>		<b>-1.46</b>	
<b>Silver</b>		<b>-0.0226</b>	
<i>Aluminum</i>	<i>500000</i>	<i>597208</i>	<i>119</i>
<i>Antimony</i>		<i>-0.302</i>	
<i>Beryllium</i>		<i>-0.204</i>	
<i>Boron</i>		<i>-21.5</i>	
<i>Calcium</i>	<i>500000</i>	<i>533009</i>	<i>107</i>
<i>Cobalt</i>		<i>-0.126</i>	
<i>Copper</i>		<i>-0.179</i>	
<i>Iron</i>	<i>200000</i>	<i>205408</i>	<i>103</i>
<i>Magnesium</i>	<i>500000</i>	<i>572180</i>	<i>114</i>
<i>Manganese</i>		<i>0.464</i>	
<i>Molybdenum</i>		<i>1.31</i>	
<i>Nickel</i>		<i>4.75</i>	
<i>Potassium</i>		<i>2.59</i>	
<i>Sodium</i>		<i>-125</i>	
<i>Strontium</i>		<i>10.3</i>	
<i>Thallium</i>		<i>-6.00</i>	
<i>Tin</i>		<i>-3.29</i>	
<i>Titanium</i>		<i>-0.525</i>	
<i>Vanadium</i>		<i>1.54</i>	
<i>Zinc</i>		<i>7.49</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.: 680-89695-3

SDG No.: 68089695-3

Lab Sample ID: ICSAB 680-275202/8

Instrument ID: ICPE

Lab File ID: E05012013.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>108</b>	<b>108</b>
<b>Barium</b>	<b>500</b>	<b>544</b>	<b>109</b>
<b>Cadmium</b>	<b>1000</b>	<b>1052</b>	<b>105</b>
<b>Chromium</b>	<b>500</b>	<b>540</b>	<b>108</b>
<b>Lead</b>	<b>50.0</b>	<b>58.4</b>	<b>117</b>
<b>Selenium</b>	<b>50.0</b>	<b>42.1</b>	<b>84</b>
<b>Silver</b>	<b>200</b>	<b>235</b>	<b>118</b>
<i>Aluminum</i>	<i>500000</i>	<i>589042</i>	<i>118</i>
<i>Antimony</i>	<i>600</i>	<i>682</i>	<i>114</i>
<i>Beryllium</i>	<i>500</i>	<i>534</i>	<i>107</i>
<i>Boron</i>		<i>-25.5</i>	
<i>Calcium</i>	<i>500000</i>	<i>525475</i>	<i>105</i>
<i>Cobalt</i>	<i>500</i>	<i>525</i>	<i>105</i>
<i>Copper</i>	<i>500</i>	<i>597</i>	<i>119</i>
<i>Iron</i>	<i>200000</i>	<i>202455</i>	<i>101</i>
<i>Magnesium</i>	<i>500000</i>	<i>568167</i>	<i>114</i>
<i>Manganese</i>	<i>500</i>	<i>541</i>	<i>108</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1137</i>	<i>114</i>
<i>Nickel</i>	<i>1000</i>	<i>1026</i>	<i>103</i>
<i>Potassium</i>		<i>0.780</i>	
<i>Sodium</i>		<i>-199</i>	
<i>Strontium</i>		<i>13.6</i>	
<i>Thallium</i>	<i>100</i>	<i>94.9</i>	<i>95</i>
<i>Tin</i>	<i>1000</i>	<i>1081</i>	<i>108</i>
<i>Titanium</i>		<i>-7.07</i>	
<i>Vanadium</i>	<i>500</i>	<i>522</i>	<i>104</i>
<i>Zinc</i>	<i>1000</i>	<i>1015</i>	<i>101</i>

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

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV1329A-CS MS

Lab ID: 680-89695-4 MS

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG No.: 68089695-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 83.8

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	34.5	23	11.7	102	75-125		6010C
Barium	236	260	11.7	-220	75-125	4	6010C
Cadmium	7.03	1.5	5.85	94	75-125		6010C
Chromium	195	120	11.7	628	75-125	4	6010C
Lead	287	310	5.85	-380	75-125	4	6010C
Selenium	9.43	2.9 U	11.7	81	75-125		6010C
Silver	6.30	1.2 U	5.85	108	75-125		6010C
Mercury	0.300	0.16	0.101	136	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: 680-89700-G-1-D MS  
 Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG No.: 68089695-3  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.01	0.20 U	1.00	101	70-130		245.1

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: \_\_\_\_\_ Lab ID: 680-89693-A-1-B MS  
 Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG No.: 68089695-3  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	105	20	U	100	105	75-125		200.7 Rev 4.4
Barium	113	5.6	J	100	107	75-125		200.7 Rev 4.4
Cadmium	55.3	5.0	U	50.0	111	75-125		200.7 Rev 4.4
Chromium	112	1.7	J	100	110	75-125		200.7 Rev 4.4
Lead	71.0	21		50.0	99	75-125		200.7 Rev 4.4
Selenium	98.3	20	U	100	98	75-125		200.7 Rev 4.4
Silver	52.1	10	U	50.0	104	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 DUPLICATE SAMPLE RECOVERY  
METALS

Client ID: CV1329A-CS MSD

Lab ID: 680-89695-4 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG No.: 68089695-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 83.8

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	37.1	11.7	124	75-125	7	20		6010C
Barium	310	11.7	415	75-125	27	20	4 F	6010C
Cadmium	8.59	5.85	120	75-125	20	20		6010C
Chromium	117	11.7	-43	75-125	50	20	4 F	6010C
Lead	337	5.85	480	75-125	16	20	4	6010C
Selenium	9.60	11.7	82	75-125	2	20		6010C
Silver	6.32	5.85	108	75-125	0	20		6010C
Mercury	0.330	0.103	164	80-120	10	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: 680-89700-G-1-E MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG No.: 68089695-3  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.968	1.00	97	70-130	5	20		245.1

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: \_\_\_\_\_ Lab ID: 680-89693-A-1-C MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG No.: 68089695-3  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	98.0	100	98	75-125	6	20		200.7 Rev 4.4
Barium	111	100	106	75-125	1	20		200.7 Rev 4.4
Cadmium	54.6	50.0	109	75-125	1	20		200.7 Rev 4.4
Chromium	111	100	109	75-125	1	20		200.7 Rev 4.4
Lead	72.2	50.0	102	75-125	2	20		200.7 Rev 4.4
Selenium	110	100	110	75-125	12	20		200.7 Rev 4.4
Silver	51.3	50.0	103	75-125	1	20		200.7 Rev 4.4

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: CV1329A-CS PDS

Lab ID: 680-89695-4 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG No.: 68089695-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	260	23	232	102	75-125		6010C
Barium	487	260	232	97	75-125		6010C
Cadmium	7.17	1.5	5.79	97	75-125		6010C
Chromium	143	120	23.2	92	75-125		6010C
Lead	358	310	57.9	85	75-125		6010C
Selenium	229	2.9	232	99	75-125		6010C
Silver	5.93	1.2	5.79	102	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: \_\_\_\_\_ Lab ID: 680-89693-A-1-A PDS  
 Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG No.: 68089695-3  
 Matrix: Water Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	2060	20 U	2000	103	75-125		200.7 Rev 4.4
Barium	2150	5.6 J	2000	107	75-125		200.7 Rev 4.4
Cadmium	54.9	5.0 U	50.0	110	75-125		200.7 Rev 4.4
Chromium	224	1.7 J	200	111	75-125		200.7 Rev 4.4
Lead	546	21	500	105	75-125		200.7 Rev 4.4
Selenium	2030	20 U	2000	102	75-125		200.7 Rev 4.4
Silver	51.1	10 U	50.0	102	75-125		200.7 Rev 4.4

SSR = Spiked Sample Result

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

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-274866/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

Sample Matrix: Water

LCS Source: MS\_LCS1\_WK\_00003

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	100	110		110	85	115		200.7 Rev 4.4
Barium	100	106		106	85	115		200.7 Rev 4.4
Cadmium	50.0	54.5		109	85	115		200.7 Rev 4.4
Chromium	100	110		110	85	115		200.7 Rev 4.4
Lead	50.0	52.5		105	85	115		200.7 Rev 4.4
Selenium	100	101		101	85	115		200.7 Rev 4.4
Silver	50.0	52.4		105	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 680-274586/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

Sample Matrix: Solid

LCS Source: MS\_LCS1\_WK\_00003

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	9.90	10.2		103	75	125		6010C
Barium	9.90	10.5		106	75	125		6010C
Cadmium	4.95	5.38		109	75	125		6010C
Chromium	9.90	10.8		109	75	125		6010C
Lead	4.95	5.09		103	75	125		6010C
Selenium	9.90	10.4		105	75	125		6010C
Silver	4.95	5.21		105	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 680-274733/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

Sample Matrix: Water

LCS Source: Hg\_Int\_Cal\_00091

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.50	2.26		90	85	115		245.1

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 680-274941/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

Sample Matrix: Solid

LCS Source: Hg\_Int\_Cal\_00091

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.236	0.235		100	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: 680-89695-4

SDG No: 68089695-3

Lab Name: TestAmerica Savannah

Job No: 680-89695-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	23		22.2		NC		6010C
Barium	260		277		5.9		6010C
Cadmium	1.5		1.46	J	NC		6010C
Chromium	120		130		6.5		6010C
Lead	310		334		7.8		6010C
Selenium	2.9	U	14	U	NC		6010C
Silver	1.2	U	5.8	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: 680-89693-A-1-A SD ^5

SDG No: 68089695-3

Lab Name: TestAmerica Savannah

Job No: 680-89695-3

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	5.6	J	50	U	NC		200.7 Rev 4.4
Cadmium	5.0	U	25	U	NC		200.7 Rev 4.4
Chromium	1.7	J	50	U	NC		200.7 Rev 4.4
Lead	21		40.3	J	NC		200.7 Rev 4.4
Selenium	20	U	40.8	J	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

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89695-3

SDG Number: 68089695-3

Matrix: Water

Instrument ID: ICPF

Method: 200.7 Rev 4.4

MDL Date: 06/02/2009 00:00

Prep Method: 200.7

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (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: 680-89695-3  
SDG Number: 68089695-3  
Matrix: Water Instrument ID: ICPF  
Method: 200.7 Rev 4.4 XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (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: 680-89695-3

SDG Number: 68089695-3

Matrix: Solid

Instrument ID: ICPE

Method: 6010C

MDL Date: 06/02/2009 00:00

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (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: 680-89695-3

SDG Number: 68089695-3

Matrix: Solid

Instrument ID: ICPE

Method: 6010C

XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (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: 680-89695-3

SDG Number: 68089695-3

Matrix: Water

Instrument ID: LEEMAN2

Method: 245.1

MDL Date: 06/02/2009 00:00

Prep Method: 245.1

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.091

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89695-3

SDG Number: 68089695-3

Matrix: Water

Instrument ID: LEEMAN2

Method: 245.1

XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.091

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89695-3

SDG Number: 68089695-3

Matrix: Solid

Instrument ID: LEEMAN2

Method: 7471B

MDL Date: 06/02/2009 00:00

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.02	0.0082

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89695-3  
SDG Number: 68089695-3  
Matrix: Solid Instrument ID: LEEMAN2  
Method: 7471B XMDL Date: 06/01/2008 15:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.08

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89695-3

SDG No.: 68089695-3

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: 680-89695-3

SDG No.: 68089695-3

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													

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89695-3

SDG No.: 68089695-3

ICP-AES Instrument ID: ICPF

Date: 03/05/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215										0.000440		-0.000039		
Antimony	206.834						0.009150	0.000014			0.014330		0.000041		
Arsenic	188.980							-0.000037			0.000600		-0.000005		
Barium	389.178												0.000071		0.000112
Beryllium	313.042														
Boron	249.678									0.002360			-0.000270		
Cadmium	226.502		0.000003										0.000095		
Calcium	370.602												-0.048770		
Chromium	267.716								-0.000130				-0.000034		
Cobalt	228.615					0.000070			-0.000190		0.000076		0.000002		
Copper	324.754						0.000119	-0.000074					0.000009		0.000002
Iron	271.441									0.060870	-0.002240				
Lead	220.353		-0.000136							-0.000140	-0.001020		-0.000007		
Magnesium	279.078												-0.003105		
Manganese	257.610												0.000012		0.000026
Molybdenum	202.032		0.000004										-0.000038		
Nickel	231.604									-0.000240			0.000021		0.000013
Potassium	766.491					-0.002100									
Selenium	196.026		0.000013					0.000011					-0.000075		0.000022
Silicon								-0.000006							
Silver	328.068										-0.000140	-0.000026	-0.000006		
Sodium	330.237												-0.007294		
Strontium	216.596		0.000003					0.000007				-0.000140	0.000079		
Thallium	190.794		-0.000024					-0.000020		0.003520			-0.000092		
Tin	189.925							-0.000006							
Titanium	334.941							0.000005			0.000270	-0.000008			
Vanadium	292.401										-0.002120		0.000007		
Zinc	206.200										-0.001240		0.000008		0.000011

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89695-3

SDG No.: 68089695-3

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

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	SiO2	Sn	Sr	Ti	Tl	V
Aluminum	308.215		0.007900												0.017120
Antimony	206.834		-0.003260								-0.002880		-0.002430		-0.001820
Arsenic	188.980		0.000460		-0.000500										0.000060
Barium	389.178		0.000300												0.000175
Beryllium	313.042		-0.000060												0.000390
Boron	249.678		-0.001000												
Cadmium	226.502												0.001740		
Calcium	370.602	0.007600											0.027800		0.003440
Chromium	267.716		0.000040										0.000047		-0.000440
Cobalt	228.615		-0.002040								-0.000032		0.001740		
Copper	324.754	0.000076	0.000200		0.000190								-0.000180		-0.000500
Iron	271.441		0.001700												0.012440
Lead	220.353		-0.001730												
Magnesium	279.078	-0.001500													
Manganese	257.610												0.000110		
Molybdenum	202.032														-0.000540
Nickel	231.604		-0.000050				-0.000029							0.000200	
Potassium	766.491														
Selenium	196.026	0.000690													
Silicon															
Silver	328.068	0.000140	0.00000										-0.000110		0.000028
Sodium	330.237												-0.109400		
Strontium	216.596		-0.002900		-0.006100										
Thallium	190.794		-0.002200										0.001400		0.002320
Tin	189.925												0.000400		
Titanium	334.941														0.000028
Vanadium	292.401	-0.000070	-0.008290										0.000324		
Zinc	206.200														

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89695-3

SDG No.: 68089695-3

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

Analyte	Wave Length	Zn													
Aluminum	308.215														
Antimony	206.834														
Arsenic	188.980														
Barium	389.178														
Beryllium	313.042														
Boron	249.678														
Cadmium	226.502														
Calcium	370.602														
Chromium	267.716														
Cobalt	228.615														
Copper	324.754														
Iron	271.441														
Lead	220.353														
Magnesium	279.078														
Manganese	257.610														
Molybdenum	202.032														
Nickel	231.604														
Potassium	766.491														
Selenium	196.026														
Silicon															
Silver	328.068														
Sodium	330.237	0.024999													
Strontium	216.596														
Thallium	190.794														
Tin	189.925														
Titanium	334.941														
Vanadium	292.401														
Zinc	206.200														

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG No.: 68089695-3

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-274586/1-A	04/26/2013 15:13	274586	1.02		100
LCS 680-274586/2-A	04/26/2013 15:13	274586	1.01		100
680-89695-4	04/26/2013 15:13	274586	1.03		100
680-89695-4 MS	04/26/2013 15:13	274586	1.02		100
680-89695-4 MSD	04/26/2013 15:13	274586	1.02		100
680-89695-14	04/26/2013 15:13	274586	1.02		100
680-89695-18	04/26/2013 15:13	274586	1.01		100
680-89695-32	04/26/2013 15:13	274586	1.09		100
680-89695-33	04/26/2013 15:13	274586	1.12		100
680-89695-34	04/26/2013 15:13	274586	1.06		100

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG No.: 68089695-3

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-274866/1-A	04/30/2013 08:28	274866		50	50
LCS 680-274866/2-A	04/30/2013 08:28	274866		50	50
680-89693-A-1-B MS	04/30/2013 08:28	274866		50	50
680-89693-A-1-C MSD	04/30/2013 08:28	274866		50	50
680-89695-35	04/30/2013 08:28	274866		50	50

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89695-3

SDG No.: 68089695-3

Prep Method: 245.1

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-274733/1-A	04/29/2013 10:18	274733		50	50
LCS 680-274733/2-A	04/29/2013 10:18	274733		50	50
680-89700-G-1-D MS	04/29/2013 10:18	274733		50	50
680-89700-G-1-E MSD	04/29/2013 10:18	274733		50	50
680-89695-35	04/29/2013 10:18	274733		50	50

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-274941/1-A	04/30/2013 12:32	274941	0.55		50
LCS 680-274941/2-A	04/30/2013 12:32	274941	0.53		50
680-89695-4	04/30/2013 12:32	274941	0.51		50
680-89695-4 MS	04/30/2013 12:32	274941	0.59		50
680-89695-4 MSD	04/30/2013 12:32	274941	0.58		50
680-89695-14	04/30/2013 12:32	274941	0.57		50
680-89695-18	04/30/2013 12:32	274941	0.52		50
680-89695-32	04/30/2013 12:32	274941	0.54		50
680-89695-33	04/30/2013 12:32	274941	0.59		50
680-89695-34	04/30/2013 12:32	274941	0.53		50



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPF Method: 200.7 Rev 4.4

Start Date: 04/30/2013 15:46 End Date: 05/01/2013 10:13

Lab Sample ID	D / F	Type	Time	Analytes																
				A g	A s	B a	C d	C r	P b	S e										
ZZZZZZ			15:46																	
ZZZZZZ			15:51																	
ZZZZZZ			15:57																	
ICV 680-275065/4	1		16:02	X	X	X	X	X	X	X										
ICBIS 680-275065/5	1		16:08	X	X	X	X	X	X	X										
CRI 680-275065/6	1		16:13	X	X	X	X	X	X	X										
ICSA 680-275065/7	1		16:23	X	X	X	X	X	X	X										
ICSAB 680-275065/8	1		16:28	X	X	X	X	X	X	X										
CCV 680-275065/9			16:35																	
CCB 680-275065/10			16:41																	
ZZZZZZ			16:46																	
ZZZZZZ			16:52																	
ZZZZZZ			16:57																	
ZZZZZZ			17:03																	
ZZZZZZ			17:08																	
ZZZZZZ			17:13																	
ZZZZZZ			17:19																	
ZZZZZZ			17:24																	
ZZZZZZ			17:30																	
ZZZZZZ			17:35																	
CCV 680-275065/21			17:41																	
CCB 680-275065/22			17:46																	
ZZZZZZ			17:52																	
ZZZZZZ			17:57																	
ZZZZZZ			18:03																	
ZZZZZZ			18:08																	
ZZZZZZ			18:13																	
ZZZZZZ			18:21																	
ZZZZZZ			18:27																	
ZZZZZZ			18:32																	
ZZZZZZ			18:37																	
ZZZZZZ			18:43																	
CCV 680-275065/33			18:48																	
CCB 680-275065/34			18:54																	
ZZZZZZ			18:59																	
ZZZZZZ			19:05																	
ZZZZZZ			19:10																	
ZZZZZZ			19:16																	
ZZZZZZ			19:21																	
ZZZZZZ			19:26																	
ZZZZZZ			19:32																	
ZZZZZZ			19:37																	

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPF Method: 200.7 Rev 4.4

Start Date: 04/30/2013 15:46 End Date: 05/01/2013 10:13

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			19:43																
ZZZZZZ			19:48																
CCV 680-275065/45			19:54																
CCB 680-275065/46			19:59																
ZZZZZZ			20:05																
ZZZZZZ			20:10																
ZZZZZZ			20:16																
ZZZZZZ			20:21																
ZZZZZZ			20:26																
ZZZZZZ			20:32																
ZZZZZZ			20:37																
ZZZZZZ			20:43																
ZZZZZZ			20:48																
ZZZZZZ			20:54																
CCV 680-275065/57			20:59																
CCB 680-275065/58			21:05																
ZZZZZZ			21:10																
ZZZZZZ			21:15																
ZZZZZZ			21:21																
ZZZZZZ			21:26																
ZZZZZZ			21:32																
ZZZZZZ			21:37																
ZZZZZZ			21:43																
ZZZZZZ			21:48																
ZZZZZZ			21:54																
ZZZZZZ			21:59																
CCV 680-275065/69			22:05																
CCB 680-275065/70			22:10																
ZZZZZZ			22:15																
ZZZZZZ			22:21																
ZZZZZZ			22:26																
ZZZZZZ			22:32																
ZZZZZZ			22:37																
ZZZZZZ			22:43																
ZZZZZZ			22:48																
ZZZZZZ			22:54																
ZZZZZZ			22:59																
ZZZZZZ			23:04																
CCV 680-275065/81			23:10																
CCB 680-275065/82			23:15																
ZZZZZZ			23:21																
ZZZZZZ			23:26																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPF Method: 200.7 Rev 4.4

Start Date: 04/30/2013 15:46 End Date: 05/01/2013 10:13

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			23:32																
ZZZZZZ			23:37																
ZZZZZZ			23:43																
ZZZZZZ			23:48																
ZZZZZZ			23:53																
CCV 680-275065/90			23:59																
CCB 680-275065/91			00:04																
ZZZZZZ			00:10																
ZZZZZZ			00:15																
ZZZZZZ			00:21																
CCV 680-275065/95			00:26																
CCB 680-275065/96			00:32																
ZZZZZZ			00:37																
ZZZZZZ			00:43																
ZZZZZZ			00:48																
ZZZZZZ			00:53																
ZZZZZZ			00:59																
ZZZZZZ			01:04																
ZZZZZZ			01:10																
ZZZZZZ			01:15																
ZZZZZZ			01:21																
ZZZZZZ			01:26																
CCV 680-275065/107			01:32																
CCB 680-275065/108			01:37																
ZZZZZZ			01:43																
ZZZZZZ			01:48																
ZZZZZZ			01:53																
ZZZZZZ			01:59																
ZZZZZZ			02:04																
ZZZZZZ			02:10																
CCV 680-275065/115			02:15																
CCB 680-275065/116			02:21																
ZZZZZZ			02:26																
ZZZZZZ			02:32																
ZZZZZZ			02:37																
ZZZZZZ			02:43																
ZZZZZZ			02:48																
ZZZZZZ			02:54																
ZZZZZZ			02:59																
ZZZZZZ			03:05																
ZZZZZZ			03:10																
ZZZZZZ			03:15																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPF Method: 200.7 Rev 4.4

Start Date: 04/30/2013 15:46 End Date: 05/01/2013 10:13

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
CCV 680-275065/127			03:21																
CCB 680-275065/128			03:26																
ZZZZZZ			03:32																
ZZZZZZ			03:37																
ZZZZZZ			03:43																
ZZZZZZ			03:48																
ZZZZZZ			03:54																
ZZZZZZ			03:59																
ZZZZZZ			04:05																
ZZZZZZ			04:10																
ZZZZZZ			04:16																
ZZZZZZ			04:21																
CCV 680-275065/139	1		04:27	X	X	X	X	X	X	X									
CCB 680-275065/140	1		04:32	X	X	X	X	X	X	X									
ZZZZZZ			04:38																
ZZZZZZ			04:43																
ZZZZZZ			04:49																
ZZZZZZ			04:54																
ZZZZZZ			04:59																
ZZZZZZ			05:05																
MB 680-274866/1-A	1	T	05:10	X	X	X	X	X	X	X									
LCS 680-274866/2-A	1	T	05:16	X	X	X	X	X	X	X									
ZZZZZZ			05:21																
680-89693-A-1-A SD ^5	5	T	05:27	X	X	X	X	X	X	X									
CCV 680-275065/151	1		05:32	X	X	X	X	X	X	X									
CCB 680-275065/152	1		05:38	X	X	X	X	X	X	X									
680-89693-A-1-A PDS	1	T	05:43	X	X	X	X	X	X	X									
680-89693-A-1-B MS	1	T	05:49	X	X	X	X	X	X	X									
680-89693-A-1-C MSD	1	T	05:54	X	X	X	X	X	X	X									
ZZZZZZ			06:00																
ZZZZZZ			06:05																
680-89695-35	1	T	06:11	X	X	X	X	X	X	X									
ZZZZZZ			06:16																
ZZZZZZ			06:22																
ZZZZZZ			06:27																
ZZZZZZ			06:33																
CCV 680-275065/163	1		06:38	X	X	X	X	X	X	X									
CCB 680-275065/164	1		06:44	X	X	X	X	X	X	X									
ZZZZZZ			06:49																
ZZZZZZ			06:55																
ZZZZZZ			07:00																
ZZZZZZ			07:06																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPF Method: 200.7 Rev 4.4

Start Date: 04/30/2013 15:46 End Date: 05/01/2013 10:13

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			07:11																
ZZZZZZ			07:16																
ZZZZZZ			07:22																
ZZZZZZ			07:27																
ZZZZZZ			07:33																
ZZZZZZ			07:38																
CCV 680-275065/175			07:44																
CCB 680-275065/176			07:49																
ZZZZZZ			07:55																
ZZZZZZ			08:00																
ZZZZZZ			08:06																
ZZZZZZ			08:11																
ZZZZZZ			08:17																
ZZZZZZ			08:22																
ZZZZZZ			08:28																
ZZZZZZ			08:33																
ZZZZZZ			08:39																
ZZZZZZ			08:44																
CCV 680-275065/187			08:50																
CCB 680-275065/188			08:55																
ZZZZZZ			09:01																
ZZZZZZ			09:06																
ZZZZZZ			09:12																
ZZZZZZ			09:17																
ZZZZZZ			09:23																
ZZZZZZ			09:28																
ZZZZZZ			09:34																
ZZZZZZ			09:51																
ZZZZZZ			09:56																
ZZZZZZ			10:02																
CCV 680-275065/199			10:07																
CCB 680-275065/200			10:13																

Prep Types  
T = Total/NA

13-IN  
 ANALYSIS RUN LOG  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPE Method: 6010C

Start Date: 05/01/2013 12:03 End Date: 05/02/2013 02:18

Lab Sample ID	D / F	Type	Time	Analytes																			
				A g	A s	B a	C d	C r	P b	S e													
ZZZZZZ			12:03																				
ZZZZZZ			12:08																				
ZZZZZZ			12:14																				
ICV 680-275202/4	1		12:19	X	X	X	X	X	X	X													
ICBIS 680-275202/5	1		12:25	X	X	X	X	X	X	X													
CRI 680-275202/6	1		12:30	X	X	X	X	X	X	X													
ICSA 680-275202/7	1		12:36	X	X	X	X	X	X	X													
ICSAB 680-275202/8	1		12:41	X	X	X	X	X	X	X													
CCV 680-275202/9			12:46																				
CCB 680-275202/10			12:52																				
CCV 680-275202/11			13:04																				
CCB 680-275202/12			13:09																				
ZZZZZZ			13:14																				
ZZZZZZ			13:20																				
ZZZZZZ			13:25																				
ZZZZZZ			13:31																				
ZZZZZZ			13:37																				
ZZZZZZ			13:42																				
ZZZZZZ			13:47																				
ZZZZZZ			13:53																				
CCV 680-275202/21	1		13:58	X	X	X	X	X	X	X													
CCB 680-275202/22	1		14:04	X	X	X	X	X	X	X													
MB 680-274586/1-A	1	T	14:09	X	X	X	X	X	X	X													
LCS 680-274586/2-A	1	T	14:15	X	X	X	X	X	X	X													
680-89695-4	1	T	14:20	X	X	X	X	X	X	X													
680-89695-4 SD	5	T	14:25	X	X	X	X	X	X	X													
680-89695-4 PDS	1	T	14:31	X	X	X	X	X	X	X													
680-89695-4 MS	1	T	14:36	X	X	X	X	X	X	X													
680-89695-4 MSD	1	T	14:42	X	X	X	X	X	X	X													
680-89695-14	1	T	14:47	X	X	X	X	X	X	X													
680-89695-18	1	T	14:53	X	X	X	X	X	X	X													
680-89695-32	1	T	14:58	X	X	X	X	X	X	X													
CCV 680-275202/33	1		15:04	X	X	X	X	X	X	X													
CCB 680-275202/34	1		15:09	X	X	X	X	X	X	X													
680-89695-33	1	T	15:14	X	X	X	X	X	X	X													
680-89695-34	1	T	15:20	X	X	X	X	X	X	X													
ZZZZZZ			15:25																				
ZZZZZZ			15:31																				
ZZZZZZ			15:36																				
ZZZZZZ			15:41																				
ZZZZZZ			15:47																				
ZZZZZZ			15:53																				



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPE Method: 6010C

Start Date: 05/01/2013 12:03 End Date: 05/02/2013 02:18

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
CCB 680-275202/85			19:46																
ZZZZZZ			19:51																
ZZZZZZ			19:57																
ZZZZZZ			20:02																
ZZZZZZ			20:08																
ZZZZZZ			20:13																
ZZZZZZ			20:19																
ZZZZZZ			20:24																
ZZZZZZ			20:30																
ZZZZZZ			20:35																
ZZZZZZ			20:40																
CCV 680-275202/96			20:46																
CCB 680-275202/97			20:51																
ZZZZZZ			20:57																
ZZZZZZ			21:02																
ZZZZZZ			21:08																
ZZZZZZ			21:13																
ZZZZZZ			21:18																
ZZZZZZ			21:24																
ZZZZZZ			21:29																
ZZZZZZ			21:35																
ZZZZZZ			21:40																
ZZZZZZ			21:46																
CCV 680-275202/108			21:51																
CCB 680-275202/109			21:57																
ZZZZZZ			22:02																
ZZZZZZ			22:08																
ZZZZZZ			22:13																
ZZZZZZ			22:18																
ZZZZZZ			22:24																
ZZZZZZ			22:29																
ZZZZZZ			22:35																
ZZZZZZ			22:40																
ZZZZZZ			22:46																
ZZZZZZ			22:51																
CCV 680-275202/120			22:57																
CCB 680-275202/121			23:02																
ZZZZZZ			23:08																
ZZZZZZ			23:13																
ZZZZZZ			23:18																
ZZZZZZ			23:24																
ZZZZZZ			23:29																



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: ICPE Method: 6010C

Start Date: 05/01/2013 12:03 End Date: 05/02/2013 02:18

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			23:35																
ZZZZZZ			23:40																
ZZZZZZ			23:46																
ZZZZZZ			23:51																
ZZZZZZ			23:57																
CCV 680-275202/132			00:02																
CCB 680-275202/133			00:07																
ZZZZZZ			00:13																
ZZZZZZ			00:18																
ZZZZZZ			00:24																
ZZZZZZ			00:29																
ZZZZZZ			00:35																
ZZZZZZ			00:40																
ZZZZZZ			00:45																
ZZZZZZ			00:51																
ZZZZZZ			00:56																
ZZZZZZ			01:02																
CCV 680-275202/144			01:07																
CCB 680-275202/145			01:13																
ZZZZZZ			01:18																
ZZZZZZ			01:24																
ZZZZZZ			01:29																
CCV 680-275202/149			01:35																
CCB 680-275202/150			01:40																
ZZZZZZ			01:45																
ZZZZZZ			01:51																
ZZZZZZ			01:57																
ZZZZZZ			02:02																
ZZZZZZ			02:07																
CCV 680-275202/156			02:13																
CCB 680-275202/157			02:18																

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/30/2013 11:41 End Date: 05/01/2013 12:04

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
IC 680-274733/19-A			11:41	X															
IC 680-274733/20-A			11:44	X															
IC 680-274733/21-A			11:46	X															
IC 680-274733/22-A			11:49	X															
IC 680-274733/23-A			11:51	X															
IC 680-274733/24-A			11:54	X															
ICV 680-274733/29-A	1		11:56	X															
ICB 680-274733/30-A	1		11:58	X															
CRA 680-274733/31-A	1		12:01	X															
CCV 680-274733/26-A			12:03																
CCB 680-274733/27-A			12:06																
ZZZZZZ			12:08																
ZZZZZZ			12:11																
ZZZZZZ			12:13																
ZZZZZZ			12:16																
ZZZZZZ			12:18																
ZZZZZZ			12:20																
ZZZZZZ			12:23																
ZZZZZZ			12:25																
ZZZZZZ			12:28																
ZZZZZZ			12:30																
CCV 680-274733/26-A			12:33																
CCB 680-274733/27-A			12:35																
ZZZZZZ			12:38																
ZZZZZZ			12:40																
ZZZZZZ			12:43																
ZZZZZZ			12:45																
ZZZZZZ			12:47																
ZZZZZZ			12:50																
ZZZZZZ			12:52																
ZZZZZZ			12:55																
ZZZZZZ			12:57																
ZZZZZZ			13:00																
CCV 680-274733/26-A			13:02																
CCB 680-274733/27-A			13:05																
ZZZZZZ			13:07																
ZZZZZZ			13:10																
ZZZZZZ			13:12																
ZZZZZZ			13:14																
ZZZZZZ			13:17																
ZZZZZZ			13:19																
ZZZZZZ			13:22																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/30/2013 11:41 End Date: 05/01/2013 12:04

Lab Sample ID	D / F	T y p e	Time	Analytes																
				H g																
ZZZZZZ			13:24																	
ZZZZZZ			13:27																	
ZZZZZZ			13:29																	
CCV 680-274733/26-A	1		13:32	X																
CCB 680-274733/27-A	1		13:34	X																
ZZZZZZ			13:37																	
ZZZZZZ			13:39																	
ZZZZZZ			13:41																	
ZZZZZZ			13:44																	
ZZZZZZ			13:46																	
ZZZZZZ			13:49																	
MB 680-274733/1-A	1	T	13:51	X																
ZZZZZZ			13:54																	
ZZZZZZ			13:56																	
ZZZZZZ			13:59																	
CCV 680-274733/26-A	1		14:01	X																
CCB 680-274733/27-A	1		14:04	X																
680-89700-G-1-D MS	1	T	14:06	X																
680-89700-G-1-E MSD	1	T	14:08	X																
ZZZZZZ			14:11																	
ZZZZZZ			14:13																	
ZZZZZZ			14:16																	
ZZZZZZ			14:18																	
ZZZZZZ			14:21																	
ZZZZZZ			14:23																	
680-89695-35	1	T	14:26	X																
ZZZZZZ			14:28																	
CCV 680-274733/26-A	1		14:31	X																
CCB 680-274733/27-A	1		14:33	X																
ZZZZZZ			14:35																	
ZZZZZZ			14:38																	
ZZZZZZ			14:40																	
ZZZZZZ			14:43																	
ZZZZZZ			14:45																	
ZZZZZZ			14:48																	
ZZZZZZ			14:50																	
ZZZZZZ			14:53																	
ZZZZZZ			14:55																	
ZZZZZZ			14:58																	
CCV 680-274733/26-A			15:00																	
CCB 680-274733/27-A			15:03																	
ZZZZZZ			15:05																	

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/30/2013 11:41 End Date: 05/01/2013 12:04

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			15:08																
ZZZZZZ			15:10																
ZZZZZZ			15:12																
ZZZZZZ			15:15																
ZZZZZZ			15:17																
ZZZZZZ			15:20																
ZZZZZZ			15:22																
ZZZZZZ			15:25																
ZZZZZZ			15:27																
CCV 680-274733/26-A			15:30																
CCB 680-274733/27-A			15:32																
ZZZZZZ			15:35																
ZZZZZZ			15:37																
ZZZZZZ			15:40																
ZZZZZZ			15:42																
ZZZZZZ			15:44																
ZZZZZZ			15:47																
ZZZZZZ			15:49																
ZZZZZZ			15:52																
ZZZZZZ			15:54																
ZZZZZZ			15:57																
CCV 680-274733/26-A			15:59																
CCB 680-274733/27-A			16:02																
ZZZZZZ			16:04																
ZZZZZZ			16:07																
ZZZZZZ			16:09																
ZZZZZZ			16:12																
ZZZZZZ			16:14																
ZZZZZZ			16:17																
ZZZZZZ			16:19																
ZZZZZZ			16:21																
ZZZZZZ			16:24																
ZZZZZZ			16:26																
CCV 680-274733/26-A			16:29																
CCB 680-274733/27-A			16:31																
ZZZZZZ			16:34																
ZZZZZZ			16:36																
ZZZZZZ			16:39																
ZZZZZZ			16:41																
ZZZZZZ			16:44																
ZZZZZZ			16:46																
ZZZZZZ			16:49																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/30/2013 11:41 End Date: 05/01/2013 12:04

Lab Sample ID	D / F	Type	Time	Analytes															
				H	g														
ZZZZZZ			16:51																
ZZZZZZ			16:54																
ZZZZZZ			16:56																
CCV 680-274733/26-A			16:59																
CCB 680-274733/27-A			17:01																
ZZZZZZ			17:04																
ZZZZZZ			17:06																
ZZZZZZ			17:09																
ZZZZZZ			17:11																
ZZZZZZ			17:14																
ZZZZZZ			17:16																
ZZZZZZ			17:18																
ZZZZZZ			17:21																
ZZZZZZ			17:23																
ZZZZZZ			17:26																
CCV 680-274733/26-A			17:28																
CCB 680-274733/27-A			17:31																
ZZZZZZ			17:33																
ZZZZZZ			17:36																
ZZZZZZ			17:38																
ZZZZZZ			17:41																
ZZZZZZ			17:43																
ZZZZZZ			17:46																
ZZZZZZ			17:48																
ZZZZZZ			17:50																
ZZZZZZ			17:53																
ZZZZZZ			17:55																
CCV 680-274733/26-A			17:58																
CCB 680-274733/27-A			18:00																
ZZZZZZ			18:03																
ZZZZZZ			18:05																
ZZZZZZ			18:08																
ZZZZZZ			18:10																
CCV 680-274733/26-A			18:13																
CCB 680-274733/27-A			18:15																
CCV 680-274733/26-A			09:55																
CCB 680-274733/27-A			09:58																
ZZZZZZ			10:00																
ZZZZZZ			10:03																
ZZZZZZ			10:05																
ZZZZZZ			10:08																
ZZZZZZ			10:10																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/30/2013 11:41 End Date: 05/01/2013 12:04

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
ZZZZZZ			10:13																
ZZZZZZ			10:15																
ZZZZZZ			10:18																
ZZZZZZ			10:20																
ZZZZZZ			10:22																
CCV 680-274733/26-A	1		10:25	X															
CCB 680-274733/27-A	1		10:27	X															
LCS 680-274733/2-A	1	T	10:30	X															
CCV 680-274733/26-A	1		10:32	X															
CCB 680-274733/27-A	1		10:35	X															
CCV 680-274733/26-A			11:05																
CCB 680-274733/27-A			11:07																
ZZZZZZ			11:10																
ZZZZZZ			11:12																
CCV 680-274733/26-A			11:15																
CCB 680-274733/27-A			11:17																
CCV 680-274733/26-A			11:51																
CCB 680-274733/27-A			11:54																
ZZZZZZ			11:56																
ZZZZZZ			11:59																
CCV 680-274733/26-A			12:01																
CCB 680-274733/27-A			12:04																

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 05/01/2013 15:45 End Date: 05/02/2013 09:28

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H	g																
IC 680-274939/23-A			15:45	X																	
IC 680-274939/24-A			15:47	X																	
IC 680-274939/25-A			15:50	X																	
IC 680-274939/26-A			15:52	X																	
IC 680-274939/27-A			15:55	X																	
IC 680-274939/28-A			15:57	X																	
ICV 680-274939/33-A	1		15:59	X																	
ICB 680-274939/34-A	1		16:02	X																	
CRA 680-274939/35-A	1		16:04	X																	
CCV 680-274939/30-A	1		16:07	X																	
CCB 680-274939/31-A	1		16:09	X																	
MB 680-274941/1-A	1	T	16:12	X																	
LCS 680-274941/2-A	1	T	16:14	X																	
680-89695-4	1	T	16:17	X																	
680-89695-4 MS	1	T	16:19	X																	
680-89695-4 MSD	1	T	16:21	X																	
680-89695-14	1	T	16:24	X																	
680-89695-18	1	T	16:26	X																	
680-89695-32	1	T	16:29	X																	
ZZZZZZ			16:31																		
680-89695-34	1	T	16:34	X																	
CCV 680-274939/30-A	1		16:36	X																	
CCB 680-274939/31-A	1		16:39	X																	
ZZZZZZ			16:41																		
ZZZZZZ			16:43																		
ZZZZZZ			16:46																		
ZZZZZZ			16:48																		
ZZZZZZ			16:51																		
ZZZZZZ			16:53																		
ZZZZZZ			16:56																		
ZZZZZZ			16:58																		
ZZZZZZ			17:01																		
ZZZZZZ			17:03																		
CCV 680-274939/30-A			17:06																		
CCB 680-274939/31-A			17:08																		
ZZZZZZ			17:10																		
ZZZZZZ			17:13																		
ZZZZZZ			17:15																		
ZZZZZZ			17:18																		
ZZZZZZ			17:20																		
ZZZZZZ			17:23																		
ZZZZZZ			17:25																		

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89695-3  
 SDG No.: 68089695-3  
 Instrument ID: LEEMAN2 Method: 7471B  
 Start Date: 05/01/2013 15:45 End Date: 05/02/2013 09:28

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
ZZZZZZ			17:28																
ZZZZZZ			17:30																
ZZZZZZ			17:33																
CCV 680-274939/30-A			17:35																
CCB 680-274939/31-A			17:37																
ZZZZZZ			17:40																
ZZZZZZ			17:42																
ZZZZZZ			17:45																
ZZZZZZ			17:47																
ZZZZZZ			17:50																
ZZZZZZ			17:52																
ZZZZZZ			17:55																
ZZZZZZ			17:57																
ZZZZZZ			18:00																
ZZZZZZ			18:02																
CCV 680-274939/30-A			18:04																
CCB 680-274939/31-A			18:07																
ZZZZZZ			18:09																
ZZZZZZ			18:12																
ZZZZZZ			18:14																
ZZZZZZ			18:17																
ZZZZZZ			18:19																
ZZZZZZ			18:22																
ZZZZZZ			18:24																
ZZZZZZ			18:27																
ZZZZZZ			18:29																
CCV 680-274939/30-A			18:31																
CCB 680-274939/31-A			18:34																
CCV 680-274939/30-A	1		09:18	X															
CCB 680-274939/31-A	1		09:20	X															
680-89695-33	2	T	09:23	X															
CCV 680-274939/30-A	1		09:25	X															
CCB 680-274939/31-A	1		09:28	X															

Prep Types  
T = Total/NA



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Blank (Blk)		4/30/2013, 3:46:25 PM		Rack S, Tube 1	
Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	5.520	18.4	-30.0798
Al 308.215	0.0000	ppb	9.593	5.2	183.365
As 188.980	0.0000	ppb	2.232	165.1	-1.3519
B 249.678	0.0000	ppb	6.362	13.9	45.8578
Ba 389.178	0.0000	ppb	9.383	45.2	-20.7690
Be 313.042	0.0000	ppb	8.505	9.9	-85.6248
Ca 370.602	0.0000	ppb	6.541	7.4	88.98
Cd 226.502	0.0000	ppb	6.764	56.3	12.0165
Co 228.615	0.0000	ppb	4.183	109.6	-3.8185
Cr 267.716	0.0000	ppb	7.857	79.8	9.8456
Cu 324.754	0.0000	ppb	7.512	8.7	86.0369
Fe 271.441	0.0000	ppb	3.593	82.6	4.3483
K 766.491	0.0000	ppb	23.537	1.1	2048.59
Mg 279.078	0.0000	ppb	5.502	7.6	72.4414
Mn 257.610	0.0000	ppb	7.698	77.6	9.9246
Mo 202.032	0.0000	ppb	2.946	123.1	2.3933
Na 330.237	0.0000	ppb	6.752	77.6	8.7013
Ni 231.604	0.0000	ppb	1.752	881.7	0.1987
Pb 220.353	0.0000	ppb	4.436	218.1	2.0342
Sb 206.834	0.0000	ppb	1.844	74.2	2.4846
Se 196.026	0.0000	ppb	1.308	59.8	2.1887
Sn 189.925	0.0000	ppb	2.232	979.0	-0.2280
Sr 216.596	0.0000	ppb	5.486	102.2	-5.3685
Ti 334.941	0.0000	ppb	6.372	13.6	-47.0088
Tl 190.794	0.0000	ppb	2.451	166.8	-1.4697
V 292.401	0.0000	ppb	4.198	71.0	5.9112
Zn 206.200	0.0000	ppb	2.388	40.6	5.8766

HIGH STD (Std)		4/30/2013, 3:51:53 PM		Rack S, Tube 2	
Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	110.719	0.4	29654.6
Al 308.215	10000.0	ppb	127.564	0.4	30157.6
As 188.980	1000.00	ppb	3.583	1.1	312.043
B 249.678	1000.00	ppb	40.343	0.5	8163.42
Ba 389.178	10000.0	ppb	558.104	0.4	156292
Be 313.042	1000.00	ppb	5190.601	0.4	1421855
Ca 370.602	10000	ppb	173.135	0.5	34418
Cd 226.502	1000.00	ppb	74.640	0.4	19773.3
Co 228.615	1000.00	ppb	17.136	0.2	7182.33
Cr 267.716	10000.0	ppb	473.015	0.3	145074
Cu 324.754	10000.0	ppb	2172.484	0.6	355782
Fe 271.441	10000.0	ppb	18.147	0.3	6914.89
K 766.491	20000.0	ppb	12311.556	0.5	2271639
Mg 279.078	10000.0	ppb	26.467	0.2	11514.9
Mn 257.610	10000.0	ppb	2577.448	0.3	877082
Mo 202.032	1000.00	ppb	17.353	0.5	3394.74
Na 330.237	15000.0	ppb	7.241	0.8	895.285
Ni 231.604	5000.00	ppb	77.232	0.6	13448.8
Pb 220.353	1000.00	ppb	2.656	0.3	772.537
Sb 206.834	2000.00	ppb	5.432	0.5	1203.60
Se 196.026	10000.0	ppb	2.963	0.1	2452.02
Sn 189.925	10000.0	ppb	42.500	0.8	5389.62

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Sr 216.596	5000.00	ppb	110.317	0.4	27754.6
Ti 334.941	1000.00	ppb	756.943	0.4	202673
Tl 190.794	10000.0	ppb	9.948	0.2	4249.22
V 292.401	10000.0	ppb	1015.479	0.4	273312
Zn 206.200	5000.00	ppb	58.300	0.4	13467.5

**Ag 328.068 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-30.0798	0.0000	0.0000	-	-
HIGH STD		29654.6	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 29.7 x + -30.1$

**Al 308.215 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		183.365	0.0000	0.0000	-	-
HIGH STD		30157.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.0 x + 183.4$

**As 188.980 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.3519	0.0000	0.0000	-	-
HIGH STD		312.043	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.3 x + -1.4$

**B 249.678 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		45.8578	0.0000	0.0000	-	-
HIGH STD		8163.42	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 8.1 x + 45.9$

**Ba 389.178 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-20.7690	0.0000	0.0000	-	-
HIGH STD		156292	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 15.6 x + -20.8$

**Be 313.042 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-85.6248	0.0000	0.0000	-	-
HIGH STD		1421855	1000.00	1000.00	0.0000	0.0

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Curve Type: Linear Equation:  $y = 1421.9 x + -85.6$ **Ca 370.602 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		88.98	0.0000	0.0000	-	-
HIGH STD		34418	10000	10000	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.4 x + 89.0$ **Cd 226.502 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.0165	0.0000	0.0000	-	-
HIGH STD		19773.3	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 19.8 x + 12.0$ **Co 228.615 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.8185	0.0000	0.0000	-	-
HIGH STD		7182.33	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 7.2 x + -3.8$ **Cr 267.716 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.8456	0.0000	0.0000	-	-
HIGH STD		145074	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 14.5 x + 9.8$ **Cu 324.754 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		86.0369	0.0000	0.0000	-	-
HIGH STD		355782	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 35.6 x + 86.0$ **Fe 271.441 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.3483	0.0000	0.0000	-	-
HIGH STD		6914.89	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 0.7 x + 4.3$

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

**K 766.491 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2048.59	0.0000	0.0000	-	-
HIGH STD		2271639	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 113.5 x + 2048.6$ **Mg 279.078 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		72.4414	0.0000	0.0000	-	-
HIGH STD		11514.9	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 1.1 x + 72.4$ **Mn 257.610 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.9246	0.0000	0.0000	-	-
HIGH STD		877082	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 87.7 x + 9.9$ **Mo 202.032 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.3933	0.0000	0.0000	-	-
HIGH STD		3394.74	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 3.4 x + 2.4$ **Na 330.237 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.7013	0.0000	0.0000	-	-
HIGH STD		895.285	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.1 x + 8.7$ **Ni 231.604 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.1987	0.0000	0.0000	-	-
HIGH STD		13448.8	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.7 x + 0.2$ **Pb 220.353 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.0342	0.0000	0.0000	-	-
HIGH STD		772.537	1000.00	1000.00	0.0000	0.0

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Curve Type: Linear Equation:  $y = 0.8 x + 2.0$ **Sb 206.834 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.4846	0.0000	0.0000	-	-
HIGH STD		1203.60	2000.00	2000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 0.6 x + 2.5$ **Se 196.026 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.1887	0.0000	0.0000	-	-
HIGH STD		2452.02	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 0.2 x + 2.2$ **Sn 189.925 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.2280	0.0000	0.0000	-	-
HIGH STD		5389.62	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.5 x + -0.2$ **Sr 216.596 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.3685	0.0000	0.0000	-	-
HIGH STD		27754.6	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation:  $y = 5.6 x + -5.4$ **Ti 334.941 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-47.0088	0.0000	0.0000	-	-
HIGH STD		202673	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 202.7 x + -47.0$ **Tl 190.794 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.4697	0.0000	0.0000	-	-
HIGH STD		4249.22	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.4 x + -1.5$

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

**V 292.401 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.9112	0.0000	0.0000	-	-
HIGH STD		273312	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 27.3 x + 5.9$ **Zn 206.200 Calibration (ppb) 4/30/2013, 3:51:53 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.8766	0.0000	0.0000	-	-
HIGH STD		13467.5	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.7 x + 5.9$ **Lab Control Sample (LCS) 4/30/2013, 3:57:18 PM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1000.62	ppb	1.6310	0.2	29671.1	100.06223
Al 308.215	9977.31	ppb	24.6270	0.2	30637.9	99.77310
As 188.980	996.799	ppb	11.2117	1.1	312.240	99.67994
B 249.678	1001.24	ppb	1.6928	0.2	8162.57	20.02475F
Ba 389.178	9998.01	ppb	10.9076	0.1	156342	99.98013
Be 313.042	999.252	ppb	0.7889	0.1	1426240	99.92522
Ca 370.602	10198	ppb	9.043	0.1	33909	101.97726
Cd 226.502	998.564	ppb	0.8907	0.1	19767.1	99.85637
Co 228.615	1000.42	ppb	2.0160	0.2	7190.17	100.04250
Cr 267.716	10002.7	ppb	7.8242	0.1	145055	100.02738
Cu 324.754	9902.70	ppb	35.0627	0.4	352160	99.02700
Fe 271.441	10001.8	ppb	16.9981	0.2	7029.76	100.01842
K 766.491	19977.2	ppb	32.4451	0.2	2266673	99.88616
Mg 279.078	10008.2	ppb	25.9507	0.3	11471.6	100.08228
Mn 257.610	10012.8	ppb	19.7721	0.2	878250	100.12828
Mo 202.032	1001.58	ppb	2.0288	0.2	3380.65	100.15799
Na 330.237	15332.0	ppb	119.955	0.8	911.530	102.21366
Ni 231.604	5016.63	ppb	15.0320	0.3	13498.9	100.33253
Pb 220.353	1010.32	ppb	3.7957	0.4	770.092	101.03215
Sb 206.834	1912.88	ppb	4.0314	0.2	1211.45	191.28799F
Se 196.026	9945.88	ppb	35.8290	0.4	2440.55	99.45885
Sn 189.925	10009.5	ppb	64.1490	0.6	5394.94	100.09537
Sr 216.596	5007.25	ppb	6.2020	0.1	27606.1	100.14510
Ti 334.941	998.073	ppb	1.3844	0.1	202881	99.80729
Tl 190.794	9992.31	ppb	19.0210	0.2	4256.37	99.92306
V 292.401	10007.0	ppb	13.1202	0.1	272690	100.07049
Zn 206.200	5013.28	ppb	7.8695	0.2	13470.5	100.26559

**Initial Calib Verif (ICV) 4/30/2013, 4:02:44 PM Rack S, Tube 3****Weight: 1 Volume: 1 Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	986.846b	ppb	3.0793	0.3	29263.3	98.68465
Al 308.215	944.789b	ppb	2.7240	0.3	3092.09	94.47890Q

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1010.00b	ppb	5.1096	0.5	315.351	100.99985
B 249.678	984.772b	ppb	1.4374	0.1	8048.69	98.47722
Ba 389.178	1048.67b	ppb	1.9302	0.2	16383.8	104.86664
Be 313.042	1052.06xb	ppb	2.8869	0.3	1496354	105.20638
Ca 370.602	967.1b	ppb	1.700	0.2	3380	96.71450
Cd 226.502	1050.90xb	ppb	2.4048	0.2	20781.4	105.08994
Co 228.615	1016.26b	ppb	1.3582	0.1	7295.14	101.62552
Cr 267.716	1041.80b	ppb	1.9032	0.2	15116.3	104.18048
Cu 324.754	1026.86b	ppb	1.7976	0.2	36603.4	102.68571
Fe 271.441	996.808b	ppb	8.6322	0.9	744.063	99.68079
K 766.491	9916.48b	ppb	6.2433	0.1	1127116	99.16480
Mg 279.078	984.037b	ppb	1.2342	0.1	1192.82	98.40373
Mn 257.610	1080.77b	ppb	2.3304	0.2	94814.6	108.07729Q
Mo 202.032	1014.60xb	ppb	3.8665	0.4	3442.32	101.46027
Na 330.237	9843.26b	ppb	75.6175	0.8	585.193	98.43264
Ni 231.604	1052.87b	ppb	4.7796	0.5	2831.89	105.28662
Pb 220.353	1024.30b	ppb	6.3199	0.6	788.872	102.42995
Sb 206.834	967.742b	ppb	8.1815	0.8	585.237	96.77421
Se 196.026	994.029b	ppb	3.8768	0.4	245.901	99.40291
Sn 189.925	5008.08b	ppb	19.3699	0.4	2699.26	100.16151
Sr 216.596	5031.68b	ppb	10.9140	0.2	27878.2	100.63368
Ti 334.941	990.184b	ppb	2.2008	0.2	200745	99.01845
Tl 190.794	1010.70b	ppb	9.1209	0.9	430.234	101.07042
V 292.401	1011.99b	ppb	1.1329	0.1	27380.2	101.19853
Zn 206.200	1051.18b	ppb	1.2861	0.1	2832.59	105.11843

Initial Calib Blank (ICB)

4/30/2013, 4:08:10 PM

Rack S, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0096	ppb	0.3312	3443.8	-29.7906	0.00962
Al 308.215	-28.5886	ppb	2.0987	7.3	97.7539	-28.58856
As 188.980	5.9709	ppb	6.5620	109.9	0.5207	5.97087
B 249.678	2.4894	ppb	1.2327	49.5	66.0466	2.48943
Ba 389.178	0.8851	ppb	0.3604	40.7	-6.9736	0.88512
Be 313.042	0.1319	ppb	0.0269	20.4	102.153	0.13189
Ca 370.602	-34.89	ppb	1.641	4.7	-29.89	-34.89447
Cd 226.502	0.3494	ppb	0.2605	74.5	18.9085	0.34942
Co 228.615	-0.8600	ppb	0.1657	19.3	-10.0228	-0.86001
Cr 267.716	0.8005	ppb	0.1804	22.5	21.4569	0.80053
Cu 324.754	0.5039	ppb	0.1104	21.9	104.043	0.50392
Fe 271.441	-5.1666	ppb	11.7083	226.6	0.7491	-5.16662
K 766.491	2.4995	ppb	0.5913	23.7	2332.01	2.49952
Mg 279.078	-29.2464	ppb	7.8847	27.0	38.9942	-29.24639
Mn 257.610	0.6033	ppb	0.1742	28.9	62.7766	0.60333
Mo 202.032	1.4342	ppb	0.6679	46.6	7.2574	1.43415
Na 330.237	-148.080	ppb	15.6265	10.6	-0.0484	-148.07970
Ni 231.604	-1.0543	ppb	0.1575	14.9	-2.6412	-1.05428
Pb 220.353	-0.0087	ppb	2.7933	32257.9	2.0274	-0.00866
Sb 206.834	0.5115	ppb	1.0500	205.3	2.7966	0.51153
Se 196.026	3.7035	ppb	1.5673	42.3	3.0958	3.70350
Sn 189.925	0.2485	ppb	3.5713	1437.4	-0.0939	0.24847
Sr 216.596	0.6662	ppb	0.4248	63.8	-1.6670	0.66623
Ti 334.941	0.1305	ppb	0.0757	58.0	20.5348	0.13049

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-3.0026	ppb	3.4677	115.5	-2.7474	-3.00256
V 292.401	0.7530	ppb	0.2991	39.7	26.0295	0.75303
Zn 206.200	0.9154	ppb	0.5159	56.4	8.3373	0.91542

**CRI (CRI)**

4/30/2013, 4:13:36 PM

Rack S, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	9.9674	ppb	0.7911	7.9	265.773	99.67444
Al 308.215	204.801	ppb	2.9107	1.4	798.020	102.40059
As 188.980	25.1724	ppb	7.9419	31.6	6.5234	125.86190R
B 249.678	99.3439	ppb	0.4405	0.4	852.263	99.34392
Ba 389.178	10.2015	ppb	0.9757	9.6	139.741	102.01462
Be 313.042	4.2759	ppb	0.0087	0.2	5999.15	106.89806
Ca 370.602	501.3	ppb	2.672	0.5	1802	100.25870
Cd 226.502	5.4338	ppb	0.0754	1.4	119.523	108.67623
Co 228.615	9.3635	ppb	0.3166	3.4	63.4316	93.63495
Cr 267.716	10.9280	ppb	0.2987	2.7	168.301	109.28029
Cu 324.754	21.0067	ppb	0.2117	1.0	832.101	105.03374
Fe 271.441	52.5591	ppb	5.7954	11.0	41.1427	105.11810
K 766.491	1006.90	ppb	3.1273	0.3	116308	100.68986
Mg 279.078	503.428	ppb	1.7537	0.3	648.277	100.68556
Mn 257.610	11.2848	ppb	0.0867	0.8	1000.99	112.84796
Mo 202.032	10.3935	ppb	0.1706	1.6	37.6289	103.93481
Na 330.237	907.200	ppb	4.9856	0.5	62.2658	90.72002
Ni 231.604	43.0194	ppb	1.0196	2.4	115.934	107.54859
Pb 220.353	9.1549	ppb	4.2515	46.4	9.0432	91.54901
Sb 206.834	21.4093	ppb	4.4891	21.0	15.3354	107.04634
Se 196.026	23.7333	ppb	7.8642	33.1	8.0096	118.66650
Sn 189.925	48.9503	ppb	1.1693	2.4	26.1562	97.90051
Sr 216.596	9.9713	ppb	0.4975	5.0	48.3925	99.71278
Ti 334.941	10.0809	ppb	0.0167	0.2	1997.71	100.80913
Tl 190.794	27.8645	ppb	2.3898	8.6	10.3860	111.45780
V 292.401	10.1738	ppb	0.2630	2.6	280.970	101.73766
Zn 206.200	21.7016	ppb	0.3446	1.6	64.2837	108.50787

**Interf Check A (ICSA)**

4/30/2013, 4:23:07 PM

Rack S, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6913	ppb	0.2894	41.9	-87.7162	-0.69130
Al 308.215	572934	ppb	264.451	0.0	1717487	-
As 188.980	-5.6793	ppb	9.6011	169.1	-14.5355	-5.67925
B 249.678	3.7023	ppb	0.3319	9.0	-349.550	3.70229
Ba 389.178	-2.4622	ppb	0.5244	21.3	1144.44	-2.46223
Be 313.042	-0.0720	ppb	0.0046	6.3	-30.3555	-0.07201
Ca 370.602	530243	ppb	1143	0.2	1787849	-
Cd 226.502	1.2273	ppb	0.3052	24.9	490.647	1.22734
Co 228.615	0.5218	ppb	1.7338	332.3	2.9055	0.52179
Cr 267.716	-1.2531	ppb	0.8194	65.4	-102.502	-1.25308
Cu 324.754	8.4487	ppb	0.8164	9.7	-902.075	8.44866
Fe 271.441	197485	ppb	69.3471	0.0	136477	-
K 766.491	3.0383	ppb	0.2457	8.1	2373.46	3.03828



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	562239	ppb	717.958	0.1	642722	-
Mn 257.610	2.0542	ppb	0.1653	8.0	1684.28	2.05415
Mo 202.032	-2.6147	ppb	2.1861	83.6	-24.0753	-2.61469
Na 330.237	423.749	ppb	122.779	29.0	-49.9824	423.74930
Ni 231.604	2.8527	ppb	1.8761	65.8	38.7580	2.85273
Pb 220.353	3.8308	ppb	5.4190	141.5	-53.4516	3.83081
Sb 206.834	-7.5308	ppb	2.0499	27.2	7.1189	-7.53078
Se 196.026	6.0623	ppb	36.4136	600.7	9.6503	6.06231
Sn 189.925	4.6063	ppb	0.9642	20.9	0.5475	4.60627
Sr 216.596	5.6026	ppb	0.5623	10.0	140.160	5.60257
Ti 334.941	6.2965	ppb	0.0399	0.6	1819.89	6.29646
Tl 190.794	-0.4679	ppb	11.2753	2410.0	-19.3284	-0.46786
V 292.401	1.0623	ppb	0.0523	4.9	76.4278	1.06225
Zn 206.200	9.8694	ppb	2.1189	21.5	53.3696	9.86937

Interf Check AB (ICSAB)

4/30/2013, 4:28:35 PM

Rack S, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	222.577	ppb	1.6624	0.7	6543.03	111.28827
Al 308.215	565884	ppb	668.740	0.1	1696408	113.17687
As 188.980	109.260	ppb	32.1912	29.5	21.7494	109.25980
B 249.678	3.3183	ppb	0.5027	15.1	-346.228	-
Ba 389.178	527.447	ppb	1.2962	0.2	9422.97	105.48930
Be 313.042	517.837	ppb	1.6537	0.3	736585	103.56743
Ca 370.602	523137	ppb	1409	0.3	1763929	104.62743
Cd 226.502	1013.32	ppb	1.8995	0.2	20484.7	101.33219
Co 228.615	499.118	ppb	2.4171	0.5	3568.59	99.82365
Cr 267.716	522.765	ppb	0.4136	0.1	7496.54	104.55298
Cu 324.754	583.029	ppb	1.6515	0.3	19560.8	116.60582
Fe 271.441	194735	ppb	233.650	0.1	134603	97.36762
K 766.491	2.4745	ppb	0.3467	14.0	2183.37	-
Mg 279.078	557254	ppb	1501.39	0.3	637027	111.45087
Mn 257.610	531.021	ppb	0.5256	0.1	48063.5	106.20419
Mo 202.032	1096.03	ppb	1.5464	0.1	3702.27	109.60336
Na 330.237	220.311	ppb	272.699	123.8	-59.3621	-
Ni 231.604	994.681	ppb	3.0009	0.3	2705.70	99.46809
Pb 220.353	55.8858	ppb	7.3103	13.1	-14.5496	111.77159
Sb 206.834	607.866	ppb	11.9395	2.0	379.440	101.31104
Se 196.026	59.0386	ppb	25.6501	43.4	22.6521	118.07710
Sn 189.925	1030.57	ppb	7.4654	0.7	553.547	103.05702
Sr 216.596	4.9305	ppb	2.0805	42.2	83.1425	-
Ti 334.941	-0.1101	ppb	0.0369	33.5	543.897	-
Tl 190.794	84.8452	ppb	13.4035	15.8	17.3689	84.84518
V 292.401	506.423	ppb	0.3028	0.1	13607.2	101.28452
Zn 206.200	992.004	ppb	2.4680	0.2	2695.64	99.20036

Cont Calib Verif (CCV)

4/30/2013, 4:35:51 PM

Rack 1, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.169	ppb	1.3488	0.3	14876.1	100.43372
Al 308.215	4983.44	ppb	15.3319	0.3	15397.1	99.66885

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	530.884	ppb	16.9201	3.2	165.658	106.17690
B 249.678	510.756	ppb	0.7079	0.1	4186.87	20.43024Q
Ba 389.178	5191.10	ppb	5.0911	0.1	81164.1	103.82202
Be 313.042	520.157	ppb	0.4575	0.1	742288	104.03133
Ca 370.602	5185	ppb	8.659	0.2	17305	103.69273
Cd 226.502	520.312	ppb	1.9639	0.4	10305.1	104.06248
Co 228.615	520.718	ppb	1.0630	0.2	3740.70	104.14351
Cr 267.716	5268.12	ppb	5.7386	0.1	76402.3	105.36249
Cu 324.754	5133.85	ppb	48.8581	1.0	182614	102.67690
Fe 271.441	5002.65	ppb	6.6897	0.1	3518.99	100.05298
K 766.491	9986.58	ppb	13.1293	0.1	1134084	99.86579
Mg 279.078	5018.92	ppb	2.8166	0.1	5788.21	100.37830
Mn 257.610	5431.19	ppb	6.9783	0.1	476386	108.62372
Mo 202.032	504.909	ppb	2.9398	0.6	1705.44	100.98176
Na 330.237	7400.37	ppb	30.4224	0.4	444.587	98.67156
Ni 231.604	2617.76	ppb	2.6688	0.1	7043.94	104.71052
Pb 220.353	501.151	ppb	1.7153	0.3	382.750	100.23024
Sb 206.834	973.966	ppb	3.4558	0.4	619.802	38.95862Q
Se 196.026	4937.71	ppb	6.4392	0.1	1212.81	98.75410
Sn 189.925	5062.25	ppb	13.5527	0.3	2728.34	101.24492
Sr 216.596	2556.84	ppb	1.6026	0.1	14091.9	102.27361
Ti 334.941	501.527	ppb	0.0568	0.0	101937	100.30544
Tl 190.794	4999.73	ppb	17.2316	0.3	2129.03	99.99463
V 292.401	5037.57	ppb	10.1108	0.2	137261	100.75134
Zn 206.200	2635.42	ppb	2.8300	0.1	7083.97	105.41692

Cont Calib Blank (CCB)

4/30/2013, 4:41:17 PM

Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1296	ppb	0.6179	476.8	-33.9208	-0.12958
Al 308.215	-38.8692	ppb	5.4535	14.0	66.9057	-38.86922
As 188.980	4.4113	ppb	7.7917	176.6	0.0318	4.41128
B 249.678	0.8588	ppb	0.0751	8.7	52.8318	0.85880
Ba 389.178	0.6735	ppb	0.3880	57.6	-10.3201	0.67350
Be 313.042	0.0316	ppb	0.0268	84.9	-40.5995	0.03162
Ca 370.602	-47.19	ppb	2.698	5.7	-70.49	-47.19197
Cd 226.502	0.0723	ppb	0.2867	396.6	13.4103	0.07229
Co 228.615	-1.2218	ppb	0.2896	23.7	-12.6163	-1.22177
Cr 267.716	0.3883	ppb	0.2060	53.1	15.4848	0.38830
Cu 324.754	0.3128	ppb	0.4820	154.1	97.2893	0.31280
Fe 271.441	-15.3981	ppb	1.2134	7.9	-6.3339	-15.39808
K 766.491	0.7395	ppb	0.7456	100.8	2132.35	0.73954
Mg 279.078	-40.1798	ppb	4.0975	10.2	26.5186	-40.17977
Mn 257.610	0.5755	ppb	0.2184	38.0	60.2918	0.57549
Mo 202.032	0.5788	ppb	0.9011	155.7	4.3578	0.57884
Na 330.237	-108.191	ppb	90.1897	83.4	2.3135	-108.19103
Ni 231.604	0.9779	ppb	1.2746	130.3	2.8254	0.97787
Pb 220.353	-1.6422	ppb	0.6151	37.5	0.7707	-1.64221
Sb 206.834	-0.9289	ppb	3.1034	334.1	1.9282	-0.92893
Se 196.026	4.7100	ppb	7.3943	157.0	3.3423	4.70997
Sn 189.925	2.4495	ppb	1.2011	49.0	1.0924	2.44948
Sr 216.596	-0.2485	ppb	0.3425	137.8	-6.8084	-0.24845
Ti 334.941	-0.0035	ppb	0.0146	412.3	47.7407	-0.00354

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	1.3285	ppb	1.5014	113.0	-0.9061	1.32845
V 292.401	0.2895	ppb	0.3119	107.7	13.4991	0.28947
Zn 206.200	0.3061	ppb	0.5368	175.3	6.6972	0.30614

IDL (Samp) 4/30/2013, 4:46:43 PM Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2748	ppb	0.1935	70.4	-21.9197
Al 308.215	-40.9770	ppb	3.0954	7.6	60.5473
As 188.980	-1.3625	ppb	4.1088	301.6	-1.7776
B 249.678	0.7198	ppb	0.0772	10.7	51.7225
Ba 389.178	0.6808	ppb	0.3011	44.2	-10.2142
Be 313.042	-0.0065	ppb	0.0052	79.6	-94.9269
Ca 370.602	-50.22	ppb	3.479	6.9	-81.05
Cd 226.502	0.0549	ppb	0.2075	377.7	13.0687
Co 228.615	-0.7277	ppb	0.2551	35.1	-9.0501
Cr 267.716	0.0679	ppb	0.2456	361.5	10.8370
Cu 324.754	-0.4506	ppb	0.4903	108.8	70.1312
Fe 271.441	-15.5356	ppb	8.4422	54.3	-6.4058
K 766.491	-0.7764	ppb	0.3097	39.9	1960.32
Mg 279.078	-46.7555	ppb	6.0713	13.0	18.9924
Mn 257.610	0.0037	ppb	0.0367	993.5	10.1389
Mo 202.032	-0.6816	ppb	0.5872	86.2	0.0824
Na 330.237	-115.485	ppb	58.5647	50.7	1.8815
Ni 231.604	-0.3978	ppb	0.8854	222.5	-0.8752
Pb 220.353	-1.3910	ppb	5.7515	413.5	0.9663
Sb 206.834	-2.1079	ppb	0.3765	17.9	1.2222
Se 196.026	-3.9165	ppb	6.1306	156.5	1.2288
Sn 189.925	-3.2078	ppb	1.0125	31.6	-1.9568
Sr 216.596	-0.0522	ppb	0.4991	955.5	-5.6552
Ti 334.941	-0.0668	ppb	0.0581	86.9	-60.5976
Tl 190.794	-1.1629	ppb	1.1307	97.2	-1.9634
V 292.401	0.0300	ppb	0.1761	587.7	6.6833
Zn 206.200	-0.3198	ppb	0.7186	224.7	5.0133

IDL (Samp) 4/30/2013, 4:52:09 PM Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2313	ppb	0.3754	162.3	-23.2110
Al 308.215	-40.4378	ppb	2.0839	5.2	62.1646
As 188.980	4.5645	ppb	4.7679	104.5	0.0798
B 249.678	0.1053	ppb	0.6155	584.3	46.7110
Ba 389.178	-0.3638	ppb	0.2680	73.7	-26.5378
Be 313.042	-0.0197	ppb	0.0057	29.2	-113.811
Ca 370.602	-50.67	ppb	4.130	8.1	-83.61
Cd 226.502	0.0012	ppb	0.1711	14467.5	12.0195
Co 228.615	-1.0193	ppb	0.0503	4.9	-11.1551
Cr 267.716	-0.1233	ppb	0.1279	103.7	8.0627
Cu 324.754	-0.0001	ppb	0.1287	87552.5	86.1731
Fe 271.441	-8.7691	ppb	4.9429	56.4	-1.7429
K 766.491	-0.4975	ppb	0.3468	69.7	1992.22

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-44.0358	ppb	2.3480	5.3	22.0828
Mn 257.610	0.0450	ppb	0.0687	152.6	13.7663
Mo 202.032	-0.5471	ppb	0.7522	137.5	0.5383
Na 330.237	-77.7039	ppb	37.6067	48.4	4.1126
Ni 231.604	0.6000	ppb	1.9680	328.0	1.8086
Pb 220.353	-1.7451	ppb	1.0333	59.2	0.6928
Sb 206.834	0.1241	ppb	4.5437	3660.5	2.5584
Se 196.026	-0.8603	ppb	1.2734	148.0	1.9775
Sn 189.925	-0.4394	ppb	1.0954	249.3	-0.4647
Sr 216.596	-0.7106	ppb	0.2452	34.5	-9.3509
Ti 334.941	-0.0706	ppb	0.0430	61.0	-61.3679
Tl 190.794	-0.1610	ppb	1.7827	1106.9	-1.5391
V 292.401	-0.1946	ppb	0.0634	32.6	0.4169
Zn 206.200	0.1912	ppb	0.8946	467.8	6.3898

IDL (Samp) 4/30/2013, 4:57:36 PM Rack 1, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0267	ppb	0.2030	760.1	-30.8687
Al 308.215	-39.9556	ppb	0.9416	2.4	63.6074
As 188.980	0.7726	ppb	2.5886	335.1	-1.1089
B 249.678	-0.0634	ppb	0.8947	1410.7	45.3586
Ba 389.178	0.0704	ppb	1.2477	1771.8	-19.7558
Be 313.042	-0.0198	ppb	0.0049	24.5	-113.855
Ca 370.602	-44.34	ppb	3.506	7.9	-61.18
Cd 226.502	-0.0220	ppb	0.2198	1001.1	11.5536
Co 228.615	-0.6725	ppb	0.8215	122.2	-8.6574
Cr 267.716	-0.2695	ppb	0.4175	154.9	5.9426
Cu 324.754	-0.2702	ppb	0.1295	47.9	76.5473
Fe 271.441	-12.8712	ppb	9.6189	74.7	-4.5645
K 766.491	-0.8147	ppb	0.3288	40.4	1956.10
Mg 279.078	-45.9921	ppb	5.7982	12.6	19.8593
Mn 257.610	0.0102	ppb	0.0233	228.0	10.7085
Mo 202.032	-0.6156	ppb	1.4173	230.2	0.3062
Na 330.237	-165.455	ppb	34.0386	20.6	-1.0735
Ni 231.604	1.1571	ppb	0.2000	17.3	3.3077
Pb 220.353	-0.0804	ppb	3.1767	3953.1	1.9758
Sb 206.834	1.4560	ppb	3.2146	220.8	3.3605
Se 196.026	-0.9678	ppb	3.1769	328.3	1.9512
Sn 189.925	-2.8934	ppb	1.2455	43.0	-1.7874
Sr 216.596	-0.4153	ppb	1.0707	257.8	-7.7265
Ti 334.941	-0.0368	ppb	0.0210	57.3	-54.5062
Tl 190.794	-0.2782	ppb	2.6040	936.1	-1.5879
V 292.401	-0.1083	ppb	0.2652	244.9	2.8545
Zn 206.200	-0.5161	ppb	0.1244	24.1	4.4856

IDL (Samp) 4/30/2013, 5:03:03 PM Rack 1, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2015	ppb	0.3730	31.0	5.5887
Al 308.215	-42.5251	ppb	3.2238	7.6	55.9073

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-3.9679	ppb	11.1270	280.4	-2.5943
B 249.678	-0.1252	ppb	0.6544	522.6	44.8557
Ba 389.178	-0.1117	ppb	0.5152	461.3	-22.6014
Be 313.042	-0.0247	ppb	0.0047	18.9	-120.924
Ca 370.602	-50.91	ppb	2.613	5.1	-83.54
Cd 226.502	0.0261	ppb	0.1361	520.8	12.5013
Co 228.615	-0.7319	ppb	0.4612	63.0	-9.0851
Cr 267.716	0.0655	ppb	0.5205	794.8	10.8029
Cu 324.754	-0.0108	ppb	0.3098	2879.2	85.7927
Fe 271.441	-15.2487	ppb	10.3251	67.7	-6.2149
K 766.491	-0.6496	ppb	0.4487	69.1	1974.89
Mg 279.078	-45.5315	ppb	1.2869	2.8	20.3901
Mn 257.610	0.0010	ppb	0.0647	6163.4	9.9060
Mo 202.032	-0.8161	ppb	0.1221	15.0	-0.3737
Na 330.237	-75.5697	ppb	99.8967	132.2	4.2402
Ni 231.604	1.0171	ppb	0.8133	80.0	2.9283
Pb 220.353	-1.2909	ppb	2.3600	182.8	1.0429
Sb 206.834	5.8042	ppb	4.6180	79.6	5.9715
Se 196.026	2.8931	ppb	7.9876	276.1	2.8970
Sn 189.925	0.3633	ppb	2.9589	814.3	-0.0320
Sr 216.596	-0.3585	ppb	0.5374	149.9	-7.4080
Ti 334.941	-0.0055	ppb	0.0247	447.1	-48.1683
Tl 190.794	-0.7823	ppb	2.2231	284.2	-1.8023
V 292.401	-0.0979	ppb	0.1057	107.9	3.1096
Zn 206.200	0.0304	ppb	0.6342	2083.4	5.9561

IDL (Samp)

4/30/2013, 5:08:30 PM

Rack 1, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2005	ppb	0.4257	212.4	-24.1243
Al 308.215	-41.8712	ppb	1.7110	4.1	57.8882
As 188.980	2.5894	ppb	4.9627	191.7	-0.5391
B 249.678	-0.0895	ppb	0.6328	706.6	45.1439
Ba 389.178	-0.4272	ppb	0.7031	164.6	-27.5361
Be 313.042	-0.0200	ppb	0.0033	16.6	-114.194
Ca 370.602	-51.13	ppb	2.186	4.3	-83.70
Cd 226.502	-0.0736	ppb	0.1910	259.5	10.5225
Co 228.615	-1.0827	ppb	0.5713	52.8	-11.6136
Cr 267.716	-0.0179	ppb	0.0806	449.2	9.5937
Cu 324.754	-0.0639	ppb	0.2468	386.0	83.8960
Fe 271.441	-17.3433	ppb	1.2611	7.3	-7.6721
K 766.491	-0.6553	ppb	0.7261	110.8	1974.31
Mg 279.078	-46.9267	ppb	0.6032	1.3	18.8067
Mn 257.610	0.0178	ppb	0.0392	220.6	11.3652
Mo 202.032	-0.1034	ppb	0.7321	708.2	2.0441
Na 330.237	-56.8877	ppb	92.4461	162.5	5.3471
Ni 231.604	0.2751	ppb	0.8266	300.4	0.9329
Pb 220.353	-0.6729	ppb	1.6055	238.6	1.5186
Sb 206.834	0.2169	ppb	2.3385	1078.0	2.6202
Se 196.026	-1.7064	ppb	13.2799	778.2	1.7702
Sn 189.925	-2.3701	ppb	3.0138	127.2	-1.5053
Sr 216.596	-0.4973	ppb	0.3067	61.7	-8.1648
Ti 334.941	-0.0717	ppb	0.0552	76.9	61.5872

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-2.5580	ppb	4.5939	179.6	-2.5578
V 292.401	0.0569	ppb	0.1992	349.9	7.2218
Zn 206.200	0.4643	ppb	0.8961	193.0	7.1238

IDL (Samp) 4/30/2013, 5:13:58 PM Rack 1, Tube 8  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1413	ppb	0.6494	459.7	-34.2724
Al 308.215	-42.7013	ppb	1.0601	2.5	55.3715
As 188.980	4.5910	ppb	4.0149	87.5	0.0879
B 249.678	0.4356	ppb	0.5590	128.3	49.3961
Ba 389.178	-0.1102	ppb	0.7100	644.5	-22.5740
Be 313.042	-0.0219	ppb	0.0088	40.2	-116.769
Ca 370.602	-49.54	ppb	3.243	6.5	-79.70
Cd 226.502	-0.0820	ppb	0.2659	324.3	10.3763
Co 228.615	-1.1316	ppb	0.5381	47.6	-11.9516
Cr 267.716	-0.0168	ppb	0.2741	1634.8	9.6066
Cu 324.754	-0.0751	ppb	0.3344	445.3	83.4999
Fe 271.441	-7.8526	ppb	0.6791	8.6	-1.1134
K 766.491	-0.8039	ppb	0.1017	12.6	1957.38
Mg 279.078	-44.4979	ppb	2.0921	4.7	21.5544
Mn 257.610	-0.0538	ppb	0.0333	61.9	5.0958
Mo 202.032	-0.3202	ppb	0.1533	47.9	1.3078
Na 330.237	-151.902	ppb	80.2329	52.8	-0.2735
Ni 231.604	1.1316	ppb	0.5851	51.7	3.2410
Pb 220.353	-2.1654	ppb	0.8787	40.6	0.3697
Sb 206.834	2.5924	ppb	3.4775	134.1	4.0430
Se 196.026	4.1448	ppb	1.7979	43.4	3.2036
Sn 189.925	0.8713	ppb	2.9918	343.4	0.2418
Sr 216.596	-0.3353	ppb	0.8146	243.0	-7.2740
Ti 334.941	-0.0687	ppb	0.0216	31.4	-60.9773
Tl 190.794	4.1791	ppb	5.9963	143.5	0.3065
V 292.401	-0.0507	ppb	0.1970	388.5	4.4990
Zn 206.200	-0.3303	ppb	0.6833	206.9	4.9852

IDL (Samp) 4/30/2013, 5:19:26 PM Rack 1, Tube 9  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1520	ppb	1.3106	862.0	-34.5872
Al 308.215	-41.0409	ppb	2.3292	5.7	60.3749
As 188.980	3.6844	ppb	6.1063	165.7	-0.1960
B 249.678	0.5876	ppb	0.3645	62.0	50.6445
Ba 389.178	-0.6415	ppb	1.1607	180.9	-30.8847
Be 313.042	-0.0293	ppb	0.0047	16.0	-127.292
Ca 370.602	-47.13	ppb	2.857	6.1	-70.02
Cd 226.502	-0.0525	ppb	0.1538	292.8	10.9401
Co 228.615	-0.7637	ppb	0.1916	25.1	-9.3165
Cr 267.716	-0.2161	ppb	0.3121	144.5	6.7189
Cu 324.754	0.0248	ppb	0.2603	1048.3	87.0343
Fe 271.441	-17.1323	ppb	11.1007	64.8	-7.5209
K 766.491	-0.6802	ppb	0.1204	17.7	1971.55

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-44.7956	ppb	4.6912	10.5	21.2427
Mn 257.610	0.3585	ppb	0.0333	9.3	41.2567
Mo 202.032	-0.6271	ppb	0.6055	96.5	0.2670
Na 330.237	-71.9836	ppb	83.8468	116.5	4.4543
Ni 231.604	-0.3527	ppb	0.7637	216.5	-0.7555
Pb 220.353	1.1185	ppb	3.0663	274.1	2.8995
Sb 206.834	0.4603	ppb	1.0728	233.0	2.7634
Se 196.026	-5.9493	ppb	7.0229	118.0	0.7308
Sn 189.925	-3.5878	ppb	0.6907	19.3	-2.1616
Sr 216.596	-0.7375	ppb	0.5878	79.7	-9.4714
Ti 334.941	-0.0601	ppb	0.0242	40.2	-59.2329
Tl 190.794	-0.6890	ppb	3.2876	477.1	-1.7627
V 292.401	0.2048	ppb	0.0818	39.9	11.3592
Zn 206.200	0.1143	ppb	0.5125	448.5	6.1822

IDL (Samp) 4/30/2013, 5:24:54 PM Rack 1, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4973	ppb	0.3317	66.7	-15.3145
Al 308.215	-40.0219	ppb	0.8608	2.2	63.4172
As 188.980	5.9310	ppb	1.9268	32.5	0.5080
B 249.678	-0.7935	ppb	0.7237	91.2	39.4248
Ba 389.178	0.3403	ppb	0.8839	259.7	-15.5362
Be 313.042	-0.0156	ppb	0.0096	61.5	-107.701
Ca 370.602	-50.73	ppb	0.4251	0.8	-83.29
Cd 226.502	0.0302	ppb	0.0819	271.2	12.5862
Co 228.615	-0.7073	ppb	0.6263	88.5	-8.9048
Cr 267.716	-0.1608	ppb	0.4173	259.6	7.5174
Cu 324.754	-0.1702	ppb	0.0857	50.3	80.1083
Fe 271.441	-12.2283	ppb	10.3142	84.3	-4.1333
K 766.491	-0.7569	ppb	0.2223	29.4	1962.61
Mg 279.078	-41.8488	ppb	3.9301	9.4	24.5963
Mn 257.610	-0.0495	ppb	0.0195	39.3	5.4746
Mo 202.032	-0.7437	ppb	0.6054	81.4	-0.1291
Na 330.237	-143.275	ppb	100.246	70.0	0.2374
Ni 231.604	0.0765	ppb	0.6053	791.3	0.4000
Pb 220.353	-2.8013	ppb	5.4719	195.3	-0.1204
Sb 206.834	4.2185	ppb	0.7568	17.9	5.0216
Se 196.026	2.9425	ppb	4.3634	148.3	2.9091
Sn 189.925	-2.0739	ppb	2.3478	113.2	-1.3457
Sr 216.596	-0.0818	ppb	0.7936	970.3	-5.8351
Ti 334.941	-0.1100	ppb	0.0475	43.2	-69.3542
Tl 190.794	-0.2311	ppb	2.4745	1070.6	-1.5679
V 292.401	0.1600	ppb	0.1159	72.4	10.2248
Zn 206.200	-0.6374	ppb	0.9487	148.8	4.1583

IDL (Samp) 4/30/2013, 5:30:22 PM Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4271	ppb	0.5675	132.9	-17.3993
Al 308.215	-41.6209	ppb	2.4935	6.0	58.6292

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	7.5649	ppb	10.4465	138.1	1.0200
B 249.678	0.0432	ppb	0.2769	641.6	46.2380
Ba 389.178	0.5462	ppb	0.2022	37.0	-12.3234
Be 313.042	-0.0309	ppb	0.0041	13.1	-129.547
Ca 370.602	-49.15	ppb	2.162	4.4	-76.94
Cd 226.502	-0.0693	ppb	0.1676	241.9	10.6087
Co 228.615	-0.5798	ppb	0.1828	31.5	-7.9900
Cr 267.716	-0.2605	ppb	0.4541	174.3	6.0739
Cu 324.754	-0.3463	ppb	0.4505	130.1	73.8438
Fe 271.441	-18.9211	ppb	2.5728	13.6	-8.7348
K 766.491	-0.6303	ppb	0.1381	21.9	1976.94
Mg 279.078	-45.2126	ppb	5.9706	13.2	20.7667
Mn 257.610	0.0173	ppb	0.0360	208.9	11.3194
Mo 202.032	0.1469	ppb	0.4704	320.3	2.8928
Na 330.237	-43.8994	ppb	87.8733	200.2	6.1142
Ni 231.604	0.4808	ppb	1.6400	341.1	1.4861
Pb 220.353	-1.8451	ppb	1.4275	77.4	0.6163
Sb 206.834	1.1858	ppb	3.4789	293.4	3.2003
Se 196.026	8.7762	ppb	2.1955	25.0	4.3383
Sn 189.925	-2.1988	ppb	4.8241	219.4	-1.4130
Sr 216.596	-0.5814	ppb	1.0103	173.8	-8.6271
Ti 334.941	-0.0848	ppb	0.0379	44.7	-64.2460
Tl 190.794	-2.5587	ppb	4.7223	184.6	-2.5564
V 292.401	0.1915	ppb	0.0930	48.5	11.0537
Zn 206.200	-0.0448	ppb	0.3852	859.9	5.7535

IDL (Samp) 4/30/2013, 5:35:51 PM Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0752	ppb	0.0822	109.3	-32.3069
Al 308.215	-41.1939	ppb	1.4900	3.6	59.8968
As 188.980	-3.0305	ppb	5.5689	183.8	-2.3005
B 249.678	0.0309	ppb	0.2235	724.0	46.1230
Ba 389.178	-0.1122	ppb	0.2722	242.6	-22.6121
Be 313.042	-0.0273	ppb	0.0118	43.4	-124.529
Ca 370.602	-49.76	ppb	3.032	6.1	-79.48
Cd 226.502	0.0112	ppb	0.1955	1750.5	12.2041
Co 228.615	-0.7765	ppb	0.0863	11.1	-9.4078
Cr 267.716	-0.4206	ppb	0.2934	69.8	3.7520
Cu 324.754	-0.2487	ppb	0.0844	33.9	77.3191
Fe 271.441	-16.0018	ppb	5.8913	36.8	-6.7358
K 766.491	-0.4603	ppb	0.1032	22.4	1996.36
Mg 279.078	-46.3134	ppb	2.8884	6.2	19.4979
Mn 257.610	-0.0372	ppb	0.0302	81.2	6.5477
Mo 202.032	-0.2960	ppb	0.9305	314.3	1.3907
Na 330.237	-135.049	ppb	49.5007	36.7	0.7258
Ni 231.604	-0.0710	ppb	0.7315	1030.9	0.0022
Pb 220.353	-2.2749	ppb	0.3755	16.5	0.2848
Sb 206.834	2.3252	ppb	3.6842	158.4	3.8772
Se 196.026	2.8532	ppb	15.3282	537.2	2.8873
Sn 189.925	-3.8791	ppb	2.8213	72.7	-2.3186
Sr 216.596	0.6244	ppb	0.6915	110.7	-1.9166
Ti 334.941	-0.0437	ppb	0.0099	22.6	55.9255



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-2.4855	ppb	1.6820	67.7	-2.5265
V 292.401	-0.1534	ppb	0.1423	92.8	1.5968
Zn 206.200	0.2670	ppb	0.3128	117.2	6.5945

**Cont Calib Verif (CCV)**

4/30/2013, 5:41:18 PM

Rack 1, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.363	ppb	2.0374	0.4	14852.5	100.27251
Al 308.215	4961.52	ppb	8.4871	0.2	15331.1	99.23035
As 188.980	534.877	ppb	9.9059	1.9	166.909	106.97530
B 249.678	509.761	ppb	1.6552	0.3	4178.81	20.39042Q
Ba 389.178	5185.12	ppb	16.2913	0.3	81070.6	103.70239
Be 313.042	519.384	ppb	1.8469	0.4	741187	103.87683
Ca 370.602	5180	ppb	9.269	0.2	17291	103.59134
Cd 226.502	519.501	ppb	1.8026	0.3	10289.1	103.90012
Co 228.615	520.326	ppb	0.9699	0.2	3737.90	104.06520
Cr 267.716	5259.34	ppb	18.4384	0.4	76275.1	105.18690
Cu 324.754	5131.23	ppb	33.9294	0.7	182522	102.62460
Fe 271.441	4995.80	ppb	9.6294	0.2	3514.20	99.91592
K 766.491	10011.4	ppb	27.7687	0.3	1136897	100.11355
Mg 279.078	5014.79	ppb	18.9963	0.4	5783.40	100.29585
Mn 257.610	5499.48	ppb	13.6764	0.2	482376	109.98970
Mo 202.032	503.837	ppb	0.5193	0.1	1701.81	100.76749
Na 330.237	7470.58	ppb	61.5789	0.8	448.742	99.60777
Ni 231.604	2613.26	ppb	5.9342	0.2	7031.83	104.53042
Pb 220.353	506.249	ppb	3.7859	0.7	386.689	101.24986
Sb 206.834	968.710	ppb	8.3151	0.9	616.610	38.74841Q
Se 196.026	4933.38	ppb	11.4114	0.2	1211.76	98.66750
Sn 189.925	5057.53	ppb	31.5210	0.6	2725.80	101.15061
Sr 216.596	2553.04	ppb	6.7320	0.3	14071.0	102.12159
Ti 334.941	500.359	ppb	1.4385	0.3	101700	100.07172
Tl 190.794	5006.35	ppb	14.8886	0.3	2131.84	100.12691
V 292.401	5033.21	ppb	11.2493	0.2	137142	100.66426
Zn 206.200	2632.96	ppb	5.2010	0.2	7077.36	105.31822

**Cont Calib Blank (CCB)**

4/30/2013, 5:46:43 PM

Rack 1, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0289	ppb	0.7108	2457.1	-29.2192	0.02893
Al 308.215	-40.6838	ppb	3.0763	7.6	61.4332	-40.68381
As 188.980	-2.3568	ppb	8.8388	375.0	-2.0893	-2.35679
B 249.678	0.5603	ppb	0.6537	116.7	50.4276	0.56032
Ba 389.178	0.0310	ppb	0.1084	350.0	-20.3730	0.03097
Be 313.042	0.0061	ppb	0.0045	73.5	-76.7755	0.00613
Ca 370.602	-53.40	ppb	3.621	6.8	-92.15	-53.40378
Cd 226.502	-0.0360	ppb	0.1414	393.2	11.2754	-0.03596
Co 228.615	-0.5391	ppb	0.2742	50.9	-7.6932	-0.53914
Cr 267.716	0.3830	ppb	0.0813	21.2	15.4067	0.38305
Cu 324.754	0.2781	ppb	0.2938	105.7	96.0626	0.27810
Fe 271.441	-14.0796	ppb	3.0094	21.4	-5.3958	-14.07956
K 766.491	0.0396	ppb	0.1721	434.2	2053.08	0.03964

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-49.5891	ppb	6.0732	12.2	15.7456	-49.58907
Mn 257.610	0.2744	ppb	0.1198	43.7	33.8835	0.27444
Mo 202.032	0.0340	ppb	0.7628	2246.2	2.5092	0.03396
Na 330.237	-169.398	ppb	112.108	66.2	-1.3053	-169.39787
Ni 231.604	0.6701	ppb	0.4872	72.7	1.9999	0.67006
Pb 220.353	-0.9848	ppb	3.1872	323.6	1.2792	-0.98482
Sb 206.834	0.6729	ppb	3.8250	568.5	2.8899	0.67286
Se 196.026	3.6522	ppb	14.3708	393.5	3.0830	3.65217
Sn 189.925	-0.5870	ppb	1.2734	216.9	-0.5443	-0.58705
Sr 216.596	-0.0598	ppb	0.3508	586.5	-5.7304	-0.05982
Ti 334.941	-0.0230	ppb	0.0210	91.3	-51.6922	-0.02296
Tl 190.794	4.9308	ppb	4.1176	83.5	0.6272	4.93084
V 292.401	0.2174	ppb	0.2038	93.7	11.8275	0.21743
Zn 206.200	-0.0327	ppb	0.3054	934.4	5.7858	-0.03268

mb 680-274812/1-a (Samp)

4/30/2013, 5:52:09 PM

Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0158	ppb	0.3472	2193.5	-29.6066
Al 308.215	-40.1930	ppb	1.2600	3.1	62.9107
As 188.980	-5.3431	ppb	1.7515	32.8	-3.0253
B 249.678	3.0159	ppb	0.6071	20.1	70.3503
Ba 389.178	-0.4450	ppb	0.2040	45.8	-27.8075
Be 313.042	-0.0206	ppb	0.0058	28.1	-114.940
Ca 370.602	-46.97	ppb	2.849	6.1	-69.87
Cd 226.502	-0.1434	ppb	0.1210	84.4	9.1498
Co 228.615	-0.7730	ppb	0.3693	47.8	-9.3825
Cr 267.716	-0.1499	ppb	0.0683	45.6	7.6782
Cu 324.754	-0.0680	ppb	0.3006	442.2	83.7403
Fe 271.441	-14.7913	ppb	5.5630	37.6	-5.9065
K 766.491	-0.1845	ppb	0.2016	109.3	2027.74
Mg 279.078	-41.9207	ppb	2.1246	5.1	24.5247
Mn 257.610	0.0207	ppb	0.0499	241.1	11.6322
Mo 202.032	-0.1813	ppb	0.3300	182.0	1.7794
Na 330.237	-68.2864	ppb	110.901	162.4	4.6717
Ni 231.604	0.4773	ppb	0.9176	192.2	1.4806
Pb 220.353	0.8112	ppb	1.9595	241.6	2.6625
Sb 206.834	2.3444	ppb	2.8154	120.1	3.8925
Se 196.026	11.6518	ppb	5.7934	49.7	5.0428
Sn 189.925	-2.2040	ppb	3.4878	158.3	-1.4157
Sr 216.596	-0.0867	ppb	0.5017	578.4	-5.8832
Ti 334.941	-0.0190	ppb	0.0209	109.9	-50.9091
Tl 190.794	1.1695	ppb	5.5768	476.8	-0.9730
V 292.401	0.0629	ppb	0.1192	189.6	7.4751
Zn 206.200	0.1118	ppb	0.9342	835.3	6.1755

lcs 680-274812/2-a (Samp)

4/30/2013, 5:57:35 PM

Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.498	ppb	0.4859	0.5	3103.31
Al 308.215	10395.9	ppb	6.0595	0.1	31359.0

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	211.232	ppb	5.9933	2.8	64.6604
B 249.678	403.471	ppb	1.0930	0.3	3299.37
Ba 389.178	215.969	ppb	0.4168	0.2	3386.42
Be 313.042	108.574	ppb	0.0880	0.1	154398
Ca 370.602	10409	ppb	13.97	0.1	34191
Cd 226.502	108.723	ppb	0.2244	0.2	2182.83
Co 228.615	106.801	ppb	0.4531	0.4	763.310
Cr 267.716	217.150	ppb	0.4880	0.2	3154.97
Cu 324.754	215.664	ppb	0.7676	0.4	7732.96
Fe 271.441	10224.1	ppb	1.6203	0.0	7075.96
K 766.491	10324.4	ppb	9.1161	0.1	1173600
Mg 279.078	10310.3	ppb	4.1199	0.0	11832.3
Mn 257.610	1109.66	ppb	2.2677	0.2	97371.0
Mo 202.032	205.920	ppb	1.0555	0.5	699.405
Na 330.237	10436.2	ppb	85.2607	0.8	620.194
Ni 231.604	216.878	ppb	0.7518	0.3	584.416
Pb 220.353	99.6813	ppb	5.8085	5.8	77.2800
Sb 206.834	92.1141	ppb	4.1735	4.5	58.9547
Se 196.026	205.141	ppb	7.6140	3.7	52.7350
Sn 189.925	405.371	ppb	5.7160	1.4	218.274
Sr 216.596	209.407	ppb	1.3490	0.6	1151.35
Ti 334.941	205.487	ppb	0.6315	0.3	41633.2
Tl 190.794	84.4916	ppb	2.6544	3.1	34.1555
V 292.401	209.167	ppb	0.2779	0.1	5664.37
Zn 206.200	216.609	ppb	1.4865	0.7	588.862

lb 680-273778/6-d (Samp)

4/30/2013, 6:03:01 PM

Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3248b	ppb	0.8405	258.8	-39.7197
Al 308.215	-39.6472b	ppb	1.9896	5.0	64.5376
As 188.980	-1.9200b	ppb	5.9555	310.2	-1.9605
B 249.678	37.2616b	ppb	1.0400	2.8	348.351
Ba 389.178	1.3882b	ppb	0.3084	22.2	0.9807
Be 313.042	-0.0056b	ppb	0.0110	196.5	-103.545
Ca 370.602	336.9b	ppb	1.874	0.6	1249
Cd 226.502	-0.0267b	ppb	0.0515	192.8	11.1056
Co 228.615	-1.2675b	ppb	0.1835	14.5	-12.9368
Cr 267.716	0.1793b	ppb	0.1858	103.7	13.0682
Cu 324.754	0.3891b	ppb	0.0648	16.7	98.9786
Fe 271.441	-20.6996b	ppb	9.0522	43.7	-10.0035
K 766.491	105.930b	ppb	0.7412	0.7	14069.2
Mg 279.078	31.1444b	ppb	4.7341	15.2	108.153
Mn 257.610	0.0510b	ppb	0.0803	157.4	14.2333
Mo 202.032	0.0332b	ppb	0.2871	865.8	2.5083
Na 330.237	125288xb	ppb	454.522	0.4	7413.94
Ni 231.604	-0.0700b	ppb	0.8682	1240.8	0.0089
Pb 220.353	0.5057b	ppb	4.0768	806.2	2.4264
Sb 206.834	0.0073b	ppb	3.0810	42129.1	2.4985
Se 196.026	12.8199b	ppb	19.0408	148.5	5.3305
Sn 189.925	-3.7073b	ppb	2.3039	62.1	-2.2012
Sr 216.596	0.8470b	ppb	0.2793	33.0	-0.6713
Ti 334.941	-0.0663b	ppb	0.0486	73.3	66.4715

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-0.2695b	ppb	2.9509	1094.9	-1.5885
V 292.401	-0.0892b	ppb	0.1375	154.2	2.3856
Zn 206.200	1.5728b	ppb	0.5781	36.8	10.1098

**680-89444-a-1-1 (Samp)****4/30/2013, 6:08:27 PM****Rack 1, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4208	ppb	0.2976	70.7	-42.5720
Al 308.215	58.3627	ppb	1.8576	3.2	358.324
As 188.980	-1.4433	ppb	4.0381	279.8	-1.8800
B 249.678	5.2176	ppb	0.3525	6.8	88.2258
Ba 389.178	0.9921	ppb	0.6993	70.5	-5.3361
Be 313.042	-0.0216	ppb	0.0027	12.5	-115.667
Ca 370.602	3569	ppb	8.260	0.2	12341
Cd 226.502	0.0097	ppb	0.1864	1920.2	12.1782
Co 228.615	-0.6397	ppb	0.3877	60.6	-8.4208
Cr 267.716	0.5461	ppb	0.3583	65.6	17.7873
Cu 324.754	0.5611	ppb	0.1819	32.4	96.4557
Fe 271.441	-11.4141	ppb	7.5166	65.9	-3.5624
K 766.491	2073.16	ppb	3.4104	0.2	237309
Mg 279.078	-37.3069	ppb	2.6762	7.2	29.7954
Mn 257.610	0.0109	ppb	0.0480	439.8	10.7943
Mo 202.032	0.1615	ppb	0.0504	31.2	2.9434
Na 330.237	2749.68	ppb	76.8194	2.8	171.229
Ni 231.604	0.0849	ppb	0.2791	328.8	0.4217
Pb 220.353	-1.8299	ppb	0.1600	8.7	0.6171
Sb 206.834	3.4529	ppb	1.6493	47.8	4.5950
Se 196.026	-2.1331	ppb	13.9331	653.2	1.6759
Sn 189.925	-0.0646	ppb	4.7706	7385.4	-0.2739
Sr 216.596	54.0286	ppb	0.1986	0.4	294.724
Ti 334.941	0.0458	ppb	0.0453	98.8	-34.1447
Tl 190.794	-0.9622	ppb	3.9153	406.9	-1.9109
V 292.401	0.1039	ppb	0.2566	246.9	8.5534
Zn 206.200	1.1324	ppb	0.0783	6.9	8.9214

**680-89444-a-1-1SD^5 (Samp)****4/30/2013, 6:13:54 PM****Rack 1, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1167	ppb	0.7612	652.1	-33.5449
Al 308.215	-24.0944	ppb	1.3515	5.6	111.156
As 188.980	9.6532	ppb	4.1564	43.1	1.6589
B 249.678	1.1788	ppb	1.0459	88.7	55.4414
Ba 389.178	0.4131	ppb	1.3715	332.0	-14.3942
Be 313.042	-0.0229	ppb	0.0083	36.3	-118.087
Ca 370.602	686.2	ppb	5.222	0.8	2446
Cd 226.502	0.0241	ppb	0.2032	841.6	12.4686
Co 228.615	-0.6844	ppb	0.4911	71.8	-8.7401
Cr 267.716	0.1648	ppb	0.3406	206.6	12.2436
Cu 324.754	0.0730	ppb	0.0603	82.6	86.7937
Fe 271.441	-8.7778	ppb	5.0226	57.2	-1.7314
K 766.491	421.009	ppb	1.7127	0.4	49824.4

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-48.3220	ppb	4.0438	8.4	17.1859
Mn 257.610	-0.0235	ppb	0.0359	152.9	7.7620
Mo 202.032	-0.2576	ppb	0.8223	319.2	1.5201
Na 330.237	401.362	ppb	142.258	35.4	32.4294
Ni 231.604	0.1755	ppb	0.4598	262.1	0.6679
Pb 220.353	1.5950	ppb	4.0975	256.9	3.2647
Sb 206.834	-1.4563	ppb	2.8425	195.2	1.6208
Se 196.026	7.9409	ppb	9.8566	124.1	4.1357
Sn 189.925	-1.0762	ppb	4.7157	438.2	-0.8102
Sr 216.596	11.0479	ppb	0.4248	3.8	55.9833
Ti 334.941	-0.0887	ppb	0.0475	53.6	-64.2752
Tl 190.794	0.0582	ppb	3.9882	6855.9	-1.4510
V 292.401	0.0928	ppb	0.1903	205.0	8.3653
Zn 206.200	0.2623	ppb	0.4480	170.8	6.5798

680-89444-a-1-IPDS (Samp) 4/30/2013, 6:21:37 PM Rack 1, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6633	ppb	0.5746	1.1	1473.18
Al 308.215	2075.43	ppb	11.7243	0.6	6443.01
As 188.980	2037.45	ppb	8.8915	0.4	637.027
B 249.678	1005.32	ppb	4.8119	0.5	8210.28
Ba 389.178	2138.32	ppb	6.6422	0.3	33418.4
Be 313.042	52.9732	ppb	0.2165	0.4	75474.8
Ca 370.602	8824	ppb	35.93	0.4	30333
Cd 226.502	53.3883	ppb	0.6236	1.2	1069.40
Co 228.615	535.010	ppb	4.0428	0.8	3846.74
Cr 267.716	215.348	ppb	0.3797	0.2	3131.58
Cu 324.754	263.114	ppb	2.7225	1.0	9414.11
Fe 271.441	1014.06	ppb	12.5884	1.2	732.228
K 766.491	7208.38	ppb	24.7691	0.3	819543
Mg 279.078	5136.66	ppb	26.9113	0.5	5945.41
Mn 257.610	554.154	ppb	1.8314	0.3	48636.1
Mo 202.032	524.705	ppb	5.2093	1.0	1781.34
Na 330.237	8052.48	ppb	173.177	2.2	478.390
Ni 231.604	530.069	ppb	2.2013	0.4	1426.86
Pb 220.353	513.438	ppb	9.1067	1.8	396.492
Sb 206.834	486.103	ppb	3.0501	0.6	291.784
Se 196.026	2022.43	ppb	18.5235	0.9	497.801
Sn 189.925	1041.41	ppb	3.9291	0.4	561.269
Sr 216.596	584.798	ppb	4.1623	0.7	3215.59
Ti 334.941	1020.93	ppb	4.1630	0.4	206939
Tl 190.794	2115.79	ppb	6.0682	0.3	899.163
V 292.401	510.629	ppb	2.5295	0.5	13837.5
Zn 206.200	528.827	ppb	2.6070	0.5	1429.11

680-89444-a-1-m ms (Samp) 4/30/2013, 6:27:04 PM Rack 1, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1996	ppb	0.2281	0.5	1461.83
Al 308.215	852.755	ppb	3.5425	0.4	2744.66

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	80.6608	ppb	18.6122	23.1	23.7041
B 249.678	159.027	ppb	0.6213	0.4	1320.54
Ba 389.178	80.3408	ppb	0.5447	0.7	1258.36
Be 313.042	82.7236	ppb	0.0265	0.0	117581
Ca 370.602	10997	ppb	9.556	0.1	36564
Cd 226.502	83.0403	ppb	0.4216	0.5	1669.93
Co 228.615	82.1080	ppb	0.2426	0.3	586.100
Cr 267.716	84.5831	ppb	0.8201	1.0	1233.42
Cu 324.754	83.9997	ppb	0.6185	0.7	3048.13
Fe 271.441	7954.53	ppb	9.3768	0.1	5505.46
K 766.491	9439.64	ppb	10.2776	0.1	1073235
Mg 279.078	7847.19	ppb	7.2342	0.1	9022.26
Mn 257.610	871.000	ppb	0.0396	0.0	76430.0
Mo 202.032	81.3709	ppb	0.9288	1.1	277.288
Na 330.237	9577.30	ppb	85.9221	0.9	571.017
Ni 231.604	84.4110	ppb	0.6368	0.8	227.896
Pb 220.353	79.0803	ppb	1.2523	1.6	62.6543
Sb 206.834	72.8905	ppb	5.7424	7.9	47.2259
Se 196.026	79.6035	ppb	4.9517	6.2	21.9021
Sn 189.925	74.7989	ppb	1.3394	1.8	40.0719
Sr 216.596	123.695	ppb	0.5167	0.4	681.014
Ti 334.941	79.7365	ppb	0.0321	0.0	16133.5
Tl 190.794	17.0979	ppb	1.0482	6.1	5.5650
V 292.401	80.7133	ppb	0.1571	0.2	2189.12
Zn 206.200	90.2027	ppb	0.7707	0.9	248.854

680-89444-a-1-n msd (Samp)

4/30/2013, 6:32:31 PM

Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.0218	ppb	0.6467	1.3	1486.24
Al 308.215	847.241	ppb	3.1932	0.4	2728.11
As 188.980	86.0625	ppb	12.3908	14.4	25.3965
B 249.678	157.572	ppb	0.5015	0.3	1308.76
Ba 389.178	80.9218	ppb	0.8078	1.0	1267.40
Be 313.042	82.1473	ppb	0.1206	0.1	116762
Ca 370.602	11016	ppb	7.873	0.1	36631
Cd 226.502	83.2065	ppb	0.5367	0.6	1673.19
Co 228.615	82.0004	ppb	0.1870	0.2	585.334
Cr 267.716	84.5794	ppb	0.2149	0.3	1233.37
Cu 324.754	83.6616	ppb	0.1567	0.2	3036.04
Fe 271.441	7942.93	ppb	4.7789	0.1	5497.43
K 766.491	9487.49	ppb	9.8760	0.1	1078664
Mg 279.078	7810.82	ppb	11.7165	0.2	8980.68
Mn 257.610	870.653	ppb	2.3593	0.3	76399.5
Mo 202.032	79.5293	ppb	0.6553	0.8	271.042
Na 330.237	9529.42	ppb	75.4840	0.8	568.183
Ni 231.604	83.7189	ppb	0.4040	0.5	226.033
Pb 220.353	80.5363	ppb	3.6125	4.5	63.7778
Sb 206.834	74.3723	ppb	2.6315	3.5	48.1158
Se 196.026	75.4698	ppb	16.3902	21.7	20.8893
Sn 189.925	76.0304	ppb	2.2401	2.9	40.7355
Sr 216.596	123.915	ppb	0.5360	0.4	682.268
Ti 334.941	79.5043	ppb	0.1211	0.2	16086.4

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	14.2303	ppb	4.8586	34.1	4.3468
V 292.401	80.6623	ppb	0.3745	0.5	2187.90
Zn 206.200	83.0916	ppb	0.7407	0.9	229.708

**680-89469-c-1-h (Samp)**      **4/30/2013, 6:37:59 PM**      **Rack 1, Tube 23**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4220	ppb	0.0885	21.0	-17.4173
Al 308.215	-22.9988	ppb	4.0582	17.6	114.744
As 188.980	6.3787	ppb	7.4463	116.7	0.4967
B 249.678	33.0488	ppb	0.2710	0.8	313.963
Ba 389.178	8.0089	ppb	1.3316	16.6	107.003
Be 313.042	-0.0157	ppb	0.0037	23.3	-106.289
Ca 370.602	7127	ppb	15.55	0.2	24548
Cd 226.502	-0.0081	ppb	0.3041	3734.4	11.9546
Co 228.615	0.2239	ppb	0.2598	116.1	-2.3415
Cr 267.716	0.3590	ppb	0.2306	64.3	15.0710
Cu 324.754	1.8074	ppb	0.1334	7.4	131.451
Fe 271.441	45.6805	ppb	11.7505	25.7	35.9534
K 766.491	1207.20	ppb	2.4030	0.2	139039
Mg 279.078	1393.41	ppb	9.3135	0.7	1666.63
Mn 257.610	32.8118	ppb	0.1072	0.3	2891.07
Mo 202.032	9.6404	ppb	0.4400	4.6	35.0877
Na 330.237	1654.81	ppb	77.4172	4.7	106.497
Ni 231.604	1.0197	ppb	0.7442	73.0	2.9890
Pb 220.353	0.5422	ppb	0.3682	67.9	2.4404
Sb 206.834	0.2352	ppb	2.3122	983.0	2.6758
Se 196.026	-3.0077	ppb	4.9730	165.3	1.4844
Sn 189.925	-1.6983	ppb	3.6910	217.3	-1.1663
Sr 216.596	27.4946	ppb	0.1110	0.4	147.386
Ti 334.941	0.5661	ppb	0.0519	9.2	75.0890
Tl 190.794	-2.5613	ppb	5.0698	197.9	-2.6283
V 292.401	1.7391	ppb	0.1314	7.6	51.1127
Zn 206.200	6.8843	ppb	0.1472	2.1	24.4523

**lb 680-273792/11-f (Samp)**      **4/30/2013, 6:43:27 PM**      **Rack 1, Tube 24**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2118b	ppb	0.4444	209.8	-23.7905
Al 308.215	-40.0221b	ppb	0.9408	2.4	63.3973
As 188.980	4.4015b	ppb	4.4848	101.9	0.0266
B 249.678	10.0379b	ppb	0.2363	2.4	127.350
Ba 389.178	-0.8032b	ppb	0.3963	49.3	-33.3763
Be 313.042	-0.0054b	ppb	0.0042	77.6	-103.560
Ca 370.602	41.65b	ppb	2.766	6.6	233.9
Cd 226.502	0.1565b	ppb	0.1454	93.0	14.7330
Co 228.615	-1.0745b	ppb	0.4284	39.9	-11.5408
Cr 267.716	-0.2226b	ppb	0.0587	26.4	7.2559
Cu 324.754	0.2876b	ppb	0.1434	49.9	96.1534
Fe 271.441	-10.9534b	ppb	6.4576	59.0	-3.2576
K 766.491	34.8027b	ppb	0.2679	0.8	5998.18

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-26.9431b	ppb	3.2547	12.1	41.6519
Mn 257.610	0.1926b	ppb	0.0523	27.2	26.5133
Mo 202.032	-0.5986b	ppb	0.8215	137.2	0.3638
Na 330.237	130032xb	ppb	198.288	0.2	7694.29
Ni 231.604	0.6862b	ppb	2.2441	327.0	2.0435
Pb 220.353	-3.0314b	ppb	1.6782	55.4	-0.2977
Sb 206.834	1.8469b	ppb	3.1638	171.3	3.5957
Se 196.026	6.8328b	ppb	7.6093	111.4	3.8626
Sn 189.925	-1.3438b	ppb	1.4777	110.0	-0.9253
Sr 216.596	0.2156b	ppb	0.8966	415.8	-4.1969
Ti 334.941	-0.0239b	ppb	0.0511	213.9	-58.4399
Tl 190.794	4.0408b	ppb	4.3316	107.2	0.2470
V 292.401	-0.0828b	ppb	0.0470	56.7	2.7170
Zn 206.200	1.3769b	ppb	0.0314	2.3	9.5822

## Cont Calib Verif (CCV)

4/30/2013, 6:48:54 PM

Rack 1, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.835	ppb	1.6431	0.3	14836.6	100.16699
Al 308.215	4947.41	ppb	3.8841	0.1	15288.8	98.94827
As 188.980	533.551	ppb	3.6894	0.7	166.493	106.71022
B 249.678	510.814	ppb	0.3576	0.1	4187.38	20.43257Q
Ba 389.178	5197.09	ppb	3.9862	0.1	81257.7	103.94179
Be 313.042	519.807	ppb	0.3269	0.1	741787	103.96150
Ca 370.602	5192	ppb	7.332	0.1	17332	103.83139
Cd 226.502	521.295	ppb	0.1388	0.0	10324.5	104.25891
Co 228.615	522.286	ppb	1.7930	0.3	3751.95	104.45726
Cr 267.716	5285.47	ppb	7.6821	0.1	76654.0	105.70933
Cu 324.754	5144.62	ppb	30.6898	0.6	182998	102.89245
Fe 271.441	4983.31	ppb	4.5413	0.1	3505.57	99.66625
K 766.491	9948.40	ppb	15.4678	0.2	1129750	99.48403
Mg 279.078	5002.69	ppb	10.5041	0.2	5769.72	100.05389
Mn 257.610	5436.29	ppb	2.9720	0.1	476833	108.72582
Mo 202.032	503.020	ppb	1.5240	0.3	1699.04	100.60400
Na 330.237	7452.64	ppb	61.8667	0.8	447.709	99.36858
Ni 231.604	2619.32	ppb	3.6780	0.1	7048.14	104.77274
Pb 220.353	505.550	ppb	5.9126	1.2	386.143	101.11002
Sb 206.834	976.622	ppb	15.4862	1.6	621.416	39.06487Q
Se 196.026	4926.76	ppb	4.3849	0.1	1210.13	98.53511
Sn 189.925	5075.27	ppb	7.0987	0.1	2735.36	101.50548
Sr 216.596	2556.96	ppb	2.3363	0.1	14092.5	102.27839
Ti 334.941	500.235	ppb	0.2678	0.1	101675	100.04697
Tl 190.794	5028.22	ppb	20.5392	0.4	2141.13	100.56434
V 292.401	5027.92	ppb	4.6455	0.1	136997	100.55831
Zn 206.200	2648.46	ppb	6.2904	0.2	7119.08	105.93848

## Cont Calib Blank (CCB)

4/30/2013, 6:54:20 PM

Rack 1, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2232	ppb	0.5202	233.1	-23.4506	0.22322
Al 308.215	-43.9546	ppb	0.1403	0.3	51.6470	-43.95462



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	-2.3294	ppb	7.1930	308.8	-2.0807	-2.32935
B 249.678	1.2406	ppb	0.7184	57.9	55.9426	1.24063
Ba 389.178	0.8527	ppb	0.3530	41.4	-7.5239	0.85267
Be 313.042	0.0297	ppb	0.0249	83.7	-43.1964	0.02974
Ca 370.602	-50.13	ppb	2.771	5.5	-81.32	-50.12568
Cd 226.502	-0.1340	ppb	0.0881	65.8	9.3432	-0.13399
Co 228.615	-0.3980	ppb	0.4486	112.7	-6.6844	-0.39800
Cr 267.716	0.4657	ppb	0.6921	148.6	16.6047	0.46567
Cu 324.754	0.5826	ppb	0.1857	31.9	106.887	0.58265
Fe 271.441	-9.7220	ppb	4.4148	45.4	-2.3781	-9.72198
K 766.491	0.9619	ppb	0.7179	74.6	2157.55	0.96191
Mg 279.078	-44.1941	ppb	1.9879	4.5	21.9089	-44.19409
Mn 257.610	0.4910	ppb	0.2739	55.8	52.8749	0.49095
Mo 202.032	0.3965	ppb	0.9915	250.1	3.7383	0.39646
Na 330.237	-22.5996	ppb	157.220	695.7	7.3708	-22.59964
Ni 231.604	0.4320	ppb	0.1818	42.1	1.3530	0.43201
Pb 220.353	-1.2192	ppb	4.1038	336.6	1.0983	-1.21917
Sb 206.834	4.0346	ppb	4.4606	110.6	4.9135	4.03460
Se 196.026	3.5478	ppb	2.9390	82.8	3.0575	3.54779
Sn 189.925	-2.1330	ppb	3.1093	145.8	-1.3774	-2.13295
Sr 216.596	0.1206	ppb	0.1862	154.4	-4.7290	0.12058
Ti 334.941	0.0197	ppb	0.0707	357.9	-43.0370	0.01974
Tl 190.794	-2.6269	ppb	3.1008	118.0	-2.5856	-2.62688
V 292.401	0.3681	ppb	0.1725	46.9	15.8273	0.36808
Zn 206.200	0.5943	ppb	0.6708	112.9	7.4735	0.59427

680-89444-b-4-f (Samp)

4/30/2013, 6:59:45 PM

Rack 1, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3215b	ppb	0.2455	76.4	-38.3060
Al 308.215	10.4983b	ppb	2.4972	23.8	214.851
As 188.980	-3.2495b	ppb	1.4502	44.6	-2.4609
B 249.678	11.5356b	ppb	0.3248	2.8	139.611
Ba 389.178	48.2772b	ppb	0.8918	1.8	734.324
Be 313.042	0.0388b	ppb	0.0061	15.8	-39.3467
Ca 370.602	4256b	ppb	13.37	0.3	14711
Cd 226.502	-0.1903b	ppb	0.1143	60.0	7.8956
Co 228.615	4.4564b	ppb	0.1221	2.7	28.2239
Cr 267.716	1.0862b	ppb	0.1928	17.8	26.5660
Cu 324.754	0.9933b	ppb	0.3101	31.2	110.022
Fe 271.441	-14.1412b	ppb	7.5541	53.4	-5.2396
K 766.491	601.420b	ppb	0.9353	0.2	70286.0
Mg 279.078	262.972b	ppb	5.0252	1.9	372.848
Mn 257.610	319.867b	ppb	0.8390	0.3	28064.9
Mo 202.032	0.5612b	ppb	1.0247	182.6	4.2991
Na 330.237	123931xb	ppb	544.693	0.4	7333.74
Ni 231.604	2.4228b	ppb	0.3997	16.5	6.7246
Pb 220.353	-0.1291b	ppb	5.1301	3975.1	1.9310
Sb 206.834	0.1275b	ppb	2.6805	2102.4	2.6138
Se 196.026	11.4406b	ppb	8.3383	72.9	5.0586
Sn 189.925	-1.4331b	ppb	2.4871	173.5	-0.9886
Sr 216.596	7.5675b	ppb	0.7861	10.4	36.7181
Ti 334.941	-0.0220b	ppb	0.0395	179.8	53.3048

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	10.1326b	ppb	7.2039	71.1	2.8071
V 292.401	0.0651b	ppb	0.1840	282.5	5.9738
Zn 206.200	8.0669b	ppb	0.4489	5.6	27.5971

680-89411-b-1-i ms (Samp) 4/30/2013, 7:05:11 PM Rack 1, Tube 28

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.8244b	ppb	0.1722	0.8	590.272
Al 308.215	852.455b	ppb	4.1106	0.5	2743.67
As 188.980	75.8908b	ppb	3.5737	4.7	22.0759
B 249.678	157.574b	ppb	0.2626	0.2	1308.21
Ba 389.178	151.110b	ppb	1.3241	0.9	2365.66
Be 313.042	82.7014b	ppb	0.0940	0.1	117542
Ca 370.602	17226b	ppb	34.50	0.2	57906
Cd 226.502	83.6165b	ppb	0.5578	0.7	1681.60
Co 228.615	83.2488b	ppb	0.4124	0.5	594.335
Cr 267.716	85.0329b	ppb	0.2279	0.3	1240.45
Cu 324.754	83.6858b	ppb	0.3100	0.4	3020.51
Fe 271.441	8215.72b	ppb	11.5626	0.1	5685.98
K 766.491	11325.4b	ppb	16.5882	0.1	1287211
Mg 279.078	8279.40b	ppb	29.4486	0.4	9515.70
Mn 257.610	989.314b	ppb	1.3634	0.1	86808.1
Mo 202.032	80.3491b	ppb	0.6787	0.8	273.790
Na 330.237	110774xb	ppb	445.943	0.4	6552.31
Ni 231.604	86.7433b	ppb	0.4005	0.5	234.200
Pb 220.353	81.1698b	ppb	3.1833	3.9	64.2630
Sb 206.834	77.0116b	ppb	8.5016	11.0	49.7722
Se 196.026	81.1243b	ppb	2.3924	2.9	22.3135
Sn 189.925	75.5203b	ppb	1.5888	2.1	40.4612
Sr 216.596	105.700b	ppb	0.4358	0.4	581.390
Ti 334.941	79.1537b	ppb	0.1070	0.1	16016.6
Tl 190.794	16.3449b	ppb	2.7529	16.8	5.1816
V 292.401	79.6826b	ppb	0.2814	0.4	2160.12
Zn 206.200	160.791b	ppb	0.1122	0.1	438.920

680-89411-b-1-j msd (Samp) 4/30/2013, 7:10:38 PM Rack 1, Tube 29

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.7013b	ppb	0.1289	0.2	1536.54
Al 308.215	850.395b	ppb	4.4459	0.5	2737.52
As 188.980	82.6132b	ppb	2.5467	3.1	24.1821
B 249.678	158.216b	ppb	0.9330	0.6	1313.25
Ba 389.178	150.664b	ppb	1.2100	0.8	2358.86
Be 313.042	83.5083b	ppb	0.1127	0.1	118690
Ca 370.602	17247b	ppb	32.18	0.2	57964
Cd 226.502	84.0172b	ppb	0.0825	0.1	1689.68
Co 228.615	82.9999b	ppb	0.4017	0.5	592.553
Cr 267.716	85.3060b	ppb	0.7770	0.9	1244.37
Cu 324.754	83.8766b	ppb	0.2382	0.3	3027.26
Fe 271.441	8294.88b	ppb	14.6278	0.2	5740.68
K 766.491	11358.5b	ppb	35.4803	0.3	1290965

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	8308.57b	ppb	43.5651	0.5	9548.79
Mn 257.610	997.681b	ppb	1.4300	0.1	87542.1
Mo 202.032	79.4094b	ppb	1.0266	1.3	270.591
Na 330.237	110236xb	ppb	292.455	0.3	6520.41
Ni 231.604	86.7668b	ppb	0.7477	0.9	234.270
Pb 220.353	78.7829b	ppb	2.9499	3.7	62.4234
Sb 206.834	75.0046b	ppb	4.6481	6.2	48.5663
Se 196.026	82.7536b	ppb	2.5513	3.1	22.7141
Sn 189.925	75.8362b	ppb	0.9703	1.3	40.6314
Sr 216.596	105.292b	ppb	1.2393	1.2	579.161
Ti 334.941	79.5972b	ppb	0.1459	0.2	16106.6
Tl 190.794	14.4802b	ppb	3.9997	27.6	4.3864
V 292.401	80.3665b	ppb	0.5898	0.7	2178.84
Zn 206.200	139.986b	ppb	0.8723	0.6	382.908

lb 680-274304/13-d (Samp) 4/30/2013, 7:16:04 PM Rack 1, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3060b	ppb	0.1314	42.9	-20.9957
Al 308.215	-39.0935b	ppb	1.5372	3.9	66.2030
As 188.980	-0.7206b	ppb	3.6196	502.3	-1.5867
B 249.678	57.0750b	ppb	0.3142	0.6	509.178
Ba 389.178	0.1635b	ppb	0.4870	297.8	-18.1087
Be 313.042	0.0027b	ppb	0.0027	101.3	-91.9775
Ca 370.602	427.5b	ppb	2.637	0.6	1558
Cd 226.502	0.0735b	ppb	0.3140	426.9	13.0904
Co 228.615	-0.9280b	ppb	0.6332	68.2	-10.4926
Cr 267.716	-0.0169b	ppb	0.1551	918.2	10.2432
Cu 324.754	0.2854b	ppb	0.1392	48.8	95.0456
Fe 271.441	-12.9758b	ppb	8.6726	66.8	-4.6476
K 766.491	104.153b	ppb	0.3062	0.3	13867.7
Mg 279.078	58.7645b	ppb	3.6347	6.2	139.727
Mn 257.610	0.0989b	ppb	0.0564	57.1	18.4933
Mo 202.032	-0.1492b	ppb	0.6097	408.6	1.8880
Na 330.237	131085xb	ppb	250.663	0.2	7756.57
Ni 231.604	0.0570b	ppb	0.4630	812.1	0.3536
Pb 220.353	-1.0366b	ppb	2.6806	258.6	1.2387
Sb 206.834	1.9085b	ppb	4.5438	238.1	3.6382
Se 196.026	0.7129b	ppb	13.5664	1902.9	2.3648
Sn 189.925	-2.1704b	ppb	1.2706	58.5	-1.3719
Sr 216.596	0.9345b	ppb	0.2358	25.2	-0.1763
Ti 334.941	-0.0009b	ppb	0.0545	5804.2	-53.4211
Tl 190.794	1.4436b	ppb	6.1547	426.3	-0.8603
V 292.401	0.1404b	ppb	0.3451	245.7	8.7060
Zn 206.200	3.3090b	ppb	0.3538	10.7	14.7860

680-89596-a-2-i (Samp) 4/30/2013, 7:21:31 PM Rack 1, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0279b	ppb	0.6415	2296.9	-26.8382
Al 308.215	10.1669b	ppb	2.4897	24.5	213.836

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.7721b	ppb	6.9569	392.6	-2.1243
B 249.678	61.0269b	ppb	0.4007	0.7	541.663
Ba 389.178	210.959b	ppb	1.1356	0.5	3282.68
Be 313.042	0.0339b	ppb	0.0027	8.1	-45.3582
Ca 370.602	10131b	ppb	23.57	0.2	34887
Cd 226.502	0.2082b	ppb	0.3373	162.0	15.7721
Co 228.615	19.4744b	ppb	0.6504	3.3	136.239
Cr 267.716	0.9354b	ppb	0.2830	30.3	24.6961
Cu 324.754	0.3995b	ppb	0.2429	60.8	73.4526
Fe 271.441	-19.4034b	ppb	5.5702	28.7	-8.2434
K 766.491	1527.78b	ppb	2.9481	0.2	175370
Mg 279.078	3334.34b	ppb	7.5429	0.2	3886.80
Mn 257.610	589.165b	ppb	2.3351	0.4	51691.4
Mo 202.032	-0.3296b	ppb	0.5634	170.9	1.2775
Na 330.237	128556xb	ppb	933.464	0.7	7607.08
Ni 231.604	7.8486b	ppb	0.6862	8.7	21.4144
Pb 220.353	0.3468b	ppb	2.5801	744.0	2.2977
Sb 206.834	1.5696b	ppb	1.8413	117.3	3.5286
Se 196.026	2.0840b	ppb	6.0322	289.5	2.8446
Sn 189.925	-1.5494b	ppb	1.9128	123.5	-1.0695
Sr 216.596	69.7376b	ppb	0.1784	0.3	381.943
Ti 334.941	0.0292b	ppb	0.0356	122.2	-37.0534
Tl 190.794	4.2288b	ppb	3.0635	72.4	0.2703
V 292.401	0.0352b	ppb	0.1866	529.4	4.8589
Zn 206.200	7.0625b	ppb	0.1883	2.7	24.9869

680-89596-a-2-j ms (Samp)

4/30/2013, 7:26:58 PM

Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	68.4583b	ppb	0.2349	0.3	2005.67
Al 308.215	794.380b	ppb	4.6372	0.6	2569.51
As 188.980	78.8030b	ppb	5.0721	6.4	23.0126
B 249.678	199.603b	ppb	0.5894	0.3	1650.70
Ba 389.178	246.465b	ppb	1.0806	0.4	3859.14
Be 313.042	80.9328b	ppb	0.1994	0.2	115027
Ca 370.602	16059b	ppb	46.93	0.3	53990
Cd 226.502	81.3061b	ppb	0.1985	0.2	1634.91
Co 228.615	95.8058b	ppb	0.5059	0.5	684.625
Cr 267.716	82.5829b	ppb	0.8892	1.1	1205.50
Cu 324.754	81.3760b	ppb	0.2182	0.3	2941.40
Fe 271.441	7718.98b	ppb	22.3442	0.3	5343.20
K 766.491	9551.77b	ppb	24.9026	0.3	1085920
Mg 279.078	10269.5b	ppb	43.6975	0.4	11794.0
Mn 257.610	1306.38b	ppb	2.6592	0.2	114621
Mo 202.032	77.6853b	ppb	0.4829	0.6	264.818
Na 330.237	110102xb	ppb	172.626	0.2	6512.69
Ni 231.604	87.2642b	ppb	1.4404	1.7	235.637
Pb 220.353	75.0308b	ppb	2.5716	3.4	59.5452
Sb 206.834	75.0293b	ppb	3.3447	4.5	48.5403
Se 196.026	70.4475b	ppb	1.4217	2.0	19.7594
Sn 189.925	76.8359b	ppb	1.8006	2.3	41.1734
Sr 216.596	134.878b	ppb	1.0785	0.8	743.150
Ti 334.941	77.0119b	ppb	0.1583	0.2	15581.2

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	14.6134b	ppb	4.2571	29.1	4.4926
V 292.401	78.1563b	ppb	0.1768	0.2	2118.44
Zn 206.200	85.8639b	ppb	1.2868	1.5	237.248

680-89596-a-2-k msd (Samp) 4/30/2013, 7:32:26 PM Rack 1, Tube 33

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	63.9066b	ppb	0.3968	0.6	1870.58
Al 308.215	799.672b	ppb	0.5898	0.1	2585.44
As 188.980	74.8929b	ppb	3.6798	4.9	21.7851
B 249.678	201.703b	ppb	0.4307	0.2	1667.57
Ba 389.178	246.207b	ppb	0.9111	0.4	3855.39
Be 313.042	82.0675b	ppb	0.1323	0.2	116640
Ca 370.602	16168b	ppb	48.16	0.3	54349
Cd 226.502	82.2359b	ppb	0.1585	0.2	1653.46
Co 228.615	96.8310b	ppb	0.4276	0.4	691.982
Cr 267.716	83.8204b	ppb	0.7466	0.9	1223.42
Cu 324.754	82.4317b	ppb	0.1154	0.1	2978.70
Fe 271.441	7805.65b	ppb	14.4370	0.2	5403.16
K 766.491	9637.86b	ppb	8.8243	0.1	1095689
Mg 279.078	10332.7b	ppb	16.7158	0.2	11866.0
Mn 257.610	1317.83b	ppb	2.1790	0.2	115626
Mo 202.032	77.8527b	ppb	0.1255	0.2	265.374
Na 330.237	110183xb	ppb	212.725	0.2	6517.47
Ni 231.604	88.3127b	ppb	0.6711	0.8	238.462
Pb 220.353	71.5906b	ppb	5.1504	7.2	56.8907
Sb 206.834	72.1730b	ppb	2.9799	4.1	46.8285
Se 196.026	77.0295b	ppb	12.7148	16.5	21.3743
Sn 189.925	78.0500b	ppb	2.2488	2.9	41.8277
Sr 216.596	135.855b	ppb	0.4187	0.3	748.564
Ti 334.941	77.9869b	ppb	0.1863	0.2	15779.0
Tl 190.794	10.9274b	ppb	2.5660	23.5	2.9235
V 292.401	79.0500b	ppb	0.2190	0.3	2142.51
Zn 206.200	86.4785b	ppb	0.5485	0.6	238.904

680-89605-b-1-c (Samp) 4/30/2013, 7:37:53 PM Rack 1, Tube 34

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1753b	ppb	0.0660	37.6	-22.5477
Al 308.215	-29.1002b	ppb	1.9852	6.8	96.2507
As 188.980	5.6411b	ppb	1.0729	19.0	-1.5956
B 249.678	32.9668b	ppb	0.3327	1.0	313.570
Ba 389.178	64.0643b	ppb	0.0913	0.1	985.195
Be 313.042	-0.0054b	ppb	0.0063	115.6	-79.5474
Ca 370.602	94351b	ppb	51.84	0.1	324008
Cd 226.502	0.4405b	ppb	0.2949	67.0	20.2950
Co 228.615	1.3283b	ppb	0.6355	47.8	5.7325
Cr 267.716	-0.7043b	ppb	0.2134	30.3	0.9112
Cu 324.754	3.1316b	ppb	0.2872	9.2	-54.4654
Fe 271.441	-35.2869b	ppb	7.6769	21.8	-19.9716
K 766.491	564.530b	ppb	0.6016	0.1	66095.8

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	2588.28b	ppb	3.8427	0.1	3033.24
Mn 257.610	577.102b	ppb	0.1318	0.0	50632.1
Mo 202.032	1.7262b	ppb	0.7769	45.0	8.2524
Na 330.237	130184xb	ppb	830.286	0.6	7703.33
Ni 231.604	6.1417b	ppb	1.2725	20.7	16.8002
Pb 220.353	1.2589b	ppb	2.5402	201.8	3.0044
Sb 206.834	3.2798b	ppb	3.3066	100.8	5.2530
Se 196.026	-10.3833b	ppb	6.2476	60.2	0.0144
Sn 189.925	0.3945b	ppb	4.6503	1178.9	-0.2979
Sr 216.596	181.854b	ppb	0.7066	0.4	1007.75
Ti 334.941	-0.0713b	ppb	0.0571	80.1	29.0649
Tl 190.794	-5.6676b	ppb	1.2434	21.9	-4.6899
V 292.401	1.1874b	ppb	0.1084	9.1	35.8838
Zn 206.200	21.6742b	ppb	1.0319	4.8	64.3075

lb 680-274429/21-f (Samp) 4/30/2013, 7:43:21 PM Rack 1, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3852b	ppb	0.9097	236.2	-41.5527
Al 308.215	-38.5019b	ppb	1.8280	4.7	67.9271
As 188.980	3.5896b	ppb	0.6924	19.3	-0.2279
B 249.678	13.0420b	ppb	0.2939	2.3	151.239
Ba 389.178	-0.8140b	ppb	0.3431	42.2	-33.2908
Be 313.042	-0.0051b	ppb	0.0100	196.8	-103.004
Ca 370.602	41.78b	ppb	5.311	12.7	195.6
Cd 226.502	0.0745b	ppb	0.0637	85.5	13.6163
Co 228.615	-0.7278b	ppb	0.8472	116.4	-9.0444
Cr 267.716	-0.1852b	ppb	0.3571	192.9	7.6752
Cu 324.754	0.1440b	ppb	0.3616	251.1	91.1484
Fe 271.441	223.038b	ppb	2.9736	1.3	158.463
K 766.491	32.5792b	ppb	0.1384	0.4	5745.83
Mg 279.078	-25.4047b	ppb	2.2832	9.0	42.5899
Mn 257.610	0.5907b	ppb	0.0381	6.4	61.6718
Mo 202.032	-0.3452b	ppb	0.1985	57.5	1.1934
Na 330.237	128098xb	ppb	870.925	0.7	7579.92
Ni 231.604	0.2573b	ppb	1.5359	596.8	0.9008
Pb 220.353	-1.9196b	ppb	4.0665	211.8	0.5576
Sb 206.834	3.5716b	ppb	0.9314	26.1	4.6402
Se 196.026	9.2671b	ppb	7.3319	79.1	4.4587
Sn 189.925	-3.1157b	ppb	2.0443	65.6	-1.8807
Sr 216.596	-0.3643b	ppb	0.3588	98.5	-7.3011
Ti 334.941	-0.0219b	ppb	0.0406	185.4	-57.9147
Tl 190.794	0.9957b	ppb	3.5078	352.3	-1.0555
V 292.401	-0.0387b	ppb	0.0754	194.6	3.9868
Zn 206.200	1.9916b	ppb	0.6831	34.3	11.2412

lb2 680-274429/22-d (Samp) 4/30/2013, 7:48:49 PM Rack 1, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0574	ppb	0.3720	647.6	-31.7846
Al 308.215	-35.3301	ppb	1.6329	4.6	77.4724

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.9911	ppb	4.3480	218.4	-1.9844
B 249.678	67.0723	ppb	0.6600	1.0	590.330
Ba 389.178	0.0162	ppb	0.8229	5089.4	-20.4037
Be 313.042	-0.0203	ppb	0.0059	28.9	-114.711
Ca 370.602	402.9	ppb	3.699	0.9	1474
Cd 226.502	-0.0008	ppb	0.1547	18652.4	11.9623
Co 228.615	-1.0648	ppb	0.7214	67.8	-11.4729
Cr 267.716	0.0131	ppb	0.2802	2140.5	10.0604
Cu 324.754	0.1938	ppb	0.3855	199.0	91.8556
Fe 271.441	-12.8493	ppb	2.5862	20.1	-4.5673
K 766.491	69.6077	ppb	0.8425	1.2	9947.62
Mg 279.078	64.8494	ppb	2.0352	3.1	146.687
Mn 257.610	0.0277	ppb	0.0197	71.3	12.4966
Mo 202.032	-0.0567	ppb	1.5330	2703.5	2.2020
Na 330.237	3873.91	ppb	6.0405	0.2	237.680
Ni 231.604	0.2409	ppb	0.7338	304.6	0.8482
Pb 220.353	0.2487	ppb	1.7275	694.5	2.2290
Sb 206.834	2.3708	ppb	5.1978	219.2	3.9168
Se 196.026	-1.4769	ppb	5.7100	386.6	1.8283
Sn 189.925	-3.5892	ppb	0.9116	25.4	-2.1630
Sr 216.596	0.5503	ppb	0.6249	113.5	-2.3138
Ti 334.941	-0.0197	ppb	0.0469	238.0	-50.7648
Tl 190.794	5.1754	ppb	4.5835	88.6	0.7260
V 292.401	-0.0133	ppb	0.2883	2161.7	5.4492
Zn 206.200	2.9278	ppb	0.2192	7.5	13.7598

Cont Calib Verif (CCV)

4/30/2013, 7:54:16 PM

Rack 1, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.289	ppb	0.8830	0.2	14850.1	100.25787
Al 308.215	4911.01	ppb	4.5474	0.1	15178.7	98.22025
As 188.980	526.484	ppb	8.6002	1.6	164.277	105.29677
B 249.678	509.702	ppb	1.0710	0.2	4178.33	20.38809Q
Ba 389.178	5184.33	ppb	6.0333	0.1	81058.2	103.68667
Be 313.042	520.622	ppb	0.1959	0.0	742936	104.12440
Ca 370.602	5197	ppb	10.98	0.2	17348	103.93149
Cd 226.502	522.495	ppb	0.7685	0.1	10348.2	104.49895
Co 228.615	522.374	ppb	0.8354	0.2	3752.56	104.47475
Cr 267.716	5302.58	ppb	5.7954	0.1	76902.3	106.05154
Cu 324.754	5124.32	ppb	5.1312	0.1	182276	102.48643
Fe 271.441	4988.64	ppb	5.6853	0.1	3509.05	99.77287
K 766.491	9920.21	ppb	17.3115	0.2	1126555	99.20211
Mg 279.078	4962.35	ppb	12.4339	0.3	5723.54	99.24699
Mn 257.610	5444.18	ppb	1.4326	0.0	477526	108.88369
Mo 202.032	498.233	ppb	1.3697	0.3	1682.84	99.64668
Na 330.237	7538.07	ppb	137.536	1.8	452.778	100.50765
Ni 231.604	2621.40	ppb	3.2990	0.1	7053.76	104.85602
Pb 220.353	502.467	ppb	2.1735	0.4	383.773	100.49335
Sb 206.834	975.963	ppb	12.7870	1.3	621.005	39.03853Q
Se 196.026	4915.87	ppb	22.0887	0.4	1207.46	98.31734
Sn 189.925	5116.05	ppb	3.1172	0.1	2757.33	102.32091
Sr 216.596	2557.01	ppb	2.3982	0.1	14092.8	102.28033
Ti 334.941	499.360	ppb	0.3752	0.1	101497	99.87206

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	5025.63	ppb	15.3201	0.3	2140.01	100.51256
V 292.401	5006.89	ppb	5.5618	0.1	136423	100.13779
Zn 206.200	2662.33	ppb	4.2297	0.2	7156.44	106.49327

Cont Calib Blank (CCB)

4/30/2013, 7:59:42 PM

Rack 1, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5326	ppb	0.3232	60.7	-14.2654	0.53260
Al 308.215	-44.7450	ppb	2.7639	6.2	49.2832	-44.74502
As 188.980	4.6735	ppb	3.3681	72.1	0.1139	4.67353
B 249.678	0.3257	ppb	0.3740	114.8	48.5184	0.32573
Ba 389.178	-0.2804	ppb	0.4546	162.1	-25.2390	-0.28038
Be 313.042	-0.0035	ppb	0.0064	180.1	-90.6259	-0.00355
Ca 370.602	-49.72	ppb	2.655	5.3	-78.89	-49.71645
Cd 226.502	-0.0013	ppb	0.0371	2773.7	11.9513	-0.00134
Co 228.615	-0.8073	ppb	0.2666	33.0	-9.6343	-0.80727
Cr 267.716	0.0865	ppb	0.5640	652.1	11.1074	0.08650
Cu 324.754	-0.1295	ppb	0.1172	90.5	81.5614	-0.12954
Fe 271.441	-16.9837	ppb	5.0518	29.7	-7.4129	-16.98369
K 766.491	0.1783	ppb	0.1161	65.1	2068.88	0.17830
Mg 279.078	-40.3576	ppb	1.2443	3.1	26.3217	-40.35757
Mn 257.610	0.1523	ppb	0.0325	21.3	23.1689	0.15233
Mo 202.032	0.4580	ppb	0.4373	95.5	3.9480	0.45796
Na 330.237	-66.4765	ppb	147.119	221.3	4.7798	-66.47646
Ni 231.604	1.1075	ppb	0.9156	82.7	3.1723	1.10752
Pb 220.353	-4.7845	ppb	3.4278	71.6	-1.6494	-4.78447
Sb 206.834	3.0164	ppb	2.9120	96.5	4.2986	3.01636
Se 196.026	11.2692	ppb	7.8561	69.7	4.9490	11.26921Z
Sn 189.925	-0.2435	ppb	4.2632	1750.9	-0.3591	-0.24348
Sr 216.596	0.4661	ppb	0.8068	173.1	-2.8424	0.46609
Ti 334.941	-0.0492	ppb	0.0100	20.4	-56.9993	-0.04915
Tl 190.794	-0.4990	ppb	6.7518	1353.1	-1.6820	-0.49898
V 292.401	0.2670	ppb	0.0572	21.4	12.9592	0.26696
Zn 206.200	0.1561	ppb	0.9674	619.8	6.2937	0.15608

680-89654-a-1-h (Samp)

4/30/2013, 8:05:08 PM

Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5338b	ppb	0.3283	61.5	-45.7781
Al 308.215	-16.5723b	ppb	1.8278	11.0	133.700
As 188.980	1.4461b	ppb	7.3479	508.1	-0.9394
B 249.678	52.6423b	ppb	0.5574	1.1	473.203
Ba 389.178	38.9333b	ppb	0.6648	1.7	588.153
Be 313.042	0.0262b	ppb	0.0097	37.0	-57.9035
Ca 370.602	1914b	ppb	6.332	0.3	6662
Cd 226.502	0.0793b	ppb	0.0650	81.9	13.2135
Co 228.615	-0.7845b	ppb	0.0397	5.1	-9.4413
Cr 267.716	-0.1086b	ppb	0.0606	55.8	8.9307
Cu 324.754	0.0202b	ppb	0.1647	814.6	81.6525
Fe 271.441	-14.2033b	ppb	7.6922	54.2	-5.4932
K 766.491	235.349b	ppb	0.5735	0.2	28746.6



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	197.457b	ppb	4.9995	2.5	298.373
Mn 257.610	35.3352b	ppb	0.1285	0.4	3109.30
Mo 202.032	0.4837b	ppb	0.6695	138.4	4.0360
Na 330.237	126375xb	ppb	288.528	0.2	7478.16
Ni 231.604	-0.0805b	ppb	2.2921	2846.6	-0.0142
Pb 220.353	-0.6554b	ppb	4.5452	693.6	1.5303
Sb 206.834	0.8358b	ppb	3.0384	363.5	3.0063
Se 196.026	0.0607b	ppb	11.5954	19087.2	2.2159
Sn 189.925	-2.4208b	ppb	2.1083	87.1	-1.5127
Sr 216.596	5.6694b	ppb	0.5329	9.4	26.1735
Ti 334.941	0.0061b	ppb	0.0472	775.3	-50.2397
Tl 190.794	-0.1886b	ppb	3.9094	2073.1	-1.5670
V 292.401	-0.0086b	ppb	0.1817	2121.1	4.6232
Zn 206.200	1.6510b	ppb	0.5519	33.4	10.3272

680-89654-a-1-i ms (Samp) 4/30/2013, 8:10:33 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	25.9918b	ppb	0.5254	2.0	743.390
Al 308.215	813.695b	ppb	1.0851	0.1	2627.66
As 188.980	84.8577b	ppb	10.2880	12.1	25.0431
B 249.678	201.609b	ppb	1.4788	0.7	1665.77
Ba 389.178	112.641b	ppb	1.1267	1.0	1764.17
Be 313.042	85.5134b	ppb	0.2615	0.3	121540
Ca 370.602	9892b	ppb	20.04	0.2	32735
Cd 226.502	85.8871b	ppb	0.1541	0.2	1726.37
Co 228.615	84.3537b	ppb	0.6504	0.8	602.253
Cr 267.716	86.7172b	ppb	0.7646	0.9	1264.81
Cu 324.754	85.2594b	ppb	0.0469	0.1	3096.01
Fe 271.441	8166.89b	ppb	31.5859	0.4	5652.30
K 766.491	9020.04b	ppb	21.7541	0.2	1025611
Mg 279.078	8202.65b	ppb	5.8892	0.1	9428.17
Mn 257.610	922.218b	ppb	3.1440	0.3	80923.1
Mo 202.032	81.5547b	ppb	0.6675	0.8	277.881
Na 330.237	110047xb	ppb	100.759	0.1	6509.24
Ni 231.604	85.4337b	ppb	1.4555	1.7	230.673
Pb 220.353	79.2210b	ppb	1.6322	2.1	62.7618
Sb 206.834	77.4717b	ppb	5.9926	7.7	49.9919
Se 196.026	73.3851b	ppb	18.7020	25.5	20.3856
Sn 189.925	79.7691b	ppb	1.4985	1.9	42.7757
Sr 216.596	87.3500b	ppb	0.8748	1.0	479.215
Ti 334.941	81.4213b	ppb	0.1764	0.2	16468.9
Tl 190.794	19.9583b	ppb	6.9987	35.1	6.7864
V 292.401	82.0480b	ppb	0.2283	0.3	2224.46
Zn 206.200	88.5572b	ppb	1.2476	1.4	244.434

680-89654-a-1-j msd (Samp) 4/30/2013, 8:16:00 PM Rack 1, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	41.1469b	ppb	0.4313	1.0	1193.19
Al 308.215	779.715b	ppb	1.7618	0.2	2525.59

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	75.3974b	ppb	14.9406	19.8	22.0844
B 249.678	194.804b	ppb	1.1937	0.6	1611.19
Ba 389.178	108.973b	ppb	0.4119	0.4	1705.86
Be 313.042	81.7504b	ppb	0.0978	0.1	116188
Ca 370.602	9584b	ppb	22.95	0.2	31731
Cd 226.502	82.8351b	ppb	0.2582	0.3	1665.36
Co 228.615	80.8864b	ppb	0.2943	0.4	577.342
Cr 267.716	83.0467b	ppb	0.3535	0.4	1211.70
Cu 324.754	81.8083b	ppb	0.1105	0.1	2973.92
Fe 271.441	7841.45b	ppb	7.9639	0.1	5427.23
K 766.491	8659.63b	ppb	17.8941	0.2	984713
Mg 279.078	7849.39b	ppb	31.2677	0.4	9025.15
Mn 257.610	886.639b	ppb	0.3713	0.0	77801.4
Mo 202.032	78.2246b	ppb	0.2106	0.3	266.631
Na 330.237	110098xb	ppb	256.552	0.2	6512.39
Ni 231.604	81.8072b	ppb	0.1879	0.2	220.892
Pb 220.353	75.9283b	ppb	2.2762	3.0	60.2376
Sb 206.834	76.3445b	ppb	2.4605	3.2	49.2720
Se 196.026	80.0864b	ppb	7.0703	8.8	22.0189
Sn 189.925	78.2033b	ppb	3.0493	3.9	41.9319
Sr 216.596	84.6773b	ppb	1.2759	1.5	464.406
Ti 334.941	78.2097b	ppb	0.1084	0.1	15817.3
Tl 190.794	19.4928b	ppb	7.9494	40.8	6.5970
V 292.401	78.7715b	ppb	0.2273	0.3	2135.84
Zn 206.200	84.7194b	ppb	1.3508	1.6	234.095

680-89666-a-2-c (Samp)

4/30/2013, 8:21:26 PM

Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2488b	ppb	0.1006	40.4	-22.7071
Al 308.215	291.730b	ppb	1.5733	0.5	1057.86
As 188.980	-1.0078b	ppb	4.0356	400.4	-1.9336
B 249.678	49.2436b	ppb	0.4775	1.0	445.556
Ba 389.178	2.7865b	ppb	0.3819	13.7	23.3547
Be 313.042	0.0041b	ppb	0.0075	183.3	-86.3908
Ca 370.602	12487b	ppb	20.15	0.2	42956
Cd 226.502	0.1184b	ppb	0.1206	101.8	14.0580
Co 228.615	-0.4516b	ppb	0.4026	89.1	-7.0069
Cr 267.716	0.1370b	ppb	0.3873	282.7	12.4219
Cu 324.754	1.6622b	ppb	0.1015	6.1	111.790
Fe 271.441	14.3069b	ppb	9.8446	68.8	14.2290
K 766.491	2000.73b	ppb	1.2253	0.1	229089
Mg 279.078	305.044b	ppb	4.0503	1.3	421.437
Mn 257.610	3.9871b	ppb	0.0349	0.9	360.223
Mo 202.032	1.7913b	ppb	0.7862	43.9	8.4712
Na 330.237	127979xb	ppb	613.513	0.5	7583.41
Ni 231.604	0.5225b	ppb	0.3469	66.4	1.6206
Pb 220.353	0.4916b	ppb	4.5467	924.9	2.3812
Sb 206.834	5.5790b	ppb	3.4408	61.7	5.9342
Se 196.026	0.4228b	ppb	10.5676	2499.7	2.3297
Sn 189.925	-2.0971b	ppb	3.8506	183.6	-1.3712
Sr 216.596	4.7540b	ppb	0.6420	13.5	21.4874
Ti 334.941	5.9627b	ppb	0.0598	1.0	1168.11

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	0.6516b	ppb	4.2358	650.0	-1.3015
V 292.401	0.5227b	ppb	0.1218	23.3	18.9860
Zn 206.200	7097.51b	ppb	8.0521	0.1	19114.7

680-89411-b-1-k (Samp) 4/30/2013, 8:26:53 PM Rack 1, Tube 43

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0636b	ppb	0.4074	640.1	-31.3421
Al 308.215	50.5330b	ppb	1.1312	2.2	334.818
As 188.980	-0.8310b	ppb	6.6068	795.1	-1.8461
B 249.678	4.4734b	ppb	0.1851	4.1	81.3382
Ba 389.178	88.5644b	ppb	0.8835	1.0	1365.05
Be 313.042	0.0334b	ppb	0.0088	26.4	-45.2969
Ca 370.602	10955b	ppb	9.413	0.1	37634
Cd 226.502	0.0457b	ppb	0.0714	156.2	13.4305
Co 228.615	0.9706b	ppb	0.7243	74.6	3.1990
Cr 267.716	1.4117b	ppb	0.3566	25.3	30.9239
Cu 324.754	0.8872b	ppb	0.4461	50.3	88.5630
Fe 271.441	397.203b	ppb	2.1682	0.5	278.880
K 766.491	3437.99b	ppb	2.1780	0.1	392169
Mg 279.078	562.120b	ppb	7.0439	1.3	713.971
Mn 257.610	172.012b	ppb	0.1679	0.1	15098.1
Mo 202.032	-0.0971b	ppb	0.3789	390.0	2.0140
Na 330.237	123978xb	ppb	1478.81	1.2	7336.33
Ni 231.604	3.3723b	ppb	0.4123	12.2	9.3052
Pb 220.353	1.0002b	ppb	1.6765	167.6	2.7953
Sb 206.834	0.9799b	ppb	1.5224	155.4	3.1926
Se 196.026	4.7657b	ppb	10.3349	216.9	3.4179
Sn 189.925	-2.0425b	ppb	2.8365	138.9	-1.3389
Sr 216.596	30.6356b	ppb	0.5842	1.9	165.197
Ti 334.941	0.0553b	ppb	0.0333	60.2	-30.7161
Tl 190.794	-1.7034b	ppb	1.0594	62.2	-2.3028
V 292.401	0.2353b	ppb	0.1389	59.1	10.9309
Zn 206.200	19.8445b	ppb	0.4847	2.4	59.3241

mb 680-274798/1-a (Samp) 4/30/2013, 8:32:20 PM Rack 1, Tube 44

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1830	ppb	0.2584	141.2	-35.5086
Al 308.215	-43.6344	ppb	1.8869	4.3	52.5851
As 188.980	-2.0066	ppb	6.5224	325.1	-1.9795
B 249.678	2.0246	ppb	0.3256	16.1	62.2939
Ba 389.178	-0.2651	ppb	0.6948	262.1	-24.9988
Be 313.042	-0.0169	ppb	0.0094	55.8	-109.648
Ca 370.602	-53.84	ppb	2.786	5.2	-93.87
Cd 226.502	0.0441	ppb	0.0774	175.5	12.8601
Co 228.615	-1.3870	ppb	0.2468	17.8	-13.7894
Cr 267.716	-0.0289	ppb	0.2148	743.7	9.4312
Cu 324.754	-0.0553	ppb	0.4654	841.9	84.2055
Fe 271.441	-12.9779	ppb	8.1356	62.7	-4.6701
K 766.491	2.0506	ppb	0.0237	1.2	2281.32

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-40.2602	ppb	1.8003	4.5	26.4163
Mn 257.610	-0.0469	ppb	0.0384	81.9	5.7045
Mo 202.032	-0.3264	ppb	0.4048	124.0	1.2867
Na 330.237	-170.156	ppb	45.8345	26.9	-1.3479
Ni 231.604	-0.0632	ppb	0.4777	756.0	0.0243
Pb 220.353	2.8567	ppb	2.1507	75.3	4.2397
Sb 206.834	0.7117	ppb	3.4832	489.4	2.9112
Se 196.026	-4.8272	ppb	11.1256	230.5	1.0057
Sn 189.925	-1.8336	ppb	3.5429	193.2	-1.2161
Sr 216.596	-0.6684	ppb	0.2033	30.4	-9.0878
Ti 334.941	-0.0906	ppb	0.0609	67.3	-65.4197
Tl 190.794	-1.9169	ppb	2.0138	105.1	-2.2851
V 292.401	0.1076	ppb	0.4355	404.7	8.8051
Zn 206.200	1.5995	ppb	0.3317	20.7	10.1814

lcs 680-274798/2-a (Samp) 4/30/2013, 8:37:47 PM Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.852	ppb	1.2938	1.2	3113.80
Al 308.215	10319.7	ppb	7.6722	0.1	31130.7
As 188.980	207.645	ppb	0.9364	0.5	63.5356
B 249.678	403.842	ppb	1.2383	0.3	3302.31
Ba 389.178	215.561	ppb	0.4616	0.2	3380.09
Be 313.042	109.426	ppb	0.3023	0.3	155609
Ca 370.602	10453	ppb	16.67	0.2	34334
Cd 226.502	109.243	ppb	0.7891	0.7	2193.16
Co 228.615	107.418	ppb	0.8183	0.8	767.738
Cr 267.716	219.510	ppb	1.1067	0.5	3189.19
Cu 324.754	214.416	ppb	1.8286	0.9	7688.49
Fe 271.441	10253.6	ppb	25.4364	0.2	7096.31
K 766.491	10251.4	ppb	19.0033	0.2	1165326
Mg 279.078	10249.7	ppb	10.5120	0.1	11762.9
Mn 257.610	1116.16	ppb	4.0857	0.4	97941.5
Mo 202.032	205.012	ppb	0.7389	0.4	696.322
Na 330.237	10494.8	ppb	196.747	1.9	623.647
Ni 231.604	215.941	ppb	0.3399	0.2	581.895
Pb 220.353	103.454	ppb	3.1649	3.1	80.1874
Sb 206.834	97.8079	ppb	4.2640	4.4	62.3820
Se 196.026	213.219	ppb	7.2778	3.4	54.7143
Sn 189.925	411.645	ppb	5.4605	1.3	221.656
Sr 216.596	209.789	ppb	1.6793	0.8	1153.51
Ti 334.941	205.573	ppb	0.6035	0.3	41650.8
Tl 190.794	80.5327	ppb	3.5521	4.4	32.4701
V 292.401	208.738	ppb	0.3012	0.1	5652.51
Zn 206.200	218.086	ppb	1.3797	0.6	592.835

lb 680-274429/21-e (Samp) 4/30/2013, 8:43:15 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1145b	ppb	0.3256	284.4	-26.6801
Al 308.215	-40.7685b	ppb	0.9843	2.4	61.1726

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.5901b	ppb	3.7745	145.7	-2.1643
B 249.678	12.5532b	ppb	0.7177	5.7	147.772
Ba 389.178	-0.2999b	ppb	1.0368	345.7	-25.5017
Be 313.042	0.0006b	ppb	0.0052	877.6	-94.8332
Ca 370.602	41.88b	ppb	1.043	2.5	234.8
Cd 226.502	-0.0182b	ppb	0.2595	1424.7	11.2928
Co 228.615	-0.5980b	ppb	0.5708	95.5	-8.1265
Cr 267.716	0.1426b	ppb	0.3504	245.7	12.5306
Cu 324.754	0.1714b	ppb	0.1642	95.8	92.0246
Fe 271.441	-12.4112b	ppb	3.9255	31.6	-4.2493
K 766.491	34.0926b	ppb	0.2169	0.6	5917.46
Mg 279.078	-22.1324b	ppb	3.0423	13.7	47.1604
Mn 257.610	0.0408b	ppb	0.0464	113.7	13.2118
Mo 202.032	0.1253b	ppb	0.4265	340.4	2.8197
Na 330.237	124858xb	ppb	487.743	0.4	7388.52
Ni 231.604	0.0368b	ppb	0.5445	1481.3	0.2959
Pb 220.353	0.0832b	ppb	2.7341	3286.9	2.1010
Sb 206.834	1.2968b	ppb	1.7949	138.4	3.2727
Se 196.026	-1.6075b	ppb	3.1382	195.2	1.7948
Sn 189.925	-2.1778b	ppb	3.1958	146.7	-1.3759
Sr 216.596	0.5100b	ppb	0.1405	27.6	-2.5531
Ti 334.941	-0.0485b	ppb	0.0491	101.1	-63.1454
Tl 190.794	3.7733b	ppb	5.0354	133.4	0.1331
V 292.401	-0.1866b	ppb	0.1945	104.2	-0.2807
Zn 206.200	1.8106b	ppb	1.1022	60.9	10.7484

lb2 680-274429/22-c (Samp)

4/30/2013, 8:48:43 PM

Rack 1, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3562	ppb	0.5024	141.1	-40.6513
Al 308.215	-39.1686	ppb	3.1564	8.1	65.9879
As 188.980	2.1825	ppb	1.2927	59.2	-0.6762
B 249.678	64.9917	ppb	0.7287	1.1	573.434
Ba 389.178	-0.0742	ppb	0.7363	992.5	-21.8202
Be 313.042	-0.0175	ppb	0.0103	59.0	-110.701
Ca 370.602	394.9	ppb	3.840	1.0	1446
Cd 226.502	-0.0848	ppb	0.3103	365.9	10.3043
Co 228.615	-0.9872	ppb	0.1508	15.3	-10.9245
Cr 267.716	0.2689	ppb	0.3931	146.2	13.7700
Cu 324.754	0.1890	ppb	0.0697	36.9	91.7100
Fe 271.441	-11.6542	ppb	7.4739	64.1	-3.7388
K 766.491	70.7268	ppb	0.4231	0.6	10074.6
Mg 279.078	62.2019	ppb	2.7586	4.4	143.655
Mn 257.610	-0.0101	ppb	0.0555	551.7	9.1767
Mo 202.032	-0.3918	ppb	0.4278	109.2	1.0648
Na 330.237	3883.80	ppb	87.9884	2.3	238.264
Ni 231.604	0.5214	ppb	0.8109	155.5	1.6017
Pb 220.353	-3.0905	ppb	0.9977	32.3	-0.3441
Sb 206.834	-0.5710	ppb	2.8441	498.1	2.1441
Se 196.026	8.0193	ppb	7.4454	92.8	4.1547
Sn 189.925	0.1898	ppb	2.8000	1475.2	-0.1262
Sr 216.596	0.3533	ppb	0.1395	39.5	-3.4247
Ti 334.941	-0.0534	ppb	0.0411	77.0	57.6126

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	0.6881	ppb	1.6306	237.0	-1.1817
V 292.401	0.1482	ppb	0.1197	80.7	9.7523
Zn 206.200	2.8933	ppb	0.2055	7.1	13.6675

**680-89654-a-1-e (Samp)**      **4/30/2013, 8:54:11 PM**      **Rack 1, Tube 48**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0004b	ppb	0.3289	89656.7	-29.9220
Al 308.215	-15.7131b	ppb	0.3528	2.2	136.274
As 188.980	2.6146b	ppb	4.9070	187.7	-0.5735
B 249.678	51.7299b	ppb	0.1268	0.2	465.792
Ba 389.178	41.0735b	ppb	0.2743	0.7	621.612
Be 313.042	0.0230b	ppb	0.0050	21.6	-62.5206
Ca 370.602	1933b	ppb	5.398	0.3	6727
Cd 226.502	-0.0057b	ppb	0.2151	3804.5	11.5340
Co 228.615	-1.0454b	ppb	0.2215	21.2	-11.3130
Cr 267.716	-0.2467b	ppb	0.2517	102.0	6.9314
Cu 324.754	0.1071b	ppb	0.3156	294.7	84.6914
Fe 271.441	-13.3184b	ppb	7.1918	54.0	-4.8932
K 766.491	238.228b	ppb	0.5027	0.2	29072.8
Mg 279.078	200.733b	ppb	2.9237	1.5	302.120
Mn 257.610	35.6767b	ppb	0.1062	0.3	3139.25
Mo 202.032	-0.1687b	ppb	0.3941	233.6	1.8226
Na 330.237	126926xb	ppb	406.373	0.3	7510.72
Ni 231.604	-0.0492b	ppb	1.1052	2245.7	0.0721
Pb 220.353	0.2527b	ppb	0.7024	277.9	2.2302
Sb 206.834	0.6097b	ppb	2.6544	435.4	2.8773
Se 196.026	-1.9226b	ppb	6.2655	325.9	1.7301
Sn 189.925	-2.6130b	ppb	3.7355	143.0	-1.6163
Sr 216.596	5.5169b	ppb	0.8584	15.6	25.3299
Ti 334.941	-0.0296b	ppb	0.0611	206.9	-57.4680
Tl 190.794	3.0740b	ppb	4.7487	154.5	-0.1806
V 292.401	0.0092b	ppb	0.2521	2746.7	5.1133
Zn 206.200	2.4499b	ppb	0.6582	26.9	12.4772

**Cont Calib Verif (CCV)**      **4/30/2013, 8:59:38 PM**      **Rack 1, Tube 49**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.266	ppb	3.6346	0.7	14849.6	100.25330
Al 308.215	4901.03	ppb	7.9566	0.2	15149.0	98.02060
As 188.980	529.970	ppb	5.0107	0.9	165.372	105.99400
B 249.678	511.478	ppb	0.7279	0.1	4192.72	20.45912Q
Ba 389.178	5192.50	ppb	13.1335	0.3	81186.0	103.85010
Be 313.042	521.829	ppb	1.6917	0.3	744654	104.36582
Ca 370.602	5215	ppb	6.946	0.1	17408	104.29315
Cd 226.502	524.986	ppb	1.5473	0.3	10397.5	104.99717
Co 228.615	524.397	ppb	0.8044	0.2	3767.11	104.87948
Cr 267.716	5324.69	ppb	6.4505	0.1	77223.0	106.49372
Cu 324.754	5103.09	ppb	20.1069	0.4	181521	102.06190
Fe 271.441	5008.09	ppb	7.2796	0.1	3522.56	100.16182
K 766.491	9953.58	ppb	10.1763	0.1	1130339	99.53575

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	4969.07	ppb	23.0378	0.5	5731.06	99.38139
Mn 257.610	5512.61	ppb	8.1017	0.1	483527	110.25212
Mo 202.032	497.970	ppb	1.9565	0.4	1681.94	99.59404
Na 330.237	7565.66	ppb	197.486	2.6	454.419	100.87542
Ni 231.604	2624.16	ppb	3.8179	0.1	7061.20	104.96659
Pb 220.353	510.355	ppb	3.2893	0.6	389.837	102.07104
Sb 206.834	980.300	ppb	6.6307	0.7	623.720	39.21201Q
Se 196.026	4911.05	ppb	12.8320	0.3	1206.29	98.22098
Sn 189.925	5146.16	ppb	14.0684	0.3	2773.57	102.92326
Sr 216.596	2562.16	ppb	7.3577	0.3	14121.3	102.48633
Ti 334.941	500.588	ppb	0.7663	0.2	101747	100.11758
Tl 190.794	5046.50	ppb	16.1197	0.3	2148.89	100.93002
V 292.401	5009.46	ppb	10.2088	0.2	136492	100.18929
Zn 206.200	2679.19	ppb	2.0417	0.1	7201.76	107.16740

Cont Calib Blank (CCB)

4/30/2013, 9:05:04 PM

Rack 1, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1700	ppb	0.8787	516.8	-35.1231	-0.17003
Al 308.215	-42.3101	ppb	3.3515	7.9	56.6201	-42.31009
As 188.980	2.8937	ppb	1.9142	66.2	-0.4437	2.89372
B 249.678	0.7718	ppb	0.2659	34.5	52.1281	0.77178
Ba 389.178	0.3872	ppb	0.1434	37.0	-14.7908	0.38723
Be 313.042	0.0708	ppb	0.0419	59.2	15.5197	0.07081
Ca 370.602	-49.65	ppb	4.710	9.5	-79.80	-49.64931
Cd 226.502	-0.0737	ppb	0.2214	300.5	10.5368	-0.07369
Co 228.615	-0.6841	ppb	0.7025	102.7	-8.7482	-0.68415
Cr 267.716	0.9419	ppb	0.7353	78.1	23.5094	0.94192
Cu 324.754	0.7256	ppb	0.5733	79.0	111.966	0.72556
Fe 271.441	-11.6582	ppb	2.9160	25.0	-3.7177	-11.65824
K 766.491	2.0955	ppb	1.0145	48.4	2286.29	2.09550
Mg 279.078	-45.2880	ppb	3.5656	7.9	20.6538	-45.28805
Mn 257.610	0.9136	ppb	0.3946	43.2	89.9490	0.91361
Mo 202.032	0.5864	ppb	0.8280	141.2	4.3813	0.58635
Na 330.237	-132.119	ppb	68.3720	51.8	0.8971	-132.11932
Ni 231.604	0.8534	ppb	0.6129	71.8	2.4897	0.85342
Pb 220.353	-0.3327	ppb	1.4671	441.0	1.7801	-0.33268
Sb 206.834	2.1482	ppb	0.6242	29.1	3.7812	2.14820
Se 196.026	-0.1165	ppb	11.3261	9720.5	2.1599	-0.11652
Sn 189.925	-2.1739	ppb	2.8716	132.1	-1.3995	-2.17393
Sr 216.596	-0.0299	ppb	0.5821	1947.2	-5.5868	-0.02989
Ti 334.941	0.0136	ppb	0.0759	559.2	-44.2502	0.01356
Tl 190.794	-0.8817	ppb	2.5358	287.6	-1.8439	-0.88171
V 292.401	0.9993	ppb	0.4426	44.3	32.9398	0.99934
Zn 206.200	0.5345	ppb	0.7338	137.3	7.3109	0.53454

680-89654-a-1-eSD^5 (Samp)

4/30/2013, 9:10:29 PM

Rack 1, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1060	ppb	0.3420	322.8	-33.1941
Al 308.215	-38.5495	ppb	0.3089	0.8	67.8318

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.0902	ppb	5.6705	520.2	-1.0175
B 249.678	10.6010	ppb	0.1857	1.8	131.926
Ba 389.178	8.3866	ppb	0.2279	2.7	110.326
Be 313.042	0.0097	ppb	0.0120	123.0	-73.5722
Ca 370.602	352.2	ppb	1.234	0.4	1301
Cd 226.502	0.1797	ppb	0.1261	70.2	15.4652
Co 228.615	-0.9631	ppb	0.3775	39.2	-10.7390
Cr 267.716	0.7119	ppb	0.2498	35.1	20.3051
Cu 324.754	-0.1211	ppb	0.1489	122.9	80.7787
Fe 271.441	-17.2652	ppb	1.0636	6.2	-7.6284
K 766.491	43.7981	ppb	0.3887	0.9	7016.78
Mg 279.078	4.0747	ppb	4.5248	111.0	77.1506
Mn 257.610	7.2848	ppb	0.0778	1.1	648.815
Mo 202.032	-0.5712	ppb	0.2993	52.4	0.4570
Na 330.237	24197.2	ppb	155.921	0.6	1438.90
Ni 231.604	-0.2202	ppb	0.3018	137.1	-0.3937
Pb 220.353	-2.8565	ppb	0.6782	23.7	-0.1635
Sb 206.834	1.4854	ppb	3.9072	263.0	3.3794
Se 196.026	3.2254	ppb	6.8664	212.9	2.9811
Sn 189.925	3.2140	ppb	3.9905	124.2	1.5082
Sr 216.596	0.6652	ppb	0.6075	91.3	-1.6654
Ti 334.941	0.0102	ppb	0.0727	710.0	-45.7741
Tl 190.794	4.0787	ppb	8.4123	206.2	0.2602
V 292.401	0.1201	ppb	0.0639	53.2	8.9146
Zn 206.200	0.1635	ppb	0.7891	482.5	6.3148

680-89654-a-1-ePDS (Samp)

4/30/2013, 9:15:55 PM

Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.7048b	ppb	4.6993	9.6	1415.21
Al 308.215	1913.42b	ppb	178.357	9.3	5955.49
As 188.980	1946.55b	ppb	184.503	9.5	608.577
B 249.678	1013.53b	ppb	90.3152	8.9	8276.38
Ba 389.178	2064.51b	ppb	194.460	9.4	32264.5
Be 313.042	51.2106b	ppb	4.8308	9.4	72946.2
Ca 370.602	6931b	ppb	624.8	9.0	23837
Cd 226.502	51.4092b	ppb	4.5631	8.9	1029.83
Co 228.615	494.497b	ppb	80.2480	16.2	3555.30
Cr 267.716	206.463b	ppb	19.4548	9.4	3003.42
Cu 324.754	251.670b	ppb	19.6389	7.8	9012.58
Fe 271.441	953.509b	ppb	96.5000	10.1	688.310
K 766.491	5780.15b	ppb	547.935	9.5	657486
Mg 279.078	5103.77b	ppb	473.171	9.3	5907.99
Mn 257.610	560.137b	ppb	52.4086	9.4	49160.0
Mo 202.032	497.913b	ppb	48.0887	9.7	1690.51
Na 330.237	125875xb	ppb	10409.9	8.3	7442.70
Ni 231.604	513.486b	ppb	34.9056	6.8	1382.23
Pb 220.353	484.908b	ppb	43.3631	8.9	374.569
Sb 206.834	471.572b	ppb	46.3359	9.8	283.166
Se 196.026	1955.64b	ppb	188.414	9.6	481.433
Sn 189.925	1004.68b	ppb	97.7546	9.7	541.493
Sr 216.596	516.374b	ppb	47.5791	9.2	2836.55
Ti 334.941	973.618b	ppb	91.2002	9.4	197339

Page 134 of 436

05/07/2013



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1997.44b	ppb	196.994	9.9	848.777
V 292.401	483.824b	ppb	45.2550	9.4	13109.5
Zn 206.200	518.554b	ppb	49.5790	9.6	1401.49

680-89654-a-1-f ms (Samp) 4/30/2013, 9:21:22 PM Rack 1, Tube 53

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.1121b	ppb	0.1913	0.8	657.821
Al 308.215	766.955b	ppb	3.8618	0.5	2487.36
As 188.980	84.6298b	ppb	1.4507	1.7	24.9804
B 249.678	192.946b	ppb	0.2632	0.1	1596.21
Ba 389.178	106.948b	ppb	1.0183	1.0	1674.03
Be 313.042	81.7847b	ppb	0.1289	0.2	116237
Ca 370.602	9468b	ppb	21.40	0.2	31342
Cd 226.502	82.3389b	ppb	0.4067	0.5	1655.47
Co 228.615	80.7984b	ppb	0.1993	0.2	576.689
Cr 267.716	82.6903b	ppb	0.2138	0.3	1206.53
Cu 324.754	81.7221b	ppb	0.4428	0.5	2971.14
Fe 271.441	7790.01b	ppb	16.5096	0.2	5391.67
K 766.491	8500.90b	ppb	17.5400	0.2	966701
Mg 279.078	7763.48b	ppb	34.0353	0.4	8927.03
Mn 257.610	881.323b	ppb	1.5948	0.2	77334.9
Mo 202.032	78.6977b	ppb	0.5606	0.7	268.243
Na 330.237	104232xb	ppb	202.840	0.2	6165.72
Ni 231.604	81.2875b	ppb	0.1330	0.2	219.486
Pb 220.353	78.8915b	ppb	1.8844	2.4	62.5210
Sb 206.834	72.5693b	ppb	2.5976	3.6	46.9973
Se 196.026	78.1565b	ppb	2.5720	3.3	21.5444
Sn 189.925	80.3906b	ppb	4.3507	5.4	43.1100
Sr 216.596	83.6072b	ppb	0.6104	0.7	458.443
Ti 334.941	77.8134b	ppb	0.1087	0.1	15737.1
Tl 190.794	16.9432b	ppb	3.5347	20.9	5.5144
V 292.401	78.5445b	ppb	0.6750	0.9	2129.48
Zn 206.200	83.2815b	ppb	0.8745	1.1	230.222

680-89654-a-1-g msd (Samp) 4/30/2013, 9:26:48 PM Rack 1, Tube 54

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	38.8109b	ppb	0.2269	0.6	1123.82
Al 308.215	763.504b	ppb	0.5689	0.1	2476.95
As 188.980	79.4492b	ppb	3.3975	4.3	23.3566
B 249.678	192.916b	ppb	1.2448	0.6	1596.09
Ba 389.178	107.435b	ppb	0.8444	0.8	1681.43
Be 313.042	81.0339b	ppb	0.0547	0.1	115169
Ca 370.602	9457b	ppb	37.83	0.4	31315
Cd 226.502	81.3953b	ppb	0.0361	0.0	1636.66
Co 228.615	79.3883b	ppb	0.8887	1.1	566.563
Cr 267.716	82.0780b	ppb	0.7514	0.9	1197.70
Cu 324.754	80.6603b	ppb	0.1289	0.2	2933.39
Fe 271.441	7719.46b	ppb	6.1217	0.1	5342.85
K 766.491	8458.91b	ppb	5.4043	0.1	961935

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	7681.28b	ppb	25.1519	0.3	8833.23
Mn 257.610	874.087b	ppb	0.9085	0.1	76700.1
Mo 202.032	76.7647b	ppb	2.2333	2.9	261.696
Na 330.237	108163xb	ppb	85.3329	0.1	6398.06
Ni 231.604	82.5130b	ppb	0.7658	0.9	222.777
Pb 220.353	78.3572b	ppb	2.2232	2.8	62.1124
Sb 206.834	71.3585b	ppb	3.8891	5.5	46.2649
Se 196.026	74.5606b	ppb	14.1943	19.0	20.6619
Sn 189.925	78.9243b	ppb	2.3276	2.9	42.3203
Sr 216.596	82.6857b	ppb	1.4342	1.7	453.273
Ti 334.941	77.0859b	ppb	0.0485	0.1	15589.3
Tl 190.794	13.8750b	ppb	3.2523	23.4	4.2106
V 292.401	77.5597b	ppb	0.3748	0.5	2102.84
Zn 206.200	83.7412b	ppb	1.1300	1.3	231.459

640-43280-a-12-b (Samp)

4/30/2013, 9:32:15 PM

Rack 1, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5187	ppb	0.6075	117.1	-49.9403
Al 308.215	-17.5046	ppb	0.3456	2.0	127.469
As 188.980	-4.8023	ppb	4.9993	104.1	-2.8901
B 249.678	77.5048	ppb	0.7930	1.0	610.647
Ba 389.178	1.9991	ppb	0.1974	9.9	43.1645
Be 313.042	-0.0128	ppb	0.0120	93.7	-105.138
Ca 370.602	433.1	ppb	3.937	0.9	-3339
Cd 226.502	27.0283	ppb	0.1960	0.7	609.391
Co 228.615	2.0510	ppb	0.2670	13.0	11.3192
Cr 267.716	18.1416	ppb	0.0505	0.3	258.757
Cu 324.754	34.2874	ppb	0.3784	1.1	1318.26
Fe 271.441	29881.9	ppb	106.531	0.4	20654.4
K 766.491	130.395	ppb	0.3471	0.3	16844.6
Mg 279.078	90.9585	ppb	3.5127	3.9	71.7568
Mn 257.610	209.717	ppb	0.4529	0.2	18434.6
Mo 202.032	-0.2736	ppb	0.3247	118.7	-2.3233
Na 330.237	13390.7	ppb	66.6879	0.5	787.544
Ni 231.604	75.9679	ppb	0.3568	0.5	206.187
Pb 220.353	0.6567	ppb	4.3608	664.0	2.3704
Sb 206.834	4.5217	ppb	4.2761	94.6	6.0431
Se 196.026	-0.6666	ppb	6.2541	938.2	2.0221
Sn 189.925	12.2160	ppb	2.7043	22.1	6.3623
Sr 216.596	1.2486	ppb	1.2052	96.5	11.8041
Ti 334.941	-0.0385	ppb	0.0161	41.8	-53.1864
Tl 190.794	-1.1394	ppb	3.3231	291.7	-3.0906
V 292.401	-0.1896	ppb	0.0882	46.5	5.0018
Zn 206.200	30.2829	ppb	0.3567	1.2	87.9839

640-43280-a-13-b (Samp)

4/30/2013, 9:37:42 PM

Rack 1, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1017b	ppb	0.5121	503.6	-33.0994
Al 308.215	-35.9020b	ppb	1.5364	4.3	75.7798

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-4.6366b	ppb	9.8323	212.1	-2.8161
B 249.678	66.4949b	ppb	0.3161	0.5	585.591
Ba 389.178	0.3087b	ppb	0.7959	257.8	-15.7747
Be 313.042	0.0038b	ppb	0.0069	180.2	-90.7981
Ca 370.602	490.5b	ppb	4.823	1.0	1772
Cd 226.502	3.5346b	ppb	0.0077	0.2	81.5196
Co 228.615	-1.0409b	ppb	0.3559	34.2	-11.3239
Cr 267.716	0.7232b	ppb	0.4390	60.7	20.9801
Cu 324.754	0.3739b	ppb	0.2595	69.4	98.0909
Fe 271.441	6.7470b	ppb	5.3758	79.7	8.9704
K 766.491	715.713b	ppb	3.6657	0.5	83267.3
Mg 279.078	80.5502b	ppb	2.0835	2.6	164.583
Mn 257.610	0.5608b	ppb	0.0409	7.3	59.0729
Mo 202.032	0.8876b	ppb	0.6233	70.2	5.4030
Na 330.237	134253xb	ppb	516.076	0.4	7943.78
Ni 231.604	6.9296b	ppb	0.1825	2.6	18.8394
Pb 220.353	3.6523b	ppb	2.1594	59.1	4.8496
Sb 206.834	27.5808b	ppb	5.9125	21.4	19.0284
Se 196.026	3.3004b	ppb	7.2450	219.5	2.9991
Sn 189.925	15.5819b	ppb	2.0009	12.8	8.1967
Sr 216.596	1.5376b	ppb	0.7008	45.6	2.9382
Ti 334.941	-0.0021b	ppb	0.0515	2452.4	-53.7237
Tl 190.794	3.3073b	ppb	6.5379	197.7	-0.0707
V 292.401	0.0256b	ppb	0.2193	857.9	5.3269
Zn 206.200	6.2679b	ppb	0.7468	11.9	22.7514

640-43280-a-14-b (Samp)

4/30/2013, 9:43:09 PM

Rack 1, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0684b	ppb	1.1198	1636.5	-44.0170
Al 308.215	-34.3863b	ppb	3.7761	11.0	71.3059
As 188.980	-5.6701b	ppb	9.0412	159.5	-3.1907
B 249.678	73.8135b	ppb	0.9430	1.3	476.772
Ba 389.178	2.4845b	ppb	0.6034	24.3	103.097
Be 313.042	0.0046b	ppb	0.0167	361.7	-90.5529
Ca 370.602	97.80b	ppb	11.67	11.9	-12424
Cd 226.502	41.0987b	ppb	0.2308	0.6	989.257
Co 228.615	3.2932b	ppb	0.8433	25.6	20.9118
Cr 267.716	-0.5607b	ppb	0.5041	89.9	-35.1343
Cu 324.754	4.0354b	ppb	0.1812	4.5	264.814
Fe 271.441	78106.3b	ppb	202.336	0.3	53980.2
K 766.491	158.719b	ppb	0.4271	0.3	20057.8
Mg 279.078	60.7182b	ppb	1.0754	1.8	-131.716
Mn 257.610	426.405b	ppb	0.9072	0.2	37489.0
Mo 202.032	0.0622b	ppb	0.9701	1559.8	-7.2994
Na 330.237	138676xb	ppb	762.829	0.6	8172.14
Ni 231.604	121.407b	ppb	1.4755	1.2	331.078
Pb 220.353	-4.5242b	ppb	6.3935	141.3	-1.8579
Sb 206.834	-1.6562b	ppb	2.6921	162.5	3.3287
Se 196.026	11.2293b	ppb	4.9997	44.5	4.9067
Sn 189.925	-1.4044b	ppb	2.6229	186.8	-0.9441
Sr 216.596	1.2822b	ppb	0.3926	30.6	31.1574
Ti 334.941	-0.0561b	ppb	0.0785	139.9	62.9769

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-0.0228b	ppb	3.1650	13900.0	-4.4435
V 292.401	0.0923b	ppb	0.1889	204.7	21.9197
Zn 206.200	15.3059b	ppb	0.8071	5.3	48.7461

640-43280-a-15-b (Samp) 4/30/2013, 9:48:36 PM Rack 1, Tube 58

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6501	ppb	0.5030	77.4	-50.2245
Al 308.215	-33.7623	ppb	1.2027	3.6	81.4222
As 188.980	-3.6440	ppb	2.2503	61.8	-2.5056
B 249.678	54.5881	ppb	0.5437	1.0	475.190
Ba 389.178	1.1172	ppb	0.8697	77.8	3.7465
Be 313.042	-0.0086	ppb	0.0077	90.0	-98.1929
Ca 370.602	381.1	ppb	5.278	1.4	346.3
Cd 226.502	4.1099	ppb	0.0361	0.9	106.767
Co 228.615	-0.4737	ppb	0.3472	73.3	-7.1343
Cr 267.716	2.6258	ppb	0.2900	11.0	44.9214
Cu 324.754	3.4623	ppb	0.3326	9.6	211.050
Fe 271.441	6394.02	ppb	64.6191	1.0	4422.94
K 766.491	83.3545	ppb	0.4575	0.5	11507.2
Mg 279.078	49.8049	ppb	1.8179	3.7	106.969
Mn 257.610	69.5614	ppb	0.8172	1.2	6117.66
Mo 202.032	-1.2052	ppb	0.5374	44.6	-2.5060
Na 330.237	3792.34	ppb	81.4382	2.1	230.144
Ni 231.604	4.9998	ppb	1.1648	23.3	14.0038
Pb 220.353	0.4414	ppb	1.7618	399.1	2.3421
Sb 206.834	2.3620	ppb	3.9716	168.1	4.0785
Se 196.026	-4.7742	ppb	4.3713	91.6	1.0234
Sn 189.925	2.0882	ppb	2.1622	103.5	0.8980
Sr 216.596	0.6453	ppb	0.6981	108.2	0.8019
Ti 334.941	-0.0594	ppb	0.0216	36.3	-58.5085
Tl 190.794	4.8402	ppb	5.3919	111.4	0.3409
V 292.401	-0.1902	ppb	0.1068	56.2	1.6516
Zn 206.200	3.5426	ppb	0.2657	7.5	15.5425

640-43280-a-17-b (Samp) 4/30/2013, 9:54:05 PM Rack 1, Tube 59

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4973	ppb	0.2328	46.8	-16.1899
Al 308.215	-22.9964	ppb	4.0988	17.8	113.669
As 188.980	6.7319	ppb	1.4997	22.3	0.7310
B 249.678	63.2771	ppb	0.3300	0.5	545.005
Ba 389.178	3.7786	ppb	0.5081	13.4	45.7938
Be 313.042	-0.0138	ppb	0.0047	33.9	-106.332
Ca 370.602	894.0	ppb	2.721	0.3	2052
Cd 226.502	30.1262	ppb	0.2584	0.9	621.557
Co 228.615	-0.5661	ppb	0.1201	21.2	-7.8243
Cr 267.716	5.6993	ppb	0.2111	3.7	89.3652
Cu 324.754	7.2840	ppb	0.3414	4.7	345.965
Fe 271.441	6728.35	ppb	29.5982	0.4	4653.97
K 766.491	107.764	ppb	0.3130	0.3	14276.5

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	94.6810	ppb	0.8126	0.9	157.132
Mn 257.610	81.2233	ppb	0.4621	0.6	7140.92
Mo 202.032	-0.5609	ppb	0.8313	148.2	-0.3631
Na 330.237	15931.6	ppb	12.1557	0.1	947.520
Ni 231.604	34.8152	ppb	0.7130	2.0	94.2180
Pb 220.353	-0.1966	ppb	1.4028	713.5	1.8457
Sb 206.834	-1.2658	ppb	0.1165	9.2	1.9367
Se 196.026	-3.9822	ppb	7.0557	177.2	1.2207
Sn 189.925	0.5823	ppb	1.0639	182.7	0.0873
Sr 216.596	1.5139	ppb	0.5716	37.8	4.7784
Ti 334.941	-0.0354	ppb	0.0341	96.3	-53.5549
Tl 190.794	2.3170	ppb	3.9730	171.5	-0.7485
V 292.401	0.1222	ppb	0.0494	40.4	9.9991
Zn 206.200	17.5405	ppb	0.9203	5.2	53.2276

lb 680-274304/13-c (Samp) 4/30/2013, 9:59:32 PM Rack 1, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0354b	ppb	0.2651	749.5	-31.1292
Al 308.215	-39.6167b	ppb	2.5536	6.4	64.6219
As 188.980	-4.4068b	ppb	6.7475	153.1	-2.7420
B 249.678	57.9002b	ppb	0.2398	0.4	515.855
Ba 389.178	-0.4346b	ppb	0.7494	172.4	-27.4524
Be 313.042	-0.0062b	ppb	0.0074	119.9	-104.760
Ca 370.602	428.6b	ppb	2.588	0.6	1561
Cd 226.502	0.0790b	ppb	0.2130	269.5	13.2139
Co 228.615	-1.4075b	ppb	0.1586	11.3	-13.9381
Cr 267.716	-0.0341b	ppb	0.4483	1316.5	9.9910
Cu 324.754	0.4373b	ppb	0.2223	50.8	100.451
Fe 271.441	-5.0588b	ppb	6.2816	124.2	0.8044
K 766.491	104.215b	ppb	0.7131	0.7	13874.9
Mg 279.078	59.5936b	ppb	2.3778	4.0	140.652
Mn 257.610	0.0808b	ppb	0.0783	96.8	16.9166
Mo 202.032	-0.0597b	ppb	0.2483	415.7	2.1910
Na 330.237	130710xb	ppb	475.979	0.4	7734.37
Ni 231.604	0.0098b	ppb	0.5537	5657.7	0.2231
Pb 220.353	-1.4804b	ppb	3.0922	208.9	0.8971
Sb 206.834	0.7921b	ppb	1.3696	172.9	2.9704
Se 196.026	0.7916b	ppb	5.6430	712.8	2.3841
Sn 189.925	-1.8737b	ppb	2.2416	119.6	-1.2121
Sr 216.596	0.6413b	ppb	0.1925	30.0	-1.7994
Ti 334.941	-0.0285b	ppb	0.0439	154.3	-59.0024
Tl 190.794	-2.8239b	ppb	1.2836	45.5	-2.6753
V 292.401	-0.0812b	ppb	0.0275	33.9	2.6725
Zn 206.200	3.2328b	ppb	0.2680	8.3	14.5819

Cont Calib Verif (CCV) 4/30/2013, 10:05:00 PM Rack 2, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.606	ppb	54.3214	10.6	15186.0	102.52122
Al 308.215	4948.63	ppb	405.239	8.2	15295.0	98.97256

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	535.425	ppb	47.1188	8.8	167.089	107.08507
B 249.678	517.925	ppb	39.6015	7.6	4244.99	20.71699Q
Ba 389.178	5268.42	ppb	404.390	7.7	82373.2	105.36841
Be 313.042	528.585	ppb	41.9583	7.9	754292	105.71696
Ca 370.602	5297	ppb	395.7	7.5	17682	105.93545
Cd 226.502	532.855	ppb	40.0428	7.5	10553.1	106.57095
Co 228.615	533.585	ppb	41.6300	7.8	3833.12	106.71706
Cr 267.716	5415.74	ppb	423.944	7.8	78543.5	108.31474
Cu 324.754	5213.05	ppb	469.395	9.0	185431	104.26095
Fe 271.441	5067.08	ppb	433.905	8.6	3564.02	101.34151
K 766.491	10032.3	ppb	591.703	5.9	1139257	100.32311
Mg 279.078	5028.76	ppb	387.652	7.7	5799.10	100.57526
Mn 257.610	5547.94	ppb	431.598	7.8	486626	110.95878Q
Mo 202.032	504.383	ppb	40.6486	8.1	1703.58	100.87664
Na 330.237	7711.28	ppb	454.646	5.9	463.036	102.81709
Ni 231.604	2663.81	ppb	207.786	7.8	7167.88	106.55238
Pb 220.353	514.798	ppb	40.6125	7.9	393.186	102.95966
Sb 206.834	1003.21	ppb	85.2062	8.5	637.904	40.12831Q
Se 196.026	4967.59	ppb	373.651	7.5	1220.15	99.35184
Sn 189.925	5241.66	ppb	422.521	8.1	2825.04	104.83318
Sr 216.596	2596.64	ppb	194.704	7.5	14311.3	103.86575
Ti 334.941	504.810	ppb	43.5728	8.6	102607	100.96196
Tl 190.794	5111.98	ppb	363.151	7.1	2176.78	102.23953
V 292.401	5066.35	ppb	409.449	8.1	138041	101.32698
Zn 206.200	2724.37	ppb	208.354	7.6	7323.17	108.97461

## Cont Calib Blank (CCB)

4/30/2013, 10:10:27 PM

Rack 2, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0631	ppb	0.4447	704.4	-31.9489	-0.06313
Al 308.215	-41.5410	ppb	1.3128	3.2	58.9072	-41.54098
As 188.980	7.1328	ppb	6.7910	95.2	0.8846	7.13275
B 249.678	1.2443	ppb	0.6148	49.4	55.9782	1.24434
Ba 389.178	0.0586	ppb	0.7502	1280.3	-19.9385	0.05860
Be 313.042	0.0316	ppb	0.0232	73.4	-40.3250	0.03162
Ca 370.602	-49.38	ppb	0.9189	1.9	-77.76	-49.38255
Cd 226.502	0.1221	ppb	0.2886	236.4	14.3898	0.12205
Co 228.615	-0.9024	ppb	0.5671	62.8	-10.3139	-0.90242
Cr 267.716	0.1251	ppb	0.3384	270.4	11.6649	0.12512
Cu 324.754	0.5430	ppb	0.2789	51.4	105.471	0.54298
Fe 271.441	-15.7756	ppb	6.1435	38.9	-6.5712	-15.77563
K 766.491	1.2747	ppb	0.6469	50.8	2193.23	1.27467
Mg 279.078	-44.7776	ppb	5.3516	12.0	21.2629	-44.77758
Mn 257.610	0.5022	ppb	0.2588	51.5	53.8557	0.50218
Mo 202.032	0.3833	ppb	0.3435	89.6	3.6938	0.38332
Na 330.237	-26.5682	ppb	129.869	488.8	7.1382	-26.56815
Ni 231.604	1.0163	ppb	0.4805	47.3	2.9295	1.01628
Pb 220.353	-1.4988	ppb	2.6412	176.2	0.8826	-1.49880
Sb 206.834	0.2768	ppb	1.5655	565.5	2.6554	0.27683
Se 196.026	0.1989	ppb	7.3510	3696.4	2.2371	0.19887
Sn 189.925	-1.9124	ppb	2.5091	131.2	-1.2586	-1.91242
Sr 216.596	0.3737	ppb	0.9033	241.7	-3.3496	0.37374
Ti 334.941	-0.0212	ppb	0.0372	175.4	51.3262	-0.02119

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	3.8750	ppb	7.3977	190.9	0.1781	3.87500
V 292.401	0.7524	ppb	0.3234	43.0	26.2735	0.75237
Zn 206.200	-0.0766	ppb	0.0804	105.0	5.6670	-0.07658

**680-89596-a-1-d (Samp)**      **4/30/2013, 10:15:53 PM**      **Rack 2, Tube 3**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2353b	ppb	0.9358	397.8	-35.5012
Al 308.215	-7.9457b	ppb	1.3005	16.4	159.554
As 188.980	-1.7343b	ppb	9.2156	531.4	-2.0116
B 249.678	47.8736b	ppb	0.7270	1.5	434.841
Ba 389.178	154.148b	ppb	0.2711	0.2	2391.25
Be 313.042	0.0283b	ppb	0.0082	29.1	-54.1908
Ca 370.602	5419b	ppb	7.617	0.1	18704
Cd 226.502	-0.0160b	ppb	0.1925	1205.9	11.3514
Co 228.615	18.0314b	ppb	0.7123	4.0	125.839
Cr 267.716	0.5553b	ppb	0.1991	35.9	18.9406
Cu 324.754	0.5608b	ppb	0.1794	32.0	91.6262
Fe 271.441	-10.2259b	ppb	9.2375	90.3	-1.9645
K 766.491	1452.85b	ppb	0.8026	0.1	166881
Mg 279.078	1392.85b	ppb	2.2471	0.2	1665.59
Mn 257.610	381.963b	ppb	1.2383	0.3	33513.9
Mo 202.032	-0.9289b	ppb	0.3355	36.1	-0.7569
Na 330.237	126968xb	ppb	291.317	0.2	7513.25
Ni 231.604	5.3965b	ppb	0.3725	6.9	14.7502
Pb 220.353	-2.5436b	ppb	0.7735	30.4	0.0726
Sb 206.834	2.6348b	ppb	3.0834	117.0	4.1273
Se 196.026	-0.4571b	ppb	8.0226	1755.2	2.1634
Sn 189.925	-2.6548b	ppb	1.5356	57.8	-1.6503
Sr 216.596	27.9373b	ppb	1.1218	4.0	149.770
Ti 334.941	-0.0011b	ppb	0.0548	4763.6	-48.0324
Tl 190.794	1.9848b	ppb	3.3674	169.7	-0.6453
V 292.401	0.1806b	ppb	0.2304	127.5	9.2082
Zn 206.200	3.5971b	ppb	0.2888	8.0	15.6000

**680-89596-a-2-f (Samp)**      **4/30/2013, 10:21:20 PM**      **Rack 2, Tube 4**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2101b	ppb	0.4415	210.2	-21.4443
Al 308.215	9.1817b	ppb	2.8746	31.3	210.882
As 188.980	3.7240b	ppb	2.8846	77.5	-0.4013
B 249.678	60.5571b	ppb	0.6640	1.1	537.848
Ba 389.178	209.335b	ppb	0.2640	0.1	3257.31
Be 313.042	0.0361b	ppb	0.0039	10.9	-42.3091
Ca 370.602	10112b	ppb	6.547	0.1	34819
Cd 226.502	0.0175b	ppb	0.3398	1936.2	12.0122
Co 228.615	19.7384b	ppb	0.0962	0.5	138.134
Cr 267.716	1.0111b	ppb	0.1530	15.1	25.7892
Cu 324.754	0.5490b	ppb	0.3453	62.9	78.8177
Fe 271.441	-14.6307b	ppb	6.2302	42.6	-4.9305
K 766.491	1517.34b	ppb	2.4866	0.2	174186

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	3312.36b	ppb	7.3927	0.2	3861.64
Mn 257.610	588.507b	ppb	1.5901	0.3	51633.7
Mo 202.032	-0.9123b	ppb	1.5239	167.0	-0.6993
Na 330.237	128125xb	ppb	688.289	0.5	7581.60
Ni 231.604	7.6872b	ppb	0.3599	4.7	20.9776
Pb 220.353	3.1159b	ppb	0.8922	28.6	4.4309
Sb 206.834	4.1735b	ppb	6.2029	148.6	5.0901
Se 196.026	-0.0750b	ppb	5.6770	7574.4	2.3152
Sn 189.925	0.1380b	ppb	2.3931	1734.2	-0.1601
Sr 216.596	70.1777b	ppb	0.7408	1.1	384.393
Ti 334.941	0.0628b	ppb	0.0552	87.9	-30.2107
Tl 190.794	2.9843b	ppb	3.8926	130.4	-0.2583
V 292.401	-0.0461b	ppb	0.1979	429.1	2.6010
Zn 206.200	5.7573b	ppb	0.5213	9.1	21.4715

680-89596-a-2-g ms (Samp) 4/30/2013, 10:26:46 PM Rack 2, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.5163b	ppb	0.2053	0.4	1621.52
Al 308.215	789.466b	ppb	4.8756	0.6	2554.82
As 188.980	82.9151b	ppb	12.0562	14.5	24.2977
B 249.678	200.703b	ppb	0.8160	0.4	1659.52
Ba 389.178	246.168b	ppb	0.4192	0.2	3854.70
Be 313.042	81.9670b	ppb	0.1539	0.2	116497
Ca 370.602	16226b	ppb	15.87	0.1	54553
Cd 226.502	82.3088b	ppb	0.2606	0.3	1654.84
Co 228.615	97.3590b	ppb	0.3851	0.4	695.775
Cr 267.716	83.6582b	ppb	0.8273	1.0	1221.09
Cu 324.754	81.9789b	ppb	0.4708	0.6	2962.44
Fe 271.441	7773.83b	ppb	32.6917	0.4	5381.18
K 766.491	9546.99b	ppb	15.0360	0.2	1085377
Mg 279.078	10254.3b	ppb	21.0961	0.2	11776.4
Mn 257.610	1321.07b	ppb	1.4422	0.1	115910
Mo 202.032	77.3437b	ppb	1.2941	1.7	263.652
Na 330.237	111154xb	ppb	106.424	0.1	6574.85
Ni 231.604	89.2330b	ppb	0.7667	0.9	240.937
Pb 220.353	78.2278b	ppb	3.4518	4.4	62.0057
Sb 206.834	76.6329b	ppb	3.6141	4.7	49.5092
Se 196.026	79.6266b	ppb	4.9895	6.3	22.0105
Sn 189.925	77.8168b	ppb	3.2814	4.2	41.7019
Sr 216.596	136.265b	ppb	1.3694	1.0	750.801
Ti 334.941	77.6487b	ppb	0.1896	0.2	15710.4
Tl 190.794	17.0138b	ppb	2.6482	15.6	5.5111
V 292.401	78.4650b	ppb	0.1910	0.2	2126.57
Zn 206.200	87.4793b	ppb	0.6938	0.8	241.598

680-89596-a-2-h msd (Samp) 4/30/2013, 10:32:13 PM Rack 2, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	34.6928b	ppb	0.3180	0.9	1003.40
Al 308.215	799.101b	ppb	1.4102	0.2	2583.77



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	87.6970b	ppb	8.7980	10.0	25.7943
B 249.678	203.201b	ppb	0.0823	0.0	1679.59
Ba 389.178	248.630b	ppb	1.1757	0.5	3893.44
Be 313.042	82.9237b	ppb	0.1134	0.1	117858
Ca 370.602	16334b	ppb	22.36	0.1	54910
Cd 226.502	83.2899b	ppb	0.2966	0.4	1674.43
Co 228.615	97.7541b	ppb	0.7548	0.8	698.608
Cr 267.716	84.4399b	ppb	0.2698	0.3	1232.39
Cu 324.754	83.3265b	ppb	0.2895	0.3	3010.12
Fe 271.441	7870.13b	ppb	3.2004	0.0	5447.75
K 766.491	9656.95b	ppb	1.1745	0.0	1097855
Mg 279.078	10345.0b	ppb	31.2194	0.3	11879.9
Mn 257.610	1330.30b	ppb	1.4326	0.1	116720
Mo 202.032	78.0643b	ppb	0.8585	1.1	266.082
Na 330.237	111414xb	ppb	230.881	0.2	6590.16
Ni 231.604	89.4465b	ppb	0.3487	0.4	241.517
Pb 220.353	80.2597b	ppb	3.1373	3.9	63.5674
Sb 206.834	72.5071b	ppb	1.5457	2.1	47.0427
Se 196.026	87.1438b	ppb	16.9572	19.5	23.8545
Sn 189.925	78.5538b	ppb	5.0156	6.4	42.0990
Sr 216.596	136.683b	ppb	0.0624	0.0	753.135
Ti 334.941	78.5190b	ppb	0.1473	0.2	15887.0
Tl 190.794	11.5734b	ppb	2.8518	24.6	3.1950
V 292.401	79.4168b	ppb	0.0285	0.0	2152.24
Zn 206.200	88.3548b	ppb	0.3653	0.4	243.956

640-43026-b-1-d (Samp) 4/30/2013, 10:37:39 PM Rack 2, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5155b	ppb	0.4351	84.4	-14.2030
Al 308.215	-32.0593b	ppb	3.2461	10.1	87.6014
As 188.980	6.9354b	ppb	9.0951	131.1	-0.0328
B 249.678	95.2207b	ppb	0.7568	0.8	818.933
Ba 389.178	34.6253b	ppb	1.6705	4.8	523.648
Be 313.042	0.0057b	ppb	0.0099	173.8	-84.4671
Ca 370.602	40123b	ppb	26.42	0.1	137839
Cd 226.502	0.2520b	ppb	0.2415	95.8	16.4714
Co 228.615	0.1556b	ppb	0.7818	502.4	-2.8293
Cr 267.716	0.9063b	ppb	0.3025	33.4	23.9776
Cu 324.754	42.9529b	ppb	0.3796	0.9	1506.89
Fe 271.441	-40.0408b	ppb	0.9172	2.3	-23.2999
K 766.491	83420.8xb	ppb	92.1348	0.1	9468592
Mg 279.078	1764.79b	ppb	5.4440	0.3	2091.70
Mn 257.610	147.856b	ppb	0.2303	0.2	12982.0
Mo 202.032	11.2166b	ppb	0.1950	1.7	40.4487
Na 330.237	163840xb	ppb	508.042	0.3	9692.86
Ni 231.604	8.3641b	ppb	0.6806	8.1	22.7528
Pb 220.353	-3.7395b	ppb	2.6571	71.1	-0.8618
Sb 206.834	4.9613b	ppb	4.1466	83.6	5.7920
Se 196.026	-1.6855b	ppb	3.8881	230.7	1.9201
Sn 189.925	-0.7912b	ppb	1.0024	126.7	-0.7520
Sr 216.596	65.2237b	ppb	0.7760	1.2	357.795
Ti 334.941	0.3070b	ppb	0.0494	16.1	48.2316

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-0.5580b	ppb	3.5596	637.9	-2.0624
V 292.401	0.5325b	ppb	0.0138	2.6	16.0413
Zn 206.200	207.612b	ppb	1.4074	0.7	564.885

**640-43026-b-2-d (Samp)**      **4/30/2013, 10:43:06 PM**      **Rack 2, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0742b	ppb	0.1104	148.8	-31.0256
Al 308.215	-18.2824b	ppb	6.3029	34.5	128.620
As 188.980	6.2304b	ppb	10.8857	174.7	-0.9580
B 249.678	52.8210b	ppb	5.3672	10.2	474.840
Ba 389.178	19.6567b	ppb	1.6910	8.6	290.308
Be 313.042	0.0010b	ppb	0.0325	3139.6	-79.0246
Ca 370.602	73004b	ppb	7786	10.7	250720
Cd 226.502	0.0998b	ppb	0.0361	36.2	13.5249
Co 228.615	0.4785b	ppb	0.2114	44.2	-0.3555
Cr 267.716	-0.0807b	ppb	0.1555	192.7	9.7245
Cu 324.754	41.1149b	ppb	3.3732	8.2	1353.66
Fe 271.441	-43.4441b	ppb	6.9480	16.0	-25.6393
K 766.491	63565.3xb	ppb	5362.59	8.4	7215400
Mg 279.078	2169.74b	ppb	240.058	11.1	2554.78
Mn 257.610	323.500b	ppb	32.9601	10.2	28388.3
Mo 202.032	0.9087b	ppb	1.0101	111.2	5.4815
Na 330.237	138513xb	ppb	12287.8	8.9	8195.99
Ni 231.604	18.1076b	ppb	2.6058	14.4	48.9742
Pb 220.353	-0.8095b	ppb	3.8540	476.1	1.4103
Sb 206.834	1.4142b	ppb	1.9507	137.9	3.9615
Se 196.026	1.8011b	ppb	12.0794	670.7	2.8960
Sn 189.925	-2.5850b	ppb	1.8570	71.8	-1.8321
Sr 216.596	105.549b	ppb	11.6123	11.0	582.842
Ti 334.941	-0.1143b	ppb	0.0603	52.8	-2.0842
Tl 190.794	-1.5871b	ppb	5.1532	324.7	-2.7718
V 292.401	0.4802b	ppb	0.1445	30.1	17.1703
Zn 206.200	268.104b	ppb	28.4497	10.6	727.764

**640-43026-b-3-d (Samp)**      **4/30/2013, 10:48:34 PM**      **Rack 2, Tube 9**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3150b	ppb	0.2919	92.7	-38.4324
Al 308.215	-16.9405b	ppb	3.3984	20.1	132.615
As 188.980	1.7933b	ppb	11.3315	631.9	-2.2555
B 249.678	27.5263b	ppb	2.5260	9.2	269.404
Ba 389.178	44.3106b	ppb	2.5500	5.8	674.357
Be 313.042	-0.0080b	ppb	0.0145	180.5	-89.8902
Ca 370.602	68753b	ppb	4767	6.9	236123
Cd 226.502	0.3244b	ppb	0.2167	66.8	18.0262
Co 228.615	0.4638b	ppb	0.6182	133.3	-0.4625
Cr 267.716	-1.1725b	ppb	0.2947	25.1	-6.2672
Cu 324.754	3.5000b	ppb	0.3213	9.2	26.9067
Fe 271.441	-29.6802b	ppb	3.6766	12.4	-16.1384
K 766.491	10532.5b	ppb	629.395	6.0	1197265

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	1423.05b	ppb	111.930	7.9	1700.46
Mn 257.610	252.470b	ppb	17.2206	6.8	22156.7
Mo 202.032	0.0681b	ppb	0.7315	1073.5	2.6283
Na 330.237	124293xb	ppb	6145.29	4.9	7355.41
Ni 231.604	0.9374b	ppb	0.6305	67.3	2.7677
Pb 220.353	30.2843b	ppb	3.6233	12.0	25.3699
Sb 206.834	5.9633b	ppb	2.5113	42.1	6.6545
Se 196.026	-2.4579b	ppb	18.0152	732.9	1.8249
Sn 189.925	-1.2176b	ppb	3.3823	277.8	-1.0840
Sr 216.596	48.7490b	ppb	3.8693	7.9	267.947
Ti 334.941	-0.0738b	ppb	0.0532	72.2	2.4925
Tl 190.794	1.1164b	ppb	5.9189	530.2	-1.5863
V 292.401	0.3143b	ppb	0.1231	39.2	13.0524
Zn 206.200	208.513b	ppb	13.2587	6.4	567.305

640-43026-b-4-d (Samp) 4/30/2013, 10:54:01 PM Rack 2, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0965b	ppb	0.3325	344.6	-26.2838
Al 308.215	-16.0148b	ppb	5.8639	36.6	135.384
As 188.980	4.2447b	ppb	12.0889	284.8	-1.4445
B 249.678	64.3654b	ppb	0.6630	1.0	568.549
Ba 389.178	30.4722b	ppb	0.8213	2.7	458.741
Be 313.042	0.0025b	ppb	0.0061	245.3	-79.2332
Ca 370.602	66712b	ppb	20.69	0.0	229119
Cd 226.502	0.3371b	ppb	0.1953	57.9	18.1709
Co 228.615	0.7649b	ppb	0.3915	51.2	1.7202
Cr 267.716	0.1184b	ppb	0.7325	618.5	12.5911
Cu 324.754	26.5254b	ppb	0.3185	1.2	851.412
Fe 271.441	-43.5121b	ppb	12.7969	29.4	-25.6910
K 766.491	53098.9xb	ppb	49.4866	0.1	6027675
Mg 279.078	1823.41b	ppb	6.6963	0.4	2158.63
Mn 257.610	241.400b	ppb	0.3888	0.2	21186.7
Mo 202.032	0.0158b	ppb	0.8707	5495.3	2.4528
Na 330.237	152750xb	ppb	578.670	0.4	9037.63
Ni 231.604	6.1127b	ppb	0.6940	11.4	16.6970
Pb 220.353	0.7591b	ppb	1.6419	216.3	2.6205
Sb 206.834	2.2852b	ppb	1.1308	49.5	4.4320
Se 196.026	1.0640b	ppb	4.8265	453.6	2.6825
Sn 189.925	0.7572b	ppb	7.1277	941.3	-0.0070
Sr 216.596	78.8212b	ppb	1.5540	2.0	434.634
Ti 334.941	-0.0259b	ppb	0.0470	181.0	8.6562
Tl 190.794	-2.2594b	ppb	6.5274	288.9	-3.0023
V 292.401	0.3636b	ppb	0.0970	26.7	14.2808
Zn 206.200	382.298b	ppb	3.1166	0.8	1035.20

lb2 680-274576/13-c (Samp) 4/30/2013, 10:59:29 PM Rack 2, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0474	ppb	0.7276	1535.1	-31.4865
Al 308.215	-41.2537	ppb	1.6064	3.9	59.7182

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.4913	ppb	7.8238	1592.4	-1.2066
B 249.678	67.6210	ppb	0.4813	0.7	594.789
Ba 389.178	0.0398	ppb	0.4158	1043.6	-20.0360
Be 313.042	-0.0059	ppb	0.0009	15.5	-94.4348
Ca 370.602	414.1	ppb	5.990	1.4	1513
Cd 226.502	1.1843	ppb	0.2029	17.1	35.3722
Co 228.615	-1.2746	ppb	0.7293	57.2	-12.9882
Cr 267.716	-0.0139	ppb	0.1086	779.0	9.6712
Cu 324.754	2.0466	ppb	0.3895	19.0	157.737
Fe 271.441	-16.9284	ppb	2.4635	14.6	-7.3884
K 766.491	77.1275	ppb	1.1930	1.5	10801.0
Mg 279.078	66.7750	ppb	2.3596	3.5	148.906
Mn 257.610	0.1411	ppb	0.0752	53.3	22.4388
Mo 202.032	0.0752	ppb	0.7027	934.2	2.6503
Na 330.237	4220.59	ppb	175.270	4.2	258.173
Ni 231.604	0.5631	ppb	0.3496	62.1	1.7148
Pb 220.353	-0.4062	ppb	4.3682	1075.3	1.7242
Sb 206.834	0.9544	ppb	2.3541	246.7	3.0659
Se 196.026	0.9157	ppb	16.6131	1814.3	2.4145
Sn 189.925	-0.0846	ppb	0.4977	588.7	-0.2740
Sr 216.596	0.5644	ppb	0.2071	36.7	-2.2555
Ti 334.941	-0.0495	ppb	0.0759	153.3	-56.8092
Tl 190.794	3.1778	ppb	3.8088	119.9	-0.1235
V 292.401	-0.1574	ppb	0.1959	124.5	1.4207
Zn 206.200	2.4332	ppb	0.3971	16.3	12.4279

680-89720-a-1-h (Samp)

4/30/2013, 11:04:57 PM

Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1863b	ppb	0.2554	137.1	-35.4858
Al 308.215	-30.7838b	ppb	1.6614	5.4	92.0715
As 188.980	-3.2045b	ppb	7.1097	221.9	-2.4648
B 249.678	357.361b	ppb	1.1200	0.3	2946.36
Ba 389.178	19.4333b	ppb	0.2898	1.5	283.831
Be 313.042	0.0030b	ppb	0.0051	172.8	-93.3602
Ca 370.602	5380b	ppb	12.57	0.2	18555
Cd 226.502	1.3759b	ppb	0.0535	3.9	38.9185
Co 228.615	-1.0747b	ppb	0.4558	42.4	-12.1440
Cr 267.716	1.1698b	ppb	0.4780	40.9	27.4265
Cu 324.754	5.3681b	ppb	0.2806	5.2	262.949
Fe 271.441	17.6047b	ppb	10.5769	60.1	16.5178
K 766.491	924.146b	ppb	2.0177	0.2	106916
Mg 279.078	339.122b	ppb	3.5474	1.0	460.400
Mn 257.610	10.8603b	ppb	0.0808	0.7	963.070
Mo 202.032	40.9672b	ppb	0.3830	0.9	141.366
Na 330.237	121896xb	ppb	628.014	0.5	7215.94
Ni 231.604	2.0724b	ppb	2.0899	100.8	5.7816
Pb 220.353	-0.9723b	ppb	5.3916	554.5	1.2312
Sb 206.834	1.6986b	ppb	0.8468	49.9	3.4847
Se 196.026	-1.2445b	ppb	13.5162	1086.1	1.9022
Sn 189.925	-1.1803b	ppb	4.1113	348.3	-0.8564
Sr 216.596	8.4200b	ppb	0.3067	3.6	40.8519
Ti 334.941	0.0323b	ppb	0.0386	119.7	-41.0703

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1.8983b	ppb	7.9766	420.2	-0.7504
V 292.401	0.1597b	ppb	0.2257	141.3	-0.1646
Zn 206.200	1690.20b	ppb	5.3317	0.3	4556.47

**Cont Calib Verif (CCV)**

4/30/2013, 11:10:25 PM

Rack 2, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.865	ppb	1.4584	0.3	14837.5	100.17303
Al 308.215	4877.11	ppb	12.6454	0.3	15076.7	97.54227
As 188.980	525.715	ppb	8.8532	1.7	164.038	105.14305
B 249.678	512.358	ppb	1.0947	0.2	4199.93	20.49431Q
Ba 389.178	5188.04	ppb	11.9959	0.2	81116.2	103.76079
Be 313.042	522.587	ppb	1.3396	0.3	745724	104.51731
Ca 370.602	5224	ppb	9.143	0.2	17442	104.47688
Cd 226.502	525.918	ppb	0.5264	0.1	10415.9	105.18352
Co 228.615	526.761	ppb	0.8639	0.2	3784.09	105.35219
Cr 267.716	5356.27	ppb	7.8199	0.1	77681.3	107.12543
Cu 324.754	5082.35	ppb	38.1966	0.8	180783	101.64694
Fe 271.441	4984.40	ppb	9.6194	0.2	3506.09	99.68802
K 766.491	9881.78	ppb	9.7981	0.1	1122194	98.81781
Mg 279.078	4953.69	ppb	5.9004	0.1	5713.62	99.07380
Mn 257.610	5476.08	ppb	11.1102	0.2	480323	109.52155
Mo 202.032	496.533	ppb	0.7377	0.1	1677.08	99.30650
Na 330.237	7574.38	ppb	46.4884	0.6	454.964	100.99174
Ni 231.604	2630.23	ppb	3.5028	0.1	7077.52	105.20917
Pb 220.353	505.233	ppb	7.2839	1.4	385.887	101.04665
Sb 206.834	984.036	ppb	8.0091	0.8	626.023	39.36143Q
Se 196.026	4890.12	ppb	5.3880	0.1	1201.15	97.80231
Sn 189.925	5168.33	ppb	17.6655	0.3	2785.51	103.36658
Sr 216.596	2563.47	ppb	6.4013	0.2	14128.4	102.53865
Ti 334.941	500.264	ppb	0.9719	0.2	101682	100.05271
Tl 190.794	5033.66	ppb	11.2194	0.2	2143.42	100.67325
V 292.401	4994.31	ppb	7.0390	0.1	136078	99.88620
Zn 206.200	2692.00	ppb	4.9205	0.2	7236.23	107.67989

**Cont Calib Blank (CCB)**

4/30/2013, 11:15:51 PM

Rack 2, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4507	ppb	0.4466	99.1	-16.6963	0.45069
Al 308.215	-43.0530	ppb	2.3854	5.5	54.3821	-43.05297
As 188.980	4.3539	ppb	3.6116	83.0	0.0138	4.35394
B 249.678	1.6187	ppb	0.7352	45.4	59.0040	1.61873
Ba 389.178	0.3313	ppb	1.0123	305.6	-15.6640	0.33127
Be 313.042	0.0300	ppb	0.0426	141.9	-42.6527	0.03002
Ca 370.602	-52.08	ppb	1.573	3.0	-87.83	-52.08499
Cd 226.502	0.1741	ppb	0.2748	157.9	15.4279	0.17406
Co 228.615	-0.8015	ppb	0.3494	43.6	-9.5949	-0.80155
Cr 267.716	0.5359	ppb	0.7701	143.7	17.6224	0.53594
Cu 324.754	0.3751	ppb	0.2905	77.5	99.5182	0.37510
Fe 271.441	-12.2049	ppb	3.6015	29.5	-4.1030	-12.20486
K 766.491	1.6717	ppb	0.6274	37.5	2238.17	1.67170

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-42.9531	ppb	3.5271	8.2	23.3334	-42.95308
Mn 257.610	0.6056	ppb	0.5043	83.3	62.9381	0.60560
Mo 202.032	0.6271	ppb	0.4011	64.0	4.5201	0.62707
Na 330.237	-29.6411	ppb	66.8743	225.6	6.9546	-29.64110
Ni 231.604	1.8603	ppb	0.7039	37.8	5.1984	1.86030
Pb 220.353	-1.2168	ppb	3.7227	305.9	1.0993	-1.21679
Sb 206.834	0.0591	ppb	1.9946	3374.3	2.5208	0.05911
Se 196.026	9.8456	ppb	9.2187	93.6	4.6004	9.84559
Sn 189.925	-0.0419	ppb	2.2330	5324.6	-0.2504	-0.04194
Sr 216.596	0.4371	ppb	0.2852	65.2	-3.0302	0.43715
Ti 334.941	-0.0164	ppb	0.0021	12.8	-50.3415	-0.01635
Tl 190.794	-0.0125	ppb	1.5301	12219.1	-1.4749	-0.01252
V 292.401	0.6856	ppb	0.4278	62.4	24.3535	0.68557
Zn 206.200	0.1940	ppb	0.4140	213.4	6.3953	0.19399

680-89720-a-1-i ms (Samp)

4/30/2013, 11:21:18 PM

Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1350b	ppb	0.1883	0.4	1460.00
Al 308.215	770.239b	ppb	2.0127	0.3	2498.01
As 188.980	76.4456b	ppb	3.9807	5.2	22.3556
B 249.678	442.661b	ppb	0.0208	0.0	3622.79
Ba 389.178	93.9490b	ppb	0.2931	0.3	1471.47
Be 313.042	82.9601b	ppb	0.1270	0.2	117906
Ca 370.602	12490b	ppb	20.16	0.2	41695
Cd 226.502	83.9818b	ppb	0.6776	0.8	1688.15
Co 228.615	81.1299b	ppb	0.6274	0.8	578.576
Cr 267.716	84.2996b	ppb	0.5049	0.6	1229.83
Cu 324.754	86.1412b	ppb	0.2308	0.3	3120.58
Fe 271.441	7897.84b	ppb	8.7350	0.1	5466.26
K 766.491	9170.87b	ppb	4.9048	0.1	1042732
Mg 279.078	7949.62b	ppb	31.3214	0.4	9139.66
Mn 257.610	872.357b	ppb	1.7444	0.2	76549.1
Mo 202.032	110.908b	ppb	2.3778	2.1	377.496
Na 330.237	108176xb	ppb	457.396	0.4	6400.79
Ni 231.604	84.6885b	ppb	1.1098	1.3	228.643
Pb 220.353	79.6385b	ppb	1.6583	2.1	63.0502
Sb 206.834	77.2548b	ppb	2.9261	3.8	49.8372
Se 196.026	85.8927b	ppb	16.0231	18.7	23.4472
Sn 189.925	50.4480b	ppb	2.7337	5.4	26.9622
Sr 216.596	86.4434b	ppb	0.2544	0.3	473.695
Ti 334.941	77.5716b	ppb	0.0994	0.1	15691.0
Tl 190.794	13.9297b	ppb	2.4750	17.8	4.1732
V 292.401	79.2668b	ppb	0.0782	0.1	2141.57
Zn 206.200	1439.81b	ppb	3.0768	0.2	3882.45

680-89720-a-1-j msd (Samp)

4/30/2013, 11:26:44 PM

Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	39.3138b	ppb	0.3087	0.8	1138.76
Al 308.215	754.225b	ppb	5.0797	0.7	2449.96

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	80.1351b	ppb	6.3269	7.9	23.5143
B 249.678	441.914b	ppb	1.5047	0.3	3616.89
Ba 389.178	92.8139b	ppb	1.0077	1.1	1453.48
Be 313.042	82.0475b	ppb	0.0459	0.1	116608
Ca 370.602	12365b	ppb	26.18	0.2	41280
Cd 226.502	83.0311b	ppb	0.3866	0.5	1669.19
Co 228.615	80.8961b	ppb	0.5349	0.7	576.887
Cr 267.716	83.4549b	ppb	0.5658	0.7	1217.61
Cu 324.754	85.4838b	ppb	0.3921	0.5	3097.51
Fe 271.441	7816.22b	ppb	10.7077	0.1	5409.81
K 766.491	9048.12b	ppb	29.4732	0.3	1028803
Mg 279.078	7854.07b	ppb	23.9429	0.3	9030.63
Mn 257.610	863.334b	ppb	0.2993	0.0	75757.5
Mo 202.032	110.964b	ppb	0.9230	0.8	377.699
Na 330.237	107447xb	ppb	410.395	0.4	6357.69
Ni 231.604	85.0710b	ppb	1.5974	1.9	229.664
Pb 220.353	77.6270b	ppb	5.4044	7.0	61.5030
Sb 206.834	73.5709b	ppb	2.5517	3.5	47.6168
Se 196.026	69.8221b	ppb	5.6423	8.1	19.5079
Sn 189.925	47.6148b	ppb	3.6132	7.6	25.4352
Sr 216.596	84.8008b	ppb	1.2452	1.5	464.527
Ti 334.941	76.7035b	ppb	0.0717	0.1	15514.9
Tl 190.794	12.7434b	ppb	3.9920	31.3	3.6706
V 292.401	78.1839b	ppb	0.2091	0.3	2112.06
Zn 206.200	1431.87b	ppb	0.8380	0.1	3861.08

680-89720-a-3-d (Samp)

4/30/2013, 11:32:11 PM

Rack 2, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5089b	ppb	0.3931	77.2	-45.1946
Al 308.215	-34.9756b	ppb	1.6378	4.7	78.4624
As 188.980	4.1631b	ppb	4.1889	100.6	-0.1696
B 249.678	112.225b	ppb	8.3047	7.4	954.844
Ba 389.178	8.3355b	ppb	0.6435	7.7	112.338
Be 313.042	0.0074b	ppb	0.0189	254.6	-83.5915
Ca 370.602	5713b	ppb	402.9	7.1	19548
Cd 226.502	13.9237b	ppb	1.2678	9.1	288.798
Co 228.615	-0.3136b	ppb	0.3108	99.1	-6.0922
Cr 267.716	0.1873b	ppb	0.3579	191.1	12.7276
Cu 324.754	1.4692b	ppb	0.0700	4.8	123.537
Fe 271.441	928.183b	ppb	63.6418	6.9	645.770
K 766.491	173.020b	ppb	11.1232	6.4	21680.8
Mg 279.078	1007.07b	ppb	79.4458	7.9	1221.48
Mn 257.610	39.4916b	ppb	2.7907	7.1	3476.71
Mo 202.032	0.7169b	ppb	1.0758	150.1	4.7070
Na 330.237	126322xb	ppb	10556.7	8.4	7479.73
Ni 231.604	2.6769b	ppb	1.3685	51.1	7.4840
Pb 220.353	393.147b	ppb	26.1225	6.6	304.952
Sb 206.834	5.8199b	ppb	3.0933	53.2	6.0547
Se 196.026	2.3926b	ppb	11.9776	500.6	2.8013
Sn 189.925	-2.3715b	ppb	5.3995	227.7	-1.4984
Sr 216.596	21.6788b	ppb	1.6508	7.6	115.503
Ti 334.941	-0.0372b	ppb	0.0246	66.2	55.0499

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-3.6380b	ppb	3.3467	92.0	-3.1016
V 292.401	0.2220b	ppb	0.1168	52.6	10.8792
Zn 206.200	3458.38b	ppb	248.531	7.2	9317.05

**680-89719-a-1-c (Samp)**      **4/30/2013, 11:37:37 PM**      **Rack 2, Tube 18**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1868b	ppb	0.6602	353.5	-36.0080
Al 308.215	27.1913b	ppb	2.7295	10.0	264.352
As 188.980	-0.4412b	ppb	4.4918	1018.1	-1.6428
B 249.678	66.2127b	ppb	0.3759	0.6	570.569
Ba 389.178	67.3844b	ppb	0.4394	0.7	1046.60
Be 313.042	0.3329b	ppb	0.0082	2.5	380.075
Ca 370.602	6355b	ppb	19.28	0.3	20925
Cd 226.502	7.7888b	ppb	0.3089	4.0	178.294
Co 228.615	6.7041b	ppb	0.8148	12.2	44.4542
Cr 267.716	5.0205b	ppb	0.4839	9.6	80.5641
Cu 324.754	27.8713b	ppb	0.1015	0.4	1064.01
Fe 271.441	5983.75b	ppb	30.1911	0.5	4139.74
K 766.491	4867.07b	ppb	14.5530	0.3	554345
Mg 279.078	4227.66b	ppb	22.5268	0.5	4888.71
Mn 257.610	176.767b	ppb	0.2954	0.2	15529.4
Mo 202.032	1.3285b	ppb	0.7092	53.4	6.1369
Na 330.237	129447xb	ppb	452.837	0.3	7657.56
Ni 231.604	97.6589b	ppb	0.9788	1.0	263.353
Pb 220.353	17.0144b	ppb	1.5894	9.3	15.1028
Sb 206.834	2.2128b	ppb	1.4814	66.9	4.0482
Se 196.026	10.8043b	ppb	9.6396	89.2	4.8979
Sn 189.925	-0.8407b	ppb	4.6989	558.9	-0.6740
Sr 216.596	41.6426b	ppb	0.4138	1.0	225.297
Ti 334.941	0.2296b	ppb	0.0434	18.9	0.0587
Tl 190.794	3.7712b	ppb	2.9896	79.3	-0.1380
V 292.401	2.6245b	ppb	0.1696	6.5	76.9668
Zn 206.200	231.340b	ppb	0.2414	0.1	628.958

**680-89719-a-2-c (Samp)**      **4/30/2013, 11:43:04 PM**      **Rack 2, Tube 19**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4949b	ppb	0.2836	57.3	-17.1380
Al 308.215	-12.4054b	ppb	0.6945	5.6	146.164
As 188.980	2.3652b	ppb	7.1193	301.0	-0.9822
B 249.678	41.4078b	ppb	0.8450	2.0	381.630
Ba 389.178	253.474b	ppb	0.9657	0.4	3942.01
Be 313.042	0.0056b	ppb	0.0016	29.1	-83.4863
Ca 370.602	17217b	ppb	50.02	0.3	59163
Cd 226.502	4976.19xb	ppb	18.2086	0.4	98347.9
Co 228.615	4.2660b	ppb	0.8711	20.4	20.2153
Cr 267.716	0.4331b	ppb	0.4067	93.9	7.4906
Cu 324.754	3014.09b	ppb	20.2022	0.7	107250
Fe 271.441	199.523b	ppb	7.7885	3.9	142.372
K 766.491	2380.48b	ppb	6.7235	0.3	272124



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	246.185b	ppb	1.8043	0.7	353.201
Mn 257.610	144.883b	ppb	0.6292	0.4	12717.8
Mo 202.032	-0.3414b	ppb	0.0504	14.8	1.2098
Na 330.237	130187xb	ppb	277.926	0.2	7706.16
Ni 231.604	28.8089b	ppb	0.2436	0.8	77.7059
Pb 220.353	92.2390b	ppb	5.9555	6.5	73.1043
Sb 206.834	-0.3949b	ppb	2.4284	614.9	2.4061
Se 196.026	1.2144b	ppb	4.9446	407.2	2.5587
Sn 189.925	0.3720b	ppb	4.5443	1221.6	-0.0569
Sr 216.596	25.7700b	ppb	0.5814	2.3	135.176
Ti 334.941	-0.0872b	ppb	0.0305	35.0	-58.4379
Tl 190.794	2.5113b	ppb	1.0013	39.9	-0.5533
V 292.401	0.0477b	ppb	0.0782	164.1	6.0138
Zn 206.200	1885.00b	ppb	5.1408	0.3	5080.93

680-89747-a-1-b (Samp)

4/30/2013, 11:48:31 PM

Rack 2, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3492	ppb	0.4718	135.1	-19.2762
Al 308.215	-22.4755	ppb	2.4045	10.7	116.163
As 188.980	8.3605	ppb	9.5065	113.7	-4.6780
B 249.678	52.6386	ppb	0.7316	1.4	473.595
Ba 389.178	34.3756	ppb	1.2644	3.7	522.106
Be 313.042	-0.0301	ppb	0.0138	45.8	-58.6506
Ca 370.602	278506	ppb	219.3	0.1	956179
Cd 226.502	3.3640	ppb	0.2553	7.6	78.3870
Co 228.615	17.2335	ppb	0.4387	2.5	120.027
Cr 267.716	-0.8404	ppb	0.6529	77.7	-2.1278
Cu 324.754	17.0850	ppb	0.3919	2.3	-49.8433
Fe 271.441	-37.3737	ppb	13.4733	36.1	-20.7360
K 766.491	19812.5	ppb	2.7267	0.0	2250354
Mg 279.078	3125.29	ppb	7.9647	0.3	3648.44
Mn 257.610	150.206	ppb	0.2417	0.2	13192.6
Mo 202.032	1.9732	ppb	0.1220	6.2	9.0884
Na 330.237	10817.2	ppb	97.6011	0.9	648.886
Ni 231.604	63.4756	ppb	1.7624	2.8	171.021
Pb 220.353	-5.1640	ppb	3.0488	59.0	-1.9461
Sb 206.834	-0.1659	ppb	4.0601	2446.6	4.7575
Se 196.026	0.4993	ppb	8.8091	1764.5	3.1153
Sn 189.925	-1.1254	ppb	1.2578	111.8	-1.7465
Sr 216.596	1166.85	ppb	1.7959	0.2	6481.79
Ti 334.941	-0.6068	ppb	0.0357	5.9	116.134
Tl 190.794	1.6301	ppb	3.3509	205.6	-3.1519
V 292.401	2.2398	ppb	0.1837	8.2	66.3736
Zn 206.200	553.068	ppb	2.3435	0.4	1495.01

680-89748-b-1-d (Samp)

4/30/2013, 11:53:58 PM

Rack 2, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0690b	ppb	0.6737	976.2	-27.9995
Al 308.215	-27.5595b	ppb	1.8407	6.7	100.760

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.8033b	ppb	0.7395	41.0	-0.8194
B 249.678	46.5025b	ppb	0.6183	1.3	423.362
Ba 389.178	11.4638b	ppb	0.6158	5.4	158.832
Be 313.042	0.0066b	ppb	0.0054	82.3	-85.8287
Ca 370.602	1531b	ppb	5.616	0.4	5346
Cd 226.502	0.0740b	ppb	0.0394	53.2	13.1167
Co 228.615	-0.8097b	ppb	0.3330	41.1	-9.6346
Cr 267.716	0.0113b	ppb	0.3209	2834.1	10.6312
Cu 324.754	0.0644b	ppb	0.2717	421.6	84.2619
Fe 271.441	-13.5576b	ppb	7.4044	54.6	-5.0446
K 766.491	215.349b	ppb	0.2036	0.1	26483.6
Mg 279.078	231.785b	ppb	2.6260	1.1	337.694
Mn 257.610	8.0499b	ppb	0.0661	0.8	716.267
Mo 202.032	-0.2161b	ppb	0.6915	320.0	1.6618
Na 330.237	124474xb	ppb	455.870	0.4	7365.84
Ni 231.604	1.3217b	ppb	0.4282	32.4	3.7617
Pb 220.353	0.0013b	ppb	1.2847	102406.7	2.0375
Sb 206.834	1.4564b	ppb	1.9945	136.9	3.3780
Se 196.026	-2.2029b	ppb	4.3754	198.6	1.6558
Sn 189.925	-2.0253b	ppb	3.7402	184.7	-1.2987
Sr 216.596	9.7727b	ppb	0.5936	6.1	48.8973
Ti 334.941	-0.0608b	ppb	0.0103	17.0	-64.0679
Tl 190.794	3.3230b	ppb	4.2305	127.3	-0.0708
V 292.401	-0.0636b	ppb	0.1164	183.1	3.2015
Zn 206.200	2.6515b	ppb	0.4360	16.4	13.0207

CCV (Samp)

4/30/2013, 11:59:24 PM

Rack 1, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	503.217	ppb	2.8341	0.6	14907.3
Al 308.215	4867.22	ppb	6.0961	0.1	15046.5
As 188.980	518.315	ppb	2.1926	0.4	161.719
B 249.678	509.461	ppb	0.8760	0.2	4176.41
Ba 389.178	5177.41	ppb	7.4458	0.1	80950.0
Be 313.042	520.815	ppb	0.8825	0.2	743201
Ca 370.602	5208	ppb	9.181	0.2	17388
Cd 226.502	524.254	ppb	0.8132	0.2	10383.0
Co 228.615	526.277	ppb	2.5411	0.5	3780.62
Cr 267.716	5341.05	ppb	8.3829	0.2	77460.4
Cu 324.754	5115.47	ppb	15.6012	0.3	181961
Fe 271.441	4981.37	ppb	4.1645	0.1	3503.91
K 766.491	9870.86	ppb	24.1388	0.2	1120957
Mg 279.078	4950.33	ppb	2.1478	0.0	5709.80
Mn 257.610	5462.77	ppb	7.6406	0.1	479156
Mo 202.032	493.923	ppb	0.8423	0.2	1668.25
Na 330.237	7551.40	ppb	133.128	1.8	453.609
Ni 231.604	2620.83	ppb	7.0615	0.3	7052.23
Pb 220.353	503.257	ppb	3.0354	0.6	384.375
Sb 206.834	979.352	ppb	3.5871	0.4	623.177
Se 196.026	4887.56	ppb	29.3202	0.6	1200.52
Sn 189.925	5142.46	ppb	7.6900	0.1	2771.57
Sr 216.596	2559.98	ppb	1.7216	0.1	14109.3
Ti 334.941	499.123	ppb	0.7483	0.1	101450

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	5037.60	ppb	11.9270	0.2	2145.09
V 292.401	4986.23	ppb	8.7293	0.2	135857
Zn 206.200	2689.85	ppb	3.7303	0.1	7230.48

CCB (Samp) 5/1/2013, 12:04:50 AM Rack 1, Tube 2  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2719	ppb	0.2086	76.7	-38.1450
Al 308.215	-41.9116	ppb	3.4966	8.3	57.7982
As 188.980	2.2656	ppb	4.9354	217.8	-0.6405
B 249.678	0.9596	ppb	0.4501	46.9	53.6407
Ba 389.178	0.0593	ppb	0.4556	768.2	-19.9175
Be 313.042	0.0088	ppb	0.0313	356.1	-73.0842
Ca 370.602	-49.30	ppb	1.786	3.6	-78.45
Cd 226.502	0.1036	ppb	0.2719	262.5	14.0377
Co 228.615	-1.2339	ppb	0.1713	13.9	-12.7100
Cr 267.716	0.3192	ppb	0.2176	68.2	14.4795
Cu 324.754	0.0627	ppb	0.2688	428.4	88.3998
Fe 271.441	-11.3178	ppb	8.9628	79.2	-3.5060
K 766.491	0.8244	ppb	0.6662	80.8	2142.11
Mg 279.078	-44.4354	ppb	1.3137	3.0	21.6344
Mn 257.610	0.2379	ppb	0.2854	120.0	30.6800
Mo 202.032	0.4676	ppb	0.2438	52.1	3.9797
Na 330.237	-156.118	ppb	47.2020	30.2	-0.5214
Ni 231.604	0.3057	ppb	0.7656	250.5	1.0168
Pb 220.353	2.2489	ppb	2.6558	118.1	3.7690
Sb 206.834	3.4277	ppb	5.7593	168.0	4.5469
Se 196.026	3.3863	ppb	2.4518	72.4	3.0179
Sn 189.925	-2.1367	ppb	3.9038	182.7	-1.3795
Sr 216.596	-0.1871	ppb	0.4496	240.2	-6.4487
Ti 334.941	-0.0399	ppb	0.0062	15.6	-55.1129
Tl 190.794	2.7701	ppb	3.6512	131.8	-0.2935
V 292.401	0.3726	ppb	0.1550	41.6	15.6934
Zn 206.200	-0.1280	ppb	0.8275	646.7	5.5293

680-89748-c-2-c (Samp) 5/1/2013, 12:10:17 AM Rack 2, Tube 22  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1986b	ppb	0.3687	185.6	-35.9758
Al 308.215	17.5298b	ppb	1.3702	7.8	235.925
As 188.980	6.6285b	ppb	12.4303	187.5	0.7125
B 249.678	46.5400b	ppb	0.5023	1.1	423.651
Ba 389.178	42.1889b	ppb	0.6310	1.5	639.138
Be 313.042	0.0015b	ppb	0.0086	585.9	-93.3579
Ca 370.602	622.7b	ppb	15.10	2.4	2228
Cd 226.502	0.0617b	ppb	0.1216	197.0	12.8857
Co 228.615	-0.5934b	ppb	0.1232	20.8	-8.0701
Cr 267.716	0.2371b	ppb	0.1424	60.1	13.9012
Cu 324.754	0.0063b	ppb	0.0397	634.7	84.6132
Fe 271.441	-8.1809b	ppb	9.1042	111.3	-1.3292
K 766.491	124.230b	ppb	2.7799	2.2	16136.1

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	246.219b	ppb	2.1418	0.9	354.204
Mn 257.610	0.4160b	ppb	0.0313	7.5	46.7498
Mo 202.032	-0.1766b	ppb	0.5053	286.1	1.7954
Na 330.237	125490xb	ppb	3543.79	2.8	7425.88
Ni 231.604	-0.1161b	ppb	0.8193	705.7	-0.1096
Pb 220.353	0.5351b	ppb	3.2049	598.9	2.4434
Sb 206.834	-0.0289b	ppb	3.4795	12048.4	2.4795
Se 196.026	-3.3221b	ppb	10.2508	308.6	1.3781
Sn 189.925	-1.2603b	ppb	2.7193	215.8	-0.8832
Sr 216.596	3.7168b	ppb	0.3102	8.3	15.2844
Ti 334.941	-0.0637b	ppb	0.0319	50.1	-65.6384
Tl 190.794	-3.1971b	ppb	4.0730	127.4	-2.8354
V 292.401	0.0484b	ppb	0.1974	407.5	6.1730
Zn 206.200	2.0236b	ppb	0.4543	22.5	11.3300

680-89748-b-3-c (Samp)

5/1/2013, 12:15:45 AM

Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1138b	ppb	0.6787	596.4	-33.4578
Al 308.215	38.9531b	ppb	2.2952	5.9	300.126
As 188.980	5.3487b	ppb	3.4264	64.1	0.3176
B 249.678	33.8362b	ppb	0.7380	2.2	320.536
Ba 389.178	39.2955b	ppb	0.8452	2.2	593.740
Be 313.042	0.0005b	ppb	0.0013	237.5	-94.6346
Ca 370.602	310.4b	ppb	2.995	1.0	1156
Cd 226.502	0.0155b	ppb	0.1336	862.4	11.9723
Co 228.615	-0.4535b	ppb	0.4316	95.2	-7.0580
Cr 267.716	-0.1114b	ppb	0.5215	468.0	8.8404
Cu 324.754	0.2893b	ppb	0.2955	102.1	95.5143
Fe 271.441	-9.7925b	ppb	9.7317	99.4	-2.4398
K 766.491	114.995b	ppb	0.6708	0.6	15088.8
Mg 279.078	150.402b	ppb	4.1211	2.7	244.570
Mn 257.610	0.2926b	ppb	0.0531	18.2	35.7107
Mo 202.032	0.4021b	ppb	0.2943	73.2	3.7590
Na 330.237	124636xb	ppb	1416.15	1.1	7375.37
Ni 231.604	1.2993b	ppb	0.8971	69.0	3.6971
Pb 220.353	6.5501b	ppb	1.2701	19.4	7.0772
Sb 206.834	1.5995b	ppb	3.7693	235.7	3.4464
Se 196.026	8.0859b	ppb	3.3944	42.0	4.1715
Sn 189.925	1.9709b	ppb	2.5883	131.3	0.8592
Sr 216.596	2.4662b	ppb	0.3950	16.0	8.2909
Ti 334.941	0.0115b	ppb	0.0402	350.3	-50.6949
Tl 190.794	1.5862b	ppb	2.4222	152.7	-0.7989
V 292.401	0.0165b	ppb	0.1447	876.8	5.4522
Zn 206.200	1.5427b	ppb	0.8376	54.3	10.0335

lb 680-274576/12-c (Samp)

5/1/2013, 12:21:13 AM

Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1365b	ppb	0.2335	171.1	-34.1293
Al 308.215	-39.9241b	ppb	3.4543	8.7	63.6920

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.4067b	ppb	2.3486	36.7	0.6554
B 249.678	9.9543b	ppb	0.7302	7.3	126.671
Ba 389.178	0.1707b	ppb	0.4164	243.9	-18.1606
Be 313.042	-0.0080b	ppb	0.0137	170.3	-107.077
Ca 370.602	28.04b	ppb	3.518	12.5	187.0
Cd 226.502	-0.0584b	ppb	0.0237	40.6	10.5000
Co 228.615	-0.8639b	ppb	0.2123	24.6	-10.0301
Cr 267.716	0.1304b	ppb	0.4796	367.8	12.3553
Cu 324.754	0.5571b	ppb	0.3515	63.1	105.780
Fe 271.441	-11.5919b	ppb	8.8242	76.1	-3.6941
K 766.491	29.4644b	ppb	0.1240	0.4	5392.13
Mg 279.078	-31.8874b	ppb	6.8271	21.4	35.9926
Mn 257.610	0.0342b	ppb	0.0892	261.1	12.6120
Mo 202.032	-0.9100b	ppb	0.5528	60.8	-0.6925
Na 330.237	125629xb	ppb	319.133	0.3	7434.10
Ni 231.604	0.5168b	ppb	0.6595	127.6	1.5846
Pb 220.353	-1.3432b	ppb	2.0631	153.6	1.0031
Sb 206.834	2.1024b	ppb	3.3684	160.2	3.7470
Se 196.026	10.7542b	ppb	8.4923	79.0	4.8232
Sn 189.925	-1.3613b	ppb	4.2300	310.7	-0.9356
Sr 216.596	0.0647b	ppb	0.4887	754.9	-5.0322
Ti 334.941	-0.0272b	ppb	0.0385	141.8	-58.8901
Tl 190.794	-2.3514b	ppb	4.9782	211.7	-2.4701
V 292.401	-0.1471b	ppb	0.3755	255.3	0.9393
Zn 206.200	2.8200b	ppb	0.4450	15.8	13.4672

Cont Calib Verif (CCV)

5/1/2013, 12:26:40 AM

Rack 2, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.276	ppb	2.0414	0.4	14968.4	101.05527
Al 308.215	4879.19	ppb	8.1990	0.2	15083.7	97.58389
As 188.980	524.347	ppb	6.0934	1.2	163.613	104.86945
B 249.678	513.906	ppb	1.3744	0.3	4212.43	20.55624Q
Ba 389.178	5204.60	ppb	7.4841	0.1	81375.3	104.09209
Be 313.042	524.730	ppb	0.9957	0.2	748779	104.94591
Ca 370.602	5242	ppb	8.811	0.2	17499	104.83159
Cd 226.502	528.681	ppb	1.1105	0.2	10470.5	105.73616
Co 228.615	528.556	ppb	1.7847	0.3	3796.98	105.71123
Cr 267.716	5389.02	ppb	13.4226	0.2	78156.3	107.78039
Cu 324.754	5117.77	ppb	38.6969	0.8	182043	102.35543
Fe 271.441	5014.22	ppb	5.7067	0.1	3526.85	100.28448
K 766.491	9900.70	ppb	10.5733	0.1	1124337	99.00703
Mg 279.078	4971.47	ppb	3.5584	0.1	5733.82	99.42938
Mn 257.610	5503.19	ppb	13.0235	0.2	482701	110.06378
Mo 202.032	498.200	ppb	1.5526	0.3	1682.71	99.64002
Na 330.237	7447.22	ppb	111.347	1.5	447.446	99.29632
Ni 231.604	2638.43	ppb	2.8988	0.1	7099.60	105.53719
Pb 220.353	505.971	ppb	7.2951	1.4	386.432	101.19429
Sb 206.834	992.918	ppb	5.4013	0.5	631.510	39.71670Q
Se 196.026	4890.56	ppb	19.9052	0.4	1201.27	97.81130
Sn 189.925	5213.42	ppb	13.5464	0.3	2809.82	104.26839
Sr 216.596	2574.24	ppb	3.9069	0.2	14187.9	102.96948
Ti 334.941	502.060	ppb	0.7272	0.1	102047	100.41196

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	5054.85	ppb	17.0403	0.3	2152.44	101.09707
V 292.401	5007.42	ppb	3.0278	0.1	136434	100.14839
Zn 206.200	2708.42	ppb	4.2271	0.2	7280.37	108.33674

Cont Calib Blank (CCB)

5/1/2013, 12:32:08 AM

Rack 2, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5269	ppb	0.5362	101.8	-14.4549	0.52688
Al 308.215	-44.0127	ppb	4.9356	11.2	51.4758	-44.01270
As 188.980	-0.2686	ppb	4.0790	1518.7	-1.4347	-0.26859
B 249.678	0.6830	ppb	0.2064	30.2	51.4045	0.68301
Ba 389.178	0.4730	ppb	0.5067	107.1	-13.4502	0.47300
Be 313.042	0.0040	ppb	0.0108	269.8	-80.0548	0.00400
Ca 370.602	-52.74	ppb	3.787	7.2	-89.95	-52.74238
Cd 226.502	-0.1625	ppb	0.0484	29.8	8.7749	-0.16251
Co 228.615	-1.1517	ppb	0.5730	49.7	-12.1149	-1.15173
Cr 267.716	0.0471	ppb	0.0403	85.6	10.5353	0.04707
Cu 324.754	26.4985	ppb	0.3925	1.5	1028.73	26.49852Z
Fe 271.441	-12.8580	ppb	7.9009	61.4	-4.5680	-12.85804
K 766.491	0.6754	ppb	0.1068	15.8	2125.10	0.67540
Mg 279.078	-40.4894	ppb	3.7386	9.2	26.1569	-40.48943
Mn 257.610	0.1048	ppb	0.0763	72.8	19.0156	0.10482
Mo 202.032	0.5724	ppb	0.9018	157.5	4.3361	0.57241
Na 330.237	-151.481	ppb	33.4288	22.1	-0.2422	-151.48141
Ni 231.604	0.7098	ppb	0.3524	49.6	2.1049	0.70983
Pb 220.353	-2.0017	ppb	3.9800	198.8	0.4944	-2.00170
Sb 206.834	0.2409	ppb	3.1330	1300.7	2.6319	0.24086
Se 196.026	7.3511	ppb	7.6445	104.0	3.9892	7.35115
Sn 189.925	-2.9264	ppb	1.2803	43.7	-1.8051	-2.92638
Sr 216.596	0.0452	ppb	0.7973	1764.4	-5.1905	0.04519
Ti 334.941	-0.0607	ppb	0.0141	23.2	-59.3950	-0.06073
Tl 190.794	-2.3385	ppb	4.4113	188.6	-2.4648	-2.33845
V 292.401	0.0420	ppb	0.0930	221.4	6.7245	0.04200
Zn 206.200	2.8386	ppb	0.3416	12.0	13.5164	2.83861

mb 680-274819/1-a (Samp)

5/1/2013, 12:37:35 AM

Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3021	ppb	1.3761	455.6	-21.1275
Al 308.215	42.1008	ppb	1.7621	4.2	309.574
As 188.980	2.8032	ppb	1.3180	47.0	-0.4772
B 249.678	0.8115	ppb	0.7571	93.3	52.3240
Ba 389.178	-0.4838	ppb	0.5958	123.1	-27.2833
Be 313.042	0.0025	ppb	0.0021	85.6	-82.1415
Ca 370.602	194.9	ppb	1.664	0.9	751.1
Cd 226.502	-0.0323	ppb	0.1366	423.4	11.4755
Co 228.615	-1.3017	ppb	0.4038	31.0	-13.1809
Cr 267.716	1.0651	ppb	0.4806	45.1	25.2793
Cu 324.754	1.6712	ppb	0.1185	7.1	145.028
Fe 271.441	43.4155	ppb	4.3379	10.0	34.3009
K 766.491	23.3570	ppb	0.1000	0.4	4699.22

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	549.832	ppb	2.8192	0.5	701.434
Mn 257.610	1.0118	ppb	0.0311	3.1	100.017
Mo 202.032	0.4947	ppb	0.5890	119.1	4.0667
Na 330.237	76.7632	ppb	188.965	246.2	13.2200
Ni 231.604	0.5016	ppb	0.9165	182.7	1.5684
Pb 220.353	-1.2543	ppb	4.3433	346.3	1.0610
Sb 206.834	1.6386	ppb	0.8374	51.1	3.4455
Se 196.026	7.9982	ppb	7.2767	91.0	4.1520
Sn 189.925	20.5138	ppb	4.5464	22.2	10.8282
Sr 216.596	-0.0369	ppb	0.6945	1881.3	-5.5795
Ti 334.941	0.6817	ppb	0.0639	9.4	91.4788
Tl 190.794	0.7897	ppb	3.8093	482.4	-1.1400
V 292.401	-0.0663	ppb	0.2491	375.4	3.8272
Zn 206.200	2.9902	ppb	0.5092	17.0	13.9401

lb 680-274623/13-c (Samp) 5/1/2013, 12:43:02 AM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0707	ppb	0.0878	124.2	-32.1808
Al 308.215	-1.8815	ppb	1.0905	58.0	177.748
As 188.980	-2.9933	ppb	4.9249	164.5	-2.2918
B 249.678	7.3485	ppb	0.2608	3.5	105.475
Ba 389.178	-1.0479	ppb	0.4642	44.3	-36.9159
Be 313.042	-0.0020	ppb	0.0092	462.3	-90.0418
Ca 370.602	88.67	ppb	1.900	2.1	392.9
Cd 226.502	0.2985	ppb	0.1509	50.6	17.8696
Co 228.615	-1.1468	ppb	0.2472	21.6	-12.0718
Cr 267.716	0.8822	ppb	0.1630	18.5	22.7369
Cu 324.754	0.3381	ppb	0.3318	98.1	97.8499
Fe 271.441	3.0548	ppb	3.3914	111.0	6.4139
K 766.491	33.7710	ppb	0.3216	1.0	5881.16
Mg 279.078	116.117	ppb	3.0058	2.6	205.295
Mn 257.610	0.3063	ppb	0.0470	15.3	37.0499
Mo 202.032	0.1317	ppb	0.8702	660.6	2.8396
Na 330.237	19564.1	ppb	77.1961	0.4	1165.05
Ni 231.604	1.8934	ppb	0.3389	17.9	5.2941
Pb 220.353	-0.2206	ppb	2.4145	1094.3	1.8626
Sb 206.834	2.4743	ppb	7.6273	308.3	3.9411
Se 196.026	10.9785	ppb	8.8202	80.3	4.8792
Sn 189.925	22.9178	ppb	2.9074	12.7	12.1283
Sr 216.596	0.1690	ppb	0.9256	547.6	-4.5026
Ti 334.941	0.4508	ppb	0.0585	13.0	43.5139
Tl 190.794	-2.2363	ppb	4.4262	197.9	-2.4233
V 292.401	0.0473	ppb	0.0609	128.7	6.8265
Zn 206.200	4.4854	ppb	0.0513	1.1	17.9536

lcs 680-274819/3-a (Samp) 5/1/2013, 12:48:30 AM Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4055	ppb	0.7246	1.4	1526.44
Al 308.215	5079.99	ppb	17.7363	0.3	15417.6

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	100.383	ppb	6.4820	6.5	30.0126
B 249.678	196.740	ppb	0.8953	0.5	1631.97
Ba 389.178	108.620	ppb	1.1633	1.1	1692.75
Be 313.042	55.3061	ppb	0.2482	0.4	78605.5
Ca 370.602	5298	ppb	23.99	0.5	17456
Cd 226.502	54.9218	ppb	0.4354	0.8	1108.57
Co 228.615	53.8629	ppb	0.7527	1.4	383.075
Cr 267.716	112.852	ppb	1.3979	1.2	1644.45
Cu 324.754	108.336	ppb	0.9866	0.9	3927.22
Fe 271.441	5148.47	ppb	38.4690	0.7	3565.30
K 766.491	4998.37	ppb	29.3117	0.6	569235
Mg 279.078	5056.83	ppb	13.2349	0.3	5839.72
Mn 257.610	570.561	ppb	2.7082	0.5	50070.4
Mo 202.032	101.870	ppb	1.4038	1.4	347.195
Na 330.237	5569.98	ppb	59.3368	1.1	335.224
Ni 231.604	110.491	ppb	0.0436	0.0	297.827
Pb 220.353	49.9800	ppb	2.5921	5.2	39.7670
Sb 206.834	44.7752	ppb	2.2549	5.0	29.9560
Se 196.026	105.957	ppb	16.1364	15.2	28.2933
Sn 189.925	218.456	ppb	1.5588	0.7	117.524
Sr 216.596	106.633	ppb	0.3207	0.3	583.645
Ti 334.941	104.537	ppb	0.4096	0.4	21156.9
Tl 190.794	43.3235	ppb	3.7514	8.7	16.7989
V 292.401	104.190	ppb	0.7081	0.7	2824.05
Zn 206.200	111.149	ppb	0.3660	0.3	305.018

680-89621-a-10-e (Samp)

5/1/2013, 12:53:57 AM

Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2382	ppb	0.6039	253.5	-23.0735
Al 308.215	-6.1607	ppb	2.4776	40.2	164.987
As 188.980	-1.1878	ppb	6.4438	542.5	-1.7244
B 249.678	1.9242	ppb	0.5038	26.2	60.6219
Ba 389.178	2.9284	ppb	0.5855	20.0	25.4068
Be 313.042	0.0016	ppb	0.0016	97.1	-83.5800
Ca 370.602	46.27	ppb	3.227	7.0	187.1
Cd 226.502	0.1065	ppb	0.1997	187.5	14.9052
Co 228.615	-1.0303	ppb	0.3780	36.7	-11.2644
Cr 267.716	1.5800	ppb	0.3316	21.0	32.5936
Cu 324.754	17.5595	ppb	0.3219	1.8	710.683
Fe 271.441	369.706	ppb	7.8017	2.1	259.801
K 766.491	22.0643	ppb	0.2395	1.1	4551.73
Mg 279.078	-19.4910	ppb	2.5920	13.3	48.8369
Mn 257.610	4.3287	ppb	0.0717	1.7	389.948
Mo 202.032	3.5066	ppb	0.7749	22.1	14.2412
Na 330.237	118.078	ppb	69.6269	59.0	15.5756
Ni 231.604	1.0095	ppb	0.5231	51.8	2.9308
Pb 220.353	-0.6618	ppb	1.1032	166.7	1.5154
Sb 206.834	1.3008	ppb	3.8468	295.7	3.2328
Se 196.026	6.1006	ppb	16.7200	274.1	3.6835
Sn 189.925	27.1984	ppb	5.3637	19.7	14.4319
Sr 216.596	0.1476	ppb	0.3902	264.3	-4.5105
Ti 334.941	2.1027	ppb	0.0072	0.3	379.375



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	0.3118	ppb	3.8220	1225.8	-1.3559
V 292.401	0.3613	ppb	0.0907	25.1	14.6787
Zn 206.200	44.8871	ppb	0.9581	2.1	126.729

680-89621-a-10-eSD^5 (Samp) 5/1/2013, 12:59:24 AM Rack 2, Tube 31

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3292	ppb	0.3621	110.0	-20.3179
Al 308.215	-36.7771	ppb	1.6929	4.6	73.1494
As 188.980	3.9250	ppb	2.6025	66.3	-0.1216
B 249.678	0.5485	ppb	0.7125	129.9	50.1444
Ba 389.178	0.7554	ppb	0.5378	71.2	-8.9500
Be 313.042	-0.0094	ppb	0.0087	93.1	-99.0650
Ca 370.602	-31.11	ppb	3.249	10.4	-28.89
Cd 226.502	0.1487	ppb	0.0483	32.5	15.0952
Co 228.615	-0.7940	ppb	0.4241	53.4	-9.5363
Cr 267.716	0.0369	ppb	0.4411	1194.9	10.3496
Cu 324.754	3.6147	ppb	0.1436	4.0	214.759
Fe 271.441	68.0285	ppb	1.2745	1.9	51.3371
K 766.491	5.6486	ppb	0.2891	5.1	2689.39
Mg 279.078	-42.2443	ppb	5.3286	12.6	23.8654
Mn 257.610	0.9910	ppb	0.0454	4.6	96.8294
Mo 202.032	0.1100	ppb	1.0487	953.6	2.7573
Na 330.237	-65.7119	ppb	120.968	184.1	4.8007
Ni 231.604	4.7421	ppb	0.1984	4.2	12.9566
Pb 220.353	0.2618	ppb	1.9523	745.7	2.2373
Sb 206.834	-1.0011	ppb	2.4943	249.2	1.8749
Se 196.026	-0.7252	ppb	6.0080	828.4	2.0107
Sn 189.925	7.0479	ppb	1.9289	27.4	3.5709
Sr 216.596	0.1909	ppb	0.5935	310.9	-4.4612
Ti 334.941	0.3924	ppb	0.0064	1.6	32.5277
Tl 190.794	3.4958	ppb	4.3724	125.1	0.0126
V 292.401	0.0479	ppb	0.2410	503.6	6.9443
Zn 206.200	10.0651	ppb	0.1747	1.7	32.9738

680-89621-a-10-ePDS (Samp) 5/1/2013, 1:04:52 AM Rack 2, Tube 32

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.6633	ppb	0.9368	1.9	1413.76
Al 308.215	1911.07	ppb	9.5578	0.5	5949.86
As 188.980	1928.22	ppb	12.8583	0.7	602.872
B 249.678	967.227	ppb	3.7629	0.4	7900.07
Ba 389.178	2101.51	ppb	7.3505	0.3	32843.1
Be 313.042	52.6374	ppb	0.1767	0.3	74992.0
Ca 370.602	5287	ppb	26.60	0.5	18132
Cd 226.502	52.1572	ppb	0.5175	1.0	1045.82
Co 228.615	528.875	ppb	3.3714	0.6	3802.50
Cr 267.716	218.150	ppb	0.4328	0.2	3172.07
Cu 324.754	276.103	ppb	0.3644	0.1	9885.87
Fe 271.441	1367.39	ppb	5.7141	0.4	975.841
K 766.491	4894.94	ppb	18.6802	0.4	557024

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	4909.00	ppb	20.0391	0.4	5683.69
Mn 257.610	554.272	ppb	1.5859	0.3	48646.2
Mo 202.032	517.462	ppb	2.7153	0.5	1756.74
Na 330.237	5135.14	ppb	89.8889	1.8	305.926
Ni 231.604	520.749	ppb	2.4371	0.5	1401.79
Pb 220.353	498.547	ppb	6.9308	1.4	385.032
Sb 206.834	469.750	ppb	2.7421	0.6	281.964
Se 196.026	1932.42	ppb	6.1772	0.3	475.736
Sn 189.925	1057.63	ppb	3.8213	0.4	570.018
Sr 216.596	522.655	ppb	2.2146	0.4	2870.90
Ti 334.941	1013.81	ppb	3.1481	0.3	205492
Tl 190.794	2042.66	ppb	1.0033	0.0	868.061
V 292.401	501.257	ppb	1.8211	0.4	13581.4
Zn 206.200	563.713	ppb	0.5913	0.1	1523.04

680-89621-a-10-f ms (Samp) 5/1/2013, 1:10:19 AM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.778	ppb	0.5546	0.5	3111.57
Al 308.215	10226.6	ppb	13.7066	0.1	30851.7
As 188.980	202.630	ppb	11.5446	5.7	61.9599
B 249.678	386.424	ppb	0.7632	0.2	3159.88
Ba 389.178	221.682	ppb	1.5224	0.7	3476.08
Be 313.042	111.460	ppb	0.0501	0.0	158503
Ca 370.602	10717	ppb	9.198	0.1	35166
Cd 226.502	109.001	ppb	0.5225	0.5	2189.37
Co 228.615	109.185	ppb	0.2492	0.2	780.399
Cr 267.716	226.377	ppb	0.2444	0.1	3288.61
Cu 324.754	235.602	ppb	2.5716	1.1	8441.57
Fe 271.441	10714.9	ppb	13.1835	0.1	7415.15
K 766.491	9712.91	ppb	10.2213	0.1	1104212
Mg 279.078	10059.9	ppb	12.8780	0.1	11544.0
Mn 257.610	1141.25	ppb	0.9316	0.1	100142
Mo 202.032	210.992	ppb	1.4504	0.7	716.545
Na 330.237	10382.9	ppb	112.151	1.1	616.859
Ni 231.604	220.886	ppb	1.3995	0.6	595.213
Pb 220.353	103.407	ppb	2.1504	2.1	80.1347
Sb 206.834	100.540	ppb	0.5628	0.6	64.0302
Se 196.026	209.450	ppb	7.2407	3.5	53.7938
Sn 189.925	442.238	ppb	2.9280	0.7	238.146
Sr 216.596	212.184	ppb	0.5439	0.3	1166.71
Ti 334.941	212.469	ppb	0.0601	0.0	43049.2
Tl 190.794	78.8188	ppb	10.1969	12.9	31.7222
V 292.401	210.470	ppb	0.1879	0.1	5697.65
Zn 206.200	261.733	ppb	0.3547	0.1	710.335

680-89621-a-10-g msd (Samp) 5/1/2013, 1:15:46 AM Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	104.891	ppb	0.6703	0.6	3085.24
Al 308.215	10188.1	ppb	8.4996	0.1	30736.2

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	205.189	ppb	1.1500	0.6	62.7625
B 249.678	383.572	ppb	0.1768	0.0	3136.78
Ba 389.178	221.573	ppb	1.0265	0.5	3474.32
Be 313.042	111.250	ppb	0.0888	0.1	158204
Ca 370.602	10707	ppb	6.287	0.1	35136
Cd 226.502	109.287	ppb	0.3805	0.3	2194.96
Co 228.615	108.429	ppb	0.6046	0.6	774.973
Cr 267.716	226.841	ppb	0.5011	0.2	3295.35
Cu 324.754	235.204	ppb	1.2779	0.5	8427.40
Fe 271.441	10689.4	ppb	13.3844	0.1	7397.48
K 766.491	9688.85	ppb	9.4051	0.1	1101482
Mg 279.078	10014.3	ppb	10.3259	0.1	11492.0
Mn 257.610	1140.23	ppb	1.2264	0.1	100053
Mo 202.032	210.785	ppb	0.4281	0.2	715.846
Na 330.237	10303.1	ppb	32.1618	0.3	612.154
Ni 231.604	216.592	ppb	1.8199	0.8	583.664
Pb 220.353	100.964	ppb	4.7253	4.7	78.2569
Sb 206.834	94.3711	ppb	9.2193	9.8	60.3166
Se 196.026	194.240	ppb	2.9664	1.5	50.0672
Sn 189.925	443.776	ppb	3.1322	0.7	238.975
Sr 216.596	212.430	ppb	1.4238	0.7	1168.22
Ti 334.941	212.099	ppb	0.4326	0.2	42974.4
Tl 190.794	76.5333	ppb	4.9803	6.5	30.7507
V 292.401	209.721	ppb	0.5239	0.2	5677.45
Zn 206.200	261.903	ppb	1.2157	0.5	710.791

680-89621-a-11-c (Samp)

5/1/2013, 1:21:14 AM

Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1022	ppb	0.4274	418.3	-27.0522
Al 308.215	-27.5659	ppb	0.2225	0.8	100.771
As 188.980	-2.7921	ppb	7.6082	272.5	-2.2262
B 249.678	1.7681	ppb	0.6989	39.5	60.1936
Ba 389.178	-0.6174	ppb	0.8386	135.8	-30.4801
Be 313.042	-0.0057	ppb	0.0039	68.6	-93.7460
Ca 370.602	-23.58	ppb	0.5314	2.3	8.441
Cd 226.502	0.0683	ppb	0.1502	220.0	13.3607
Co 228.615	-0.8470	ppb	1.1244	132.8	-9.9041
Cr 267.716	0.5805	ppb	0.0973	16.8	18.2685
Cu 324.754	-0.1637	ppb	0.2119	129.5	80.2730
Fe 271.441	-1.3531	ppb	4.1399	306.0	3.3894
K 766.491	17.9193	ppb	0.1657	0.9	4082.21
Mg 279.078	-34.3267	ppb	1.8139	5.3	33.1684
Mn 257.610	0.0541	ppb	0.1012	187.2	14.5967
Mo 202.032	0.0939	ppb	0.8090	861.9	2.7113
Na 330.237	-51.9002	ppb	65.1527	125.5	5.6284
Ni 231.604	0.8122	ppb	0.2311	28.5	2.3802
Pb 220.353	-3.1831	ppb	1.4385	45.2	-0.4174
Sb 206.834	0.1430	ppb	2.2305	1560.2	2.5351
Se 196.026	1.6428	ppb	10.2468	623.7	2.5909
Sn 189.925	21.8185	ppb	3.9484	18.1	11.5323
Sr 216.596	-0.2439	ppb	0.5349	219.3	-6.7671
Ti 334.941	1.7497	ppb	0.0333	1.9	307.709

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	0.5799	ppb	3.0162	520.2	-1.2235
V 292.401	0.1050	ppb	0.1699	161.8	8.5101
Zn 206.200	3.6408	ppb	0.4775	13.1	15.6754

**680-89621-a-12-c (Samp)**      **5/1/2013, 1:26:42 AM**      **Rack 2, Tube 36**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5328	ppb	0.2607	48.9	-46.0071
Al 308.215	6.6888	ppb	0.8164	12.2	203.386
As 188.980	0.0315	ppb	5.3175	16896.3	-1.3420
B 249.678	3.6261	ppb	0.7950	21.9	74.6825
Ba 389.178	-0.5776	ppb	0.1423	24.6	-29.5210
Be 313.042	0.0048	ppb	0.0143	299.3	-78.8725
Ca 370.602	3.804	ppb	1.195	31.4	55.73
Cd 226.502	0.8004	ppb	0.0837	10.5	28.4326
Co 228.615	-0.0158	ppb	0.3000	1899.3	-3.8946
Cr 267.716	6.4878	ppb	0.2503	3.9	103.821
Cu 324.754	39.0409	ppb	0.2785	0.7	1474.84
Fe 271.441	282.255	ppb	6.5644	2.3	199.393
K 766.491	20.2494	ppb	0.6353	3.1	4346.62
Mg 279.078	-26.7833	ppb	1.8049	6.7	40.8043
Mn 257.610	0.7109	ppb	0.0510	7.2	72.5437
Mo 202.032	0.1386	ppb	0.8620	621.9	2.8279
Na 330.237	-24.6366	ppb	71.7232	291.1	8.1919
Ni 231.604	6.0668	ppb	1.2102	19.9	16.5277
Pb 220.353	19.6153	ppb	5.0902	25.9	17.1406
Sb 206.834	0.9719	ppb	4.2936	441.8	3.0848
Se 196.026	11.6039	ppb	8.7423	75.3	5.0311
Sn 189.925	22.7630	ppb	1.1722	5.1	12.0416
Sr 216.596	-0.1771	ppb	0.5865	331.1	-6.4662
Ti 334.941	3.0545	ppb	0.1097	3.6	572.492
Tl 190.794	-4.5334	ppb	2.1608	47.7	-3.4060
V 292.401	-0.1200	ppb	0.1628	135.7	2.3227
Zn 206.200	738.621	ppb	12.5841	1.7	1994.47

**Cont Calib Verif (CCV)**      **5/1/2013, 1:32:10 AM**      **Rack 2, Tube 37**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.088	ppb	3.3497	0.7	14814.4	100.01765
Al 308.215	4860.14	ppb	15.0973	0.3	15025.2	97.20282
As 188.980	517.317	ppb	8.4703	1.6	161.405	103.46348
B 249.678	508.431	ppb	2.8492	0.6	4168.04	20.33725Q
Ba 389.178	5175.13	ppb	20.8023	0.4	80914.4	103.50269
Be 313.042	521.129	ppb	2.2062	0.4	743646	104.22573
Ca 370.602	5224	ppb	22.74	0.4	17442	104.48167
Cd 226.502	524.702	ppb	2.6930	0.5	10391.9	104.94045
Co 228.615	524.819	ppb	3.5840	0.7	3770.15	104.96379
Cr 267.716	5342.92	ppb	23.8427	0.4	77487.6	106.85841
Cu 324.754	5050.13	ppb	13.2169	0.3	179637	101.00253
Fe 271.441	4988.77	ppb	29.5154	0.6	3508.99	99.77532
K 766.491	9844.15	ppb	45.8111	0.5	1117927	98.44152

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	4956.36	ppb	17.1586	0.3	5716.69	99.12730
Mn 257.610	5459.62	ppb	25.8860	0.5	478880	109.19246
Mo 202.032	494.436	ppb	2.7510	0.6	1669.99	98.88711
Na 330.237	7597.44	ppb	98.5682	1.3	456.332	101.29913
Ni 231.604	2624.67	ppb	15.7170	0.6	7062.56	104.98676
Pb 220.353	504.027	ppb	4.2098	0.8	384.971	100.80545
Sb 206.834	973.350	ppb	8.5370	0.9	619.540	38.93402Q
Se 196.026	4841.44	ppb	16.9146	0.3	1189.23	96.82873
Sn 189.925	5168.83	ppb	26.4773	0.5	2785.79	103.37668
Sr 216.596	2561.05	ppb	11.8045	0.5	14115.2	102.44199
Ti 334.941	498.783	ppb	2.1439	0.4	101381	99.75668
Tl 190.794	5021.31	ppb	22.9262	0.5	2138.16	100.42610
V 292.401	4985.69	ppb	18.9288	0.4	135843	99.71390
Zn 206.200	2690.88	ppb	9.6891	0.4	7233.26	107.63523

Cont Calib Blank (CCB)

5/1/2013, 1:37:37 AM

Rack 2, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0434	ppb	0.3494	805.8	-31.3634	-0.04337
Al 308.215	-43.5877	ppb	2.3949	5.5	52.7616	-43.58769
As 188.980	-0.2211	ppb	6.4717	2927.4	-1.4197	-0.22107
B 249.678	1.3345	ppb	0.0521	3.9	56.6860	1.33449
Ba 389.178	-0.4207	ppb	1.4878	353.6	-27.4246	-0.42072
Be 313.042	-0.0010	ppb	0.0105	1017.3	-87.1018	-0.00103
Ca 370.602	-51.61	ppb	0.4810	0.9	-86.78	-51.60501
Cd 226.502	0.1705	ppb	0.0762	44.7	15.3646	0.17047
Co 228.615	-0.9054	ppb	0.6376	70.4	-10.3464	-0.90544
Cr 267.716	0.2621	ppb	0.3429	130.8	13.6514	0.26214
Cu 324.754	-0.2465	ppb	0.2436	98.8	77.4076	-0.24651
Fe 271.441	-8.9133	ppb	7.3534	82.5	-1.8327	-8.91330
K 766.491	0.3997	ppb	0.2745	68.7	2094.03	0.39969
Mg 279.078	-47.9455	ppb	3.7861	7.9	17.6093	-47.94545
Mn 257.610	0.1626	ppb	0.1023	62.9	24.0732	0.16258
Mo 202.032	0.8809	ppb	0.4132	46.9	5.3815	0.88085
Na 330.237	-103.665	ppb	101.886	98.3	2.5780	-103.66524
Ni 231.604	0.1841	ppb	1.0776	585.4	0.6877	0.18406
Pb 220.353	0.5500	ppb	3.5127	638.7	2.4603	0.54998
Sb 206.834	-0.2450	ppb	3.1557	1288.0	2.3408	-0.24500
Se 196.026	3.5619	ppb	8.3596	234.7	3.0609	3.56192
Sn 189.925	0.0693	ppb	1.0520	1517.7	-0.1905	0.06932
Sr 216.596	-0.1328	ppb	0.1309	98.5	-6.1425	-0.13283
Ti 334.941	-0.0192	ppb	0.0378	196.8	-50.9291	-0.01923
Tl 190.794	-3.1741	ppb	4.1966	132.2	-2.8198	-3.17411
V 292.401	0.2202	ppb	0.0805	36.6	11.5650	0.22017
Zn 206.200	0.2161	ppb	0.3178	147.1	6.4550	0.21607

680-89621-a-13-c (Samp)

5/1/2013, 1:43:05 AM

Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1806	ppb	0.3834	212.3	-33.1579
Al 308.215	29.7386	ppb	4.0709	13.7	295.230

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	8.8869	ppb	6.3790	71.8	1.5673
B 249.678	3.2865	ppb	0.2933	8.9	64.4141
Ba 389.178	-0.3960	ppb	0.3475	87.8	-22.3543
Be 313.042	-0.0011	ppb	0.0089	795.6	-177.526
Ca 370.602	316.5	ppb	1.590	0.5	1165
Cd 226.502	0.0813	ppb	0.3131	385.3	13.6628
Co 228.615	-1.0523	ppb	0.2321	22.1	-25.6426
Cr 267.716	1.4481	ppb	0.2281	15.8	31.6141
Cu 324.754	1.4999	ppb	0.3504	23.4	145.626
Fe 271.441	60.1394	ppb	6.3918	10.6	46.8568
K 766.491	29.2863	ppb	0.4325	1.5	5371.99
Mg 279.078	-19.2569	ppb	2.0214	10.5	50.1874
Mn 257.610	0.7935	ppb	0.0125	1.6	79.5305
Mo 202.032	958.005	ppb	8.1112	0.8	3252.29
Na 330.237	35457.4	ppb	339.220	1.0	2104.55
Ni 231.604	0.5799	ppb	0.6794	117.2	1.6288
Pb 220.353	-0.7149	ppb	1.2350	172.7	0.1780
Sb 206.834	1.8290	ppb	0.7815	42.7	1.6424
Se 196.026	8.3303	ppb	4.8065	57.7	4.2304
Sn 189.925	27.4657	ppb	0.5554	2.0	14.5830
Sr 216.596	-1.3258	ppb	0.3026	22.8	-28.4310
Ti 334.941	4.8284	ppb	0.0420	0.9	930.356
Tl 190.794	-1.1538	ppb	6.2322	540.2	-2.8882
V 292.401	0.1776	ppb	0.0879	49.5	-210.802
Zn 206.200	118.176	ppb	1.2454	1.1	324.041

680-89621-a-14-c (Samp)

5/1/2013, 1:48:32 AM

Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3159	ppb	0.4698	148.7	-39.4605
Al 308.215	-26.8690	ppb	1.7136	6.4	102.906
As 188.980	-4.2134	ppb	1.8120	43.0	-2.6717
B 249.678	0.7273	ppb	0.4873	67.0	51.7360
Ba 389.178	-1.1518	ppb	0.2329	20.2	-38.8195
Be 313.042	-0.0029	ppb	0.0026	88.9	-89.9590
Ca 370.602	-8.034	ppb	4.045	50.3	61.83
Cd 226.502	0.0808	ppb	0.1492	184.7	13.6082
Co 228.615	-0.6095	ppb	0.3971	65.2	-8.2212
Cr 267.716	0.8199	ppb	0.1886	23.0	21.7433
Cu 324.754	1.2965	ppb	0.1573	12.1	132.184
Fe 271.441	-1.1069	ppb	2.3716	214.3	3.5781
K 766.491	19.3750	ppb	0.4366	2.3	4247.50
Mg 279.078	-40.9157	ppb	4.6513	11.4	25.6284
Mn 257.610	0.0900	ppb	0.0345	38.3	17.7628
Mo 202.032	2.6372	ppb	0.2992	11.3	11.3391
Na 330.237	109.663	ppb	103.947	94.8	15.1766
Ni 231.604	1.1616	ppb	1.1883	102.3	3.3200
Pb 220.353	-0.0720	ppb	2.8153	3908.1	1.9770
Sb 206.834	3.1960	ppb	1.5399	48.2	4.3624
Se 196.026	5.7452	ppb	9.7246	169.3	3.5959
Sn 189.925	21.9634	ppb	1.1139	5.1	11.6105
Sr 216.596	-0.3907	ppb	0.6315	161.6	-7.6279
Ti 334.941	2.1441	ppb	0.0429	2.0	387.667

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1.9387	ppb	3.1255	161.2	-0.6470
V 292.401	0.1417	ppb	0.1667	117.6	9.0633
Zn 206.200	4.8244	ppb	1.0455	21.7	18.8614

**680-89621-a-15-c (Samp)**      **5/1/2013, 1:53:59 AM**      **Rack 2, Tube 41**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3950	ppb	0.8009	202.8	-41.8108
Al 308.215	-16.5764	ppb	1.5988	9.6	133.704
As 188.980	4.3409	ppb	2.2466	51.8	0.0092
B 249.678	0.3245	ppb	0.3174	97.8	48.4763
Ba 389.178	-0.1100	ppb	0.6538	594.4	-22.5472
Be 313.042	-0.0098	ppb	0.0022	22.3	-99.5563
Ca 370.602	-20.43	ppb	2.238	11.0	19.00
Cd 226.502	0.0860	ppb	0.0301	35.0	13.7151
Co 228.615	-0.9372	ppb	0.5813	62.0	-10.5489
Cr 267.716	0.6967	ppb	0.2588	37.2	19.9529
Cu 324.754	-0.0504	ppb	0.1626	322.8	84.2922
Fe 271.441	-0.7721	ppb	5.9824	774.8	3.7925
K 766.491	18.5518	ppb	0.5261	2.8	4153.86
Mg 279.078	-37.8494	ppb	5.5777	14.7	29.1325
Mn 257.610	0.1291	ppb	0.0686	53.2	21.1820
Mo 202.032	0.7950	ppb	0.4481	56.4	5.0898
Na 330.237	18.7191	ppb	46.9493	250.8	9.8020
Ni 231.604	0.4286	ppb	0.4187	97.7	1.3481
Pb 220.353	-0.6507	ppb	0.4980	76.5	1.5330
Sb 206.834	-0.1761	ppb	4.1515	2357.6	2.3404
Se 196.026	3.7678	ppb	8.8129	233.9	3.1115
Sn 189.925	25.9477	ppb	5.0178	19.3	13.7579
Sr 216.596	0.1937	ppb	0.3590	185.3	-4.3203
Ti 334.941	1.5605	ppb	0.0397	2.5	269.368
Tl 190.794	0.4927	ppb	2.7453	557.2	-1.2603
V 292.401	0.1482	ppb	0.2625	177.2	9.7591
Zn 206.200	3.1101	ppb	0.5057	16.3	14.2457

**680-89621-a-16-c (Samp)**      **5/1/2013, 1:59:26 AM**      **Rack 2, Tube 42**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3309	ppb	0.3282	99.2	-40.9318
Al 308.215	14.1090	ppb	4.3248	30.7	226.496
As 188.980	1.7457	ppb	5.2019	298.0	-0.8062
B 249.678	2.6950	ppb	0.9355	34.7	66.7077
Ba 389.178	4.0485	ppb	0.6550	16.2	43.0516
Be 313.042	-0.0016	ppb	0.0077	490.6	-91.0133
Ca 370.602	313.1	ppb	2.848	0.9	1109
Cd 226.502	0.1191	ppb	0.1549	130.1	15.0778
Co 228.615	-0.2850	ppb	0.3976	139.5	-6.3716
Cr 267.716	2.8149	ppb	0.1044	3.7	50.5470
Cu 324.754	1380.41	ppb	9.1119	0.7	49186.3
Fe 271.441	332.480	ppb	3.8907	1.2	234.136
K 766.491	26.4657	ppb	0.2247	0.8	5050.93

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-6.7847	ppb	1.6258	24.0	63.5066
Mn 257.610	4.6384	ppb	0.0738	1.6	417.115
Mo 202.032	36.2023	ppb	0.8995	2.5	125.163
Na 330.237	-85.0685	ppb	60.1288	70.7	3.9346
Ni 231.604	3.6935	ppb	0.4201	11.4	10.1455
Pb 220.353	155.982	ppb	1.0019	0.6	122.163
Sb 206.834	2.5968	ppb	1.0670	41.1	3.9080
Se 196.026	12.5061	ppb	2.1299	17.0	5.2537
Sn 189.925	56.3290	ppb	3.2428	5.8	30.1323
Sr 216.596	0.3197	ppb	0.3671	114.8	-5.2274
Ti 334.941	3.9304	ppb	0.0927	2.4	748.061
Tl 190.794	1.0345	ppb	4.5411	439.0	-1.0789
V 292.401	0.0499	ppb	0.0423	84.8	-1.3179
Zn 206.200	290.964	ppb	2.5102	0.9	789.245

680-89621-a-17-c (Samp)

5/1/2013, 2:04:54 AM

Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4503	ppb	0.2286	50.8	-16.9082
Al 308.215	13.2777	ppb	0.2479	1.9	223.502
As 188.980	-4.0605	ppb	2.0108	49.5	-2.6273
B 249.678	45.4841	ppb	0.1138	0.3	414.293
Ba 389.178	1.4744	ppb	0.3072	20.8	2.7377
Be 313.042	-0.0125	ppb	0.0066	53.3	-104.477
Ca 370.602	274.8	ppb	5.012	1.8	983.0
Cd 226.502	0.2376	ppb	0.1971	82.9	17.3528
Co 228.615	-0.6869	ppb	0.2268	33.0	-8.9267
Cr 267.716	8.9611	ppb	0.1115	1.2	139.707
Cu 324.754	193.060	ppb	0.7744	0.4	6952.63
Fe 271.441	302.920	ppb	6.3534	2.1	213.660
K 766.491	78.8237	ppb	1.0204	1.3	10993.1
Mg 279.078	21.2145	ppb	3.5424	16.7	95.6510
Mn 257.610	4.9353	ppb	0.0430	0.9	443.185
Mo 202.032	14.8608	ppb	0.7710	5.2	52.7678
Na 330.237	134.580	ppb	148.039	110.0	16.9283
Ni 231.604	4.5667	ppb	1.1573	25.3	12.4947
Pb 220.353	3.4791	ppb	2.9199	83.9	4.6852
Sb 206.834	5.0042	ppb	5.0275	100.5	5.4926
Se 196.026	-2.5415	ppb	5.6530	222.4	1.5674
Sn 189.925	29.5792	ppb	2.4919	8.4	15.7147
Sr 216.596	0.0450	ppb	0.2405	535.0	-5.5206
Ti 334.941	3.5228	ppb	0.0546	1.5	667.604
Tl 190.794	-1.8962	ppb	6.9124	364.5	-2.3024
V 292.401	0.2938	ppb	0.2728	92.8	10.1124
Zn 206.200	287.880	ppb	2.4677	0.9	780.923

680-89621-a-18-c (Samp)

5/1/2013, 2:10:21 AM

Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2797	ppb	0.1707	61.0	-38.4014
Al 308.215	-15.5289	ppb	1.8500	11.9	136.855



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.7293	ppb	2.9211	400.5	-1.5834
B 249.678	1.4954	ppb	0.1384	9.3	57.9161
Ba 389.178	-0.0171	ppb	0.1306	762.7	-21.0450
Be 313.042	-0.0119	ppb	0.0072	60.7	-102.576
Ca 370.602	153.9	ppb	0.7486	0.5	613.3
Cd 226.502	0.3290	ppb	0.1553	47.2	18.5717
Co 228.615	-0.7217	ppb	0.5108	70.8	-9.0036
Cr 267.716	0.5860	ppb	0.2321	39.6	18.3348
Cu 324.754	12.6064	ppb	0.1625	1.3	534.036
Fe 271.441	26.0531	ppb	1.5762	6.1	22.3259
K 766.491	19.5566	ppb	0.3853	2.0	4267.84
Mg 279.078	-30.6148	ppb	6.2868	20.5	37.3185
Mn 257.610	0.6574	ppb	0.0530	8.1	67.5780
Mo 202.032	0.9709	ppb	0.1608	16.6	5.6832
Na 330.237	8.8192	ppb	69.9226	792.8	9.3956
Ni 231.604	0.1068	ppb	1.6771	1570.2	0.4848
Pb 220.353	2.1888	ppb	2.0324	92.9	3.7197
Sb 206.834	2.7876	ppb	2.3906	85.8	4.1171
Se 196.026	-1.0957	ppb	9.0917	829.8	1.9206
Sn 189.925	23.4445	ppb	3.6698	15.7	12.4082
Sr 216.596	1.1983	ppb	0.5171	43.2	1.2682
Ti 334.941	2.1200	ppb	0.0315	1.5	382.937
Tl 190.794	2.1015	ppb	3.3005	157.0	-0.5795
V 292.401	0.1146	ppb	0.3157	275.6	8.7113
Zn 206.200	134.636	ppb	0.4789	0.4	368.359

Cont Calib Verif (CCV)

5/1/2013, 2:15:49 AM

Rack 3, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.438	ppb	1.4461	0.3	14706.1	99.28758
Al 308.215	4840.75	ppb	17.2740	0.4	14964.9	96.81501
As 188.980	516.879	ppb	3.9965	0.8	161.261	103.37581
B 249.678	502.749	ppb	2.3102	0.5	4121.96	20.10998Q
Ba 389.178	5125.22	ppb	18.6187	0.4	80133.8	102.50439
Be 313.042	516.549	ppb	1.9608	0.4	737112	103.30981
Ca 370.602	5176	ppb	22.44	0.4	17284	103.52103
Cd 226.502	517.956	ppb	2.4148	0.5	10258.4	103.59116
Co 228.615	519.288	ppb	1.9927	0.4	3730.35	103.85764
Cr 267.716	5287.73	ppb	25.0746	0.5	76687.2	105.75455
Cu 324.754	5012.56	ppb	5.7663	0.1	178302	100.25118
Fe 271.441	4934.11	ppb	22.9402	0.5	3470.72	98.68226
K 766.491	9773.16	ppb	22.2977	0.2	1109882	97.73158
Mg 279.078	4922.39	ppb	33.7270	0.7	5678.10	98.44776
Mn 257.610	5402.65	ppb	22.4955	0.4	473882	108.05294
Mo 202.032	491.494	ppb	1.8574	0.4	1660.09	98.29871
Na 330.237	7568.71	ppb	241.735	3.2	454.654	100.91614
Ni 231.604	2600.50	ppb	10.9614	0.4	6997.52	104.02016
Pb 220.353	501.082	ppb	2.3512	0.5	382.751	100.21635
Sb 206.834	964.780	ppb	7.4935	0.8	614.063	38.59122Q
Se 196.026	4825.13	ppb	18.8760	0.4	1185.22	96.50264
Sn 189.925	5096.83	ppb	6.5412	0.1	2746.98	101.93664
Sr 216.596	2538.47	ppb	10.0472	0.4	13990.7	101.53867
Ti 334.941	493.973	ppb	2.2139	0.4	100403	98.79455

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	4956.62	ppb	38.6764	0.8	2110.62	99.13239
V 292.401	4946.36	ppb	15.3794	0.3	134772	98.92717
Zn 206.200	2667.42	ppb	15.1689	0.6	7170.28	106.69699

Cont Calib Blank (CCB)

5/1/2013, 2:21:16 AM

Rack 3, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5023	ppb	0.4617	91.9	-15.1654	0.50227
Al 308.215	-39.9523	ppb	1.9234	4.8	63.6991	-39.95228
As 188.980	6.7739	ppb	4.7788	70.5	0.7726	6.77389
B 249.678	0.4398	ppb	0.5366	122.0	49.4159	0.43977
Ba 389.178	0.6084	ppb	0.3680	60.5	-11.3216	0.60836
Be 313.042	0.0773	ppb	0.0100	13.0	24.7057	0.07733
Ca 370.602	-47.48	ppb	2.694	5.7	-73.06	-47.48289
Cd 226.502	0.1475	ppb	0.1428	96.8	14.9160	0.14746
Co 228.615	-0.6599	ppb	0.0328	5.0	-8.5828	-0.65990
Cr 267.716	0.9247	ppb	0.1525	16.5	23.2578	0.92470
Cu 324.754	0.7873	ppb	0.3402	43.2	114.154	0.78729
Fe 271.441	-6.3605	ppb	7.7750	122.2	-0.0628	-6.36051
K 766.491	2.5760	ppb	0.0984	3.8	2340.77	2.57603
Mg 279.078	-45.0653	ppb	3.9262	8.7	20.8936	-45.06529
Mn 257.610	1.0486	ppb	0.0541	5.2	101.799	1.04859
Mo 202.032	0.3144	ppb	0.5376	171.0	3.4581	0.31435
Na 330.237	-107.378	ppb	80.8351	75.3	2.3590	-107.37800
Ni 231.604	-0.5859	ppb	1.1760	200.7	-1.3802	-0.58591
Pb 220.353	-2.5778	ppb	3.6436	141.3	0.0494	-2.57778
Sb 206.834	3.5101	ppb	2.8889	82.3	4.6032	3.51012
Se 196.026	-1.9486	ppb	4.5147	231.7	1.7111	-1.94856
Sn 189.925	-1.4822	ppb	1.5658	105.6	-1.0267	-1.48218
Sr 216.596	0.5445	ppb	0.2630	48.3	-2.3571	0.54448
Ti 334.941	-0.0034	ppb	0.0243	712.9	-47.6806	-0.00341
Tl 190.794	1.1626	ppb	1.9639	168.9	-0.9759	1.16259
V 292.401	0.9565	ppb	0.1552	16.2	31.6184	0.95650
Zn 206.200	1.3242	ppb	0.3736	28.2	9.4365	1.32418

mb 680-274743/1-a (Samp)

5/1/2013, 2:26:44 AM

Rack 3, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0509	ppb	0.3227	634.4	-31.5848
Al 308.215	-43.4012	ppb	2.9546	6.8	53.2947
As 188.980	2.7436	ppb	4.6657	170.1	-0.4909
B 249.678	1.6438	ppb	0.7833	47.7	59.2202
Ba 389.178	0.0386	ppb	0.0505	130.8	-20.2563
Be 313.042	-0.0238	ppb	0.0041	17.3	-119.458
Ca 370.602	-51.06	ppb	4.199	8.2	-83.52
Cd 226.502	0.0811	ppb	0.1139	140.5	13.5808
Co 228.615	-0.9227	ppb	0.2746	29.8	-10.4567
Cr 267.716	0.1295	ppb	0.3502	270.5	11.7309
Cu 324.754	-0.3716	ppb	0.2804	75.4	72.9481
Fe 271.441	-16.8082	ppb	7.0253	41.8	-7.2959
K 766.491	1.1380	ppb	0.1675	14.7	2177.70

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-47.0038	ppb	6.2028	13.2	18.7166
Mn 257.610	0.0924	ppb	0.0396	42.9	17.9129
Mo 202.032	0.1499	ppb	0.7551	503.7	2.9031
Na 330.237	-110.289	ppb	52.1640	47.3	2.1897
Ni 231.604	0.2279	ppb	0.9394	412.2	0.8068
Pb 220.353	0.9515	ppb	3.4112	358.5	2.7713
Sb 206.834	-0.1205	ppb	1.4525	1204.9	2.4142
Se 196.026	6.8258	ppb	3.6411	53.3	3.8605
Sn 189.925	-4.2499	ppb	2.6701	62.8	-2.5185
Sr 216.596	0.1008	ppb	0.5841	579.3	-4.8332
Ti 334.941	-0.0684	ppb	0.0507	74.1	-60.9214
Tl 190.794	-0.6719	ppb	1.5391	229.1	-1.7553
V 292.401	0.1458	ppb	0.2219	152.2	9.7778
Zn 206.200	-0.1288	ppb	0.1957	151.9	5.5279

ics 680-274743/2-a (Samp) 5/1/2013, 2:32:12 AM Rack 3, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6960	ppb	0.4272	0.8	1475.67
Al 308.215	4966.80	ppb	8.1223	0.2	15078.0
As 188.980	95.5208	ppb	3.2937	3.4	28.4921
B 249.678	198.108	ppb	0.8419	0.4	1643.44
Ba 389.178	105.198	ppb	0.5051	0.5	1638.82
Be 313.042	53.7269	ppb	0.2008	0.4	76358.4
Ca 370.602	5102	ppb	22.77	0.4	16811
Cd 226.502	53.2523	ppb	0.2151	0.4	1075.21
Co 228.615	51.5789	ppb	0.7734	1.5	366.676
Cr 267.716	107.784	ppb	0.5805	0.5	1571.01
Cu 324.754	103.813	ppb	1.2083	1.2	3766.79
Fe 271.441	4978.09	ppb	15.0844	0.3	3447.45
K 766.491	4956.20	ppb	8.0268	0.2	564451
Mg 279.078	4962.38	ppb	5.0613	0.1	5732.28
Mn 257.610	549.897	ppb	2.3342	0.4	48257.4
Mo 202.032	98.7784	ppb	1.9087	1.9	336.735
Na 330.237	5021.41	ppb	145.665	2.9	302.895
Ni 231.604	106.713	ppb	0.2885	0.3	287.650
Pb 220.353	47.2319	ppb	2.9465	6.2	37.6731
Sb 206.834	48.1166	ppb	4.6755	9.7	31.9618
Se 196.026	103.687	ppb	6.0894	5.9	27.7326
Sn 189.925	201.393	ppb	0.6818	0.3	108.326
Sr 216.596	102.309	ppb	0.8226	0.8	559.755
Ti 334.941	100.230	ppb	0.2689	0.3	20283.3
Tl 190.794	35.7144	ppb	3.4655	9.7	13.5696
V 292.401	100.805	ppb	0.3483	0.3	2732.80
Zn 206.200	107.457	ppb	0.8222	0.8	295.084

660-53869-c-8-a (Samp) 5/1/2013, 2:37:41 AM Rack 3, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1520b	ppb	0.3059	201.3	-25.9665
Al 308.215	59.1635b	ppb	0.2954	0.5	360.465

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	4.5273b	ppb	4.7126	104.1	-0.3143
B 249.678	10691.6xb	ppb	21.2988	0.2	86829.9
Ba 389.178	5.2130b	ppb	1.2807	24.6	78.2386
Be 313.042	0.0081b	ppb	0.0057	71.0	-83.3189
Ca 370.602	17801b	ppb	23.26	0.1	60789
Cd 226.502	3.0859b	ppb	0.1109	3.6	77.8759
Co 228.615	1.9589b	ppb	0.5186	26.5	10.3165
Cr 267.716	0.5745b	ppb	0.4557	79.3	17.7811
Cu 324.754	0.8152b	ppb	0.2131	26.1	69.1964
Fe 271.441	2479.53b	ppb	13.3667	0.5	1717.92
K 766.491	22814.1b	ppb	20.3792	0.1	2590979
Mg 279.078	8339.25b	ppb	14.7760	0.2	9605.88
Mn 257.610	25.6517b	ppb	0.0733	0.3	2281.42
Mo 202.032	0.4104b	ppb	1.1865	289.1	3.4712
Na 330.237	160869xb	ppb	210.720	0.1	9515.88
Ni 231.604	5.5261b	ppb	0.7282	13.2	15.4869
Pb 220.353	0.6965b	ppb	3.3439	480.1	2.5498
Sb 206.834	3.0318b	ppb	1.5106	49.8	4.5222
Se 196.026	9.8012b	ppb	3.5604	36.3	4.6853
Sn 189.925	-0.3630b	ppb	1.4286	393.5	-0.4477
Sr 216.596	8.8333b	ppb	1.2235	13.9	45.2363
Ti 334.941	2.0116b	ppb	0.0295	1.5	371.329
Tl 190.794	-6.9494b	ppb	2.8243	40.6	-4.6684
V 292.401	0.4885b	ppb	0.0417	8.5	18.3962
Zn 206.200	8.0614b	ppb	0.9897	12.3	27.8797

660-53869-c-9-a (Samp)

5/1/2013, 2:43:09 AM

Rack 3, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3612	ppb	0.6587	182.4	-40.8636
Al 308.215	1565.93	ppb	9.4772	0.6	4878.28
As 188.980	3.9247	ppb	6.2343	158.8	-0.2592
B 249.678	144.210	ppb	2.6931	1.9	1215.66
Ba 389.178	16.3070	ppb	0.4065	2.5	238.372
Be 313.042	0.1345	ppb	0.0143	10.7	113.502
Ca 370.602	6518	ppb	20.35	0.3	22405
Cd 226.502	0.1817	ppb	0.2399	132.0	16.3408
Co 228.615	-0.2262	ppb	0.5039	222.8	-5.3910
Cr 267.716	6.0303	ppb	0.2952	4.9	97.3258
Cu 324.754	2.8580	ppb	0.2227	7.8	170.225
Fe 271.441	373.665	ppb	1.6557	0.4	262.753
K 766.491	6975.11	ppb	20.5003	0.3	793577
Mg 279.078	2102.23	ppb	10.1413	0.5	2476.58
Mn 257.610	10.3684	ppb	0.0886	0.9	924.569
Mo 202.032	5.0579	ppb	0.5378	10.6	19.4861
Na 330.237	60180.1	ppb	386.078	0.6	3565.47
Ni 231.604	2.9573	ppb	0.8300	28.1	8.2432
Pb 220.353	0.5106	ppb	1.8970	371.6	2.2552
Sb 206.834	-0.2497	ppb	2.7055	1083.6	2.4095
Se 196.026	9.6028	ppb	16.9421	176.4	4.5767
Sn 189.925	-2.4458	ppb	4.0407	165.2	-1.5531
Sr 216.596	65.3134	ppb	0.1465	0.2	357.505
Ti 334.941	9.0218	ppb	0.4661	5.2	1786.10

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-3.1627	ppb	7.6316	241.3	-2.8789
V 292.401	21.0325	ppb	0.2393	1.1	578.872
Zn 206.200	0.4597	ppb	0.1455	31.7	7.1652

**660-53869-a-10-a (Samp)**      **5/1/2013, 2:48:37 AM**      **Rack 3, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7418	ppb	0.3064	41.3	-8.0470
Al 308.215	41.6588	ppb	4.3165	10.4	309.378
As 188.980	1.5747	ppb	3.2917	209.0	-0.9823
B 249.678	129.741	ppb	0.5766	0.4	1098.55
Ba 389.178	1.8782	ppb	0.7360	39.2	12.5854
Be 313.042	-0.0053	ppb	0.0045	84.3	-86.2667
Ca 370.602	5876	ppb	4.228	0.1	20229
Cd 226.502	0.2662	ppb	0.1283	48.2	17.5588
Co 228.615	-0.5330	ppb	0.3139	58.9	-7.7303
Cr 267.716	1.5786	ppb	0.0666	4.2	32.8265
Cu 324.754	1.7174	ppb	0.4411	25.7	131.365
Fe 271.441	202.676	ppb	3.4280	1.7	144.570
K 766.491	6670.10	ppb	0.4016	0.0	758968
Mg 279.078	2068.44	ppb	3.9965	0.2	2438.52
Mn 257.610	9.9373	ppb	0.0645	0.6	886.428
Mo 202.032	6.2683	ppb	0.1583	2.5	23.5964
Na 330.237	59767.4	ppb	369.528	0.6	3541.20
Ni 231.604	1.5683	ppb	2.0350	129.8	4.4978
Pb 220.353	-2.6450	ppb	5.4637	206.6	-0.0190
Sb 206.834	3.1245	ppb	3.6365	116.4	4.4050
Se 196.026	6.5026	ppb	2.1956	33.8	3.8107
Sn 189.925	-3.4959	ppb	2.0030	57.3	-2.1190
Sr 216.596	5.0387	ppb	0.1549	3.1	22.7709
Ti 334.941	0.1729	ppb	0.1018	58.9	-8.6762
Tl 190.794	0.7645	ppb	4.0413	528.6	-1.1903
V 292.401	19.8077	ppb	0.2977	1.5	545.347
Zn 206.200	0.5862	ppb	0.3223	55.0	7.5151

**660-53869-c-11-a (Samp)**      **5/1/2013, 2:54:05 AM**      **Rack 3, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0502	ppb	0.2978	593.3	-31.7910
Al 308.215	-29.9154	ppb	2.9602	9.9	93.7083
As 188.980	1.6775	ppb	5.5398	330.2	-1.9555
B 249.678	33.5257	ppb	1.0112	3.0	317.637
Ba 389.178	8.5316	ppb	0.9430	11.1	166.525
Be 313.042	-0.0198	ppb	0.0094	47.3	-102.054
Ca 370.602	52959	ppb	21.89	0.0	181865
Cd 226.502	0.1761	ppb	0.0175	9.9	16.0232
Co 228.615	-0.3228	ppb	0.0466	14.4	-6.1425
Cr 267.716	-0.1260	ppb	0.1709	135.6	7.9862
Cu 324.754	1.0294	ppb	0.2567	24.9	-16.5631
Fe 271.441	168.970	ppb	13.1268	7.8	121.106
K 766.491	753.190	ppb	0.9898	0.1	87517.3

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	30227.7	ppb	39.9881	0.1	34659.8
Mn 257.610	5.1218	ppb	0.0230	0.4	529.569
Mo 202.032	0.4559	ppb	0.7769	170.4	3.9186
Na 330.237	8661.05	ppb	94.7700	1.1	520.547
Ni 231.604	3.8481	ppb	1.3336	34.7	11.6264
Pb 220.353	-1.9863	ppb	3.9573	199.2	0.5044
Sb 206.834	4.3412	ppb	2.8754	66.2	5.5489
Se 196.026	2.7283	ppb	4.5219	165.7	3.1681
Sn 189.925	-1.6670	ppb	2.4136	144.8	-1.2985
Sr 216.596	94.0056	ppb	1.6075	1.7	518.551
Ti 334.941	-0.0122	ppb	0.0281	231.1	5.6385
Tl 190.794	-5.3636	ppb	5.9008	110.0	-4.2138
V 292.401	0.0850	ppb	0.4164	489.6	8.2916
Zn 206.200	0.3685	ppb	0.8276	224.6	7.7805

660-53869-c-12-a (Samp) 5/1/2013, 2:59:34 AM Rack 3, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4176b	ppb	0.0760	18.2	-43.3492
Al 308.215	26455.1b	ppb	59.0293	0.2	79482.4
As 188.980	25.4532b	ppb	7.4589	29.3	6.4440
B 249.678	10855.1xb	ppb	14.5456	0.1	88152.0
Ba 389.178	80.6542b	ppb	0.3651	0.5	1250.92
Be 313.042	0.5032b	ppb	0.0111	2.2	601.626
Ca 370.602	8695b	ppb	17.91	0.2	29162
Cd 226.502	0.1294b	ppb	0.0528	40.8	24.5379
Co 228.615	-0.0290b	ppb	0.2978	1028.6	-3.4946
Cr 267.716	33.1296b	ppb	0.1509	0.5	491.089
Cu 324.754	3.5433b	ppb	0.4409	12.4	190.506
Fe 271.441	4760.03b	ppb	7.1252	0.1	3294.06
K 766.491	8282.01b	ppb	14.1860	0.2	941867
Mg 279.078	3096.37b	ppb	10.0740	0.3	3598.74
Mn 257.610	44.2208b	ppb	0.1563	0.4	3899.97
Mo 202.032	23.6754b	ppb	1.3867	5.9	82.3888
Na 330.237	616829xb	ppb	3476.97	0.6	36464.3
Ni 231.604	23.3654b	ppb	1.1221	4.8	63.4172
Pb 220.353	6.0607b	ppb	2.1712	35.8	3.9453
Sb 206.834	2.1304b	ppb	1.2164	57.1	4.0690
Se 196.026	2.9158b	ppb	4.1147	141.1	3.0261
Sn 189.925	-3.2043b	ppb	2.6507	82.7	-1.8412
Sr 216.596	67.9463b	ppb	0.8740	1.3	373.484
Ti 334.941	61.5914b	ppb	0.0945	0.2	12419.5
Tl 190.794	-7.7266b	ppb	7.5184	97.3	-5.2234
V 292.401	34.5571b	ppb	0.2112	0.6	939.656
Zn 206.200	8.6028b	ppb	0.5131	6.0	29.1219

660-53869-a-13-a (Samp) 5/1/2013, 3:05:02 AM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6390b	ppb	1.1073	173.3	-49.8634
Al 308.215	23684.2b	ppb	73.0517	0.3	71176.7

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	20.4667b	ppb	3.7063	18.1	4.8814
B 249.678	10728.5xb	ppb	16.0614	0.1	87124.8
Ba 389.178	71.7057b	ppb	1.0128	1.4	1110.78
Be 313.042	0.4475b	ppb	0.0055	1.2	522.123
Ca 370.602	8681b	ppb	10.50	0.1	29134
Cd 226.502	0.0301b	ppb	0.2261	750.5	22.1547
Co 228.615	-0.0926b	ppb	0.5138	554.8	-4.0875
Cr 267.716	31.4889b	ppb	0.2453	0.8	467.311
Cu 324.754	2.1402b	ppb	0.3119	14.6	140.651
Fe 271.441	4626.13b	ppb	22.0396	0.5	3201.52
K 766.491	8060.61b	ppb	18.2573	0.2	916746
Mg 279.078	3045.63b	ppb	6.8423	0.2	3541.16
Mn 257.610	43.9586b	ppb	0.0792	0.2	3876.60
Mo 202.032	23.4936b	ppb	0.4935	2.1	81.7552
Na 330.237	609281xb	ppb	3479.32	0.6	36018.3
Ni 231.604	21.6116b	ppb	0.9026	4.2	58.6946
Pb 220.353	5.3255b	ppb	2.9505	55.4	3.6591
Sb 206.834	0.0184b	ppb	1.6911	9169.1	2.7907
Se 196.026	5.7509b	ppb	1.5100	26.3	3.7120
Sn 189.925	-1.6603b	ppb	3.1051	187.0	-1.0128
Sr 216.596	55.4126b	ppb	0.6734	1.2	303.858
Ti 334.941	51.1712b	ppb	0.1164	0.2	10307.2
Tl 190.794	-2.2009b	ppb	4.7815	217.3	-2.8498
V 292.401	33.2669b	ppb	0.3960	1.2	904.516
Zn 206.200	5.7725b	ppb	0.3388	5.9	21.5041

660-53869-a-14-a (Samp)

5/1/2013, 3:10:30 AM

Rack 3, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2192b	ppb	0.3922	178.9	-25.3207
Al 308.215	55311.4b	ppb	63.5311	0.1	165976
As 188.980	6.7141b	ppb	8.4111	125.3	0.6009
B 249.678	8212.98xb	ppb	17.2642	0.2	66698.6
Ba 389.178	109.870b	ppb	0.5495	0.5	1712.13
Be 313.042	1.0856b	ppb	0.0034	0.3	1424.83
Ca 370.602	7326b	ppb	11.12	0.2	23973
Cd 226.502	0.1060b	ppb	0.2885	272.1	31.8542
Co 228.615	7.9863b	ppb	0.4417	5.5	54.6478
Cr 267.716	81.1561b	ppb	0.4048	0.5	1186.76
Cu 324.754	3.2443b	ppb	0.2171	6.7	184.962
Fe 271.441	7734.14b	ppb	8.2577	0.1	5349.55
K 766.491	2151.90b	ppb	1.7826	0.1	246219
Mg 279.078	3813.99b	ppb	4.1915	0.1	4409.53
Mn 257.610	18.6296b	ppb	0.0391	0.2	1660.22
Mo 202.032	9.6040b	ppb	0.5887	6.1	34.6632
Na 330.237	684927xb	ppb	1817.86	0.3	40487.9
Ni 231.604	53.6068b	ppb	1.1311	2.1	144.963
Pb 220.353	5.0678b	ppb	3.5424	69.9	0.2255
Sb 206.834	3.3943b	ppb	5.4474	160.5	5.3000
Se 196.026	17.3639b	ppb	5.0023	28.8	6.6463
Sn 189.925	-4.0627b	ppb	1.4308	35.2	-2.2804
Sr 216.596	96.2550b	ppb	0.5513	0.6	531.555
Ti 334.941	81.5200b	ppb	0.2819	0.3	16458.2

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	5.3252b	ppb	6.9985	131.4	-0.0278
V 292.401	29.7598b	ppb	0.1984	0.7	809.256
Zn 206.200	8.3019b	ppb	0.6341	7.6	28.2381

660-53869-c-15-a (Samp) 5/1/2013, 3:15:58 AM Rack 3, Tube 12  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3121b	ppb	0.0551	17.6	-40.0438
Al 308.215	1750.66b	ppb	74.6640	4.3	5430.59
As 188.980	2.1249b	ppb	3.5634	167.7	-0.8165
B 249.678	7211.38xb	ppb	298.971	4.1	58576.2
Ba 389.178	7.6886b	ppb	1.3088	17.0	107.878
Be 313.042	0.1025b	ppb	0.0398	38.8	57.0768
Ca 370.602	6053b	ppb	242.9	4.0	20222
Cd 226.502	-0.1559b	ppb	0.2768	177.6	17.1355
Co 228.615	0.6462b	ppb	0.6078	94.1	0.9334
Cr 267.716	3.8869b	ppb	0.3997	10.3	64.7261
Cu 324.754	0.5209b	ppb	0.2776	53.3	90.2300
Fe 271.441	3923.67b	ppb	159.012	4.1	2715.87
K 766.491	3365.70b	ppb	157.482	4.7	383985
Mg 279.078	2346.31b	ppb	92.9075	4.0	2743.48
Mn 257.610	6.4989b	ppb	0.2265	3.5	589.317
Mo 202.032	-1.0807b	ppb	0.6107	56.5	-1.7546
Na 330.237	84321.5b	ppb	2457.72	2.9	4990.90
Ni 231.604	2.8221b	ppb	1.3506	47.9	8.0861
Pb 220.353	1.1689b	ppb	1.8530	158.5	2.7332
Sb 206.834	1.6905b	ppb	6.0042	355.2	3.6695
Se 196.026	5.8851b	ppb	17.9512	305.0	3.6611
Sn 189.925	0.5752b	ppb	2.7822	483.7	0.0812
Sr 216.596	13.0080b	ppb	0.3841	3.0	68.7013
Ti 334.941	4.0002b	ppb	0.1513	3.8	766.348
Tl 190.794	-2.1796b	ppb	0.9726	44.6	-2.6078
V 292.401	4.0172b	ppb	0.3249	8.1	115.572
Zn 206.200	8.7264b	ppb	0.9726	11.1	29.5109

Cont Calib Verif (CCV) 5/1/2013, 3:21:26 AM Rack 3, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.589	ppb	2.0377	0.4	14977.7	101.11776
Al 308.215	4931.51	ppb	1.4509	0.0	15242.4	98.63029
As 188.980	534.295	ppb	4.2338	0.8	166.732	106.85893
B 249.678	539.430	ppb	2.4162	0.4	4419.60	21.57720Q
Ba 389.178	5226.55	ppb	13.7682	0.3	81718.5	104.53093
Be 313.042	527.634	ppb	1.6282	0.3	752929	105.52682
Ca 370.602	5279	ppb	10.50	0.2	17622	105.57565
Cd 226.502	528.439	ppb	1.3806	0.3	10465.8	105.68776
Co 228.615	530.527	ppb	2.0399	0.4	3811.20	106.10545
Cr 267.716	5397.57	ppb	23.5670	0.4	78280.1	107.95148
Cu 324.754	5141.48	ppb	57.5401	1.1	182886	102.82952
Fe 271.441	5049.72	ppb	16.5667	0.3	3551.75	100.99436
K 766.491	9963.91	ppb	20.5828	0.2	1131504	99.63908



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	5022.28	ppb	4.9748	0.1	5791.80	100.44551
Mn 257.610	5514.18	ppb	13.5470	0.2	483665	110.28363
Mo 202.032	499.132	ppb	1.5301	0.3	1685.80	99.82639
Na 330.237	7582.15	ppb	101.427	1.3	455.415	101.09530
Ni 231.604	2657.45	ppb	10.8094	0.4	7150.77	106.29810
Pb 220.353	505.015	ppb	1.9364	0.4	385.670	101.00295
Sb 206.834	989.867	ppb	14.3315	1.4	629.827	39.59469Q
Se 196.026	4915.27	ppb	27.3951	0.6	1207.32	98.30531
Sn 189.925	5203.24	ppb	15.0774	0.3	2804.33	104.06480
Sr 216.596	2589.83	ppb	12.0553	0.5	14273.8	103.59325
Ti 334.941	504.274	ppb	1.1112	0.2	102498	100.85474
Tl 190.794	5089.01	ppb	15.6039	0.3	2167.00	101.78024
V 292.401	5046.25	ppb	10.1868	0.2	137493	100.92490
Zn 206.200	2721.78	ppb	7.7415	0.3	7316.24	108.87102

Cont Calib Blank (CCB)

5/1/2013, 3:26:55 AM

Rack 3, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1290	ppb	0.4917	381.0	-33.9051	-0.12904
Al 308.215	-46.1981	ppb	1.1977	2.6	44.9314	-46.19810
As 188.980	-0.2844	ppb	4.7553	1671.8	-1.4397	-0.28444
B 249.678	13.7595	ppb	0.4583	3.3	157.543	13.75948
Ba 389.178	-0.3976	ppb	1.0449	262.8	-27.0677	-0.39758
Be 313.042	-0.0119	ppb	0.0059	49.3	-102.594	-0.01189
Ca 370.602	-45.91	ppb	2.539	5.5	-66.92	-45.91311
Cd 226.502	-0.2181	ppb	0.2197	100.7	7.6823	-0.21807
Co 228.615	-1.1489	ppb	0.8061	70.2	-12.0954	-1.14889
Cr 267.716	0.0505	ppb	0.6188	1225.1	10.5832	0.05051
Cu 324.754	-0.1925	ppb	0.3497	181.7	79.3108	-0.19252
Fe 271.441	-10.9887	ppb	1.3542	12.3	-3.2848	-10.98873
K 766.491	0.5921	ppb	0.1860	31.4	2115.85	0.59206
Mg 279.078	-45.3696	ppb	2.5478	5.6	20.5641	-45.36955
Mn 257.610	0.0702	ppb	0.0507	72.2	15.9679	0.07022
Mo 202.032	0.6614	ppb	0.2627	39.7	4.6373	0.66135
Na 330.237	-94.4753	ppb	124.410	131.7	3.1225	-94.47529
Ni 231.604	-0.1353	ppb	0.9340	690.4	-0.1694	-0.13530
Pb 220.353	-2.5197	ppb	3.5687	141.6	0.0953	-2.51974
Sb 206.834	2.3700	ppb	2.4998	105.5	3.9093	2.36996
Se 196.026	15.3162	ppb	8.5148	55.6	5.9404	15.31616Z
Sn 189.925	-2.1353	ppb	4.7168	220.9	-1.3788	-2.13529
Sr 216.596	-0.1848	ppb	1.1293	611.0	-6.4185	-0.18484
Ti 334.941	-0.0320	ppb	0.0409	127.9	-53.5306	-0.03200
Tl 190.794	-0.7952	ppb	3.4727	436.7	-1.8092	-0.79521
V 292.401	0.1254	ppb	0.1084	86.4	9.0059	0.12544
Zn 206.200	0.4396	ppb	0.3524	80.2	7.0582	0.43965

660-53869-c-16-a (Samp)

5/1/2013, 3:32:23 AM

Rack 3, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2714b	ppb	0.4031	148.5	-23.5109
Al 308.215	46416.1b	ppb	200.762	0.4	139313

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	7.9446b	ppb	8.4153	105.9	0.9947
B 249.678	7769.24xb	ppb	11.8553	0.2	63098.1
Ba 389.178	77.4006b	ppb	0.1056	0.1	1203.32
Be 313.042	0.9466b	ppb	0.0024	0.3	1227.86
Ca 370.602	6907b	ppb	10.60	0.2	22652
Cd 226.502	0.0640b	ppb	0.3571	558.3	29.0715
Co 228.615	8.3354b	ppb	0.6064	7.3	56.6625
Cr 267.716	71.4905b	ppb	0.4543	0.6	1046.67
Cu 324.754	2.5064b	ppb	0.0903	3.6	159.756
Fe 271.441	7008.11b	ppb	8.9553	0.1	4847.81
K 766.491	1916.56b	ppb	5.7606	0.3	219521
Mg 279.078	3568.50b	ppb	10.7798	0.3	4131.17
Mn 257.610	16.1972b	ppb	0.1024	0.6	1445.26
Mo 202.032	8.9708b	ppb	0.2924	3.3	32.4963
Na 330.237	644614xb	ppb	867.625	0.1	38105.7
Ni 231.604	48.7184b	ppb	1.1221	2.3	131.764
Pb 220.353	1.0636b	ppb	2.3519	221.1	-1.9407
Sb 206.834	0.7384b	ppb	5.8872	797.3	3.6622
Se 196.026	4.3162b	ppb	5.8135	134.7	3.4203
Sn 189.925	-3.4878b	ppb	4.1746	119.7	-1.9857
Sr 216.596	47.8205b	ppb	0.9271	1.9	262.347
Ti 334.941	43.8427b	ppb	0.0440	0.1	8820.97
Tl 190.794	5.3265b	ppb	2.4755	46.5	0.0672
V 292.401	26.4611b	ppb	0.2063	0.8	719.632
Zn 206.200	5.2071b	ppb	0.9272	17.8	19.9144

660-53869-c-17-a (Samp)

5/1/2013, 3:37:51 AM

Rack 3, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1662b	ppb	0.5368	323.0	-35.2515
Al 308.215	977.311b	ppb	4.4337	0.5	3113.68
As 188.980	7.7037b	ppb	3.5970	46.7	0.9057
B 249.678	2120.60b	ppb	5.6533	0.3	17257.1
Ba 389.178	4.6520b	ppb	0.7935	17.1	55.0837
Be 313.042	0.0522b	ppb	0.0138	26.5	-10.2710
Ca 370.602	7432b	ppb	25.56	0.3	25384
Cd 226.502	0.0127b	ppb	0.1525	1205.4	14.7539
Co 228.615	0.0955b	ppb	0.3845	402.6	-3.0728
Cr 267.716	12.4426b	ppb	0.2661	2.1	190.314
Cu 324.754	0.3331b	ppb	0.1989	59.7	78.3329
Fe 271.441	1334.14b	ppb	3.8106	0.3	926.485
K 766.491	887.094b	ppb	3.3492	0.4	102714
Mg 279.078	900.886b	ppb	9.2421	1.0	1098.59
Mn 257.610	11.7259b	ppb	0.0281	0.2	1041.61
Mo 202.032	0.8854b	ppb	0.4593	51.9	5.2038
Na 330.237	149983xb	ppb	748.395	0.5	8872.98
Ni 231.604	3.1974b	ppb	0.4287	13.4	8.9045
Pb 220.353	0.4607b	ppb	4.7362	1028.0	2.2726
Sb 206.834	1.4217b	ppb	2.0150	141.7	3.5207
Se 196.026	1.0761b	ppb	6.5569	609.3	2.4808
Sn 189.925	-2.2559b	ppb	1.0751	47.7	-1.4363
Sr 216.596	21.1218b	ppb	0.2312	1.1	112.670
Ti 334.941	2.7603b	ppb	0.1122	4.1	513.485

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	2.5065b	ppb	4.4013	175.6	-0.5070
V 292.401	20.0526b	ppb	0.2118	1.1	552.343
Zn 206.200	13.6850b	ppb	0.1720	1.3	42.7334

**660-53869-a-18-a (Samp)**      **5/1/2013, 3:43:19 AM**      **Rack 3, Tube 17**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1565b	ppb	0.2976	190.1	-25.6820
Al 308.215	149.876b	ppb	0.9764	0.7	633.394
As 188.980	-0.8016b	ppb	9.6563	1204.6	-1.7582
B 249.678	2127.19b	ppb	3.0858	0.1	17310.2
Ba 389.178	2.1842b	ppb	1.1146	51.0	16.8205
Be 313.042	0.0091b	ppb	0.0079	86.2	-72.5981
Ca 370.602	7343b	ppb	21.35	0.3	25048
Cd 226.502	0.1336b	ppb	0.1024	76.6	17.4846
Co 228.615	0.3062b	ppb	0.5711	186.6	-1.5984
Cr 267.716	10.9667b	ppb	0.1259	1.1	168.818
Cu 324.754	0.2517b	ppb	0.1980	78.7	75.8171
Fe 271.441	1513.58b	ppb	2.7956	0.2	1050.47
K 766.491	868.938b	ppb	1.3459	0.2	100655
Mg 279.078	969.237b	ppb	1.8061	0.2	1176.17
Mn 257.610	13.9182b	ppb	0.1278	0.9	1234.22
Mo 202.032	-0.0727b	ppb	0.8391	1154.9	1.9239
Na 330.237	147467xb	ppb	932.909	0.6	8724.19
Ni 231.604	3.0488b	ppb	0.5754	18.9	8.5150
Pb 220.353	-5.0747b	ppb	2.3124	45.6	-1.9094
Sb 206.834	1.1239b	ppb	3.6342	323.4	3.3382
Se 196.026	2.6803b	ppb	3.9062	145.7	2.8715
Sn 189.925	-4.7648b	ppb	3.0447	63.9	-2.7892
Sr 216.596	17.7668b	ppb	0.3019	1.7	94.0976
Ti 334.941	0.4232b	ppb	0.0888	21.0	39.6319
Tl 190.794	-0.3825b	ppb	5.3653	1402.8	-1.7373
V 292.401	17.9852b	ppb	0.1349	0.8	495.795
Zn 206.200	2.7261b	ppb	0.1964	7.2	13.2395

**660-53869-c-19-a (Samp)**      **5/1/2013, 3:48:47 AM**      **Rack 3, Tube 18**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0599	ppb	0.0726	121.2	-31.9465
Al 308.215	15.1509	ppb	1.2430	8.2	228.863
As 188.980	7.5500	ppb	5.7200	75.8	0.4496
B 249.678	32.7253	ppb	0.6020	1.8	310.094
Ba 389.178	3.9528	ppb	0.4363	11.0	45.4169
Be 313.042	-0.0180	ppb	0.0085	47.3	-104.395
Ca 370.602	26495	ppb	24.94	0.1	90939
Cd 226.502	0.0200	ppb	0.4163	2076.9	13.7702
Co 228.615	-0.4546	ppb	0.4665	102.6	-7.1194
Cr 267.716	-0.2543	ppb	0.4387	172.5	5.8733
Cu 324.754	0.4178	ppb	0.0775	18.5	30.5439
Fe 271.441	644.598	ppb	7.8559	1.2	449.800
K 766.491	637.350	ppb	0.2474	0.0	74373.8

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	2075.71	ppb	9.3583	0.5	2445.32
Mn 257.610	10.7746	ppb	0.0559	0.5	960.510
Mo 202.032	2.4719	ppb	1.4740	59.6	10.6951
Na 330.237	4431.78	ppb	50.8195	1.1	270.371
Ni 231.604	1.0847	ppb	0.5755	53.1	3.2250
Pb 220.353	-1.6753	ppb	3.5795	213.7	0.7339
Sb 206.834	1.1668	ppb	2.8315	242.7	3.4164
Se 196.026	13.8923	ppb	11.3727	81.9	5.6769
Sn 189.925	0.3308	ppb	1.3372	404.2	-0.1355
Sr 216.596	10.5234	ppb	0.6261	5.9	54.2874
Ti 334.941	0.3038	ppb	0.0503	16.6	41.7175
Tl 190.794	3.9218	ppb	0.7942	20.3	-0.0579
V 292.401	1.4683	ppb	0.2707	18.4	45.3389
Zn 206.200	0.6546	ppb	0.9848	150.4	7.7142

660-53869-a-20-a (Samp)

5/1/2013, 3:54:16 AM

Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4459	ppb	0.7599	170.4	-43.3996
Al 308.215	-32.6120	ppb	0.5604	1.7	85.6833
As 188.980	-0.7197	ppb	5.2536	730.0	-2.1300
B 249.678	28.5282	ppb	0.4492	1.6	276.054
Ba 389.178	2.8835	ppb	1.6292	56.5	28.6072
Be 313.042	-0.0209	ppb	0.0033	15.6	-108.820
Ca 370.602	25934	ppb	13.19	0.1	89014
Cd 226.502	0.0176	ppb	0.1389	787.5	13.6919
Co 228.615	-0.4118	ppb	0.2558	62.1	-6.8167
Cr 267.716	-0.2693	ppb	0.1689	62.7	5.6614
Cu 324.754	0.8362	ppb	0.3004	35.9	46.9232
Fe 271.441	630.841	ppb	12.1632	1.9	440.295
K 766.491	617.945	ppb	0.5015	0.1	72172.0
Mg 279.078	2026.54	ppb	3.0606	0.2	2389.09
Mn 257.610	10.6992	ppb	0.0409	0.4	953.780
Mo 202.032	3.0853	ppb	0.7894	25.6	12.7776
Na 330.237	4255.54	ppb	39.1908	0.9	259.962
Ni 231.604	0.5674	ppb	0.7441	131.1	1.8290
Pb 220.353	-0.3176	ppb	2.2582	711.1	1.7851
Sb 206.834	-0.4124	ppb	2.4073	583.7	2.4690
Se 196.026	8.8295	ppb	2.5440	28.8	4.4347
Sn 189.925	-1.4393	ppb	2.0780	144.4	-1.0879
Sr 216.596	7.5090	ppb	0.7001	9.3	37.5393
Ti 334.941	-0.0467	ppb	0.0322	68.9	-29.9030
Tl 190.794	1.3981	ppb	3.6906	264.0	-1.1252
V 292.401	1.1911	ppb	0.2400	20.2	37.7688
Zn 206.200	0.6858	ppb	0.5347	78.0	7.7970

660-53869-a-21-a (Samp)

5/1/2013, 3:59:44 AM

Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5031	ppb	0.9546	189.7	-45.1856
Al 308.215	-32.6790	ppb	2.9720	9.1	85.4359

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.6392	ppb	3.2647	510.7	-2.0438
B 249.678	29.8455	ppb	2.6306	8.8	287.780
Ba 389.178	4.4810	ppb	1.0132	22.6	89.9754
Be 313.042	-0.0207	ppb	0.0058	27.9	-105.795
Ca 370.602	41846	ppb	2953	7.1	143715
Cd 226.502	0.2832	ppb	0.2693	95.1	18.0681
Co 228.615	-0.7465	ppb	0.7524	100.8	-9.1977
Cr 267.716	-0.1762	ppb	0.2834	160.8	7.2496
Cu 324.754	0.5607	ppb	0.2811	50.1	-4.0778
Fe 271.441	154.578	ppb	10.5615	6.8	111.148
K 766.491	252.564	ppb	18.1967	7.2	30707.7
Mg 279.078	22818.8	ppb	1503.07	6.6	26182.3
Mn 257.610	3.7720	ppb	0.3290	8.7	393.892
Mo 202.032	0.8625	ppb	0.6366	73.8	5.2995
Na 330.237	5966.37	ppb	292.894	4.9	361.280
Ni 231.604	3.1136	ppb	1.1563	37.1	9.3868
Pb 220.353	-2.1350	ppb	4.4965	210.6	0.3899
Sb 206.834	-1.3415	ppb	1.8274	136.2	2.0387
Se 196.026	-4.2459	ppb	9.2852	218.7	1.3882
Sn 189.925	-2.2922	ppb	4.9575	216.3	-1.5995
Sr 216.596	47.7689	ppb	3.3443	7.0	261.422
Ti 334.941	0.0176	ppb	0.0443	251.9	0.1004
Tl 190.794	-3.0573	ppb	3.9847	130.3	-3.1380
V 292.401	0.0822	ppb	0.1661	202.1	8.0500
Zn 206.200	-0.6436	ppb	0.4944	76.8	4.8323

660-53869-a-21-aSD^5 (Samp) 5/1/2013, 4:05:12 AM Rack 3, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4731	ppb	0.4037	85.3	-16.0711
Al 308.215	-38.7848	ppb	1.0535	2.7	67.1016
As 188.980	-2.5495	ppb	4.2996	168.6	-2.3292
B 249.678	8.7050	ppb	0.3536	4.1	116.465
Ba 389.178	0.5694	ppb	0.2620	46.0	-3.8147
Be 313.042	-0.0247	ppb	0.0072	29.3	-118.894
Ca 370.602	8365	ppb	14.12	0.2	28800
Cd 226.502	0.2899	ppb	0.1292	44.6	17.8148
Co 228.615	-0.8254	ppb	0.5611	68.0	-9.7468
Cr 267.716	-0.1719	ppb	0.4246	247.0	7.3468
Cu 324.754	-0.0723	ppb	0.0373	51.6	61.4576
Fe 271.441	22.6328	ppb	0.7825	3.5	19.9598
K 766.491	49.5279	ppb	0.3594	0.7	7668.72
Mg 279.078	4526.60	ppb	3.6806	0.1	5251.91
Mn 257.610	0.7282	ppb	0.0307	4.2	84.3105
Mo 202.032	-0.7351	ppb	0.4411	60.0	-0.1037
Na 330.237	1075.63	ppb	51.3543	4.8	72.2757
Ni 231.604	0.6756	ppb	0.3581	53.0	2.1773
Pb 220.353	0.4034	ppb	4.6706	1158.0	2.3489
Sb 206.834	0.4924	ppb	4.4369	901.1	2.8546
Se 196.026	6.6697	ppb	6.6481	99.7	3.8703
Sn 189.925	-1.7607	ppb	0.9406	53.4	-1.2042
Sr 216.596	9.3946	ppb	0.4128	4.4	47.1077
Ti 334.941	-0.0777	ppb	0.0386	49.6	54.0240

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	2.6034	ppb	1.0499	40.3	-0.4366
V 292.401	-0.0591	ppb	0.1405	237.9	4.3640
Zn 206.200	4.9977	ppb	0.5713	11.4	19.4665

**660-53869-a-21-aPDS (Samp)**      **5/1/2013, 4:10:40 AM**      **Rack 3, Tube 22**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.0100	ppb	0.4015	0.8	1542.64
Al 308.215	2077.52	ppb	5.4028	0.3	6450.86
As 188.980	2122.43	ppb	3.9140	0.2	662.819
B 249.678	1086.91	ppb	3.5869	0.3	8872.28
Ba 389.178	2214.09	ppb	2.1415	0.1	34645.6
Be 313.042	56.3112	ppb	0.0637	0.1	80238.8
Ca 370.602	48386	ppb	28.47	0.1	166111
Cd 226.502	55.7054	ppb	0.1120	0.2	1115.82
Co 228.615	558.450	ppb	1.2617	0.2	4015.35
Cr 267.716	226.897	ppb	0.3607	0.2	3298.96
Cu 324.754	274.020	ppb	1.8416	0.7	9697.88
Fe 271.441	1243.59	ppb	9.2810	0.7	891.870
K 766.491	5869.73	ppb	6.9245	0.1	667615
Mg 279.078	28857.3	ppb	104.183	0.4	33086.8
Mn 257.610	583.549	ppb	0.2799	0.0	51269.9
Mo 202.032	542.996	ppb	2.3315	0.4	1843.33
Na 330.237	11845.1	ppb	144.452	1.2	702.233
Ni 231.604	555.011	ppb	2.3095	0.4	1494.83
Pb 220.353	534.815	ppb	5.1649	1.0	412.916
Sb 206.834	505.088	ppb	4.9681	1.0	303.391
Se 196.026	2084.46	ppb	16.8226	0.8	513.240
Sn 189.925	1117.01	ppb	7.8526	0.7	601.897
Sr 216.596	604.201	ppb	2.3707	0.4	3323.70
Ti 334.941	1065.24	ppb	0.9081	0.1	215964
Tl 190.794	2177.06	ppb	6.3643	0.3	924.905
V 292.401	529.543	ppb	1.1297	0.2	14348.7
Zn 206.200	561.152	ppb	3.5593	0.6	1516.83

**660-53869-a-21-b ms (Samp)**      **5/1/2013, 4:16:08 AM**      **Rack 3, Tube 23**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.4837	ppb	0.9002	1.7	1558.25
Al 308.215	5180.42	ppb	7.5562	0.1	15718.6
As 188.980	107.867	ppb	9.0513	8.4	31.4151
B 249.678	232.267	ppb	2.2123	1.0	1920.07
Ba 389.178	110.706	ppb	0.1723	0.2	1768.58
Be 313.042	55.6050	ppb	0.0423	0.1	79040.0
Ca 370.602	49520	ppb	22.66	0.0	169242
Cd 226.502	54.4021	ppb	0.1786	0.3	1098.71
Co 228.615	52.7813	ppb	0.6183	1.2	375.269
Cr 267.716	109.941	ppb	0.5586	0.5	1602.19
Cu 324.754	108.274	ppb	0.3379	0.3	3808.69
Fe 271.441	5276.68	ppb	3.1941	0.1	3653.85
K 766.491	5542.73	ppb	4.2939	0.1	631008

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	29352.7	ppb	20.7528	0.1	33639.8
Mn 257.610	563.851	ppb	0.5613	0.1	49538.3
Mo 202.032	104.062	ppb	1.1183	1.1	354.618
Na 330.237	11613.4	ppb	185.048	1.6	692.381
Ni 231.604	109.981	ppb	0.5695	0.5	297.320
Pb 220.353	50.5671	ppb	4.7476	9.4	40.2106
Sb 206.834	48.5849	ppb	5.0983	10.5	32.6229
Se 196.026	94.3088	ppb	7.0402	7.5	25.6925
Sn 189.925	208.516	ppb	4.7908	2.3	112.022
Sr 216.596	156.590	ppb	0.2353	0.2	862.788
Ti 334.941	102.618	ppb	0.1242	0.1	20813.8
Tl 190.794	39.5319	ppb	4.6914	11.9	14.7958
V 292.401	103.740	ppb	0.4246	0.4	2811.82
Zn 206.200	109.216	ppb	1.4883	1.4	300.552

660-53869-a-21-c msd (Samp) 5/1/2013, 4:21:37 AM Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.7916	ppb	0.8532	1.6	1508.02
Al 308.215	5101.32	ppb	7.8812	0.2	15481.4
As 188.980	106.889	ppb	3.6918	3.5	31.1879
B 249.678	225.709	ppb	1.2143	0.5	1867.06
Ba 389.178	108.758	ppb	0.6673	0.6	1734.31
Be 313.042	54.7442	ppb	0.0600	0.1	77814.5
Ca 370.602	45773	ppb	3.950	0.0	156397
Cd 226.502	53.7029	ppb	0.3171	0.6	1084.66
Co 228.615	51.8316	ppb	0.4763	0.9	368.457
Cr 267.716	108.597	ppb	0.1450	0.1	1582.75
Cu 324.754	106.877	ppb	0.5647	0.5	3768.83
Fe 271.441	5172.88	ppb	24.7826	0.5	3582.08
K 766.491	5426.06	ppb	4.4629	0.1	617769
Mg 279.078	27262.1	ppb	73.8259	0.3	31247.9
Mn 257.610	556.049	ppb	0.6617	0.1	48849.1
Mo 202.032	101.239	ppb	0.8707	0.9	345.058
Na 330.237	10946.0	ppb	120.828	1.1	652.985
Ni 231.604	109.710	ppb	1.0241	0.9	296.511
Pb 220.353	54.5539	ppb	6.8712	12.6	43.2957
Sb 206.834	48.5142	ppb	3.7585	7.7	32.5456
Se 196.026	106.519	ppb	9.0483	8.5	28.6607
Sn 189.925	208.718	ppb	3.6076	1.7	112.142
Sr 216.596	148.990	ppb	1.0699	0.7	820.451
Ti 334.941	101.018	ppb	0.1745	0.2	20485.4
Tl 190.794	38.2035	ppb	6.3108	16.5	14.2669
V 292.401	102.204	ppb	0.5734	0.6	2770.45
Zn 206.200	107.678	ppb	0.8838	0.8	296.352

Cont Calib Verif (CCV)

5/1/2013, 4:27:05 AM

Rack 3, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.232	ppb	0.2347	0.0	14877.9	100.44636
Al 308.215	4920.78	ppb	1.7018	0.0	15209.3	98.41559

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	532.741	ppb	14.7236	2.8	166.244	106.54822
B 249.678	514.968	ppb	2.0407	0.4	4221.03	20.59871Q
Ba 389.178	5179.12	ppb	3.0824	0.1	80977.0	103.58234
Be 313.042	527.828	ppb	0.4693	0.1	753195	105.56561
Ca 370.602	5251	ppb	5.218	0.1	17529	105.02264
Cd 226.502	527.190	ppb	0.9995	0.2	10441.1	105.43800
Co 228.615	526.670	ppb	0.4204	0.1	3783.44	105.33402
Cr 267.716	5374.41	ppb	5.3231	0.1	77944.2	107.48819
Cu 324.754	5157.60	ppb	28.4566	0.6	183459	103.15195
Fe 271.441	5031.70	ppb	21.0395	0.4	3539.07	100.63404
K 766.491	9891.88	ppb	8.3702	0.1	1123342	98.91883
Mg 279.078	5035.71	ppb	5.6429	0.1	5807.26	100.71411
Mn 257.610	5487.87	ppb	0.0814	0.0	481358	109.75747
Mo 202.032	500.121	ppb	2.9291	0.6	1689.20	100.02429
Na 330.237	7557.72	ppb	40.5658	0.5	453.992	100.76958
Ni 231.604	2651.34	ppb	1.8974	0.1	7134.30	106.05367
Pb 220.353	504.243	ppb	3.8369	0.8	385.092	100.84865
Sb 206.834	971.896	ppb	3.3119	0.3	618.958	38.87585Q
Se 196.026	4895.10	ppb	16.2509	0.3	1202.38	97.90190
Sn 189.925	5171.53	ppb	25.0542	0.5	2787.24	103.43069
Sr 216.596	2579.80	ppb	2.9014	0.1	14218.3	103.19203
Ti 334.941	501.801	ppb	0.2650	0.1	101995	100.36030
Tl 190.794	5033.03	ppb	21.9509	0.4	2143.19	100.66065
V 292.401	5029.93	ppb	4.1800	0.1	137048	100.59853
Zn 206.200	2719.08	ppb	1.8177	0.1	7309.04	108.76335

## Cont Calib Blank (CCB)

5/1/2013, 4:32:33 AM

Rack 3, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2864	ppb	0.3984	139.1	-38.5751	-0.28637
Al 308.215	-42.3254	ppb	2.4129	5.7	56.5483	-42.32538
As 188.980	8.7716	ppb	0.9607	11.0	1.3986	8.77160
B 249.678	2.6500	ppb	0.3169	12.0	67.3822	2.65002
Ba 389.178	0.3577	ppb	0.9088	254.1	-15.2620	0.35771
Be 313.042	0.0098	ppb	0.0218	221.5	-71.6527	0.00983
Ca 370.602	-48.08	ppb	4.915	10.2	-73.61	-48.07888
Cd 226.502	-0.0022	ppb	0.1375	6201.8	11.9384	-0.00222
Co 228.615	-0.7335	ppb	0.5982	81.6	-9.1103	-0.73351
Cr 267.716	0.3979	ppb	0.4040	101.5	15.6252	0.39795
Cu 324.754	-0.0432	ppb	0.2122	491.2	84.6201	-0.04320
Fe 271.441	-14.8827	ppb	7.1042	47.7	-5.9492	-14.88273
K 766.491	1.3284	ppb	1.0610	79.9	2199.24	1.32841
Mg 279.078	-43.8921	ppb	5.3082	12.1	22.2695	-43.89212
Mn 257.610	0.2848	ppb	0.2111	74.1	34.7924	0.28485
Mo 202.032	0.9409	ppb	0.2863	30.4	5.5861	0.94092
Na 330.237	-33.1461	ppb	56.5858	170.7	6.7482	-33.14606
Ni 231.604	-0.7324	ppb	0.5181	70.7	-1.7776	-0.73241
Pb 220.353	3.6531	ppb	0.7677	21.0	4.8511	3.65313
Sb 206.834	3.2759	ppb	2.7614	84.3	4.4533	3.27592
Se 196.026	7.1051	ppb	2.2406	31.5	3.9289	7.10506
Sn 189.925	-3.0001	ppb	1.8093	60.3	-1.8448	-3.00012
Sr 216.596	-0.1117	ppb	0.8457	757.3	-5.9964	-0.11167
Ti 334.941	0.0488	ppb	0.0429	88.0	37.1451	0.04878



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-2.7803	ppb	2.7571	99.2	-2.6518	-2.78032
V 292.401	0.2560	ppb	0.3771	147.3	12.5407	0.25602
Zn 206.200	0.1971	ppb	0.1356	68.8	6.4040	0.19709

**640-43317-a-1-a (Samp)**      **5/1/2013, 4:38:02 AM**      **Rack 3, Tube 27**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5591	ppb	0.3813	68.2	-46.5247
Al 308.215	123.287	ppb	2.4332	2.0	553.131
As 188.980	13.9921	ppb	4.8165	34.4	0.2289
B 249.678	8.5569	ppb	0.5582	6.5	113.704
Ba 389.178	51.0161	ppb	1.9882	3.9	795.086
Be 313.042	-0.0047	ppb	0.0063	131.9	-58.0177
Ca 370.602	131550	ppb	111.7	0.1	451564
Cd 226.502	0.7001	ppb	0.2237	32.0	27.4712
Co 228.615	0.1608	ppb	0.8691	540.5	-2.5345
Cr 267.716	0.1152	ppb	0.0386	33.5	11.3147
Cu 324.754	5.4896	ppb	0.3090	5.6	-69.2623
Fe 271.441	756.948	ppb	19.5837	2.6	527.487
K 766.491	7209.12	ppb	3.9716	0.1	820124
Mg 279.078	9909.83	ppb	18.8025	0.2	11408.9
Mn 257.610	107.705	ppb	0.0177	0.0	9480.75
Mo 202.032	1.3063	ppb	0.5784	44.3	6.7214
Na 330.237	14891.4	ppb	178.682	1.2	888.506
Ni 231.604	2.2712	ppb	0.2937	12.9	6.6956
Pb 220.353	-3.3739	ppb	3.6329	107.7	-0.5833
Sb 206.834	1.4300	ppb	0.6495	45.4	4.4689
Se 196.026	4.8686	ppb	7.3885	151.8	3.8129
Sn 189.925	-2.0017	ppb	4.5354	226.6	-1.7336
Sr 216.596	269.589	ppb	1.7017	0.6	1496.80
Ti 334.941	8.0426	ppb	0.0651	0.8	1718.42
Tl 190.794	-0.8578	ppb	3.8968	454.3	-2.9900
V 292.401	5.3545	ppb	0.4688	8.8	151.954
Zn 206.200	8.5957	ppb	0.5453	6.3	29.3306

**640-43317-a-3-a (Samp)**      **5/1/2013, 4:43:31 AM**      **Rack 3, Tube 28**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1693	ppb	0.3966	234.2	-24.9747
Al 308.215	-12.8421	ppb	2.5943	20.2	144.879
As 188.980	4.0843	ppb	8.4224	206.2	-0.1248
B 249.678	4.8152	ppb	0.6323	13.1	84.9225
Ba 389.178	22.9849	ppb	0.6311	2.7	340.988
Be 313.042	0.0359	ppb	0.0068	18.9	-34.0038
Ca 370.602	2490	ppb	8.650	0.3	8637
Cd 226.502	0.1565	ppb	0.1395	89.1	15.1414
Co 228.615	0.1249	ppb	0.1151	92.1	-2.8997
Cr 267.716	0.9229	ppb	0.4325	46.9	23.2596
Cu 324.754	0.2101	ppb	0.2524	120.1	86.9578
Fe 271.441	12.1046	ppb	3.7023	30.6	12.7170
K 766.491	1037.74	ppb	0.6451	0.1	119806

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	1378.37	ppb	1.3736	0.1	1649.56
Mn 257.610	23.6109	ppb	0.0993	0.4	2084.00
Mo 202.032	-0.2587	ppb	0.4411	170.5	1.5137
Na 330.237	1407.01	ppb	107.933	7.7	91.8749
Ni 231.604	0.5995	ppb	0.6862	114.5	1.8564
Pb 220.353	2.0335	ppb	2.2712	111.7	3.6014
Sb 206.834	2.7885	ppb	4.4250	158.7	4.1955
Se 196.026	1.6607	ppb	6.7598	407.0	2.6139
Sn 189.925	-3.0151	ppb	5.0656	168.0	-1.8608
Sr 216.596	17.5133	ppb	0.4359	2.5	91.9507
Ti 334.941	0.5502	ppb	0.0612	11.1	67.1314
Tl 190.794	-3.0995	ppb	4.0723	131.4	-2.8084
V 292.401	0.1726	ppb	0.2324	134.7	10.5475
Zn 206.200	13.8946	ppb	0.2128	1.5	43.3236

640-43317-a-5-a (Samp) 5/1/2013, 4:49:00 AM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0355	ppb	0.5185	1460.4	-27.8148
Al 308.215	33.4740	ppb	2.4124	7.2	283.804
As 188.980	5.0804	ppb	5.9228	116.6	0.1981
B 249.678	5.3399	ppb	0.2138	4.0	88.8925
Ba 389.178	63.8941	ppb	0.7152	1.1	983.727
Be 313.042	0.1593	ppb	0.0057	3.6	142.125
Ca 370.602	1969	ppb	5.697	0.3	6823
Cd 226.502	0.4153	ppb	0.1092	26.3	20.6602
Co 228.615	6.2284	ppb	0.4884	7.8	41.0049
Cr 267.716	0.2705	ppb	0.4052	149.8	14.0117
Cu 324.754	0.6268	ppb	0.0812	13.0	103.336
Fe 271.441	198.176	ppb	4.2354	2.1	141.573
K 766.491	1922.52	ppb	5.6803	0.3	220200
Mg 279.078	3114.05	ppb	22.1561	0.7	3634.46
Mn 257.610	308.020	ppb	1.3038	0.4	27033.0
Mo 202.032	-0.7602	ppb	0.0534	7.0	-0.2146
Na 330.237	2859.13	ppb	120.021	4.2	177.603
Ni 231.604	1.6072	ppb	0.4578	28.5	4.6380
Pb 220.353	1.6898	ppb	1.9656	116.3	3.3308
Sb 206.834	0.4228	ppb	4.7207	1116.5	2.7655
Se 196.026	-5.2212	ppb	15.5736	298.3	0.9837
Sn 189.925	-3.3485	ppb	2.8588	85.4	-2.0381
Sr 216.596	19.8360	ppb	0.7759	3.9	104.865
Ti 334.941	2.5593	ppb	0.0696	2.7	473.840
Tl 190.794	2.0547	ppb	3.0523	148.6	-0.6085
V 292.401	2.3520	ppb	0.4168	17.7	69.6035
Zn 206.200	8.4514	ppb	0.3204	3.8	28.7267

640-43317-a-7-a (Samp) 5/1/2013, 4:54:29 AM Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0062	ppb	0.1497	2410.5	-29.8708
Al 308.215	-24.0297	ppb	3.2886	13.7	111.345

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.0862	ppb	8.1397	9446.7	-1.3475
B 249.678	4.7063	ppb	0.8413	17.9	84.0516
Ba 389.178	21.0273	ppb	0.9921	4.7	309.759
Be 313.042	0.0381	ppb	0.0050	13.0	-31.2868
Ca 370.602	1061	ppb	4.228	0.4	3733
Cd 226.502	0.6086	ppb	0.0304	5.0	24.0461
Co 228.615	-0.6371	ppb	0.4608	72.3	-8.3826
Cr 267.716	0.0157	ppb	0.2579	1646.5	10.0841
Cu 324.754	0.4546	ppb	0.2268	49.9	99.4463
Fe 271.441	-0.0866	ppb	2.9126	3362.8	4.2684
K 766.491	944.615	ppb	3.1941	0.3	109238
Mg 279.078	1034.48	ppb	3.5076	0.3	1256.12
Mn 257.610	8.3075	ppb	0.0697	0.8	740.956
Mo 202.032	-0.4748	ppb	0.9575	201.7	0.7823
Na 330.237	659.599	ppb	123.782	18.8	47.6877
Ni 231.604	0.4019	ppb	0.6987	173.8	1.3124
Pb 220.353	1.3500	ppb	2.0257	150.0	3.0766
Sb 206.834	6.0258	ppb	1.4651	24.3	6.1138
Se 196.026	8.1253	ppb	5.3742	66.1	4.1892
Sn 189.925	-2.8974	ppb	3.6384	125.6	-1.7929
Sr 216.596	12.5987	ppb	0.9252	7.3	64.6054
Ti 334.941	0.5178	ppb	0.0647	12.5	59.0661
Tl 190.794	-2.2911	ppb	4.0530	176.9	-2.4530
V 292.401	0.0684	ppb	0.2714	396.7	7.7247
Zn 206.200	2.6389	ppb	0.4725	17.9	13.0118

640-43317-a-9-a (Samp)

5/1/2013, 4:59:58 AM

Rack 3, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1886	ppb	0.1901	100.8	-35.4382
Al 308.215	-6.3058	ppb	2.0632	32.7	164.200
As 188.980	-0.4255	ppb	4.2913	1008.5	-2.0662
B 249.678	5.5923	ppb	0.4017	7.2	86.2771
Ba 389.178	48.0070	ppb	0.5446	1.1	741.135
Be 313.042	0.0172	ppb	0.0044	25.4	-55.2977
Ca 370.602	27194	ppb	20.33	0.1	93067
Cd 226.502	0.2330	ppb	0.1317	56.5	21.5142
Co 228.615	-0.8533	ppb	0.2067	24.2	-9.8546
Cr 267.716	0.2085	ppb	0.3711	178.0	11.9777
Cu 324.754	0.8206	ppb	0.1584	19.3	43.9468
Fe 271.441	2307.24	ppb	5.7705	0.3	1598.74
K 766.491	3952.92	ppb	1.5057	0.0	450613
Mg 279.078	5076.23	ppb	6.4420	0.1	5872.56
Mn 257.610	169.301	ppb	0.2488	0.1	14873.0
Mo 202.032	-0.1559	ppb	0.9364	600.8	1.5721
Na 330.237	8001.26	ppb	65.9984	0.8	480.642
Ni 231.604	1.6730	ppb	0.5858	35.0	5.0020
Pb 220.353	0.7918	ppb	1.8595	234.9	2.6329
Sb 206.834	-0.7642	ppb	1.6714	218.7	2.3188
Se 196.026	-2.7782	ppb	3.3487	120.5	1.6356
Sn 189.925	-3.1566	ppb	3.9585	125.4	-2.0160
Sr 216.596	136.465	ppb	0.2088	0.2	754.288
Ti 334.941	2.5834	ppb	0.0105	0.4	504.544

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-3.5543	ppb	5.5246	155.4	-3.3022
V 292.401	0.1172	ppb	0.1140	97.3	9.2729
Zn 206.200	10.9664	ppb	0.1927	1.8	35.6012

**640-43317-a-11-a (Samp)**      **5/1/2013, 5:05:26 AM**      **Rack 3, Tube 32**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5133	ppb	0.5495	107.0	-45.2646
Al 308.215	181.228	ppb	1.9874	1.1	726.615
As 188.980	5.5453	ppb	7.9295	143.0	0.3516
B 249.678	2.2054	ppb	1.0720	48.6	63.4168
Ba 389.178	27.4431	ppb	0.0607	0.2	409.979
Be 313.042	0.1211	ppb	0.0118	9.7	87.0806
Ca 370.602	1602	ppb	1.617	0.1	5561
Cd 226.502	0.1471	ppb	0.2066	140.4	15.2922
Co 228.615	0.8922	ppb	0.0575	6.4	2.6744
Cr 267.716	0.5992	ppb	0.4412	73.6	18.4956
Cu 324.754	1.1751	ppb	0.3541	30.1	123.664
Fe 271.441	169.225	ppb	7.0110	4.1	121.350
K 766.491	676.738	ppb	1.6939	0.3	78837.9
Mg 279.078	894.639	ppb	3.9201	0.4	1095.49
Mn 257.610	26.6204	ppb	0.0718	0.3	2347.02
Mo 202.032	-0.0926	ppb	0.9820	1060.9	2.0587
Na 330.237	2341.13	ppb	117.537	5.0	146.984
Ni 231.604	2.3539	ppb	0.1176	5.0	6.5708
Pb 220.353	-1.4558	ppb	1.9913	136.8	0.8920
Sb 206.834	1.0439	ppb	2.3366	223.8	3.1290
Se 196.026	2.3345	ppb	13.8872	594.9	2.7747
Sn 189.925	-1.8957	ppb	1.1833	62.4	-1.2533
Sr 216.596	6.6632	ppb	0.4305	6.5	31.6750
Ti 334.941	5.6941	ppb	0.0858	1.5	1108.92
Tl 190.794	3.2829	ppb	2.9180	88.9	-0.0908
V 292.401	0.7577	ppb	0.0250	3.3	26.4883
Zn 206.200	11.7578	ppb	0.5362	4.6	37.5603

**mb 680-274866/1-a (Samp)**      **5/1/2013, 5:10:55 AM**      **Rack 3, Tube 33**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1479	ppb	0.5268	356.2	-25.6861
Al 308.215	-43.9007	ppb	3.7418	8.5	51.7820
As 188.980	2.3538	ppb	9.4830	402.9	-0.6131
B 249.678	2.7734	ppb	0.3971	14.3	68.3870
Ba 389.178	-0.6935	ppb	1.4718	212.2	-31.6909
Be 313.042	-0.0298	ppb	0.0060	20.0	-128.140
Ca 370.602	-49.33	ppb	1.583	3.2	-78.42
Cd 226.502	-0.0381	ppb	0.1265	332.0	11.2354
Co 228.615	-0.6955	ppb	0.6055	87.1	-8.8212
Cr 267.716	-0.2004	ppb	0.0937	46.8	6.9450
Cu 324.754	-0.2986	ppb	0.1060	35.5	75.5472
Fe 271.441	-13.3344	ppb	6.6600	49.9	-4.8820
K 766.491	0.9338	ppb	0.2691	28.8	2154.71

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	-44.2070	ppb	0.7314	1.7	21.8997
Mn 257.610	-0.0597	ppb	0.0341	57.0	4.5805
Mo 202.032	-0.1363	ppb	0.1870	137.1	1.9319
Na 330.237	-35.8692	ppb	128.775	359.0	6.5866
Ni 231.604	0.3888	ppb	0.5549	142.7	1.2401
Pb 220.353	-1.0504	ppb	3.1430	299.2	1.2288
Sb 206.834	-0.0570	ppb	1.3584	2385.1	2.4569
Se 196.026	5.2186	ppb	13.8606	265.6	3.4667
Sn 189.925	-2.3515	ppb	4.0902	173.9	-1.4952
Sr 216.596	0.0266	ppb	0.6616	2484.5	-5.2464
Ti 334.941	-0.0770	ppb	0.0344	44.6	-62.6730
Tl 190.794	-1.3525	ppb	2.1471	158.7	-2.0443
V 292.401	-0.0693	ppb	0.1401	202.1	3.9388
Zn 206.200	0.0479	ppb	0.2642	551.4	6.0042

ics 680-274866/2-a (Samp) 5/1/2013, 5:16:24 AM Rack 3, Tube 34

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3997	ppb	0.7096	1.4	1526.25
Al 308.215	5096.94	ppb	5.4666	0.1	15468.3
As 188.980	110.174	ppb	5.3869	4.9	33.0825
B 249.678	203.019	ppb	0.4906	0.2	1683.07
Ba 389.178	106.430	ppb	1.2952	1.2	1658.48
Be 313.042	55.3230	ppb	0.0777	0.1	78628.9
Ca 370.602	5212	ppb	5.988	0.1	17169
Cd 226.502	54.4944	ppb	0.5302	1.0	1100.00
Co 228.615	53.0341	ppb	0.5517	1.0	377.117
Cr 267.716	110.212	ppb	0.4040	0.4	1606.18
Cu 324.754	106.581	ppb	0.9239	0.9	3864.99
Fe 271.441	5090.75	ppb	14.5478	0.3	3525.38
K 766.491	5025.73	ppb	13.5458	0.3	572340
Mg 279.078	5116.66	ppb	10.5809	0.2	5908.41
Mn 257.610	560.784	ppb	1.1111	0.2	49212.8
Mo 202.032	102.326	ppb	1.4016	1.4	348.752
Na 330.237	5143.65	ppb	257.697	5.0	310.065
Ni 231.604	108.718	ppb	1.1655	1.1	293.054
Pb 220.353	52.4645	ppb	3.0185	5.8	41.6873
Sb 206.834	47.6982	ppb	5.3778	11.3	31.7194
Se 196.026	100.791	ppb	5.7494	5.7	27.0261
Sn 189.925	209.358	ppb	5.4072	2.6	112.619
Sr 216.596	104.690	ppb	1.2895	1.2	572.914
Ti 334.941	102.443	ppb	0.2350	0.2	20732.2
Tl 190.794	38.8664	ppb	3.8865	10.0	14.9057
V 292.401	102.930	ppb	0.3311	0.3	2790.04
Zn 206.200	111.465	ppb	0.5439	0.5	305.874

680-89693-a-1-a (Samp) 5/1/2013, 5:21:53 AM Rack 3, Tube 35

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0613	ppb	0.1751	285.7	-32.0348
Al 308.215	-17.0504	ppb	5.2197	30.6	133.833

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-3.9944	ppb	4.3180	108.1	-2.7866
B 249.678	1191.36	ppb	77.5792	6.5	9716.47
Ba 389.178	5.6287	ppb	0.8951	15.9	80.4974
Be 313.042	-0.0049	ppb	0.0064	130.4	-76.4033
Ca 370.602	8518	ppb	558.8	6.6	29303
Cd 226.502	0.3703	ppb	0.4247	114.7	19.6366
Co 228.615	-0.2604	ppb	0.2863	109.9	-5.6880
Cr 267.716	1.6568	ppb	0.2784	16.8	33.7877
Cu 324.754	220.098	ppb	20.4211	9.3	7892.26
Fe 271.441	162.193	ppb	8.4106	5.2	116.688
K 766.491	1952.92	ppb	136.420	7.0	223663
Mg 279.078	7348.09	ppb	475.652	6.5	8479.87
Mn 257.610	22.1016	ppb	1.5710	7.1	1965.50
Mo 202.032	0.4807	ppb	1.0847	225.7	3.9471
Na 330.237	32415.6	ppb	2119.31	6.5	1924.81
Ni 231.604	14.2600	ppb	0.5247	3.7	38.8191
Pb 220.353	21.4553	ppb	2.8570	13.3	18.5643
Sb 206.834	-0.2532	ppb	1.3633	538.5	2.3840
Se 196.026	3.1951	ppb	5.0331	157.5	3.0383
Sn 189.925	2.3690	ppb	0.4772	20.1	1.0278
Sr 216.596	50.1520	ppb	3.7696	7.5	272.810
Ti 334.941	0.5710	ppb	0.1034	18.1	76.0218
Tl 190.794	-1.9250	ppb	3.5254	183.1	-2.3379
V 292.401	30.5593	ppb	2.2405	7.3	840.686
Zn 206.200	161.619	ppb	10.1137	6.3	441.227

680-89693-a-1-aSD^5 (Samp) 5/1/2013, 5:27:22 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4866	ppb	0.2385	49.0	-44.5535
Al 308.215	-37.8667	ppb	2.6569	7.0	70.1937
As 188.980	-3.4419	ppb	5.4764	159.1	-2.4668
B 249.678	247.955	ppb	0.4716	0.2	2058.57
Ba 389.178	0.5808	ppb	0.2942	50.7	-8.9940
Be 313.042	-0.0153	ppb	0.0083	54.5	-103.999
Ca 370.602	1698	ppb	0.4464	0.0	5912
Cd 226.502	-0.0610	ppb	0.2766	453.1	10.8652
Co 228.615	-0.7115	ppb	0.5745	80.8	-8.9337
Cr 267.716	0.4426	ppb	0.2932	66.3	16.2471
Cu 324.754	45.4408	ppb	0.2817	0.6	1697.84
Fe 271.441	31.0717	ppb	4.1764	13.4	25.8514
K 766.491	393.637	ppb	0.5823	0.1	46718.1
Mg 279.078	1486.81	ppb	11.2796	0.8	1773.61
Mn 257.610	4.5283	ppb	0.0101	0.2	410.562
Mo 202.032	0.0846	ppb	0.7452	880.8	2.6643
Na 330.237	6477.68	ppb	126.247	1.9	391.605
Ni 231.604	2.1498	ppb	0.4065	18.9	6.0345
Pb 220.353	8.0624	ppb	4.3107	53.5	8.2490
Sb 206.834	1.9828	ppb	2.6633	134.3	3.6913
Se 196.026	8.1627	ppb	6.8420	83.8	4.2018
Sn 189.925	-1.9686	ppb	0.2510	12.8	-1.2932
Sr 216.596	10.0039	ppb	0.7409	7.4	50.1398
Ti 334.941	0.0184	ppb	0.0649	352.9	41.8178

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	2.2661	ppb	6.7342	297.2	-0.5168
V 292.401	6.3556	ppb	0.1881	3.0	179.476
Zn 206.200	33.9251	ppb	1.6102	4.7	97.2576

**Cont Calib Verif (CCV)**

5/1/2013, 5:32:50 AM

Rack 3, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.826	ppb	4.0549	0.8	14955.0	100.96519
Al 308.215	4954.83	ppb	10.1718	0.2	15312.4	99.09670
As 188.980	537.471	ppb	3.9201	0.7	167.727	107.49410
B 249.678	517.840	ppb	2.7935	0.5	4244.35	20.71361Q
Ba 389.178	5202.94	ppb	18.9328	0.4	81349.6	104.05883
Be 313.042	530.719	ppb	1.7401	0.3	757316	106.14386
Ca 370.602	5290	ppb	24.10	0.5	17663	105.80529
Cd 226.502	528.972	ppb	2.4783	0.5	10476.3	105.79431
Co 228.615	529.106	ppb	3.8639	0.7	3800.92	105.82121
Cr 267.716	5402.56	ppb	29.5632	0.5	78352.4	108.05120
Cu 324.754	5121.95	ppb	60.2088	1.2	182191	102.43892
Fe 271.441	5038.62	ppb	19.9662	0.4	3544.10	100.77238
K 766.491	9937.23	ppb	23.7423	0.2	1128482	99.37229
Mg 279.078	5084.61	ppb	3.9754	0.1	5863.16	101.69229
Mn 257.610	5512.44	ppb	25.3577	0.5	483513	110.24888
Mo 202.032	501.856	ppb	1.0027	0.2	1695.04	100.37118
Na 330.237	7495.30	ppb	109.845	1.5	450.331	99.93734
Ni 231.604	2666.82	ppb	6.8433	0.3	7175.94	106.67275
Pb 220.353	511.573	ppb	6.1255	1.2	390.714	102.31452
Sb 206.834	977.301	ppb	5.6526	0.6	622.298	39.09204Q
Se 196.026	4917.52	ppb	41.0466	0.8	1207.88	98.35049
Sn 189.925	5223.79	ppb	19.5698	0.4	2815.40	104.47572
Sr 216.596	2596.28	ppb	8.5816	0.3	14309.2	103.85119
Ti 334.941	503.412	ppb	2.3773	0.5	102323	100.68236
Tl 190.794	5047.65	ppb	41.3905	0.8	2149.42	100.95299
V 292.401	5048.94	ppb	16.5898	0.3	137566	100.97875
Zn 206.200	2746.32	ppb	5.6907	0.2	7382.30	109.85268

**Cont Calib Blank (CCB)**

5/1/2013, 5:38:19 AM

Rack 3, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0909	ppb	1.0590	1165.1	-27.3762	0.09090
Al 308.215	-43.2571	ppb	1.0394	2.4	53.7528	-43.25714
As 188.980	1.0977	ppb	5.0714	462.0	-1.0067	1.09765
B 249.678	2.0964	ppb	0.5129	24.5	62.8623	2.09636
Ba 389.178	-0.1811	ppb	0.7015	387.3	-23.6744	-0.18112
Be 313.042	-0.0070	ppb	0.0040	57.3	-95.6637	-0.00704
Ca 370.602	-50.66	ppb	0.2526	0.5	-83.58	-50.66122
Cd 226.502	-0.0042	ppb	0.1200	2868.0	11.9137	-0.00419
Co 228.615	-1.0480	ppb	0.1613	15.4	-11.3720	-1.04798
Cr 267.716	0.1011	ppb	0.5924	586.2	11.3148	0.10106
Cu 324.754	-0.3773	ppb	0.1609	42.6	72.7592	-0.37735
Fe 271.441	-8.5002	ppb	3.8688	45.5	-1.5625	-8.50023
K 766.491	0.7421	ppb	0.2676	36.1	2132.81	0.74205

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-46.2349	ppb	2.9116	6.3	19.5659	-46.23494
Mn 257.610	0.1548	ppb	0.0446	28.8	23.4008	0.15484
Mo 202.032	1.0180	ppb	0.0317	3.1	5.8467	1.01798
Na 330.237	-77.7131	ppb	103.342	133.0	4.1120	-77.71308
Ni 231.604	1.2307	ppb	0.6495	52.8	3.5066	1.23070
Pb 220.353	-0.7569	ppb	0.6276	82.9	1.4534	-0.75693
Sb 206.834	1.7091	ppb	2.1972	128.6	3.5120	1.70913
Se 196.026	-3.0340	ppb	16.9816	559.7	1.4450	-3.03400
Sn 189.925	-1.2560	ppb	1.4184	112.9	-0.9048	-1.25604
Sr 216.596	-0.5988	ppb	0.4429	74.0	-8.7634	-0.59880
Ti 334.941	-0.0424	ppb	0.0377	88.9	-55.6340	-0.04237
Tl 190.794	0.6670	ppb	4.2833	642.1	-1.1877	0.66704
V 292.401	0.1978	ppb	0.0749	37.9	10.9531	0.19778
Zn 206.200	0.2444	ppb	0.9663	395.3	6.5325	0.24444

680-89693-a-1-aPDS (Samp)

5/1/2013, 5:43:48 AM

Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.0849	ppb	0.3962	0.8	1485.55
Al 308.215	2028.25	ppb	2.4522	0.1	6303.74
As 188.980	2055.09	ppb	10.0494	0.5	642.444
B 249.678	2247.19	ppb	3.3597	0.1	18290.9
Ba 389.178	2150.79	ppb	3.1634	0.1	33627.5
Be 313.042	55.2371	ppb	0.1024	0.2	78712.6
Ca 370.602	14128	ppb	15.17	0.1	48512
Cd 226.502	54.9347	ppb	0.2765	0.5	1100.34
Co 228.615	546.171	ppb	1.9779	0.4	3926.96
Cr 267.716	223.904	ppb	1.1379	0.5	3255.55
Cu 324.754	494.890	ppb	0.5271	0.1	17644.3
Fe 271.441	1209.25	ppb	6.2505	0.5	867.774
K 766.491	7378.17	ppb	3.8315	0.1	838808
Mg 279.078	12850.3	ppb	17.0501	0.1	14770.9
Mn 257.610	587.999	ppb	1.2314	0.2	51622.6
Mo 202.032	528.511	ppb	2.7327	0.5	1794.16
Na 330.237	38597.9	ppb	116.505	0.3	2283.91
Ni 231.604	555.373	ppb	2.2252	0.4	1495.22
Pb 220.353	545.864	ppb	2.0221	0.4	421.459
Sb 206.834	489.809	ppb	6.7440	1.4	293.971
Se 196.026	2030.77	ppb	11.0917	0.5	499.904
Sn 189.925	1088.99	ppb	6.3960	0.6	586.904
Sr 216.596	595.578	ppb	2.1855	0.4	3274.54
Ti 334.941	1037.31	ppb	1.8728	0.2	210264
Tl 190.794	2122.65	ppb	14.4016	0.7	902.073
V 292.401	547.677	ppb	0.7277	0.1	14847.5
Zn 206.200	721.980	ppb	1.6815	0.2	1949.36

680-89693-a-1-b ms (Samp)

5/1/2013, 5:49:17 AM

Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.0578	ppb	0.4382	0.8	1515.96
Al 308.215	5160.56	ppb	12.2299	0.2	15660.6



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	104.547	ppb	7.9859	7.6	31.1359
B 249.678	1387.25	ppb	2.0496	0.1	11295.7
Ba 389.178	112.501	ppb	0.2106	0.2	1766.83
Be 313.042	55.8174	ppb	0.0874	0.2	79348.5
Ca 370.602	13745	ppb	26.14	0.2	46434
Cd 226.502	55.3150	ppb	0.2095	0.4	1116.56
Co 228.615	53.1707	ppb	0.2424	0.5	378.094
Cr 267.716	111.931	ppb	0.3077	0.3	1631.01
Cu 324.754	328.919	ppb	0.9516	0.3	11750.8
Fe 271.441	5267.01	ppb	9.9009	0.2	3647.45
K 766.491	7155.31	ppb	15.5461	0.2	814003
Mg 279.078	12506.5	ppb	33.6066	0.3	14363.5
Mn 257.610	582.731	ppb	0.4202	0.1	51155.0
Mo 202.032	102.469	ppb	0.8870	0.9	349.159
Na 330.237	37852.7	ppb	84.1859	0.2	2243.51
Ni 231.604	122.088	ppb	0.0971	0.1	329.286
Pb 220.353	70.9634	ppb	2.4209	3.4	55.9295
Sb 206.834	47.5611	ppb	2.2195	4.7	31.6837
Se 196.026	98.3163	ppb	3.2961	3.4	26.4874
Sn 189.925	210.044	ppb	1.8600	0.9	112.968
Sr 216.596	154.402	ppb	0.4410	0.3	848.680
Ti 334.941	102.979	ppb	0.2198	0.2	20848.1
Tl 190.794	37.5520	ppb	3.0864	8.2	14.2959
V 292.401	134.013	ppb	0.2121	0.2	3639.12
Zn 206.200	273.610	ppb	1.4761	0.5	742.645

680-89693-a-1-c msd (Samp) 5/1/2013, 5:54:46 AM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.3290	ppb	0.1334	0.3	1494.32
Al 308.215	5114.30	ppb	4.6448	0.1	15521.9
As 188.980	98.0345	ppb	4.3556	4.4	29.0948
B 249.678	1394.43	ppb	0.7310	0.1	11354.1
Ba 389.178	111.226	ppb	1.1549	1.0	1746.83
Be 313.042	55.2777	ppb	0.0656	0.1	78580.6
Ca 370.602	13749	ppb	21.43	0.2	46452
Cd 226.502	54.5624	ppb	0.3041	0.6	1101.60
Co 228.615	52.3974	ppb	0.2687	0.5	372.554
Cr 267.716	110.939	ppb	0.4467	0.4	1616.64
Cu 324.754	329.264	ppb	0.6127	0.2	11763.1
Fe 271.441	5230.01	ppb	15.2142	0.3	3621.85
K 766.491	7110.12	ppb	0.8609	0.0	808875
Mg 279.078	12527.7	ppb	15.5079	0.1	14387.9
Mn 257.610	577.665	ppb	0.7278	0.1	50710.6
Mo 202.032	100.166	ppb	0.7204	0.7	341.354
Na 330.237	37761.0	ppb	91.8388	0.2	2238.11
Ni 231.604	120.294	ppb	0.6385	0.5	324.458
Pb 220.353	72.2088	ppb	1.0483	1.5	56.8975
Sb 206.834	48.4435	ppb	4.6101	9.5	32.2131
Se 196.026	110.427	ppb	3.2434	2.9	29.4534
Sn 189.925	211.026	ppb	5.7744	2.7	113.497
Sr 216.596	154.754	ppb	1.2657	0.8	850.713
Ti 334.941	101.962	ppb	0.1193	0.1	20642.0

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	33.7497	ppb	6.3833	18.9	12.6811
V 292.401	133.072	ppb	0.4446	0.3	3613.88
Zn 206.200	272.329	ppb	0.9788	0.4	739.198

**680-89693-a-2-a (Samp)**      **5/1/2013, 6:00:15 AM**      **Rack 3, Tube 42**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1916b	ppb	0.6122	319.4	-35.0174
Al 308.215	403.289b	ppb	33.9690	8.4	1393.19
As 188.980	16.1044b	ppb	4.4477	27.6	2.9975
B 249.678	222.626b	ppb	16.1218	7.2	1851.73
Ba 389.178	13.5402b	ppb	1.2962	9.6	261.123
Be 313.042	0.0383b	ppb	0.0125	32.7	-43.9290
Ca 370.602	32391b	ppb	2648	8.2	111194
Cd 226.502	0.2507b	ppb	0.3353	133.7	17.5734
Co 228.615	1.0527b	ppb	0.3154	30.0	3.8986
Cr 267.716	1.2657b	ppb	0.2821	22.3	29.8819
Cu 324.754	140.506b	ppb	9.9461	7.1	5000.32
Fe 271.441	598.300b	ppb	53.8032	9.0	418.003
K 766.491	16393.5b	ppb	1065.96	6.5	1862375
Mg 279.078	39084.4b	ppb	2853.70	7.3	44792.0
Mn 257.610	304.275b	ppb	22.1874	7.3	26787.9
Mo 202.032	7.7552b	ppb	0.3282	4.2	28.6002
Na 330.237	353532xb	ppb	26351.1	7.5	20904.1
Ni 231.604	55.3896b	ppb	5.5643	10.0	150.596
Pb 220.353	3.9791b	ppb	5.4702	137.5	5.0432
Sb 206.834	6.7743b	ppb	3.6022	53.2	6.8023
Se 196.026	9.0424b	ppb	9.8091	108.5	4.7583
Sn 189.925	-3.7867b	ppb	6.0596	160.0	-2.2973
Sr 216.596	353.555b	ppb	25.7833	7.3	1956.98
Ti 334.941	19.6415b	ppb	1.3340	6.8	3951.37
Tl 190.794	-5.0258b	ppb	1.4533	28.9	-3.8899
V 292.401	17.1251b	ppb	1.1370	6.6	469.644
Zn 206.200	46.9186b	ppb	3.9732	8.5	133.379

**680-89623-e-5-a (Samp)**      **5/1/2013, 6:05:44 AM**      **Rack 3, Tube 43**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3578	ppb	0.0451	12.6	-39.2124
Al 308.215	-36.0289	ppb	0.5864	1.6	75.0850
As 188.980	6.7408	ppb	2.2248	33.0	0.6590
B 249.678	6.0609	ppb	0.2342	3.9	89.1812
Ba 389.178	11.0091	ppb	0.5399	4.9	158.163
Be 313.042	0.0153	ppb	0.0018	11.8	-63.6798
Ca 370.602	4693	ppb	28.83	0.6	15766
Cd 226.502	0.1410	ppb	0.0636	45.1	20.5388
Co 228.615	-1.4528	ppb	0.4255	29.3	-14.2264
Cr 267.716	0.0912	ppb	0.1350	148.1	10.4189
Cu 324.754	0.2226	ppb	0.1858	83.4	82.7884
Fe 271.441	2713.54	ppb	15.9455	0.6	1879.50
K 766.491	752.522	ppb	3.5528	0.5	87441.7

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	2189.83	ppb	16.9381	0.8	2567.85
Mn 257.610	479.171	ppb	2.8552	0.6	42044.5
Mo 202.032	0.3089	ppb	1.1332	366.8	3.0966
Na 330.237	8805.43	ppb	121.829	1.4	528.010
Ni 231.604	2.1244	ppb	0.6367	30.0	6.1379
Pb 220.353	-0.5163	ppb	1.5976	309.5	1.6245
Sb 206.834	-0.6904	ppb	1.1935	172.9	2.1768
Se 196.026	2.8553	ppb	3.1645	110.8	2.9897
Sn 189.925	-1.0353	ppb	6.4457	622.6	-0.7992
Sr 216.596	64.0861	ppb	0.9843	1.5	351.701
Ti 334.941	-0.0028	ppb	0.1000	3585.8	-43.0152
Tl 190.794	-1.9823	ppb	1.8368	92.7	-2.4581
V 292.401	0.1254	ppb	0.2321	185.1	8.6938
Zn 206.200	5.9479	ppb	1.0069	16.9	22.0125

680-89695-c-35-b (Samp)

5/1/2013, 6:11:13 AM

Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1213	ppb	0.7177	591.9	-26.4786
Al 308.215	-36.5708	ppb	1.1413	3.1	73.7556
As 188.980	-2.3365	ppb	3.9135	167.5	-2.0853
B 249.678	0.4420	ppb	0.9001	203.6	49.4569
Ba 389.178	0.0179	ppb	1.4674	8217.8	-20.5549
Be 313.042	-0.0028	ppb	0.0049	175.1	-89.6757
Ca 370.602	65.98	ppb	0.2232	0.3	317.4
Cd 226.502	0.1048	ppb	0.0291	27.8	14.0614
Co 228.615	-0.6134	ppb	0.1894	30.9	-8.2612
Cr 267.716	0.7143	ppb	0.1374	19.2	20.2152
Cu 324.754	0.3115	ppb	0.1655	53.1	96.9420
Fe 271.441	-12.1748	ppb	8.8381	72.6	-4.0891
K 766.491	17.0854	ppb	0.1402	0.8	3987.41
Mg 279.078	-28.2104	ppb	7.1192	25.2	40.2005
Mn 257.610	0.7739	ppb	0.0381	4.9	77.7200
Mo 202.032	-0.4094	ppb	0.8653	211.4	1.0055
Na 330.237	41.3186	ppb	43.0813	104.3	11.1618
Ni 231.604	0.4611	ppb	0.6178	134.0	1.4356
Pb 220.353	115.131	ppb	2.6183	2.3	90.7455
Sb 206.834	0.5368	ppb	5.0235	935.8	2.6012
Se 196.026	-1.8501	ppb	12.2162	660.3	1.7355
Sn 189.925	123.369	ppb	2.7079	2.2	66.2655
Sr 216.596	-0.4341	ppb	1.0930	251.8	-7.8036
Ti 334.941	-0.0099	ppb	0.0631	640.8	-48.8951
Tl 190.794	2.3481	ppb	2.4298	103.5	-0.4727
V 292.401	-0.0790	ppb	0.0506	64.1	3.5956
Zn 206.200	9.1511	ppb	0.9638	10.5	30.5100

680-89679-d-1-a (Samp)

5/1/2013, 6:16:42 AM

Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3603	ppb	0.2470	68.6	-34.0386
Al 308.215	-30.6468	ppb	4.1819	13.6	91.1814

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.6972	ppb	8.4911	126.8	-1.9431
B 249.678	73.8112	ppb	0.8715	1.2	637.165
Ba 389.178	752.816	ppb	1.0479	0.1	11831.9
Be 313.042	0.0485	ppb	0.0135	28.0	8.3637
Ca 370.602	121387	ppb	66.62	0.1	416171
Cd 226.502	0.1374	ppb	0.1075	78.2	23.5663
Co 228.615	52.6502	ppb	0.4516	0.9	374.955
Cr 267.716	0.2472	ppb	0.3072	124.3	13.7814
Cu 324.754	9.9450	ppb	0.0175	0.2	124.815
Fe 271.441	4104.28	ppb	7.2828	0.2	2842.81
K 766.491	2322.76	ppb	1.5606	0.1	265453
Mg 279.078	45380.4	ppb	84.7396	0.2	51981.3
Mn 257.610	1891.46	ppb	2.6248	0.1	166015
Mo 202.032	1.3165	ppb	1.5109	114.8	6.3353
Na 330.237	57584.6	ppb	315.376	0.5	3410.64
Ni 231.604	643.346	ppb	1.8471	0.3	1732.42
Pb 220.353	-1.7059	ppb	1.7908	105.0	0.6926
Sb 206.834	3.6505	ppb	7.1138	194.9	5.8142
Se 196.026	11.0599	ppb	10.3733	93.8	5.7909
Sn 189.925	-0.7244	ppb	3.6846	508.6	-1.0042
Sr 216.596	704.602	ppb	3.7442	0.5	3891.31
Ti 334.941	-0.0304	ppb	0.0812	266.8	70.5509
Tl 190.794	-8.3056	ppb	4.0303	48.5	-6.1256
V 292.401	2.1932	ppb	0.3071	14.0	62.7324
Zn 206.200	70.6791	ppb	1.0828	1.5	197.618

680-89679-d-2-a (Samp)

5/1/2013, 6:22:11 AM

Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2882	ppb	0.1542	53.5	-33.6902
Al 308.215	-28.0878	ppb	1.4616	5.2	99.1617
As 188.980	6.1356	ppb	8.4697	138.0	-1.9789
B 249.678	73.5386	ppb	0.6808	0.9	642.284
Ba 389.178	660.130	ppb	1.5890	0.2	10374.0
Be 313.042	-0.0058	ppb	0.0055	95.1	-70.5037
Ca 370.602	115399	ppb	68.84	0.1	396190
Cd 226.502	0.2722	ppb	0.1989	73.1	18.6331
Co 228.615	31.3344	ppb	0.2684	0.9	221.699
Cr 267.716	0.1084	ppb	0.7611	702.2	12.8572
Cu 324.754	8.1975	ppb	0.3716	4.5	76.3917
Fe 271.441	527.022	ppb	3.5866	0.7	369.859
K 766.491	2138.66	ppb	0.4587	0.0	244584
Mg 279.078	42395.3	ppb	38.2900	0.1	48579.1
Mn 257.610	1301.12	ppb	3.0178	0.2	114227
Mo 202.032	-0.0677	ppb	0.7253	1071.9	2.0958
Na 330.237	55866.7	ppb	79.3848	0.1	3310.53
Ni 231.604	572.891	ppb	2.6169	0.5	1542.63
Pb 220.353	0.2498	ppb	3.4800	1392.9	2.2232
Sb 206.834	1.9285	ppb	6.0626	314.4	4.6436
Se 196.026	-7.2795	ppb	3.6787	50.5	1.1714
Sn 189.925	-1.9638	ppb	4.4398	226.1	-1.6535
Sr 216.596	662.083	ppb	3.6431	0.6	3655.88
Ti 334.941	-0.1648	ppb	0.0307	18.7	37.0026

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-3.8433	ppb	5.5609	144.7	-4.0718
V 292.401	0.8760	ppb	0.1219	13.9	27.5090
Zn 206.200	13.9932	ppb	1.1980	8.6	44.8378

**680-89679-d-3-a (Samp)**      **5/1/2013, 6:27:40 AM**      **Rack 3, Tube 47**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3680	ppb	0.4396	119.5	-39.7242
Al 308.215	-20.1819	ppb	1.1455	5.7	124.358
As 188.980	44.4698	ppb	2.0243	4.6	10.8750
B 249.678	71.9230	ppb	0.4669	0.6	629.043
Ba 389.178	177.139	ppb	1.2828	0.7	2830.80
Be 313.042	-0.0050	ppb	0.0023	46.4	-76.6931
Ca 370.602	80427	ppb	20.12	0.0	276172
Cd 226.502	0.0268	ppb	0.1274	475.2	13.0038
Co 228.615	-0.0341	ppb	0.1831	536.6	-4.5793
Cr 267.716	0.1650	ppb	0.4209	255.0	12.8209
Cu 324.754	2.5975	ppb	0.2269	8.7	-32.9095
Fe 271.441	148.099	ppb	3.3495	2.3	106.810
K 766.491	2375.19	ppb	1.8494	0.1	271541
Mg 279.078	46103.4	ppb	141.617	0.3	52825.0
Mn 257.610	370.508	ppb	0.1912	0.1	32613.7
Mo 202.032	40.1313	ppb	0.7472	1.9	138.496
Na 330.237	58270.3	ppb	67.8178	0.1	3452.75
Ni 231.604	8.5029	ppb	1.1333	13.3	24.7113
Pb 220.353	0.4105	ppb	3.4622	843.5	2.2956
Sb 206.834	13.3651	ppb	3.3691	25.2	11.1147
Se 196.026	1.0248	ppb	6.6186	645.9	2.9751
Sn 189.925	-0.5804	ppb	6.5917	1135.8	-0.7926
Sr 216.596	621.472	ppb	1.0893	0.2	3447.30
Ti 334.941	-0.1269	ppb	0.0284	22.4	8.7303
Tl 190.794	-0.0645	ppb	5.0455	7822.7	-2.2264
V 292.401	10.2973	ppb	0.2589	2.5	277.293
Zn 206.200	6.8729	ppb	0.1994	2.9	25.7741

**680-89679-a-4-a (Samp)**      **5/1/2013, 6:33:09 AM**      **Rack 3, Tube 48**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4947	ppb	0.5231	105.7	-44.0537
Al 308.215	-25.5634	ppb	1.5814	6.2	108.280
As 188.980	50.5469	ppb	2.7157	5.4	12.8929
B 249.678	72.7902	ppb	0.6037	0.8	636.122
Ba 389.178	413.163	ppb	1.0947	0.3	6509.27
Be 313.042	-0.0139	ppb	0.0057	40.9	-97.5613
Ca 370.602	75276	ppb	15.38	0.0	258502
Cd 226.502	0.2048	ppb	0.0562	27.5	16.2556
Co 228.615	-0.5441	ppb	0.7133	131.1	-8.4565
Cr 267.716	0.2748	ppb	0.7137	259.7	14.3562
Cu 324.754	2.6610	ppb	0.2434	9.1	-17.0415
Fe 271.441	42.5601	ppb	6.6619	15.7	33.8005
K 766.491	2375.71	ppb	2.0360	0.1	271544

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	40149.4	ppb	51.0018	0.1	46012.7
Mn 257.610	207.507	ppb	0.0496	0.0	18303.1
Mo 202.032	63.4731	ppb	1.0646	1.7	217.711
Na 330.237	57463.7	ppb	236.724	0.4	3405.15
Ni 231.604	6.9143	ppb	1.1149	16.1	20.2126
Pb 220.353	12.0161	ppb	4.3571	36.3	11.2090
Sb 206.834	6.9447	ppb	1.9319	27.8	7.1813
Se 196.026	2.9812	ppb	6.9213	232.2	3.3797
Sn 189.925	0.1401	ppb	1.5971	1139.9	-0.3876
Sr 216.596	533.139	ppb	1.2966	0.2	2956.32
Ti 334.941	-0.1293	ppb	0.0418	32.3	2.7360
Tl 190.794	-1.3135	ppb	3.5919	273.5	-2.7398
V 292.401	0.9021	ppb	0.0551	6.1	15.6429
Zn 206.200	28.5779	ppb	0.4930	1.7	84.0247

## Cont Calib Verif (CCV)

5/1/2013, 6:38:37 AM

Rack 3, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.868	ppb	31.3741	6.4	14421.8	97.37357
Al 308.215	4689.64	ppb	423.770	9.0	14504.2	93.79289
As 188.980	507.624	ppb	50.6596	10.0	158.344	101.52477
B 249.678	493.779	ppb	41.9941	8.5	4049.28	19.75115Q
Ba 389.178	4987.50	ppb	399.969	8.0	77980.1	99.74992
Be 313.042	508.397	ppb	42.7204	8.4	725441	101.67944
Ca 370.602	5081	ppb	404.1	8.0	16969	101.61245
Cd 226.502	505.736	ppb	49.1696	9.7	10016.7	101.14714
Co 228.615	508.151	ppb	43.1110	8.5	3650.17	101.63019
Cr 267.716	5201.71	ppb	449.478	8.6	75440.2	104.03417
Cu 324.754	4960.43	ppb	361.249	7.3	176450	99.20857
Fe 271.441	4810.85	ppb	432.127	9.0	3383.98	96.21691
K 766.491	9458.35	ppb	826.916	8.7	1074192	94.58353
Mg 279.078	4832.17	ppb	405.158	8.4	5575.54	96.64346
Mn 257.610	5277.62	ppb	466.449	8.8	462916	105.55236
Mo 202.032	475.940	ppb	44.2602	9.3	1607.60	95.18790
Na 330.237	7261.05	ppb	803.837	11.1	436.590	96.81401
Ni 231.604	2561.25	ppb	218.617	8.5	6891.90	102.45005
Pb 220.353	491.953	ppb	37.9606	7.7	375.835	98.39059
Sb 206.834	938.323	ppb	85.4150	9.1	597.489	37.53291Q
Se 196.026	4677.29	ppb	395.779	8.5	1148.98	93.54572
Sn 189.925	5032.11	ppb	435.283	8.7	2712.09	100.64211
Sr 216.596	2477.21	ppb	208.057	8.4	13652.1	99.08832
Ti 334.941	477.843	ppb	47.8722	10.0	97125.8	95.56853
Tl 190.794	4849.59	ppb	409.497	8.4	2064.97	96.99176
V 292.401	4799.28	ppb	420.292	8.8	130761	95.98553
Zn 206.200	2639.14	ppb	227.436	8.6	7094.50	105.56563

## Cont Calib Blank (CCB)

5/1/2013, 6:44:06 AM

Rack 3, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1581	ppb	0.3238	204.8	-34.7683	-0.15807
Al 308.215	-42.4280	ppb	2.6405	6.2	56.2314	-42.42796

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	3.0999	ppb	4.6991	151.6	-0.3791	3.09988
B 249.678	1.7075	ppb	0.1786	10.5	59.7147	1.70754
Ba 389.178	-0.4978	ppb	1.3270	266.6	-28.6243	-0.49778
Be 313.042	-0.0054	ppb	0.0109	204.0	-93.2658	-0.00537
Ca 370.602	-49.27	ppb	4.271	8.7	-78.86	-49.27430
Cd 226.502	0.0416	ppb	0.2114	507.6	12.8197	0.04164
Co 228.615	-0.9601	ppb	0.5032	52.4	-10.7352	-0.96014
Cr 267.716	-0.0961	ppb	0.6199	645.0	8.4550	-0.09610
Cu 324.754	-0.0050	ppb	0.1239	2478.7	85.9908	-0.00500
Fe 271.441	-8.2095	ppb	4.0980	49.9	-1.3470	-8.20950
K 766.491	1.0486	ppb	0.1550	14.8	2167.69	1.04857
Mg 279.078	-44.8456	ppb	5.1765	11.5	21.1547	-44.84558
Mn 257.610	0.1293	ppb	0.0738	57.1	21.1659	0.12934
Mo 202.032	1.1652	ppb	0.7773	66.7	6.3462	1.16521
Na 330.237	-40.0519	ppb	168.891	421.7	6.3376	-40.05188
Ni 231.604	0.2769	ppb	0.3519	127.1	0.9406	0.27689
Pb 220.353	-1.7415	ppb	3.4263	196.7	0.6949	-1.74146
Sb 206.834	1.0911	ppb	3.2091	294.1	3.1446	1.09112
Se 196.026	7.0708	ppb	11.6508	164.8	3.9205	7.07075
Sn 189.925	0.8460	ppb	3.6451	430.8	0.2282	0.84602
Sr 216.596	0.2458	ppb	0.8011	326.0	-4.0371	0.24578
Ti 334.941	0.0517	ppb	0.0507	97.9	-36.5502	0.05175
Tl 190.794	2.9369	ppb	1.2933	44.0	-0.2220	2.93686
V 292.401	0.1853	ppb	0.1033	55.8	10.6707	0.18528
Zn 206.200	0.4250	ppb	0.5592	131.6	7.0181	0.42496

680-89679-f-5-a (Samp)

5/1/2013, 6:49:35 AM

Rack 3, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0404	ppb	0.3994	989.0	-31.4130
Al 308.215	-27.8231	ppb	3.7100	13.3	101.537
As 188.980	53.8148	ppb	3.0216	5.6	14.0389
B 249.678	73.3797	ppb	0.7161	1.0	640.914
Ba 389.178	435.040	ppb	0.6920	0.2	6855.53
Be 313.042	0.0002	ppb	0.0160	7894.5	-79.4823
Ca 370.602	69558	ppb	18.26	0.0	238869
Cd 226.502	0.2265	ppb	0.0424	18.7	16.6789
Co 228.615	-0.7497	ppb	0.3772	50.3	-9.9595
Cr 267.716	-0.5312	ppb	0.1637	30.8	2.4472
Cu 324.754	2.6969	ppb	0.1057	3.9	-0.2782
Fe 271.441	29.5500	ppb	6.4050	21.7	24.8128
K 766.491	2406.82	ppb	2.5123	0.1	275069
Mg 279.078	42456.6	ppb	117.695	0.3	48653.1
Mn 257.610	3.1532	ppb	0.0840	2.7	385.348
Mo 202.032	64.5525	ppb	0.5466	0.8	221.375
Na 330.237	56702.6	ppb	148.831	0.3	3360.19
Ni 231.604	8.6783	ppb	1.4198	16.4	25.0452
Pb 220.353	-2.4975	ppb	3.4760	139.2	0.0235
Sb 206.834	9.6738	ppb	1.9017	19.7	8.7635
Se 196.026	5.2361	ppb	3.6357	69.4	3.8954
Sn 189.925	-4.0814	ppb	2.4239	59.4	-2.6443
Sr 216.596	416.746	ppb	0.1224	0.0	2309.77
Ti 334.941	-0.1174	ppb	0.0704	59.9	-0.6539

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	4.4102	ppb	7.7384	175.5	-0.2598
V 292.401	0.3764	ppb	0.2227	59.2	1.1730
Zn 206.200	43.9987	ppb	0.0412	0.1	125.617

**680-89752-a-1-a (Samp)**      **5/1/2013, 6:55:04 AM**      **Rack 3, Tube 52**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.8107b	ppb	0.2474	2.8	231.900
Al 308.215	-31.3830b	ppb	1.8283	5.8	92.2995
As 188.980	-3.2623b	ppb	4.4764	137.2	-2.6181
B 249.678	136.883b	ppb	0.4605	0.3	1155.92
Ba 389.178	60.5539b	ppb	0.5728	0.9	933.488
Be 313.042	-0.0220b	ppb	0.0072	32.5	-73.2737
Ca 370.602	12264b	ppb	20.24	0.2	42190
Cd 226.502	18.5324b	ppb	0.2081	1.1	379.142
Co 228.615	-0.9486b	ppb	0.2993	31.6	-12.5396
Cr 267.716	1.0238b	ppb	0.4715	46.1	20.2944
Cu 324.754	19.5953b	ppb	0.1671	0.9	751.558
Fe 271.441	14.3268b	ppb	3.3181	23.2	14.3382
K 766.491	4567.22b	ppb	4.8581	0.1	520320
Mg 279.078	3976.57b	ppb	7.2286	0.2	4622.49
Mn 257.610	43.5936b	ppb	0.0704	0.2	3843.29
Mo 202.032	127.883b	ppb	1.7584	1.4	436.218
Na 330.237	-654702b	ppb	15084.8	2.3	-37849.9
Ni 231.604	7.6652b	ppb	0.3171	4.1	21.4995
Pb 220.353	247.629b	ppb	2.9563	1.2	192.663
Sb 206.834	1.3232b	ppb	1.8338	138.6	3.1432
Se 196.026	-1.1442b	ppb	14.1064	1232.9	1.9711
Sn 189.925	1.0280b	ppb	8.1033	788.3	0.2197
Sr 216.596	300.114b	ppb	0.2723	0.1	1658.99
Ti 334.941	-1.3082b	ppb	0.0626	4.8	-283.303
Tl 190.794	28.6271b	ppb	11.3155	39.5	10.4679
V 292.401	-0.2680b	ppb	0.2292	85.5	-28.6017
Zn 206.200	565273xb	ppb	468.323	0.1	1521910

**680-89761-b-1-d (Samp)**      **5/1/2013, 7:00:33 AM**      **Rack 3, Tube 53**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0267b	ppb	0.4657	45.4	-47.6781
Al 308.215	851.726b	ppb	6.5897	0.8	2878.75
As 188.980	47.1685b	ppb	7.4275	15.7	3.7600
B 249.678	862.453b	ppb	2.0605	0.2	6997.66
Ba 389.178	272.959b	ppb	2.1241	0.8	4275.89
Be 313.042	-0.0426b	ppb	0.0148	34.8	-605.160
Ca 370.602	497381b	ppb	671.7	0.1	1707533
Cd 226.502	0.4905b	ppb	0.3580	73.0	20.8895
Co 228.615	-0.6903b	ppb	0.2399	34.8	-97.4013
Cr 267.716	301.999b	ppb	0.6945	0.2	4396.31
Cu 324.754	13.8615b	ppb	0.2538	1.8	-705.995
Fe 271.441	46.9461b	ppb	7.1022	15.1	42.4883
K 766.491	393018oxb	ppb	609.969	0.2	44601508



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	499.208b	ppb	4.0271	0.8	643.478
Mn 257.610	9.2003b	ppb	0.0460	0.5	819.824
Mo 202.032	5917.51xb	ppb	15.4989	0.3	20076.7
Na 330.237	367087xb	ppb	951.094	0.3	21706.2
Ni 231.604	1.4764b	ppb	1.4758	100.0	3.3678
Pb 220.353	0.7873b	ppb	8.3806	1064.4	-5.7812
Sb 206.834	11.9475b	ppb	1.8342	15.4	4.5954
Se 196.026	116.009b	ppb	10.1690	8.8	31.9764
Sn 189.925	1.1012b	ppb	7.4115	673.0	-1.1897
Sr 216.596	3201.31b	ppb	10.8779	0.3	17690.0
Ti 334.941	2.9870b	ppb	0.1045	3.5	1067.76
Tl 190.794	8.8953b	ppb	6.6201	74.4	-7.7376
V 292.401	10.4169b	ppb	0.4536	4.4	-1107.30
Zn 206.200	457.279b	ppb	22.7307	5.0	1236.05

680-89761-b-1-e ms (Samp) 5/1/2013, 7:06:02 AM Rack 3, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.8379b	ppb	0.5396	1.0	1641.36
Al 308.215	6572.11b	ppb	10.9881	0.2	20034.6
As 188.980	150.926b	ppb	5.8607	3.9	36.1032
B 249.678	1079.74b	ppb	2.8213	0.3	8749.91
Ba 389.178	381.725b	ppb	1.9747	0.5	5992.04
Be 313.042	56.5792b	ppb	0.0166	0.0	79949.1
Ca 370.602	507039b	ppb	673.7	0.1	1739869
Cd 226.502	55.0827b	ppb	0.6899	1.3	1110.91
Co 228.615	52.3858b	ppb	0.6372	1.2	282.545
Cr 267.716	417.382b	ppb	0.1750	0.0	6067.72
Cu 324.754	127.396b	ppb	0.9625	0.8	3309.11
Fe 271.441	5174.14b	ppb	11.9568	0.2	3588.81
K 766.491	392559oxb	ppb	921.138	0.2	44549396
Mg 279.078	5543.99b	ppb	15.6577	0.3	6397.06
Mn 257.610	570.299b	ppb	0.8161	0.1	50050.3
Mo 202.032	6109.59xb	ppb	20.9067	0.3	20727.6
Na 330.237	378054xb	ppb	1010.30	0.3	22351.1
Ni 231.604	109.459b	ppb	0.6395	0.6	294.231
Pb 220.353	50.2787b	ppb	5.2203	10.4	31.3879
Sb 206.834	63.4599b	ppb	2.9462	4.6	36.0210
Se 196.026	235.000b	ppb	8.6504	3.7	61.2860
Sn 189.925	210.803b	ppb	2.1985	1.0	111.830
Sr 216.596	3344.58b	ppb	3.8494	0.1	18481.2
Ti 334.941	109.423b	ppb	0.3919	0.4	22660.9
Tl 190.794	39.5312b	ppb	10.1581	25.7	5.0098
V 292.401	113.745b	ppb	0.6093	0.5	1666.71
Zn 206.200	168.305b	ppb	0.5641	0.3	457.914

680-89761-b-1-f msd (Samp) 5/1/2013, 7:11:30 AM Rack 3, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.8473b	ppb	4.1346	7.4	1641.66
Al 308.215	6606.84b	ppb	604.541	9.2	20138.9

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	165.484b	ppb	4.7588	2.9	40.6833
B 249.678	1084.07b	ppb	100.121	9.2	8784.83
Ba 389.178	384.202b	ppb	33.0422	8.6	6030.91
Be 313.042	56.6374b	ppb	5.0340	8.9	80031.9
Ca 370.602	506266b	ppb	42485	8.4	1737205
Cd 226.502	55.0421b	ppb	4.8421	8.8	1110.25
Co 228.615	51.8640b	ppb	3.1707	6.1	278.680
Cr 267.716	418.637b	ppb	37.6887	9.0	6085.86
Cu 324.754	126.963b	ppb	10.8389	8.5	3295.80
Fe 271.441	5228.07b	ppb	497.414	9.5	3626.05
K 766.491	394150oxb	ppb	24344.1	6.2	44729924
Mg 279.078	5557.53b	ppb	510.171	9.2	6412.35
Mn 257.610	573.333b	ppb	52.1518	9.1	50316.5
Mo 202.032	6112.80xb	ppb	540.760	8.8	20738.5
Na 330.237	367925xb	ppb	21346.9	5.8	21752.4
Ni 231.604	109.276b	ppb	9.5150	8.7	293.743
Pb 220.353	54.2606b	ppb	3.2471	6.0	34.4379
Sb 206.834	64.5709b	ppb	12.9916	20.1	36.6672
Se 196.026	227.418b	ppb	19.9787	8.8	59.4272
Sn 189.925	213.045b	ppb	11.4904	5.4	113.040
Sr 216.596	3344.08b	ppb	289.757	8.7	18478.3
Ti 334.941	111.025b	ppb	10.0898	9.1	22985.6
Tl 190.794	41.7179b	ppb	9.4345	22.6	5.9345
V 292.401	114.266b	ppb	4.7961	4.2	1678.88
Zn 206.200	147.670b	ppb	13.5968	9.2	402.356

680-89761-a-3-b (Samp)

5/1/2013, 7:16:59 AM

Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5074b	ppb	0.4298	28.5	-53.2654
Al 308.215	634.732b	ppb	7.7445	1.2	2324.63
As 188.980	93.8796b	ppb	12.1074	12.9	9.9802
B 249.678	726.642b	ppb	1.1478	0.2	5861.57
Ba 389.178	409.843b	ppb	0.8173	0.2	6434.60
Be 313.042	-0.1062b	ppb	0.0078	7.4	-977.225
Ca 370.602	921722xb	ppb	2200	0.2	3164256
Cd 226.502	0.9828b	ppb	0.1549	15.8	29.9459
Co 228.615	-1.5078b	ppb	0.2203	14.6	-163.096
Cr 267.716	466.074b	ppb	0.2504	0.1	6780.18
Cu 324.754	27.2207b	ppb	1.1970	4.4	-1334.99
Fe 271.441	2.4072b	ppb	9.7399	404.6	15.6056
K 766.491	389475oxb	ppb	513.694	0.1	44199404
Mg 279.078	191.947b	ppb	6.3693	3.3	292.033
Mn 257.610	4.3480b	ppb	0.0216	0.5	395.586
Mo 202.032	9949.02xb	ppb	14.1355	0.1	33753.1
Na 330.237	585889xb	ppb	595.637	0.1	34637.7
Ni 231.604	-1.6054b	ppb	2.5733	160.3	-5.4996
Pb 220.353	-1.0530b	ppb	5.3474	507.8	-12.8071
Sb 206.834	23.3084b	ppb	7.5845	32.5	8.3104
Se 196.026	191.307b	ppb	9.4771	5.0	51.5805
Sn 189.925	4.9789b	ppb	3.7405	75.1	-0.4370
Sr 216.596	5380.97b	ppb	10.9178	0.2	29741.8
Ti 334.941	48.3867b	ppb	2.7739	5.7	10705.3

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	9.8765b	ppb	4.9507	50.1	-14.8627
V 292.401	9.8830b	ppb	0.5528	5.6	-2068.54
Zn 206.200	17.6951b	ppb	0.3368	1.9	51.9895

680-89761-a-5-b (Samp) 5/1/2013, 7:22:28 AM Rack 3, Tube 57

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3091b	ppb	0.3616	27.6	-57.0097
Al 308.215	1097.85b	ppb	2.6206	0.2	3606.87
As 188.980	47.7403b	ppb	4.5914	9.6	3.3715
B 249.678	750.445b	ppb	1.3587	0.2	6091.43
Ba 389.178	247.293b	ppb	0.5114	0.2	3872.78
Be 313.042	-0.0036b	ppb	0.0093	261.7	-506.729
Ca 370.602	520767b	ppb	1236	0.2	1787794
Cd 226.502	0.5059b	ppb	0.3400	67.2	21.5677
Co 228.615	-0.7861b	ppb	0.2481	31.6	-91.4841
Cr 267.716	246.521b	ppb	0.9442	0.4	3591.17
Cu 324.754	16.3535b	ppb	0.3140	1.9	-683.049
Fe 271.441	193.256b	ppb	6.8446	3.5	143.278
K 766.491	390910oxb	ppb	881.587	0.2	44362292
Mg 279.078	453.703b	ppb	6.8227	1.5	590.889
Mn 257.610	11.5224b	ppb	0.0517	0.4	1024.22
Mo 202.032	5540.34xb	ppb	8.8646	0.2	18797.2
Na 330.237	349531xb	ppb	1588.16	0.5	20667.6
Ni 231.604	3.0406b	ppb	0.2331	7.7	7.6326
Pb 220.353	6.0507b	ppb	7.7644	128.3	-1.1674
Sb 206.834	12.0072b	ppb	4.7292	39.4	5.0761
Se 196.026	100.986b	ppb	7.9440	7.9	28.3607
Sn 189.925	3.2399b	ppb	3.6764	113.5	-0.1054
Sr 216.596	3313.25b	ppb	8.7708	0.3	18319.0
Ti 334.941	58.7522b	ppb	3.0945	5.3	12394.4
Tl 190.794	2.9793b	ppb	3.7581	126.1	-10.0457
V 292.401	8.6023b	ppb	0.4804	5.6	-1061.10
Zn 206.200	129.799b	ppb	0.8435	0.6	354.546

680-89745-b-1-a (Samp) 5/1/2013, 7:27:57 AM Rack 3, Tube 58

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1362b	ppb	0.3829	33.7	-64.9636
Al 308.215	87.1753b	ppb	2.7847	3.2	446.398
As 188.980	18.1197b	ppb	1.8104	10.0	-2.1673
B 249.678	307.145b	ppb	0.3252	0.1	2539.03
Ba 389.178	693.230b	ppb	0.7180	0.1	11118.4
Be 313.042	0.0936b	ppb	0.0087	9.3	-10.6054
Ca 370.602	304794b	ppb	400.5	0.1	1046412
Cd 226.502	0.6645b	ppb	0.1065	16.0	21.6082
Co 228.615	2.4324b	ppb	0.2465	10.1	13.6867
Cr 267.716	3.2328b	ppb	0.5774	17.9	65.0723
Cu 324.754	11.1602b	ppb	0.5373	4.8	-319.271
Fe 271.441	11.8349b	ppb	6.6115	55.9	12.8330
K 766.491	55642.9xb	ppb	534.855	1.0	6316215

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	169756b	ppb	502.456	0.3	194315
Mn 257.610	0.8037b	ppb	0.0885	11.0	473.109
Mo 202.032	24.8410b	ppb	1.6786	6.8	86.6228
Na 330.237	1756129xb	ppb	8183.15	0.5	103832
Ni 231.604	9.3406b	ppb	2.1968	23.5	31.3763
Pb 220.353	-0.9926b	ppb	10.0504	1012.5	1.2228
Sb 206.834	0.9779b	ppb	6.9935	715.2	5.6365
Se 196.026	-8.2181b	ppb	14.6381	178.1	1.9427
Sn 189.925	-3.4224b	ppb	5.0006	146.1	-2.7072
Sr 216.596	6196.42xb	ppb	9.3874	0.2	34408.4
Ti 334.941	-0.0793b	ppb	0.0854	107.6	167.169
Tl 190.794	0.7221b	ppb	11.0832	1534.9	-3.7927
V 292.401	22.4786b	ppb	0.2925	1.3	603.806
Zn 206.200	17904.1b	ppb	11.9794	0.1	48214.9

680-89745-b-2-a (Samp) 5/1/2013, 7:33:26 AM Rack 3, Tube 59

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4900b	ppb	0.1653	33.7	-44.8400
Al 308.215	71.6488b	ppb	2.1393	3.0	399.615
As 188.980	6.0747b	ppb	7.9822	131.4	-0.9038
B 249.678	298.593b	ppb	0.6656	0.2	2469.32
Ba 389.178	171.171b	ppb	0.1918	0.1	2718.17
Be 313.042	0.0600b	ppb	0.0049	8.1	-34.1859
Ca 370.602	68422b	ppb	97.13	0.1	234951
Cd 226.502	0.2523b	ppb	0.1732	68.6	15.5063
Co 228.615	0.5006b	ppb	0.5604	111.9	-0.3649
Cr 267.716	4.1234b	ppb	0.2948	7.2	73.1381
Cu 324.754	17.2677b	ppb	0.0715	0.4	519.806
Fe 271.441	135.936b	ppb	7.2307	5.3	98.4953
K 766.491	23944.1b	ppb	38.8273	0.2	2719171
Mg 279.078	35245.1b	ppb	58.0408	0.2	40401.0
Mn 257.610	9.1978b	ppb	0.0849	0.9	897.782
Mo 202.032	15.9430b	ppb	0.9958	6.2	56.4231
Na 330.237	753446xb	ppb	2495.66	0.3	44544.7
Ni 231.604	5.1416b	ppb	1.1128	21.6	15.2869
Pb 220.353	-0.5806b	ppb	4.5315	780.5	1.5517
Sb 206.834	5.5491b	ppb	1.8033	32.5	6.3866
Se 196.026	5.0263b	ppb	5.4990	109.4	3.8030
Sn 189.925	-5.2046b	ppb	2.2090	42.4	-3.1008
Sr 216.596	1393.76b	ppb	0.5395	0.0	7735.07
Ti 334.941	0.4660b	ppb	0.0646	13.9	81.0112
Tl 190.794	-4.7636b	ppb	5.8916	123.7	-4.0854
V 292.401	21.4290b	ppb	0.0413	0.2	582.440
Zn 206.200	2169.98b	ppb	5.4371	0.3	5849.24

680-89745-b-3-a (Samp) 5/1/2013, 7:38:55 AM Rack 3, Tube 60

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5134b	ppb	0.5253	102.3	-45.3020
Al 308.215	111.392b	ppb	1.1760	1.1	518.855

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	5.9674b	ppb	5.3923	90.4	0.4625
B 249.678	151.250b	ppb	0.2151	0.1	1273.60
Ba 389.178	59.9943b	ppb	0.4164	0.7	919.240
Be 313.042	0.0495b	ppb	0.0038	7.6	-53.4868
Ca 370.602	2758b	ppb	2.850	0.1	9557
Cd 226.502	-0.0634b	ppb	0.1851	291.9	9.0245
Co 228.615	2.9077b	ppb	0.3567	12.3	16.9589
Cr 267.716	4.3912b	ppb	0.2266	5.2	76.6000
Cu 324.754	3.7912b	ppb	0.1186	3.1	213.210
Fe 271.441	6.9117b	ppb	4.3109	62.4	9.4732
K 766.491	7244.21b	ppb	11.4293	0.2	824104
Mg 279.078	1151.39b	ppb	12.6574	1.1	1389.88
Mn 257.610	1.2236b	ppb	0.0896	7.3	118.738
Mo 202.032	9.3375b	ppb	0.6265	6.7	34.0218
Na 330.237	661308xb	ppb	3809.62	0.6	39095.8
Ni 231.604	-0.5328b	ppb	0.8323	156.2	-1.1990
Pb 220.353	1.5545b	ppb	3.3212	213.6	3.2020
Sb 206.834	1.1453b	ppb	2.2647	197.7	3.1904
Se 196.026	9.3735b	ppb	9.4259	100.6	4.4996
Sn 189.925	-2.2099b	ppb	3.7163	168.2	-1.2904
Sr 216.596	70.0276b	ppb	0.1745	0.2	383.380
Ti 334.941	0.2900b	ppb	0.0400	13.8	-18.6591
Tl 190.794	-3.6869b	ppb	5.5335	150.1	-3.0420
V 292.401	26.3828b	ppb	0.2576	1.0	719.575
Zn 206.200	60.3902b	ppb	0.6295	1.0	168.487

Cont Calib Verif (CCV)

5/1/2013, 7:44:24 AM

Rack 4, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.692	ppb	4.4594	0.9	15010.4	101.33831
Al 308.215	4935.04	ppb	8.6537	0.2	15252.2	98.70075
As 188.980	528.338	ppb	7.4626	1.4	164.862	105.66763
B 249.678	518.552	ppb	1.6278	0.3	4250.10	20.74209Q
Ba 389.178	5239.13	ppb	14.7387	0.3	81915.3	104.78262
Be 313.042	528.255	ppb	1.7593	0.3	753802	105.65104
Ca 370.602	5424	ppb	18.89	0.3	18122	108.47629
Cd 226.502	532.391	ppb	2.1386	0.4	10543.9	106.47813
Co 228.615	531.576	ppb	0.5802	0.1	3818.67	106.31512
Cr 267.716	5447.69	ppb	21.1612	0.4	79007.2	108.95375
Cu 324.754	5144.67	ppb	28.6092	0.6	182999	102.89335
Fe 271.441	5032.75	ppb	24.0304	0.5	3539.82	100.65501
K 766.491	9991.61	ppb	34.4925	0.3	1134646	99.91612
Mg 279.078	5031.74	ppb	24.0961	0.5	5802.68	100.63476
Mn 257.610	5535.62	ppb	20.3440	0.4	485545	110.71230Q
Mo 202.032	497.089	ppb	1.3052	0.3	1678.91	99.41783
Na 330.237	7794.33	ppb	170.157	2.2	467.996	103.92447
Ni 231.604	2670.99	ppb	10.8839	0.4	7187.21	106.83967
Pb 220.353	510.664	ppb	1.7601	0.3	390.009	102.13282
Sb 206.834	991.874	ppb	6.0051	0.6	631.026	39.67498Q
Se 196.026	4937.86	ppb	32.1297	0.7	1212.86	98.75718
Sn 189.925	5294.22	ppb	17.3194	0.3	2853.36	105.88431
Sr 216.596	2593.48	ppb	5.3397	0.2	14293.6	103.73933
Ti 334.941	505.922	ppb	1.5217	0.3	102832	101.18431

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	5093.47	ppb	10.5165	0.2	2168.87	101.86938
V 292.401	5024.66	ppb	16.5339	0.3	136902	100.49328
Zn 206.200	2752.59	ppb	11.3181	0.4	7399.20	110.10371

Cont Calib Blank (CCB)

5/1/2013, 7:49:54 AM

Rack 4, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1779	ppb	0.0377	21.2	-35.3551	-0.17792
Al 308.215	-42.8343	ppb	1.3675	3.2	55.0611	-42.83432
As 188.980	-0.5788	ppb	3.2894	568.3	-1.5318	-0.57882
B 249.678	2.0784	ppb	1.1774	56.7	62.7151	2.07839
Ba 389.178	0.3307	ppb	0.3074	93.0	-15.6645	0.33074
Be 313.042	0.0246	ppb	0.0226	91.9	-50.5778	0.02463
Ca 370.602	-47.87	ppb	1.236	2.6	-73.80	-47.87411
Cd 226.502	0.0757	ppb	0.0548	72.3	13.4897	0.07570
Co 228.615	-0.9854	ppb	0.2643	26.8	-10.9381	-0.98536
Cr 267.716	0.4136	ppb	0.0324	7.8	15.8485	0.41361
Cu 324.754	-0.0263	ppb	0.3041	1156.7	85.2367	-0.02629
Fe 271.441	-9.8505	ppb	10.4925	106.5	-2.4822	-9.85055
K 766.491	5.7370	ppb	0.8654	15.1	2699.52	5.73698
Mg 279.078	-39.5115	ppb	3.7588	9.5	27.2633	-39.51148
Mn 257.610	0.2679	ppb	0.2513	93.8	33.3191	0.26789
Mo 202.032	2.4117	ppb	0.1430	5.9	10.5742	2.41166
Na 330.237	-111.669	ppb	44.5409	39.9	2.1112	-111.66936
Ni 231.604	0.5365	ppb	0.3037	56.6	1.6367	0.53646
Pb 220.353	1.2643	ppb	1.8326	145.0	3.0088	1.26427
Sb 206.834	0.7827	ppb	2.2512	287.6	2.9546	0.78267
Se 196.026	2.9802	ppb	7.2695	243.9	2.9184	2.98018
Sn 189.925	-2.0925	ppb	5.5396	264.7	-1.3557	-2.09250
Sr 216.596	-0.2634	ppb	0.4853	184.3	-6.8966	-0.26339
Ti 334.941	-0.0435	ppb	0.0910	209.5	-55.8236	-0.04346
Tl 190.794	-0.9333	ppb	5.5203	591.5	-1.8683	-0.93328
V 292.401	0.4902	ppb	0.3636	74.2	18.6661	0.49021
Zn 206.200	4.1309	ppb	0.4065	9.8	16.9944	4.13091

680-89746-a-1-a (Samp)

5/1/2013, 7:55:24 AM

Rack 4, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1084b	ppb	0.5463	503.8	-31.7103
Al 308.215	2247.60b	ppb	2.8956	0.1	6920.52
As 188.980	3.2868b	ppb	7.1987	219.0	-0.8054
B 249.678	1450.34b	ppb	4.6982	0.3	11819.0
Ba 389.178	9.9073b	ppb	0.7429	7.5	141.316
Be 313.042	0.0405b	ppb	0.0088	21.8	-72.5990
Ca 370.602	22853b	ppb	21.34	0.1	78547
Cd 226.502	0.3474b	ppb	0.0776	22.3	17.3831
Co 228.615	-1.2579b	ppb	0.3822	30.4	-12.9070
Cr 267.716	18.8419b	ppb	0.2142	1.1	286.692
Cu 324.754	1.2961b	ppb	0.3411	26.3	71.4216
Fe 271.441	19.5267b	ppb	4.1657	21.3	17.7622
K 766.491	7138.95b	ppb	9.9199	0.1	812171

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	3984.11b	ppb	2.4391	0.1	4630.48
Mn 257.610	411.621b	ppb	1.2645	0.3	36120.3
Mo 202.032	4.0289b	ppb	0.6093	15.1	16.0876
Na 330.237	631374xb	ppb	2453.55	0.4	37326.4
Ni 231.604	5.2013b	ppb	0.6939	13.3	14.3216
Pb 220.353	-12.7253b	ppb	4.5334	35.6	-8.0218
Sb 206.834	4.0407b	ppb	2.9346	72.6	5.2769
Se 196.026	31.4796b	ppb	19.2610	61.2	10.0611
Sn 189.925	-3.2319b	ppb	4.5773	141.6	-1.9135
Sr 216.596	2707.01b	ppb	7.7620	0.3	15024.7
Ti 334.941	0.1712b	ppb	0.0042	2.4	-19.6837
Tl 190.794	-12.4119b	ppb	5.8056	46.8	-6.9721
V 292.401	0.5936b	ppb	0.4560	76.8	14.6566
Zn 206.200	22.3287b	ppb	0.7027	3.1	66.0485

680-89746-a-2-a (Samp) 5/1/2013, 8:00:53 AM Rack 4, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4842b	ppb	0.5552	114.7	-44.6158
Al 308.215	2879.72b	ppb	3.5765	0.1	8815.79
As 188.980	-1.7629b	ppb	8.0317	455.6	-2.3107
B 249.678	1473.87b	ppb	4.8661	0.3	12009.8
Ba 389.178	11.3361b	ppb	0.4622	4.1	164.780
Be 313.042	0.0599b	ppb	0.0111	18.6	-46.2457
Ca 370.602	23246b	ppb	46.58	0.2	79880
Cd 226.502	5.3982b	ppb	0.3183	5.9	117.436
Co 228.615	-0.7592b	ppb	0.3063	40.3	-9.0669
Cr 267.716	484.137b	ppb	0.6007	0.1	7036.47
Cu 324.754	1.8936b	ppb	0.1400	7.4	91.6870
Fe 271.441	128.824b	ppb	15.0936	11.7	92.6025
K 766.491	7179.11b	ppb	16.0719	0.2	816727
Mg 279.078	4032.83b	ppb	9.8539	0.2	4685.78
Mn 257.610	452.792b	ppb	1.0453	0.2	39731.5
Mo 202.032	4.3950b	ppb	0.2492	5.7	17.3261
Na 330.237	641455xb	ppb	1195.84	0.2	37922.3
Ni 231.604	5.2008b	ppb	0.3997	7.7	14.3294
Pb 220.353	-5.6951b	ppb	5.5319	97.1	-3.0282
Sb 206.834	0.0587b	ppb	2.2545	3838.4	6.8124
Se 196.026	23.3761b	ppb	3.6919	15.8	8.0859
Sn 189.925	-1.7892b	ppb	3.9579	221.2	-1.1350
Sr 216.596	2755.53b	ppb	5.1257	0.2	15294.1
Ti 334.941	0.5291b	ppb	0.0772	14.6	77.7783
Tl 190.794	-7.4197b	ppb	3.1469	42.4	-4.8633
V 292.401	0.4657b	ppb	0.2301	49.4	-15.3027
Zn 206.200	35.1811b	ppb	2.1203	6.0	99.1317

680-89746-a-3-a (Samp) 5/1/2013, 8:06:23 AM Rack 4, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6376b	ppb	0.7221	113.2	-48.0304
Al 308.215	7009.84b	ppb	16.0608	0.2	21195.0

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.8828b	ppb	9.4217	326.8	-0.8589
B 249.678	1499.92b	ppb	6.8068	0.5	12221.5
Ba 389.178	7.8368b	ppb	0.0632	0.8	107.419
Be 313.042	0.0549b	ppb	0.0025	4.5	-51.9375
Ca 370.602	19755b	ppb	36.35	0.2	67908
Cd 226.502	0.6673b	ppb	0.1365	20.5	24.0186
Co 228.615	-0.5485b	ppb	0.7454	135.9	-7.7746
Cr 267.716	57.1300b	ppb	0.2388	0.4	841.968
Cu 324.754	1.6984b	ppb	0.3046	17.9	93.9352
Fe 271.441	34.4398b	ppb	5.7202	16.6	28.0448
K 766.491	7115.79b	ppb	13.7327	0.2	809543
Mg 279.078	3085.70b	ppb	7.9418	0.3	3602.63
Mn 257.610	298.421b	ppb	0.9090	0.3	26189.7
Mo 202.032	2.8027b	ppb	0.7616	27.2	11.9887
Na 330.237	625766xb	ppb	2912.19	0.5	36995.0
Ni 231.604	4.0233b	ppb	0.3760	9.3	11.1247
Pb 220.353	-5.3646b	ppb	3.8555	71.9	-2.8635
Sb 206.834	0.1623b	ppb	2.7627	1701.9	3.2367
Se 196.026	15.8897b	ppb	22.0398	138.7	6.2242
Sn 189.925	0.2920b	ppb	4.6170	1581.3	-0.0051
Sr 216.596	2133.78b	ppb	2.6931	0.1	11842.1
Ti 334.941	0.1881b	ppb	0.0856	45.5	-16.9659
Tl 190.794	-10.1185b	ppb	7.6890	76.0	-6.0158
V 292.401	0.7909b	ppb	0.1615	20.4	18.3379
Zn 206.200	57.9936b	ppb	0.7759	1.3	161.918

680-89774-a-1-d (Samp)

5/1/2013, 8:11:53 AM

Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2888	ppb	0.2072	71.8	-38.6419
Al 308.215	199.699	ppb	2.3172	1.2	781.971
As 188.980	4.6191	ppb	0.3446	7.5	0.0888
B 249.678	8.5187	ppb	0.4105	4.8	114.686
Ba 389.178	15.0032	ppb	0.8147	5.4	214.400
Be 313.042	0.0298	ppb	0.0024	7.9	-43.0653
Ca 370.602	336.6	ppb	1.070	0.3	1222
Cd 226.502	0.0979	ppb	0.2113	215.8	14.2576
Co 228.615	-1.0288	ppb	0.1083	10.5	-11.1971
Cr 267.716	0.2249	ppb	0.5617	249.7	13.0552
Cu 324.754	-0.1883	ppb	0.2629	139.6	78.5108
Fe 271.441	139.196	ppb	2.2586	1.6	100.510
K 766.491	131.800	ppb	0.5885	0.4	17001.6
Mg 279.078	271.045	ppb	3.2797	1.2	382.078
Mn 257.610	9.9823	ppb	0.0398	0.4	886.240
Mo 202.032	0.1412	ppb	0.5471	387.6	2.8563
Na 330.237	1405.66	ppb	56.1177	4.0	92.5226
Ni 231.604	-0.1393	ppb	0.2233	160.4	-0.1607
Pb 220.353	-2.8418	ppb	2.3431	82.4	-0.1783
Sb 206.834	-1.1585	ppb	1.6571	143.0	1.7988
Se 196.026	1.8003	ppb	7.1280	395.9	2.6343
Sn 189.925	-0.6993	ppb	1.4949	213.8	-0.6054
Sr 216.596	4.9508	ppb	0.9852	19.9	22.1889
Ti 334.941	1.3009	ppb	0.1605	12.3	217.048



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-2.2052	ppb	1.0731	48.7	-2.4181
V 292.401	0.3977	ppb	0.1109	27.9	16.5668
Zn 206.200	548.602	ppb	3.9226	0.7	1482.90

**mb 680-274758/1-a (Samp)**      **5/1/2013, 8:17:22 AM**      **Rack 4, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2497	ppb	0.2994	119.9	-22.6661
Al 308.215	-41.7738	ppb	1.5654	3.7	58.1559
As 188.980	6.3712	ppb	11.0408	173.3	0.6459
B 249.678	4.2786	ppb	0.4659	10.9	80.5925
Ba 389.178	-0.3172	ppb	0.5448	171.8	-25.8119
Be 313.042	-0.0066	ppb	0.0040	60.3	-95.0527
Ca 370.602	-49.33	ppb	2.743	5.6	-78.74
Cd 226.502	-0.0171	ppb	0.2231	1306.2	11.6549
Co 228.615	-0.9674	ppb	0.6871	71.0	-10.7709
Cr 267.716	0.1270	ppb	0.3945	310.7	11.6916
Cu 324.754	-0.0129	ppb	0.3648	2828.6	85.7036
Fe 271.441	-10.3684	ppb	4.8287	46.6	-2.8581
K 766.491	4.9418	ppb	0.3812	7.7	2609.43
Mg 279.078	-43.4999	ppb	4.1303	9.5	22.7022
Mn 257.610	-0.0992	ppb	0.0489	49.3	1.1185
Mo 202.032	-0.4523	ppb	0.8012	177.1	0.8595
Na 330.237	-75.4214	ppb	77.7527	103.1	4.2507
Ni 231.604	0.2483	ppb	0.7133	287.3	0.8631
Pb 220.353	-3.4482	ppb	3.8473	111.6	-0.6182
Sb 206.834	-1.1644	ppb	0.9749	83.7	1.7894
Se 196.026	-0.2994	ppb	14.9263	4984.9	2.1149
Sn 189.925	-1.6223	ppb	2.3271	143.4	-1.1022
Sr 216.596	-0.2377	ppb	0.8902	374.5	-6.7038
Ti 334.941	-0.0538	ppb	0.0578	107.5	-57.9450
Tl 190.794	-0.8029	ppb	4.6467	578.7	-1.8112
V 292.401	0.0603	ppb	0.3586	594.8	7.5414
Zn 206.200	1.8220	ppb	0.3140	17.2	10.7798

**lcs 680-274758/2-a (Samp)**      **5/1/2013, 8:22:52 AM**      **Rack 4, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1856	ppb	0.4074	0.8	1460.51
Al 308.215	4869.49	ppb	13.6707	0.3	14786.3
As 188.980	104.895	ppb	10.7370	10.2	31.4310
B 249.678	198.538	ppb	0.9500	0.5	1647.10
Ba 389.178	103.685	ppb	0.6584	0.6	1615.00
Be 313.042	53.2470	ppb	0.0981	0.2	75675.1
Ca 370.602	5052	ppb	2.835	0.1	16651
Cd 226.502	52.7089	ppb	0.1204	0.2	1064.30
Co 228.615	51.6419	ppb	0.2720	0.5	367.109
Cr 267.716	107.231	ppb	0.3413	0.3	1563.02
Cu 324.754	102.915	ppb	0.1522	0.1	3734.97
Fe 271.441	4899.13	ppb	15.7739	0.3	3392.86
K 766.491	4940.10	ppb	30.0563	0.6	562624

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	4860.23	ppb	10.6053	0.2	5615.68
Mn 257.610	544.752	ppb	0.8408	0.2	47806.0
Mo 202.032	96.6541	ppb	1.2004	1.2	329.541
Na 330.237	4938.86	ppb	93.3969	1.9	298.062
Ni 231.604	104.741	ppb	1.5919	1.5	282.340
Pb 220.353	52.9069	ppb	3.5223	6.7	42.0531
Sb 206.834	45.5203	ppb	5.5321	12.2	30.3921
Se 196.026	103.209	ppb	8.1019	7.8	27.6136
Sn 189.925	203.071	ppb	5.1944	2.6	109.230
Sr 216.596	100.510	ppb	0.6079	0.6	549.807
Ti 334.941	98.9045	ppb	0.1126	0.1	20014.5
Tl 190.794	36.9714	ppb	5.0862	13.8	14.1048
V 292.401	98.9223	ppb	0.5547	0.6	2681.42
Zn 206.200	109.904	ppb	0.8338	0.8	301.674

680-89603-a-5-a (Samp) 5/1/2013, 8:28:22 AM Rack 4, Tube 9

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0045b	ppb	0.2349	23.4	-56.0144
Al 308.215	-9.9038b	ppb	4.4184	44.6	159.825
As 188.980	57.0045b	ppb	3.5815	6.3	8.9913
B 249.678	1870.73b	ppb	2.8669	0.2	15228.4
Ba 389.178	72.1809b	ppb	0.4780	0.7	1236.23
Be 313.042	0.0586b	ppb	0.0137	23.4	-19.6715
Ca 370.602	354391b	ppb	1046	0.3	1216604
Cd 226.502	0.6142b	ppb	0.1778	28.9	23.0687
Co 228.615	5.1210b	ppb	0.2535	5.0	29.2667
Cr 267.716	2.9053b	ppb	0.2951	10.2	57.9689
Cu 324.754	6.4016b	ppb	0.3659	5.7	-626.015
Fe 271.441	576.769b	ppb	7.9917	1.4	403.426
K 766.491	40061.2b	ppb	56.9829	0.1	4548153
Mg 279.078	70690.0b	ppb	53.3626	0.1	80955.5
Mn 257.610	980.237b	ppb	2.8596	0.3	86149.4
Mo 202.032	250.402b	ppb	0.4696	0.2	851.768
Na 330.237	1036895xb	ppb	1269.55	0.1	61294.7
Ni 231.604	23.9156b	ppb	1.3413	5.6	67.0429
Pb 220.353	-1.2899b	ppb	5.6366	437.0	0.6892
Sb 206.834	0.9595b	ppb	5.6496	588.8	5.6282
Se 196.026	167.423b	ppb	9.6139	5.7	44.7281
Sn 189.925	-2.4057b	ppb	0.8712	36.2	-2.4721
Sr 216.596	5711.42b	ppb	11.3532	0.2	31713.7
Ti 334.941	-0.4244b	ppb	0.0340	8.0	181.550
Tl 190.794	-7.3087b	ppb	5.0078	68.5	-7.8907
V 292.401	3.7955b	ppb	0.3431	9.0	42.4625
Zn 206.200	7.7429b	ppb	0.1931	2.5	28.8684

680-89603-a-6-a (Samp) 5/1/2013, 8:33:52 AM Rack 4, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9426b	ppb	0.0496	5.3	-54.5749
Al 308.215	1.7156b	ppb	1.3121	76.5	194.436

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	36.6121b	ppb	13.5003	36.9	1.0803
B 249.678	1995.52b	ppb	0.6758	0.0	16242.8
Ba 389.178	84.7328b	ppb	0.2345	0.3	1441.59
Be 313.042	0.0476b	ppb	0.0041	8.5	-26.6557
Ca 370.602	425631b	ppb	427.1	0.1	1461257
Cd 226.502	0.5937b	ppb	0.2585	43.5	21.1249
Co 228.615	4.5140b	ppb	0.5469	12.1	25.0814
Cr 267.716	2.5063b	ppb	0.3151	12.6	52.9665
Cu 324.754	9.9464b	ppb	0.0882	0.9	-690.166
Fe 271.441	-7.0922b	ppb	9.5545	134.7	-0.1042
K 766.491	45863.5xb	ppb	16.8410	0.0	5206594
Mg 279.078	76352.1b	ppb	113.448	0.1	87436.6
Mn 257.610	883.100b	ppb	0.6487	0.1	77642.1
Mo 202.032	239.674b	ppb	0.4264	0.2	815.450
Na 330.237	1162737xb	ppb	5317.44	0.5	68733.0
Ni 231.604	27.3091b	ppb	1.0633	3.9	76.3406
Pb 220.353	1.7530b	ppb	5.5762	318.1	3.0523
Sb 206.834	-0.9632b	ppb	3.2577	338.2	5.0862
Se 196.026	178.304b	ppb	17.2636	9.7	47.6037
Sn 189.925	2.4359b	ppb	4.0733	167.2	-0.0702
Sr 216.596	6390.66xb	ppb	1.6449	0.0	35487.4
Ti 334.941	-0.4653b	ppb	0.0736	15.8	240.292
Tl 190.794	1.5243b	ppb	7.7235	506.7	-4.7188
V 292.401	3.5470b	ppb	0.1435	4.0	37.5802
Zn 206.200	8.1879b	ppb	0.3162	3.9	30.2213

680-89603-a-7-a (Samp)

5/1/2013, 8:39:21 AM

Rack 4, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5711b	ppb	0.2177	38.1	-44.2841
Al 308.215	-10.7466b	ppb	1.7966	16.7	155.225
As 188.980	23.8594b	ppb	6.6690	28.0	-3.1345
B 249.678	1948.08b	ppb	6.8382	0.4	15858.4
Ba 389.178	42.0663b	ppb	0.9315	2.2	775.485
Be 313.042	0.0589b	ppb	0.0090	15.4	-7.5046
Ca 370.602	435291b	ppb	1118	0.3	1494418
Cd 226.502	0.4098b	ppb	0.2921	71.3	17.2607
Co 228.615	5.6380b	ppb	0.2137	3.8	34.2728
Cr 267.716	-1.0002b	ppb	0.2597	26.0	2.2664
Cu 324.754	9.1956b	ppb	0.8327	9.1	-743.224
Fe 271.441	-28.3082b	ppb	4.2067	14.9	-14.8009
K 766.491	48090.4xb	ppb	128.910	0.3	5459311
Mg 279.078	76848.8b	ppb	316.196	0.4	88005.3
Mn 257.610	747.768b	ppb	1.7757	0.2	65774.0
Mo 202.032	164.525b	ppb	1.8963	1.2	560.521
Na 330.237	1234183xb	ppb	5696.32	0.5	72955.8
Ni 231.604	28.1161b	ppb	0.6887	2.4	78.5390
Pb 220.353	3.4433b	ppb	2.0546	59.7	4.4616
Sb 206.834	8.1529b	ppb	3.8080	46.7	10.7628
Se 196.026	166.545b	ppb	11.5321	6.9	44.7305
Sn 189.925	-2.9154b	ppb	7.5660	259.5	-2.9714
Sr 216.596	6373.65xb	ppb	19.4562	0.3	35394.6
Ti 334.941	-0.4792b	ppb	0.0370	7.7	243.615

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-3.1970b	ppb	13.4360	420.3	-6.7342
V 292.401	2.6200b	ppb	0.5655	21.6	29.7695
Zn 206.200	7.7079b	ppb	1.0286	13.3	28.9610

680-89603-a-8-a (Samp) 5/1/2013, 8:44:51 AM Rack 4, Tube 12  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1048b	ppb	0.2261	20.5	-61.5166
Al 308.215	502.146b	ppb	44.7783	8.9	1694.75
As 188.980	63.7388b	ppb	5.1932	8.1	9.0213
B 249.678	2008.04b	ppb	144.318	7.2	16339.1
Ba 389.178	87.1531b	ppb	8.0417	9.2	1482.13
Be 313.042	0.1443b	ppb	0.0330	22.9	98.4055
Ca 370.602	452057b	ppb	30489	6.7	1551567
Cd 226.502	0.6068b	ppb	0.3411	56.2	25.8609
Co 228.615	4.2279b	ppb	0.2374	5.6	22.8940
Cr 267.716	13.0937b	ppb	0.5664	4.3	206.140
Cu 324.754	16.9593b	ppb	0.6968	4.1	-510.244
Fe 271.441	2406.91b	ppb	168.420	7.0	1668.14
K 766.491	50848.2xb	ppb	3304.84	6.5	5772258
Mg 279.078	76193.0b	ppb	5570.44	7.3	87246.8
Mn 257.610	478.961b	ppb	34.4847	7.2	42198.3
Mo 202.032	255.165b	ppb	18.5417	7.3	867.695
Na 330.237	1412548xb	ppb	115561	8.2	83497.1
Ni 231.604	28.3340b	ppb	2.5902	9.1	79.2261
Pb 220.353	0.1490b	ppb	5.9020	3959.8	1.7227
Sb 206.834	3.7865b	ppb	4.9311	130.2	8.2730
Se 196.026	183.304b	ppb	19.6107	10.7	48.8315
Sn 189.925	-3.0464b	ppb	4.5619	149.7	-3.0585
Sr 216.596	6489.04xb	ppb	461.905	7.1	36035.4
Ti 334.941	4.2313b	ppb	0.4261	10.1	1207.52
Tl 190.794	-0.8664b	ppb	9.9358	1146.7	-6.0682
V 292.401	7.6215b	ppb	0.4716	6.2	144.203
Zn 206.200	6.9800b	ppb	1.3672	19.6	26.9852

Cont Calib Verif (CCV) 5/1/2013, 8:50:21 AM Rack 4, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.688	ppb	0.8765	0.2	15099.4	101.93752
Al 308.215	4874.15	ppb	11.8258	0.2	15069.0	97.48296
As 188.980	532.313	ppb	6.6817	1.3	166.111	106.46261
B 249.678	524.009	ppb	0.6546	0.1	4294.40	20.96035Q
Ba 389.178	5239.54	ppb	10.4261	0.2	81921.5	104.79073
Be 313.042	528.120	ppb	1.4868	0.3	753601	105.62392
Ca 370.602	5311	ppb	20.53	0.4	17734	106.21895
Cd 226.502	533.048	ppb	0.4958	0.1	10556.9	106.60964
Co 228.615	533.508	ppb	1.7362	0.3	3832.52	106.70152
Cr 267.716	5464.57	ppb	12.2370	0.2	79252.2	109.29137
Cu 324.754	5096.77	ppb	33.3370	0.7	181296	101.93548
Fe 271.441	5033.65	ppb	12.5269	0.2	3540.35	100.67302
K 766.491	9964.19	ppb	20.9468	0.2	1131534	99.64189

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	4966.17	ppb	10.3811	0.2	5727.65	99.32339
Mn 257.610	5543.75	ppb	12.0861	0.2	486259	110.87510Q
Mo 202.032	495.148	ppb	2.0192	0.4	1672.35	99.02956
Na 330.237	7648.52	ppb	65.8525	0.9	459.387	101.98029
Ni 231.604	2667.11	ppb	5.5886	0.2	7176.78	106.68452
Pb 220.353	516.898	ppb	6.2317	1.2	394.814	103.37962
Sb 206.834	1004.67	ppb	4.7927	0.5	638.739	40.18672Q
Se 196.026	4909.00	ppb	16.2908	0.3	1205.79	98.18006
Sn 189.925	5313.49	ppb	17.8952	0.3	2863.75	106.26984
Sr 216.596	2587.97	ppb	2.0503	0.1	14263.2	103.51873
Ti 334.941	504.594	ppb	0.9641	0.2	102563	100.91875
Tl 190.794	5084.62	ppb	13.6398	0.3	2165.10	101.69244
V 292.401	5008.73	ppb	8.1035	0.2	136466	100.17452
Zn 206.200	2754.78	ppb	5.0242	0.2	7405.07	110.19109

Cont Calib Blank (CCB)

5/1/2013, 8:55:51 AM

Rack 4, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3770	ppb	0.4895	129.8	-18.8802	0.37702
Al 308.215	-44.1807	ppb	2.1755	4.9	50.9965	-44.18068
As 188.980	4.7915	ppb	5.5663	116.2	0.1512	4.79150
B 249.678	4.5578	ppb	0.4406	9.7	82.8775	4.55781
Ba 389.178	0.5845	ppb	0.2997	51.3	-11.7253	0.58451
Be 313.042	0.0134	ppb	0.0089	66.8	-66.6751	0.01337
Ca 370.602	-46.53	ppb	1.482	3.2	-66.90	-46.52866
Cd 226.502	0.0461	ppb	0.0095	20.7	12.8753	0.04612
Co 228.615	-0.7278	ppb	0.3282	45.1	-9.0780	-0.72781
Cr 267.716	0.4861	ppb	0.2448	50.4	16.9081	0.48610
Cu 324.754	-0.0764	ppb	0.1701	222.6	83.4401	-0.07642
Fe 271.441	-23.3146	ppb	7.7469	33.2	-11.7891	-23.31462
K 766.491	2.4719	ppb	0.1767	7.1	2328.96	2.47194
Mg 279.078	-43.5723	ppb	2.2053	5.1	22.6659	-43.57226
Mn 257.610	0.0451	ppb	0.0634	140.6	13.7520	0.04508
Mo 202.032	1.5659	ppb	0.4098	26.2	7.7074	1.56591
Na 330.237	-43.6484	ppb	79.4931	182.1	6.1339	-43.64840
Ni 231.604	0.0175	ppb	1.0878	6211.4	0.2395	0.01751
Pb 220.353	-1.6835	ppb	1.5189	90.2	0.7389	-1.68346
Sb 206.834	-1.9103	ppb	0.4227	22.1	1.3341	-1.91031
Se 196.026	-1.8577	ppb	9.2609	498.5	1.7332	-1.85774
Sn 189.925	1.2000	ppb	2.6134	217.8	0.4189	1.19995
Sr 216.596	-0.3579	ppb	0.9224	257.7	-7.3982	-0.35790
Ti 334.941	-0.0574	ppb	0.0536	93.5	-58.6718	-0.05739
Tl 190.794	-2.3209	ppb	4.7034	202.7	-2.4572	-2.32090
V 292.401	0.2131	ppb	0.1720	80.7	11.2654	0.21308
Zn 206.200	1.5498	ppb	0.4425	28.6	10.0459	1.54979

680-89603-a-10-a (Samp)

5/1/2013, 9:01:20 AM

Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1018b	ppb	0.2639	23.9	-54.0526
Al 308.215	7732.60b	ppb	11.9071	0.2	23369.3

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	117.707b	ppb	17.1206	14.5	25.7704
B 249.678	1962.33b	ppb	2.3217	0.1	15945.9
Ba 389.178	126.602b	ppb	1.5119	1.2	2121.14
Be 313.042	1.0258b	ppb	0.0099	1.0	1385.71
Ca 370.602	460513b	ppb	714.8	0.2	1578990
Cd 226.502	0.8973b	ppb	0.1019	11.4	54.3055
Co 228.615	15.4301b	ppb	0.5225	3.4	102.571
Cr 267.716	96.3519b	ppb	0.9766	1.0	1409.88
Cu 324.754	8.4358b	ppb	0.4020	4.8	-831.006
Fe 271.441	12507.8b	ppb	33.3444	0.3	8649.02
K 766.491	46266.4xb	ppb	31.1643	0.1	5252310
Mg 279.078	81983.4b	ppb	136.284	0.2	93833.3
Mn 257.610	2744.98b	ppb	5.1971	0.2	240970
Mo 202.032	319.223b	ppb	0.2076	0.1	1083.77
Na 330.237	1102296xb	ppb	2698.12	0.2	65155.2
Ni 231.604	47.7421b	ppb	2.8239	5.9	132.186
Pb 220.353	-2.1366b	ppb	6.2249	291.3	-0.9909
Sb 206.834	0.7282b	ppb	5.2053	714.8	7.2865
Se 196.026	187.759b	ppb	8.8953	4.7	50.3673
Sn 189.925	-0.6254b	ppb	1.3643	218.2	-1.8449
Sr 216.596	6572.81xb	ppb	11.2513	0.2	36503.6
Ti 334.941	2.0621b	ppb	0.1242	6.0	797.716
Tl 190.794	-14.3644b	ppb	5.6993	39.7	-12.3615
V 292.401	31.9799b	ppb	0.3072	1.0	789.612
Zn 206.200	20.1644b	ppb	0.2224	1.1	62.6089

680-89603-a-11-a (Samp)

5/1/2013, 9:06:50 AM

Rack 4, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7078b	ppb	0.4378	25.6	-84.6756
Al 308.215	8080.61b	ppb	9.3875	0.1	24406.8
As 188.980	104.096b	ppb	16.0426	15.4	20.6881
B 249.678	1966.34b	ppb	3.2585	0.2	15905.4
Ba 389.178	106.468b	ppb	0.3965	0.4	1839.45
Be 313.042	1.0965b	ppb	0.0100	0.9	1465.33
Ca 370.602	497346b	ppb	816.1	0.2	1699802
Cd 226.502	0.9316b	ppb	0.2093	22.5	126.100
Co 228.615	8.2504b	ppb	0.9405	11.4	52.1035
Cr 267.716	45.7999b	ppb	0.3121	0.7	659.853
Cu 324.754	83.6757b	ppb	0.6279	0.8	1761.72
Fe 271.441	46438.9b	ppb	50.3737	0.1	32096.8
K 766.491	51494.6xb	ppb	54.2323	0.1	5845602
Mg 279.078	79899.7b	ppb	126.008	0.2	91333.1
Mn 257.610	1118.56b	ppb	1.3506	0.1	98350.8
Mo 202.032	289.393b	ppb	1.5490	0.5	978.311
Na 330.237	1400489xb	ppb	3320.18	0.2	82765.6
Ni 231.604	47.0646b	ppb	1.7794	3.8	132.184
Pb 220.353	0.4785b	ppb	1.3886	290.2	0.8922
Sb 206.834	-3.8721b	ppb	3.3023	85.3	5.2714
Se 196.026	181.297b	ppb	4.3643	2.4	48.5573
Sn 189.925	0.0443b	ppb	2.1022	4740.5	-1.5339
Sr 216.596	6873.31xb	ppb	8.9052	0.1	38188.5
Ti 334.941	18.9144b	ppb	0.1010	0.5	4234.78

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-5.9098b	ppb	6.3026	106.6	-10.3679
V 292.401	14.5346b	ppb	0.1938	1.3	330.566
Zn 206.200	12.8375b	ppb	0.4594	3.6	43.7079

**680-89603-a-12-a (Samp)**      **5/1/2013, 9:12:19 AM**      **Rack 4, Tube 17**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8555b	ppb	0.6055	70.8	-59.7384
Al 308.215	8410.89b	ppb	837.484	10.0	25396.8
As 188.980	108.287b	ppb	8.4473	7.8	21.6128
B 249.678	1937.36b	ppb	184.854	9.5	15672.0
Ba 389.178	107.874b	ppb	10.0825	9.3	1865.59
Be 313.042	1.1879b	ppb	0.1269	10.7	1570.69
Ca 370.602	515601b	ppb	51132	9.9	1762600
Cd 226.502	1.0302b	ppb	0.7973	77.4	125.359
Co 228.615	7.4462b	ppb	0.5768	7.7	46.3772
Cr 267.716	46.4118b	ppb	4.7142	10.2	670.817
Cu 324.754	95.2023b	ppb	5.7228	6.0	2122.77
Fe 271.441	45624.7b	ppb	4448.52	9.8	31534.1
K 766.491	57173.1xb	ppb	4835.66	8.5	6490000
Mg 279.078	82747.6b	ppb	8058.35	9.7	94594.9
Mn 257.610	1006.45b	ppb	98.1724	9.8	88523.3
Mo 202.032	286.003b	ppb	31.8490	11.1	966.920
Na 330.237	1773993xb	ppb	145432	8.2	104842
Ni 231.604	46.1689b	ppb	5.4077	11.7	129.830
Pb 220.353	1.4677b	ppb	3.6564	249.1	1.6291
Sb 206.834	2.1743b	ppb	3.3023	151.9	9.0646
Se 196.026	182.111b	ppb	9.8439	5.4	48.8057
Sn 189.925	-2.9536b	ppb	1.3454	45.6	-3.1322
Sr 216.596	7122.75xb	ppb	695.980	9.8	39573.8
Ti 334.941	18.8179b	ppb	1.9944	10.6	4215.14
Tl 190.794	-8.1042b	ppb	2.5323	31.2	-11.4269
V 292.401	14.8426b	ppb	1.4403	9.7	337.270
Zn 206.200	12.5100b	ppb	2.1660	17.3	42.8898

**680-89603-a-13-a (Samp)**      **5/1/2013, 9:17:49 AM**      **Rack 4, Tube 18**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0354b	ppb	0.3475	33.6	-65.3286
Al 308.215	8198.04b	ppb	9.8767	0.1	24758.6
As 188.980	101.650b	ppb	17.5216	17.2	19.3068
B 249.678	1912.81b	ppb	5.6012	0.3	15474.0
Ba 389.178	119.736b	ppb	0.6264	0.5	2052.93
Be 313.042	1.1961b	ppb	0.0142	1.2	1526.50
Ca 370.602	526166b	ppb	639.6	0.1	1798960
Cd 226.502	0.9991b	ppb	0.3358	33.6	121.523
Co 228.615	7.6893b	ppb	0.3643	4.7	48.2512
Cr 267.716	45.7655b	ppb	0.6479	1.4	665.268
Cu 324.754	91.9849b	ppb	0.4085	0.4	1979.82
Fe 271.441	45045.9b	ppb	74.5572	0.2	31134.1
K 766.491	65290.2xb	ppb	65.0350	0.1	7411116

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	84056.6b	ppb	65.5445	0.1	96094.8
Mn 257.610	929.217b	ppb	2.4898	0.3	81750.8
Mo 202.032	272.973b	ppb	1.5743	0.6	922.787
Na 330.237	2523269xb	ppb	9000.08	0.4	149129
Ni 231.604	40.2269b	ppb	0.4750	1.2	113.868
Pb 220.353	-1.9081b	ppb	3.0348	159.0	-0.9334
Sb 206.834	2.9484b	ppb	9.7744	331.5	9.6335
Se 196.026	191.880b	ppb	26.6028	13.9	51.2231
Sn 189.925	0.4938b	ppb	2.4940	505.0	-1.1536
Sr 216.596	7440.26xb	ppb	7.8623	0.1	41337.2
Ti 334.941	15.6118b	ppb	0.0520	0.3	3537.89
Tl 190.794	-9.3032b	ppb	2.9492	31.7	-11.9955
V 292.401	15.0443b	ppb	0.1846	1.2	340.063
Zn 206.200	12.6842b	ppb	0.8236	6.5	43.3918

680-89652-b-7-a (Samp)

5/1/2013, 9:23:19 AM

Rack 4, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1974	ppb	0.1591	13.3	-13.4382
Al 308.215	-29.1413	ppb	2.5093	8.6	86.3617
As 188.980	7.2030	ppb	9.7902	135.9	-0.1536
B 249.678	14.9350	ppb	1.5645	10.5	-16.8402
Ba 389.178	2635.05	ppb	1.7422	0.1	41288.5
Be 313.042	0.0237	ppb	0.0103	43.6	-46.7943
Ca 370.602	47523	ppb	17.42	0.0	149584
Cd 226.502	-0.8949	ppb	0.2314	25.9	175.389
Co 228.615	13.9464	ppb	0.3706	2.7	98.8460
Cr 267.716	-0.6514	ppb	1.2525	192.3	-23.1662
Cu 324.754	-0.4495	ppb	0.4269	95.0	-18.1685
Fe 271.441	85408.9	ppb	149.956	0.2	59027.1
K 766.491	962.055	ppb	0.8709	0.1	110594
Mg 279.078	15066.5	ppb	19.6269	0.1	16985.9
Mn 257.610	16357.4	ppb	26.8500	0.2	1434799
Mo 202.032	6.9592	ppb	0.8346	12.0	15.1680
Na 330.237	12663.3	ppb	285.779	2.3	720.950
Ni 231.604	3.6274	ppb	2.1990	60.6	15.2163
Pb 220.353	-1.7722	ppb	4.6439	262.0	0.2098
Sb 206.834	5.0433	ppb	8.5145	168.8	7.9454
Se 196.026	0.8841	ppb	26.6590	3015.5	5.2387
Sn 189.925	-3.1494	ppb	5.4343	172.5	-2.0658
Sr 216.596	241.986	ppb	1.1525	0.5	1376.43
Ti 334.941	0.0388	ppb	0.0033	8.4	12.5502
Tl 190.794	-7.3048	ppb	6.6559	91.1	-8.2190
V 292.401	1.0786	ppb	0.0997	9.2	19.3390
Zn 206.200	1.5215	ppb	0.3830	25.2	12.2329

680-89652-b-10-a (Samp)

5/1/2013, 9:28:49 AM

Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5082	ppb	0.3565	70.1	-14.5455
Al 308.215	-32.6659	ppb	0.8163	2.5	85.4450



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	4.1829	ppb	0.8269	19.8	-1.8230
B 249.678	11.4757	ppb	0.1954	1.7	137.971
Ba 389.178	183.317	ppb	0.5149	0.3	2854.68
Be 313.042	-0.0122	ppb	0.0060	49.5	-82.5581
Ca 370.602	83497	ppb	21.20	0.0	286650
Cd 226.502	0.5300	ppb	0.0631	11.9	23.5352
Co 228.615	0.8246	ppb	0.2400	29.1	2.1862
Cr 267.716	-0.5156	ppb	0.2303	44.7	2.3140
Cu 324.754	2.3365	ppb	0.2292	9.8	-53.3332
Fe 271.441	490.553	ppb	9.8626	2.0	343.374
K 766.491	1492.58	ppb	1.1415	0.1	171382
Mg 279.078	5229.71	ppb	14.2589	0.3	6054.58
Mn 257.610	149.285	ppb	0.1015	0.1	13116.5
Mo 202.032	1.0866	ppb	1.0161	93.5	6.0174
Na 330.237	4216.35	ppb	74.7312	1.8	257.733
Ni 231.604	11.4007	ppb	1.6148	14.2	31.0719
Pb 220.353	-1.5940	ppb	1.5930	99.9	0.8046
Sb 206.834	4.8375	ppb	1.9521	40.4	6.1181
Se 196.026	8.0925	ppb	7.8478	97.0	4.4530
Sn 189.925	-2.9196	ppb	2.8135	96.4	-2.0748
Sr 216.596	217.997	ppb	1.9479	0.9	1208.04
Ti 334.941	-0.0649	ppb	0.0652	100.5	25.7598
Tl 190.794	-4.2799	ppb	6.0926	142.4	-4.0282
V 292.401	0.1599	ppb	0.1975	123.5	9.7340
Zn 206.200	19.3333	ppb	1.6561	8.6	58.0983

680-89652-b-11-a (Samp)

5/1/2013, 9:34:18 AM

Rack 4, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1426	ppb	0.3445	241.7	-27.0577
Al 308.215	-25.0278	ppb	0.9513	3.8	106.465
As 188.980	1.3472	ppb	6.3387	470.5	-2.0024
B 249.678	41.2409	ppb	0.8246	2.0	344.567
Ba 389.178	754.224	ppb	1.1765	0.2	11800.6
Be 313.042	0.1321	ppb	0.0058	4.4	113.236
Ca 370.602	49869	ppb	32.59	0.1	168593
Cd 226.502	0.1747	ppb	0.1959	112.1	50.9176
Co 228.615	-0.9368	ppb	0.3877	41.4	-9.9331
Cr 267.716	-0.5635	ppb	0.1708	30.3	-3.6747
Cu 324.754	1.1522	ppb	0.2471	21.4	1.6951
Fe 271.441	16724.6	ppb	26.9447	0.2	11561.9
K 766.491	1615.87	ppb	1.1847	0.1	185237
Mg 279.078	7607.93	ppb	11.5428	0.2	8715.11
Mn 257.610	2493.94	ppb	3.6086	0.1	218781
Mo 202.032	0.3982	ppb	0.8375	210.3	1.6219
Na 330.237	11159.9	ppb	18.0391	0.2	661.222
Ni 231.604	3.9098	ppb	2.6491	67.8	11.9130
Pb 220.353	-2.1901	ppb	2.4175	110.4	0.2612
Sb 206.834	3.9564	ppb	2.3694	59.9	5.6856
Se 196.026	2.3493	ppb	8.3078	353.6	3.3375
Sn 189.925	-1.6825	ppb	3.8298	227.6	-1.2936
Sr 216.596	107.343	ppb	0.7600	0.7	599.604
Ti 334.941	-0.0695	ppb	0.0183	26.4	-9.5204

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-1.0176	ppb	1.9041	187.1	-2.9694
V 292.401	0.8761	ppb	0.0501	5.7	28.3248
Zn 206.200	1.8778	ppb	0.6922	36.9	11.5172

680-89652-b-12-a (Samp) 5/1/2013, 9:51:26 AM Rack 4, Tube 22

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0053	ppb	0.5151	51.2	-8.3216
Al 308.215	-30.0056	ppb	1.3601	4.5	83.8774
As 188.980	-1.3797	ppb	6.2782	455.0	-2.8161
B 249.678	10.8131	ppb	1.3522	12.5	-47.7208
Ba 389.178	2564.25	ppb	2.8159	0.1	40180.0
Be 313.042	0.0201	ppb	0.0034	17.0	-52.1792
Ca 370.602	46220	ppb	7.764	0.0	145303
Cd 226.502	-0.7822	ppb	0.2212	28.3	175.081
Co 228.615	13.9955	ppb	0.8693	6.2	99.1601
Cr 267.716	-0.9743	ppb	0.6897	70.8	-27.4812
Cu 324.754	0.2976	ppb	0.5141	172.7	11.3659
Fe 271.441	84209.4	ppb	86.9322	0.1	58198.2
K 766.491	966.740	ppb	1.3784	0.1	111142
Mg 279.078	14765.3	ppb	7.2650	0.0	16645.7
Mn 257.610	16176.1	ppb	48.5217	0.3	1418892
Mo 202.032	5.6375	ppb	0.5247	9.3	10.8360
Na 330.237	12550.1	ppb	88.4642	0.7	714.773
Ni 231.604	8.9165	ppb	0.4612	5.2	29.3669
Pb 220.353	-8.5639	ppb	8.3301	97.3	-5.0149
Sb 206.834	-1.4212	ppb	2.9122	204.9	4.0234
Se 196.026	3.9774	ppb	8.5898	216.0	5.9607
Sn 189.925	-2.5425	ppb	0.4964	19.5	-1.7346
Sr 216.596	235.649	ppb	0.3424	0.1	1340.52
Ti 334.941	-0.0014	ppb	0.0368	2698.6	2.9997
Tl 190.794	-5.0874	ppb	1.2380	24.3	-7.2194
V 292.401	0.8979	ppb	0.3052	34.0	14.7913
Zn 206.200	5.3612	ppb	0.2997	5.6	22.5389

680-89701-b-1-a (Samp) 5/1/2013, 9:56:56 AM Rack 4, Tube 23

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3530	ppb	0.2811	79.6	-19.5805
Al 308.215	-19.3826	ppb	3.0629	15.8	125.307
As 188.980	4.5217	ppb	9.3912	207.7	0.0248
B 249.678	14.1506	ppb	0.5652	4.0	160.590
Ba 389.178	17.4248	ppb	0.3663	2.1	253.241
Be 313.042	0.0382	ppb	0.0093	24.4	-31.3068
Ca 370.602	1828	ppb	2.853	0.2	6358
Cd 226.502	0.0600	ppb	0.2833	472.3	13.3014
Co 228.615	-1.0763	ppb	0.3221	29.9	-11.5624
Cr 267.716	4.2023	ppb	0.5259	12.5	70.8157
Cu 324.754	6.7841	ppb	0.2222	3.3	322.660
Fe 271.441	49.7022	ppb	6.0508	12.2	38.6519
K 766.491	1165.81	ppb	1.3988	0.1	134340

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	862.934	ppb	6.9682	0.8	1059.65
Mn 257.610	12.9080	ppb	0.1312	1.0	1144.14
Mo 202.032	1.2935	ppb	0.7230	55.9	6.7746
Na 330.237	4060.89	ppb	36.5391	0.9	248.716
Ni 231.604	15.5362	ppb	0.1513	1.0	42.0201
Pb 220.353	0.0071	ppb	2.5161	35196.1	2.0364
Sb 206.834	1.3107	ppb	1.8823	143.6	3.3234
Se 196.026	11.0322	ppb	5.4897	49.8	4.9033
Sn 189.925	-3.5025	ppb	1.5457	44.1	-2.1209
Sr 216.596	6.9492	ppb	0.2636	3.8	32.7522
Ti 334.941	-0.0157	ppb	0.0503	320.4	-48.2711
Tl 190.794	1.6055	ppb	4.8768	303.8	-0.8075
V 292.401	0.0916	ppb	0.1683	183.7	7.8026
Zn 206.200	10.1894	ppb	0.2117	2.1	33.3238

680-89701-a-2-a (Samp)

5/1/2013, 10:02:25 AM

Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0978	ppb	0.4550	465.3	-27.5999
Al 308.215	-42.9573	ppb	2.7319	6.4	54.1528
As 188.980	-1.1742	ppb	2.0223	172.2	-1.8175
B 249.678	44.8287	ppb	0.4181	0.9	400.944
Ba 389.178	17.8191	ppb	1.0103	5.7	263.447
Be 313.042	0.0084	ppb	0.0046	55.4	-73.1606
Ca 370.602	4305	ppb	5.184	0.1	14197
Cd 226.502	-0.0967	ppb	0.1094	113.2	18.7461
Co 228.615	-0.5726	ppb	0.1428	24.9	-7.8771
Cr 267.716	0.5415	ppb	0.2188	40.4	15.8204
Cu 324.754	1.5046	ppb	0.1639	10.9	130.092
Fe 271.441	4082.10	ppb	11.5356	0.3	2825.28
K 766.491	990.677	ppb	1.8809	0.2	114466
Mg 279.078	679.085	ppb	1.4588	0.2	835.090
Mn 257.610	73.5095	ppb	0.2378	0.3	6463.06
Mo 202.032	0.3820	ppb	0.5925	155.1	3.1708
Na 330.237	4222.04	ppb	130.270	3.1	256.526
Ni 231.604	26.0769	ppb	1.3913	5.3	70.5855
Pb 220.353	-3.7080	ppb	2.7757	74.9	-0.8418
Sb 206.834	-0.0949	ppb	3.4450	3629.9	2.5718
Se 196.026	6.0803	ppb	1.5559	25.6	3.7005
Sn 189.925	-1.5813	ppb	1.5226	96.3	-1.0929
Sr 216.596	12.5506	ppb	0.3518	2.8	65.3396
Ti 334.941	-0.0822	ppb	0.0433	52.6	-59.2587
Tl 190.794	-2.9414	ppb	8.9765	305.2	-2.9134
V 292.401	-0.0194	ppb	0.2158	1110.0	5.7650
Zn 206.200	6.9180	ppb	0.6098	8.8	24.6063

Cont Calib Verif (CCV)

5/1/2013, 10:07:55 AM

Rack 4, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.475	ppb	8.2037	1.6	15093.0	101.89507
Al 308.215	4869.94	ppb	9.0099	0.2	15056.5	97.39880

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	527.530	ppb	6.6989	1.3	164.613	105.50598
B 249.678	518.567	ppb	2.2417	0.4	4250.22	20.74268Q
Ba 389.178	5246.27	ppb	14.1221	0.3	82026.8	104.92535
Be 313.042	528.588	ppb	2.1802	0.4	754269	105.71758
Ca 370.602	5304	ppb	20.12	0.4	17711	106.08877
Cd 226.502	533.946	ppb	2.2696	0.4	10574.6	106.78921
Co 228.615	533.711	ppb	1.0382	0.2	3834.03	106.74210
Cr 267.716	5482.14	ppb	23.4706	0.4	79507.0	109.64276
Cu 324.754	5164.77	ppb	51.8965	1.0	183715	103.29543
Fe 271.441	5038.21	ppb	14.8820	0.3	3543.50	100.76422
K 766.491	9980.03	ppb	33.2911	0.3	1133331	99.80030
Mg 279.078	4959.53	ppb	7.7601	0.2	5720.02	99.19068
Mn 257.610	5559.14	ppb	22.7313	0.4	487609	111.18289Q
Mo 202.032	491.964	ppb	2.6225	0.5	1661.54	98.39276
Na 330.237	7663.22	ppb	141.110	1.8	460.239	102.17620
Ni 231.604	2667.82	ppb	12.2274	0.5	7178.69	106.71272
Pb 220.353	513.892	ppb	4.5119	0.9	392.493	102.77837
Sb 206.834	1007.74	ppb	1.2766	0.1	640.682	40.30965Q
Se 196.026	4928.15	ppb	27.5713	0.6	1210.48	98.56300
Sn 189.925	5321.77	ppb	37.7919	0.7	2868.21	106.43534
Sr 216.596	2583.56	ppb	8.3360	0.3	14238.6	103.34233
Ti 334.941	505.625	ppb	1.7933	0.4	102772	101.12492
Tl 190.794	5084.65	ppb	17.0524	0.3	2165.11	101.69299
V 292.401	5010.07	ppb	13.7314	0.3	136503	100.20132
Zn 206.200	2753.08	ppb	5.9343	0.2	7400.49	110.12339

## Cont Calib Blank (CCB)

5/1/2013, 10:13:25 AM

Rack 4, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1226	ppb	0.2907	237.1	-33.7146	-0.12263
Al 308.215	-44.5944	ppb	1.8730	4.2	49.7572	-44.59436
As 188.980	1.9925	ppb	3.2834	164.8	-0.7259	1.99251
B 249.678	1.5717	ppb	0.3614	23.0	58.6180	1.57165
Ba 389.178	0.5122	ppb	0.5431	106.0	-12.8395	0.51216
Be 313.042	0.0192	ppb	0.0091	47.4	-58.2636	0.01925
Ca 370.602	-49.56	ppb	2.391	4.8	-79.22	-49.55917
Cd 226.502	-0.0029	ppb	0.1898	6523.6	11.9313	-0.00291
Co 228.615	-0.7094	ppb	0.5042	71.1	-8.9422	-0.70935
Cr 267.716	0.2493	ppb	0.3956	158.6	13.4680	0.24935
Cu 324.754	-0.2149	ppb	0.4854	225.9	78.5200	-0.21492
Fe 271.441	-11.8881	ppb	4.9066	41.3	-3.8811	-11.88806
K 766.491	1.8719	ppb	0.0290	1.5	2260.87	1.87188
Mg 279.078	-41.3770	ppb	4.8774	11.8	25.1365	-41.37701
Mn 257.610	0.1718	ppb	0.1769	102.9	24.8881	0.17185
Mo 202.032	0.1876	ppb	0.2363	126.0	3.0300	0.18758
Na 330.237	-51.7079	ppb	32.7872	63.4	5.6516	-51.70795
Ni 231.604	-0.6819	ppb	0.6682	98.0	-1.6415	-0.68194
Pb 220.353	-1.3031	ppb	1.7848	137.0	1.0320	-1.30306
Sb 206.834	1.4673	ppb	6.4125	437.0	3.3682	1.46732
Se 196.026	7.4890	ppb	9.7521	130.2	4.0230	7.48897
Sn 189.925	-0.0251	ppb	1.5540	6195.4	-0.2413	-0.02508
Sr 216.596	-0.1945	ppb	1.1413	586.7	-6.4615	-0.19454
Ti 334.941	-0.0239	ppb	0.0414	173.6	51.8688	-0.02386

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	-2.2130	ppb	4.9211	222.4	-2.4112	-2.21298
V 292.401	0.3022	ppb	0.2992	99.0	13.7206	0.30221
Zn 206.200	1.1559	ppb	0.3366	29.1	8.9852	1.15589

**680-89701-b-3-a (Samp)**      **5/1/2013, 10:18:54 AM**      **Rack 4, Tube 27**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2705	ppb	0.3937	145.5	-22.6244
Al 308.215	-23.3085	ppb	2.1936	9.4	112.885
As 188.980	2.3634	ppb	9.2690	392.2	-0.7276
B 249.678	26.3462	ppb	0.7384	2.8	247.299
Ba 389.178	15.1890	ppb	0.3413	2.2	224.483
Be 313.042	0.0052	ppb	0.0102	195.1	-77.1580
Ca 370.602	5310	ppb	4.701	0.1	17374
Cd 226.502	-0.1238	ppb	0.1014	81.9	21.7597
Co 228.615	-0.8641	ppb	0.6725	77.8	-9.9432
Cr 267.716	4.3619	ppb	0.2481	5.7	70.4648
Cu 324.754	1.2363	ppb	0.1366	11.1	118.485
Fe 271.441	5754.74	ppb	9.5686	0.2	3981.15
K 766.491	751.417	ppb	1.2662	0.2	87315.3
Mg 279.078	863.347	ppb	8.7182	1.0	1040.02
Mn 257.610	111.986	ppb	0.2962	0.3	9839.89
Mo 202.032	0.5470	ppb	0.4441	81.2	3.5182
Na 330.237	3546.10	ppb	33.9532	1.0	215.859
Ni 231.604	7.6059	ppb	0.3424	4.5	21.0031
Pb 220.353	-2.4531	ppb	1.9341	78.8	0.1115
Sb 206.834	-2.1941	ppb	2.8972	132.0	1.3862
Se 196.026	3.5467	ppb	13.8948	391.8	3.0878
Sn 189.925	-1.1240	ppb	4.3532	387.3	-0.8495
Sr 216.596	15.6605	ppb	0.3850	2.5	83.9856
Ti 334.941	0.5008	ppb	0.0070	1.4	60.2500
Tl 190.794	-3.1770	ppb	6.2657	197.2	-3.0859
V 292.401	0.3516	ppb	0.1052	29.9	15.9324
Zn 206.200	4.6745	ppb	0.2413	5.2	18.5959

**680-89701-b-4-a (Samp)**      **5/1/2013, 10:24:24 AM**      **Rack 4, Tube 28**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0355	ppb	0.4035	1136.3	-30.9955
Al 308.215	-30.5964	ppb	0.9671	3.2	91.6644
As 188.980	-2.6702	ppb	5.1777	193.9	-2.2738
B 249.678	94.3396	ppb	1.1585	1.2	811.057
Ba 389.178	50.1547	ppb	0.6314	1.3	767.687
Be 313.042	0.0510	ppb	0.0079	15.5	-13.6354
Ca 370.602	3916	ppb	16.21	0.4	13489
Cd 226.502	-0.1894	ppb	0.1015	53.6	8.8374
Co 228.615	-0.2154	ppb	0.2635	122.3	-5.3577
Cr 267.716	4.1954	ppb	0.4954	11.8	70.7051
Cu 324.754	17.7505	ppb	0.1188	0.7	707.361
Fe 271.441	279.630	ppb	7.8770	2.8	197.589
K 766.491	1409.38	ppb	3.2829	0.2	161972

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	2287.03	ppb	10.3590	0.5	2688.29
Mn 257.610	56.5227	ppb	0.1917	0.3	4973.06
Mo 202.032	0.7751	ppb	0.2475	31.9	4.9871
Na 330.237	14856.5	ppb	110.122	0.7	886.693
Ni 231.604	16.2123	ppb	0.4909	3.0	43.9009
Pb 220.353	0.2276	ppb	4.3321	1903.3	2.2054
Sb 206.834	-0.4913	ppb	0.7471	152.0	2.2646
Se 196.026	2.3248	ppb	8.7590	376.8	2.7908
Sn 189.925	0.0395	ppb	2.1874	5542.8	-0.2164
Sr 216.596	27.8816	ppb	0.6761	2.4	149.116
Ti 334.941	-0.0017	ppb	0.0548	3195.8	-43.7780
Tl 190.794	2.1262	ppb	7.3218	344.4	-0.6114
V 292.401	-0.0646	ppb	0.1893	293.0	3.3793
Zn 206.200	6.7516	ppb	0.6570	9.7	24.1154

680-89701-b-5-a (Samp)

5/1/2013, 10:29:54 AM

Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3649	ppb	0.1421	39.0	-19.2526
Al 308.215	-41.9060	ppb	2.7354	6.5	57.8039
As 188.980	3.1495	ppb	3.6579	116.1	-0.3896
B 249.678	31.2933	ppb	0.2876	0.9	299.778
Ba 389.178	5.0420	ppb	0.4764	9.4	58.7511
Be 313.042	0.0020	ppb	0.0074	364.8	-82.9970
Ca 370.602	1077	ppb	4.208	0.4	3782
Cd 226.502	0.1316	ppb	0.2355	179.0	14.6821
Co 228.615	-0.5689	ppb	0.4597	80.8	-7.9329
Cr 267.716	3.0295	ppb	0.4644	15.3	53.7989
Cu 324.754	3.2027	ppb	0.3007	9.4	197.253
Fe 271.441	35.5432	ppb	8.4672	23.8	28.8818
K 766.491	254.440	ppb	1.1805	0.5	30921.1
Mg 279.078	357.081	ppb	2.2524	0.6	480.900
Mn 257.610	3.9331	ppb	0.0722	1.8	355.766
Mo 202.032	1.0516	ppb	0.8920	84.8	5.9557
Na 330.237	3699.01	ppb	20.9572	0.6	227.331
Ni 231.604	17.4509	ppb	1.0357	5.9	47.1497
Pb 220.353	-0.8600	ppb	4.0617	472.3	1.3702
Sb 206.834	0.5190	ppb	2.0805	400.9	2.8355
Se 196.026	-8.4164	ppb	5.2881	62.8	0.1323
Sn 189.925	-1.7087	ppb	3.2247	188.7	-1.1517
Sr 216.596	7.1745	ppb	0.9069	12.6	33.8965
Ti 334.941	-0.0713	ppb	0.0572	80.3	-60.3466
Tl 190.794	0.4421	ppb	4.2153	953.5	-1.2950
V 292.401	-0.0057	ppb	0.0820	1427.1	5.0560
Zn 206.200	8.3655	ppb	0.2597	3.1	28.3999

680-89701-b-6-a (Samp)

5/1/2013, 10:35:24 AM

Rack 4, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3229	ppb	0.6079	188.3	-40.7626
Al 308.215	-40.8373	ppb	1.2044	2.9	59.6338

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	8.2257	ppb	7.6748	93.3	0.7988
B 249.678	154.286	ppb	0.5142	0.3	1273.05
Ba 389.178	100.084	ppb	1.0994	1.1	1562.30
Be 313.042	0.0087	ppb	0.0104	119.3	-69.4505
Ca 370.602	19723	ppb	40.68	0.2	65873
Cd 226.502	-0.3048	ppb	0.1192	39.1	30.8056
Co 228.615	0.4087	ppb	0.5580	136.5	-0.6701
Cr 267.716	2.3990	ppb	0.0411	1.7	39.2678
Cu 324.754	0.9055	ppb	0.2616	28.9	71.0297
Fe 271.441	11712.0	ppb	13.7525	0.1	8097.98
K 766.491	4927.53	ppb	17.7637	0.4	561198
Mg 279.078	3251.68	ppb	12.4568	0.4	3751.82
Mn 257.610	241.903	ppb	0.2655	0.1	21246.4
Mo 202.032	0.1300	ppb	0.6315	485.8	1.3483
Na 330.237	8712.32	ppb	134.822	1.5	518.705
Ni 231.604	8.1837	ppb	0.5842	7.1	22.9742
Pb 220.353	-3.0931	ppb	1.0512	34.0	-0.4095
Sb 206.834	0.8219	ppb	2.3839	290.0	3.4504
Se 196.026	8.9167	ppb	6.3148	70.8	4.4698
Sn 189.925	-3.8726	ppb	2.2362	57.7	-2.3763
Sr 216.596	93.7587	ppb	1.1955	1.3	520.692
Ti 334.941	-0.0654	ppb	0.0838	128.2	-39.7791
Tl 190.794	-1.1758	ppb	5.7520	489.2	-2.5849
V 292.401	0.0296	ppb	0.2374	803.2	8.1784
Zn 206.200	16.5121	ppb	0.3245	2.0	50.6713

680-89701-b-7-a (Samp)

5/1/2013, 10:40:54 AM

Rack 4, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1378	ppb	0.1212	88.0	-25.9847
Al 308.215	-36.8688	ppb	2.2507	6.1	72.8814
As 188.980	1.8157	ppb	10.7571	592.5	-0.8064
B 249.678	8.5198	ppb	0.6938	8.1	114.951
Ba 389.178	12.3915	ppb	0.3961	3.2	173.706
Be 313.042	0.0318	ppb	0.0072	22.6	-40.7621
Ca 370.602	1009	ppb	2.762	0.3	3549
Cd 226.502	-0.1142	ppb	0.1482	129.8	9.8161
Co 228.615	0.3672	ppb	0.6052	164.8	-1.1940
Cr 267.716	1.8535	ppb	0.1052	5.7	36.7451
Cu 324.754	7.3012	ppb	0.4319	5.9	343.214
Fe 271.441	30.7017	ppb	14.5888	47.5	25.5874
K 766.491	709.275	ppb	4.0764	0.6	82533.8
Mg 279.078	402.953	ppb	9.1599	2.3	533.400
Mn 257.610	5.7065	ppb	0.0752	1.3	511.414
Mo 202.032	0.4872	ppb	0.7420	152.3	4.0418
Na 330.237	4008.78	ppb	86.6427	2.2	245.642
Ni 231.604	17.0086	ppb	0.4385	2.6	45.9620
Pb 220.353	-2.7806	ppb	5.9926	215.5	-0.1083
Sb 206.834	2.4193	ppb	0.4339	17.9	3.9653
Se 196.026	15.5476	ppb	10.9635	70.5	6.0034
Sn 189.925	-0.1039	ppb	3.4545	3325.8	-0.2864
Sr 216.596	7.7989	ppb	1.0780	13.8	37.3747
Ti 334.941	-0.0469	ppb	0.0079	16.9	55.5653

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1.6445	ppb	3.1284	190.2	-0.7809
V 292.401	-0.1596	ppb	0.3004	188.2	1.0438
Zn 206.200	8.5287	ppb	0.2852	3.3	28.8446

**680-89701-b-8-a (Samp)**      **5/1/2013, 10:46:24 AM**      **Rack 4, Tube 32**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0483	ppb	0.6167	1277.9	-28.5960
Al 308.215	-32.1996	ppb	3.6059	11.2	86.8647
As 188.980	0.4027	ppb	3.8765	962.7	-1.3154
B 249.678	15.8263	ppb	0.4664	2.9	174.348
Ba 389.178	24.5515	ppb	0.4572	1.9	365.804
Be 313.042	0.0428	ppb	0.0088	20.5	-24.0368
Ca 370.602	4205	ppb	6.609	0.2	14527
Cd 226.502	0.0984	ppb	0.2176	221.2	13.9360
Co 228.615	-0.2533	ppb	0.6738	266.0	-5.6302
Cr 267.716	0.3996	ppb	0.2162	54.1	15.6845
Cu 324.754	1.2443	ppb	0.2208	17.7	119.179
Fe 271.441	-9.6428	ppb	5.3764	55.8	-2.3185
K 766.491	830.898	ppb	1.3542	0.2	96332.6
Mg 279.078	1548.59	ppb	3.9637	0.3	1844.42
Mn 257.610	15.6172	ppb	0.0272	0.2	1383.33
Mo 202.032	-0.1108	ppb	0.8102	731.2	2.0180
Na 330.237	4176.76	ppb	134.606	3.2	255.606
Ni 231.604	1.7268	ppb	0.4603	26.7	4.8984
Pb 220.353	1.0039	ppb	2.3947	238.5	2.8104
Sb 206.834	1.9790	ppb	3.9588	200.0	3.7150
Se 196.026	6.1059	ppb	12.9790	212.6	3.7072
Sn 189.925	-0.9227	ppb	1.3525	146.6	-0.7382
Sr 216.596	16.9076	ppb	0.4628	2.7	88.5990
Ti 334.941	-0.0330	ppb	0.0319	96.7	-49.5035
Tl 190.794	1.5509	ppb	3.5646	229.8	-0.8464
V 292.401	0.1270	ppb	0.1181	93.1	9.2403
Zn 206.200	21.2397	ppb	1.4432	6.8	63.1066

**680-89701-b-8-aSD^5 (Samp)**      **5/1/2013, 10:51:54 AM**      **Rack 4, Tube 33**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1460	ppb	0.2685	183.9	-25.7342
Al 308.215	-42.7829	ppb	1.9888	4.6	55.1347
As 188.980	2.8511	ppb	6.0928	213.7	-0.4755
B 249.678	2.9761	ppb	0.3381	11.4	70.0255
Ba 389.178	4.6606	ppb	0.3275	7.0	52.5728
Be 313.042	-0.0047	ppb	0.0079	171.0	-92.1420
Ca 370.602	803.6	ppb	1.364	0.2	2850
Cd 226.502	-0.1091	ppb	0.0962	88.1	9.8350
Co 228.615	-1.0422	ppb	0.5786	55.5	-11.3095
Cr 267.716	-0.1171	ppb	0.0482	41.1	8.1599
Cu 324.754	0.1937	ppb	0.1660	85.7	90.8017
Fe 271.441	-11.5188	ppb	5.9892	52.0	-3.6376
K 766.491	168.555	ppb	0.6648	0.4	21175.0



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	272.975	ppb	7.5477	2.8	384.824
Mn 257.610	3.1366	ppb	0.0534	1.7	285.667
Mo 202.032	-0.4390	ppb	0.9487	216.1	0.9048
Na 330.237	727.484	ppb	61.7768	8.5	51.7135
Ni 231.604	0.6481	ppb	0.6266	96.7	1.9483
Pb 220.353	-2.5235	ppb	3.6813	145.9	0.0937
Sb 206.834	4.2298	ppb	6.2869	148.6	5.0345
Se 196.026	-4.6888	ppb	2.1433	45.7	1.0442
Sn 189.925	-2.9895	ppb	2.6878	89.9	-1.8418
Sr 216.596	3.3334	ppb	0.6983	20.9	13.1399
Ti 334.941	-0.0318	ppb	0.0505	158.6	-52.6525
Tl 190.794	-1.9543	ppb	2.2455	114.9	-2.3078
V 292.401	0.0053	ppb	0.2847	5401.5	5.9673
Zn 206.200	6.3781	ppb	0.2103	3.3	23.0562

680-89701-b-8-aPDS (Samp) 5/1/2013, 10:57:23 AM Rack 4, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.2268	ppb	0.2452	0.5	1489.98
Al 308.215	1927.75	ppb	5.0644	0.3	6000.02
As 188.980	1987.24	ppb	10.5608	0.5	621.278
B 249.678	1021.22	ppb	1.8099	0.2	8339.18
Ba 389.178	2150.17	ppb	2.9776	0.1	33606.7
Be 313.042	53.6837	ppb	0.0742	0.1	76480.4
Ca 370.602	9490	ppb	21.67	0.2	32617
Cd 226.502	53.7316	ppb	0.4666	0.9	1076.21
Co 228.615	538.206	ppb	2.4523	0.5	3869.58
Cr 267.716	219.814	ppb	0.0763	0.0	3196.43
Cu 324.754	261.517	ppb	0.8128	0.3	9355.88
Fe 271.441	1027.09	ppb	9.8690	1.0	740.970
K 766.491	5954.13	ppb	4.6013	0.1	677209
Mg 279.078	6623.74	ppb	13.6355	0.2	7646.93
Mn 257.610	574.073	ppb	0.5754	0.1	50386.8
Mo 202.032	511.812	ppb	1.5326	0.3	1737.62
Na 330.237	9460.30	ppb	34.6850	0.4	561.676
Ni 231.604	535.912	ppb	0.5177	0.1	1442.65
Pb 220.353	512.220	ppb	1.9652	0.4	395.560
Sb 206.834	486.650	ppb	4.9161	1.0	292.109
Se 196.026	1994.46	ppb	4.0031	0.2	490.960
Sn 189.925	1083.49	ppb	1.3250	0.1	583.943
Sr 216.596	549.045	ppb	0.4490	0.1	3016.90
Ti 334.941	1021.56	ppb	0.2793	0.0	207067
Tl 190.794	2088.34	ppb	12.9777	0.6	887.467
V 292.401	501.534	ppb	1.0256	0.2	13588.2
Zn 206.200	562.169	ppb	1.5272	0.3	1518.93

680-89701-b-8-b ms (Samp) 5/1/2013, 11:02:53 AM Rack 4, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4889	ppb	0.8174	1.6	1528.97
Al 308.215	5008.21	ppb	10.5436	0.2	15202.4

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	102.008	ppb	5.6237	5.5	30.4341
B 249.678	217.472	ppb	1.0668	0.5	1800.44
Ba 389.178	131.287	ppb	0.9740	0.7	2049.68
Be 313.042	55.7569	ppb	0.2547	0.5	79246.0
Ca 370.602	9414	ppb	22.39	0.2	31599
Cd 226.502	54.4891	ppb	0.1600	0.3	1099.82
Co 228.615	53.1230	ppb	1.1514	2.2	377.719
Cr 267.716	111.394	ppb	0.4140	0.4	1623.39
Cu 324.754	108.577	ppb	0.1246	0.1	3924.91
Fe 271.441	5053.49	ppb	16.8787	0.3	3499.61
K 766.491	5681.79	ppb	15.5728	0.3	646784
Mg 279.078	6485.96	ppb	11.0203	0.2	7475.32
Mn 257.610	579.587	ppb	2.2985	0.4	50865.4
Mo 202.032	101.401	ppb	0.4874	0.5	345.621
Na 330.237	9369.20	ppb	75.1493	0.8	559.854
Ni 231.604	109.872	ppb	1.1659	1.1	296.211
Pb 220.353	50.9252	ppb	0.8754	1.7	40.4955
Sb 206.834	52.8726	ppb	0.1348	0.3	34.8540
Se 196.026	110.494	ppb	1.5825	1.4	29.4254
Sn 189.925	213.384	ppb	0.6668	0.3	114.777
Sr 216.596	120.446	ppb	0.5640	0.5	660.444
Ti 334.941	103.060	ppb	0.4629	0.4	20861.4
Tl 190.794	43.8244	ppb	7.6218	17.4	16.9739
V 292.401	102.403	ppb	0.0381	0.0	2774.80
Zn 206.200	128.049	ppb	0.4272	0.3	350.568

680-89701-b-8-c msd (Samp) 5/1/2013, 11:08:23 AM Rack 4, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.4799	ppb	0.5175	1.0	1558.38
Al 308.215	5032.89	ppb	4.9076	0.1	15276.3
As 188.980	98.7216	ppb	10.5363	10.7	29.4019
B 249.678	216.982	ppb	0.4846	0.2	1796.41
Ba 389.178	132.770	ppb	0.7182	0.5	2073.07
Be 313.042	55.4433	ppb	0.0280	0.1	78800.4
Ca 370.602	9509	ppb	29.33	0.3	31921
Cd 226.502	55.2458	ppb	0.1286	0.2	1114.84
Co 228.615	53.6352	ppb	0.5459	1.0	381.430
Cr 267.716	111.748	ppb	0.9222	0.8	1628.51
Cu 324.754	108.377	ppb	0.2967	0.3	3917.54
Fe 271.441	5087.00	ppb	17.3254	0.3	3522.78
K 766.491	5880.82	ppb	4.4177	0.1	669370
Mg 279.078	6603.66	ppb	9.0661	0.1	7609.87
Mn 257.610	581.848	ppb	0.3904	0.1	51064.0
Mo 202.032	101.125	ppb	0.2811	0.3	344.679
Na 330.237	9496.96	ppb	87.2553	0.9	567.395
Ni 231.604	109.735	ppb	0.8936	0.8	295.847
Pb 220.353	52.3974	ppb	3.0440	5.8	41.6297
Sb 206.834	46.7291	ppb	2.6951	5.8	31.1766
Se 196.026	102.712	ppb	12.1807	11.9	27.5202
Sn 189.925	208.570	ppb	2.7627	1.3	112.182
Sr 216.596	122.575	ppb	1.0814	0.9	672.323
Ti 334.941	102.946	ppb	0.0550	0.1	20838.5

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	37.9774	ppb	6.8887	18.1	14.4888
V 292.401	102.643	ppb	0.1827	0.2	2781.83
Zn 206.200	130.149	ppb	1.0247	0.8	356.226

Cont Calib Verif (CCV) 5/1/2013, 11:13:53 AM Rack 4, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.164	ppb	3.8315	0.8	14994.7	101.23278
Al 308.215	4881.42	ppb	29.6488	0.6	15091.8	97.62839
As 188.980	520.677	ppb	11.8320	2.3	162.467	104.13540
B 249.678	521.000	ppb	2.6856	0.5	4269.94	20.84000Q
Ba 389.178	5253.30	ppb	31.5238	0.6	82136.8	105.06605
Be 313.042	531.283	ppb	3.7821	0.7	758111	106.25665
Ca 370.602	5318	ppb	35.60	0.7	17755	106.35600
Cd 226.502	534.990	ppb	3.1207	0.6	10595.3	106.99797
Co 228.615	534.411	ppb	3.3644	0.6	3839.06	106.88230
Cr 267.716	5484.10	ppb	31.4453	0.6	79535.4	109.68201
Cu 324.754	5181.57	ppb	17.1429	0.3	184312	103.63148
Fe 271.441	5052.98	ppb	27.7030	0.5	3553.89	101.05961
K 766.491	9996.12	ppb	58.6315	0.6	1135155	99.96121
Mg 279.078	4966.52	ppb	45.5772	0.9	5727.94	99.33036
Mn 257.610	5565.60	ppb	29.7857	0.5	488175	111.31198Q
Mo 202.032	493.647	ppb	2.6998	0.5	1667.22	98.72946
Na 330.237	7697.94	ppb	140.068	1.8	462.279	102.63923
Ni 231.604	2674.12	ppb	16.5054	0.6	7195.63	106.96467
Pb 220.353	511.916	ppb	3.9576	0.8	390.958	102.38316
Sb 206.834	1006.58	ppb	8.5601	0.9	640.052	40.26317Q
Se 196.026	4930.08	ppb	51.3797	1.0	1210.96	98.60164
Sn 189.925	5328.49	ppb	26.9082	0.5	2871.84	106.56983
Sr 216.596	2590.21	ppb	15.0465	0.6	14275.3	103.60822
Ti 334.941	506.898	ppb	3.0981	0.6	103031	101.37962
Tl 190.794	5098.84	ppb	20.0375	0.4	2171.16	101.97680
V 292.401	5027.63	ppb	30.7948	0.6	136982	100.55254
Zn 206.200	2753.75	ppb	17.4064	0.6	7402.26	110.15018

Cont Calib Blank (CCB) 5/1/2013, 11:19:23 AM Rack 4, Tube 38  
 Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3436	ppb	0.7690	223.8	-19.8744	0.34361
Al 308.215	-44.2352	ppb	2.8693	6.5	50.8375	-44.23521
As 188.980	2.5233	ppb	2.0680	82.0	-0.5596	2.52331
B 249.678	1.9387	ppb	0.2683	13.8	61.5977	1.93873
Ba 389.178	-0.0789	ppb	0.8382	1062.3	-22.0829	-0.07890
Be 313.042	0.0069	ppb	0.0116	167.1	-75.8297	0.00695
Ca 370.602	-47.68	ppb	1.989	4.2	-72.52	-47.68293
Cd 226.502	0.0182	ppb	0.1893	1039.3	12.3452	0.01821
Co 228.615	-0.7118	ppb	0.5520	77.6	-8.9653	-0.71182
Cr 267.716	0.4174	ppb	0.2414	57.8	15.9074	0.41745
Cu 324.754	-0.0247	ppb	0.2618	1060.4	85.2895	-0.02469
Fe 271.441	-12.6200	ppb	5.4096	42.9	-4.3892	-12.62001
K 766.491	1.2783	ppb	0.4805	37.6	2193.68	1.27833

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	-47.7785	ppb	5.4308	11.4	17.8174	-47.77851
Mn 257.610	0.1536	ppb	0.0720	46.9	23.2797	0.15359
Mo 202.032	0.9661	ppb	0.7603	78.7	5.6714	0.96613
Na 330.237	-128.352	ppb	48.5717	37.8	1.1225	-128.35207
Ni 231.604	0.0802	ppb	0.5316	662.6	0.4108	0.08024
Pb 220.353	-2.6907	ppb	2.2939	85.3	-0.0376	-2.69074
Sb 206.834	1.9376	ppb	3.4264	176.8	3.6530	1.93764
Se 196.026	-0.1228	ppb	6.4290	5236.6	2.1582	-0.12277
Sn 189.925	-0.3913	ppb	3.7151	949.4	-0.4388	-0.39130
Sr 216.596	-0.2211	ppb	0.4872	220.4	-6.6399	-0.22109
Ti 334.941	-0.0282	ppb	0.0043	15.2	-52.7283	-0.02818
Tl 190.794	0.7615	ppb	6.0622	796.1	-1.1472	0.76152
V 292.401	0.2319	ppb	0.1349	58.2	11.7091	0.23186
Zn 206.200	1.0822	ppb	0.3346	30.9	8.7861	1.08223

mb 680-274908/1-a (Samp)

5/1/2013, 11:24:53 AM

Rack 4, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5305	ppb	0.5248	98.9	-14.3287
Al 308.215	-43.7058	ppb	0.5785	1.3	52.3594
As 188.980	2.9803	ppb	8.7796	294.6	-0.4168
B 249.678	2.9834	ppb	0.3572	12.0	70.0891
Ba 389.178	0.4993	ppb	0.5090	101.9	-13.0538
Be 313.042	0.0117	ppb	0.0031	26.6	-69.0499
Ca 370.602	-49.60	ppb	1.462	2.9	-78.88
Cd 226.502	-0.0539	ppb	0.2129	394.7	10.9162
Co 228.615	-1.1055	ppb	0.3813	34.5	-11.7631
Cr 267.716	-0.0896	ppb	0.2123	236.9	8.5542
Cu 324.754	0.0634	ppb	0.1936	305.4	88.4170
Fe 271.441	-14.9060	ppb	5.4514	36.6	-5.9920
K 766.491	1.9608	ppb	0.1607	8.2	2270.97
Mg 279.078	-46.3178	ppb	5.8466	12.6	19.4934
Mn 257.610	0.3117	ppb	0.0332	10.6	37.1542
Mo 202.032	-0.9005	ppb	0.0498	5.5	-0.6601
Na 330.237	-28.7852	ppb	123.584	429.3	7.0074
Ni 231.604	-0.0311	ppb	0.2662	856.8	0.1114
Pb 220.353	-5.3451	ppb	2.3824	44.6	-2.0796
Sb 206.834	0.6835	ppb	0.6160	90.1	2.8983
Se 196.026	4.6473	ppb	3.5635	76.7	3.3268
Sn 189.925	-0.8088	ppb	5.5143	681.8	-0.6637
Sr 216.596	-0.3711	ppb	0.4282	115.4	-7.4369
Ti 334.941	-0.0493	ppb	0.0184	37.3	-57.0530
Tl 190.794	1.1916	ppb	3.0759	258.1	-0.9633
V 292.401	-0.0671	ppb	0.1224	182.4	4.0592
Zn 206.200	0.8526	ppb	0.6489	76.1	8.1701

lcs 680-274908/2-a (Samp)

5/1/2013, 11:30:24 AM

Rack 4, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8927	ppb	0.3832	0.8	1481.50
Al 308.215	4908.97	ppb	10.9489	0.2	14904.7

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	100.996	ppb	2.9870	3.0	30.2076
B 249.678	199.839	ppb	0.7713	0.4	1657.52
Ba 389.178	104.285	ppb	0.8130	0.8	1624.56
Be 313.042	53.6310	ppb	0.0613	0.1	76221.7
Ca 370.602	5116	ppb	6.358	0.1	16858
Cd 226.502	53.8468	ppb	0.2572	0.5	1086.93
Co 228.615	52.4213	ppb	0.3439	0.7	372.720
Cr 267.716	109.089	ppb	0.1986	0.2	1589.95
Cu 324.754	103.996	ppb	0.4265	0.4	3773.27
Fe 271.441	4965.22	ppb	4.7451	0.1	3438.55
K 766.491	4980.45	ppb	4.7182	0.1	567203
Mg 279.078	4899.08	ppb	11.0193	0.2	5659.89
Mn 257.610	552.305	ppb	0.3190	0.1	48468.7
Mo 202.032	96.9870	ppb	2.5612	2.6	330.660
Na 330.237	5100.53	ppb	138.252	2.7	307.580
Ni 231.604	107.533	ppb	0.7580	0.7	289.855
Pb 220.353	49.7779	ppb	3.9215	7.9	39.6333
Sb 206.834	45.3229	ppb	2.4081	5.3	30.2749
Se 196.026	103.346	ppb	6.8734	6.7	27.6491
Sn 189.925	210.245	ppb	3.9652	1.9	113.097
Sr 216.596	103.006	ppb	0.9236	0.9	563.600
Ti 334.941	100.214	ppb	0.2449	0.2	20280.2
Tl 190.794	36.4599	ppb	4.3780	12.0	13.8859
V 292.401	100.207	ppb	0.0478	0.0	2716.37
Zn 206.200	109.299	ppb	1.6380	1.5	300.042

680-89623-d-1-e (Samp)

5/1/2013, 11:35:54 AM

Rack 4, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0624	ppb	0.9497	1522.7	-28.0997
Al 308.215	-7.3365	ppb	2.8895	39.4	161.405
As 188.980	1.8927	ppb	6.6598	351.9	-0.9355
B 249.678	7.0901	ppb	0.6452	9.1	103.307
Ba 389.178	33.1802	ppb	0.2931	0.9	501.475
Be 313.042	0.0181	ppb	0.0025	13.6	-58.2314
Ca 370.602	8296	ppb	9.434	0.1	28564
Cd 226.502	0.1154	ppb	0.0733	63.5	14.3806
Co 228.615	-0.8110	ppb	0.3985	49.1	-9.6308
Cr 267.716	-0.1541	ppb	0.1854	120.3	7.6556
Cu 324.754	0.9357	ppb	0.1132	12.1	97.3033
Fe 271.441	41.9639	ppb	2.4612	5.9	33.3173
K 766.491	622.262	ppb	0.5620	0.1	72654.7
Mg 279.078	1952.41	ppb	3.8648	0.2	2306.28
Mn 257.610	37.7139	ppb	0.0559	0.1	3322.40
Mo 202.032	0.6161	ppb	0.3449	56.0	4.4777
Na 330.237	5153.07	ppb	45.2566	0.9	313.262
Ni 231.604	0.0977	ppb	0.2201	225.3	0.5317
Pb 220.353	-3.3234	ppb	2.7599	83.0	-0.5273
Sb 206.834	0.9127	ppb	1.2862	140.9	3.1051
Se 196.026	1.2385	ppb	10.8600	876.9	2.5320
Sn 189.925	-1.2333	ppb	2.1470	174.1	-0.9187
Sr 216.596	40.9388	ppb	0.4772	1.2	222.252
Ti 334.941	0.6697	ppb	0.0431	6.4	97.1253

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-0.9454	ppb	4.5434	480.6	-1.9458
V 292.401	0.3430	ppb	0.2420	70.6	15.0328
Zn 206.200	4.2453	ppb	0.1482	3.5	17.3660

**680-89623-d-1-eSD^5 (Samp)**      **5/1/2013, 11:41:25 AM**      **Rack 4, Tube 42**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6879	ppb	0.3486	50.7	-9.6347
Al 308.215	-36.6528	ppb	2.8898	7.9	73.5178
As 188.980	4.0810	ppb	3.6788	90.1	-0.1067
B 249.678	1.2599	ppb	0.7258	57.6	56.0806
Ba 389.178	6.6149	ppb	0.5154	7.8	83.2718
Be 313.042	0.0006	ppb	0.0077	1348.2	-84.4580
Ca 370.602	1590	ppb	7.667	0.5	5549
Cd 226.502	-0.0647	ppb	0.2170	335.6	10.7240
Co 228.615	-0.9974	ppb	0.1944	19.5	-10.9857
Cr 267.716	0.5789	ppb	0.4299	74.3	18.2586
Cu 324.754	0.0066	ppb	0.0832	1268.6	82.0453
Fe 271.441	-5.7010	ppb	1.4562	25.5	0.3783
K 766.491	123.855	ppb	0.2027	0.2	16102.0
Mg 279.078	347.911	ppb	3.0591	0.9	470.544
Mn 257.610	7.5025	ppb	0.0458	0.6	668.785
Mo 202.032	-0.7396	ppb	0.5690	76.9	-0.1156
Na 330.237	966.088	ppb	73.8632	7.6	65.8069
Ni 231.604	0.3874	ppb	0.6879	177.6	1.2504
Pb 220.353	-2.1503	ppb	0.6446	30.0	0.3802
Sb 206.834	-0.2189	ppb	3.7503	1713.5	2.3755
Se 196.026	4.9062	ppb	4.0302	82.1	3.3981
Sn 189.925	-2.2248	ppb	1.3462	60.5	-1.4321
Sr 216.596	7.8839	ppb	0.2633	3.3	38.4453
Ti 334.941	0.0563	ppb	0.0937	166.6	-33.9620
Tl 190.794	-1.0502	ppb	0.8770	83.5	-1.9305
V 292.401	0.1446	ppb	0.1960	135.6	9.7243
Zn 206.200	1.8667	ppb	0.6618	35.5	10.9104

**680-89623-d-1-ePDS (Samp)**      **5/1/2013, 11:46:55 AM**      **Rack 4, Tube 43**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1133	ppb	1.1418	2.2	1486.67
Al 308.215	1974.03	ppb	9.9068	0.5	6139.03
As 188.980	2027.85	ppb	8.7218	0.4	633.917
B 249.678	1025.51	ppb	4.1652	0.4	8374.05
Ba 389.178	2176.39	ppb	7.6246	0.4	34017.5
Be 313.042	54.0087	ppb	0.2285	0.4	76946.5
Ca 370.602	13609	ppb	48.38	0.4	46748
Cd 226.502	54.3647	ppb	0.5931	1.1	1088.84
Co 228.615	548.710	ppb	1.5833	0.3	3945.18
Cr 267.716	223.206	ppb	0.5783	0.3	3245.61
Cu 324.754	262.899	ppb	0.5936	0.2	9393.98
Fe 271.441	1081.10	ppb	5.4624	0.5	778.732
K 766.491	5908.18	ppb	26.1839	0.4	671989

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	7070.16	ppb	20.3786	0.3	8157.51
Mn 257.610	602.889	ppb	2.7836	0.5	52915.4
Mo 202.032	511.233	ppb	3.1291	0.6	1735.63
Na 330.237	10566.8	ppb	128.495	1.2	626.986
Ni 231.604	543.098	ppb	3.2280	0.6	1462.02
Pb 220.353	516.569	ppb	7.2292	1.4	398.900
Sb 206.834	496.155	ppb	3.3133	0.7	297.846
Se 196.026	2002.79	ppb	11.6419	0.6	493.021
Sn 189.925	1096.23	ppb	5.0953	0.5	590.802
Sr 216.596	576.616	ppb	3.1548	0.5	3169.91
Ti 334.941	1031.95	ppb	4.7165	0.5	209179
Tl 190.794	2137.15	ppb	19.6508	0.9	908.200
V 292.401	506.903	ppb	0.9680	0.2	13734.6
Zn 206.200	558.002	ppb	1.5890	0.3	1507.72

680-89623-d-1-f ms (Samp)

5/1/2013, 11:52:26 AM

Rack 4, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.6393	ppb	0.7690	1.5	1503.79
Al 308.215	4929.10	ppb	13.8436	0.3	14965.1
As 188.980	95.9793	ppb	6.7984	7.1	28.4625
B 249.678	203.247	ppb	0.4080	0.2	1685.07
Ba 389.178	137.043	ppb	0.4945	0.4	2140.16
Be 313.042	53.6421	ppb	0.1857	0.3	76238.8
Ca 370.602	13235	ppb	54.13	0.4	44724
Cd 226.502	53.3523	ppb	0.2435	0.5	1077.26
Co 228.615	52.5741	ppb	0.6030	1.1	373.817
Cr 267.716	108.631	ppb	0.3139	0.3	1583.35
Cu 324.754	104.579	ppb	0.8582	0.8	3772.48
Fe 271.441	5012.37	ppb	20.7379	0.4	3471.13
K 766.491	5610.82	ppb	15.3014	0.3	638729
Mg 279.078	6812.63	ppb	19.2537	0.3	7849.23
Mn 257.610	587.630	ppb	1.8871	0.3	51571.5
Mo 202.032	98.5232	ppb	0.3404	0.3	335.866
Na 330.237	10237.8	ppb	160.211	1.6	611.199
Ni 231.604	107.428	ppb	0.8538	0.8	289.646
Pb 220.353	47.7828	ppb	5.3305	11.2	38.0899
Sb 206.834	46.4097	ppb	2.5617	5.5	30.9909
Se 196.026	100.065	ppb	5.1336	5.1	26.8839
Sn 189.925	213.272	ppb	5.1385	2.4	114.703
Sr 216.596	141.258	ppb	1.3372	0.9	776.290
Ti 334.941	100.738	ppb	0.1789	0.2	20394.5
Tl 190.794	43.4157	ppb	0.4390	1.0	16.7686
V 292.401	99.9570	ppb	0.6210	0.6	2709.11
Zn 206.200	111.769	ppb	0.4383	0.4	306.756

680-89623-d-1-g msd (Samp)

5/1/2013, 11:57:56 AM

Rack 4, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.7041	ppb	0.7201	1.4	1505.71
Al 308.215	4933.20	ppb	11.6666	0.2	14977.3

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	97.9678	ppb	1.4715	1.5	29.0891
B 249.678	202.528	ppb	0.4425	0.2	1679.23
Ba 389.178	136.218	ppb	0.8558	0.6	2127.22
Be 313.042	53.7109	ppb	0.1173	0.2	76336.8
Ca 370.602	13063	ppb	33.54	0.3	44132
Cd 226.502	53.7328	ppb	0.1652	0.3	1084.81
Co 228.615	53.2203	ppb	0.4065	0.8	378.473
Cr 267.716	109.576	ppb	0.6196	0.6	1597.05
Cu 324.754	105.334	ppb	0.5788	0.5	3799.80
Fe 271.441	5025.74	ppb	12.0907	0.2	3480.41
K 766.491	5604.18	ppb	9.0893	0.2	637976
Mg 279.078	6789.22	ppb	14.8809	0.2	7822.40
Mn 257.610	587.856	ppb	1.0211	0.2	51591.3
Mo 202.032	97.2965	ppb	0.8150	0.8	331.703
Na 330.237	10250.2	ppb	116.386	1.1	611.927
Ni 231.604	108.163	ppb	1.6408	1.5	291.622
Pb 220.353	45.1805	ppb	7.5919	16.8	36.0854
Sb 206.834	45.9209	ppb	3.4093	7.4	30.7117
Se 196.026	106.374	ppb	10.1109	9.5	28.4291
Sn 189.925	207.272	ppb	4.4025	2.1	111.470
Sr 216.596	141.441	ppb	0.3735	0.3	777.289
Ti 334.941	100.743	ppb	0.0918	0.1	20395.4
Tl 190.794	39.5199	ppb	2.2347	5.7	15.1159
V 292.401	99.9557	ppb	0.2255	0.2	2709.25
Zn 206.200	110.958	ppb	1.0924	1.0	304.571

680-89623-d-2-c (Samp)

5/1/2013, 12:03:26 PM

Rack 4, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7871	ppb	0.0389	4.9	-6.5909
Al 308.215	-10.2317	ppb	2.3185	22.7	152.747
As 188.980	1.9545	ppb	4.6092	235.8	-0.9100
B 249.678	7.1997	ppb	0.1406	2.0	104.226
Ba 389.178	32.6292	ppb	0.7938	2.4	492.750
Be 313.042	0.0234	ppb	0.0139	59.3	-50.6227
Ca 370.602	8016	ppb	25.38	0.3	27603
Cd 226.502	0.0335	ppb	0.0499	148.9	12.7468
Co 228.615	0.2960	ppb	0.8526	288.0	-1.6834
Cr 267.716	0.2030	ppb	0.4433	218.3	12.8378
Cu 324.754	1.6233	ppb	0.2684	16.5	122.504
Fe 271.441	33.2348	ppb	16.4032	49.4	27.3291
K 766.491	603.327	ppb	1.2959	0.2	70506.1
Mg 279.078	1892.10	ppb	3.9566	0.2	2237.30
Mn 257.610	36.5381	ppb	0.0210	0.1	3219.13
Mo 202.032	0.4943	ppb	0.3650	73.9	4.0649
Na 330.237	5088.20	ppb	127.465	2.5	309.440
Ni 231.604	0.3908	ppb	1.1703	299.4	1.3187
Pb 220.353	-2.8276	ppb	2.4248	85.8	-0.1459
Sb 206.834	3.7025	ppb	1.5238	41.2	4.7840
Se 196.026	9.8832	ppb	4.2761	43.3	4.6485
Sn 189.925	-3.5457	ppb	3.6360	102.5	-2.1642
Sr 216.596	39.0655	ppb	1.0692	2.7	211.820
Ti 334.941	0.6131	ppb	0.0283	4.6	85.3634



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	1.9344	ppb	1.9975	103.3	-0.7178
V 292.401	0.5047	ppb	0.0881	17.5	19.3131
Zn 206.200	10.5211	ppb	0.7670	7.3	34.2597

**680-89623-d-3-c (Samp)**      **5/1/2013, 12:08:57 PM**      **Rack 4, Tube 47**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3857	ppb	0.7622	197.6	-18.6286
Al 308.215	-43.3888	ppb	1.5190	3.5	53.3192
As 188.980	-2.5612	ppb	13.0570	509.8	-2.1536
B 249.678	-0.6780	ppb	0.2616	38.6	40.3499
Ba 389.178	-0.0706	ppb	0.8388	1187.7	-21.9488
Be 313.042	-0.0052	ppb	0.0080	154.3	-93.0417
Ca 370.602	-46.93	ppb	0.4562	1.0	-71.49
Cd 226.502	0.0725	ppb	0.2979	410.6	13.4390
Co 228.615	-0.5745	ppb	0.4963	86.4	-7.9524
Cr 267.716	-0.1956	ppb	0.1235	63.1	7.0105
Cu 324.754	-0.1046	ppb	0.2341	223.8	82.4487
Fe 271.441	-3.6233	ppb	7.8588	216.9	1.8233
K 766.491	1.0385	ppb	0.2666	25.7	2166.43
Mg 279.078	-46.8703	ppb	5.6957	12.2	18.8238
Mn 257.610	0.0306	ppb	0.0772	251.8	12.5117
Mo 202.032	-0.5218	ppb	0.3223	61.8	0.6232
Na 330.237	-58.8867	ppb	76.2017	129.4	5.2239
Ni 231.604	1.2103	ppb	0.5700	47.1	3.4521
Pb 220.353	-0.1206	ppb	0.6232	516.6	1.9455
Sb 206.834	-3.0234	ppb	1.0554	34.9	0.6699
Se 196.026	-3.6675	ppb	3.8582	105.2	1.2898
Sn 189.925	0.8245	ppb	2.0384	247.2	0.2166
Sr 216.596	-0.5475	ppb	0.6531	119.3	-8.4579
Ti 334.941	-0.0303	ppb	0.0040	13.1	-53.1982
Tl 190.794	1.2205	ppb	3.8402	314.6	-0.9511
V 292.401	-0.0044	ppb	0.2125	4857.2	5.7020
Zn 206.200	0.8701	ppb	0.6715	77.2	8.2175

**680-89623-d-4-c (Samp)**      **5/1/2013, 12:14:27 PM**      **Rack 4, Tube 48**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2692	ppb	0.4031	149.7	-37.9015
Al 308.215	-43.1543	ppb	0.9134	2.1	53.8948
As 188.980	-1.1957	ppb	6.8363	571.8	-1.7485
B 249.678	3.6527	ppb	0.6800	18.6	72.8559
Ba 389.178	3.3231	ppb	0.1492	4.5	42.8441
Be 313.042	0.0757	ppb	0.0009	1.2	21.6957
Ca 370.602	903.4	ppb	14.70	1.6	2982
Cd 226.502	0.2729	ppb	0.2692	98.6	20.1524
Co 228.615	5.9576	ppb	0.5284	8.9	39.0010
Cr 267.716	0.3529	ppb	0.1809	51.3	14.4708
Cu 324.754	-0.1920	ppb	0.2478	129.1	77.8772
Fe 271.441	1280.90	ppb	10.6806	0.8	889.779
K 766.491	946.643	ppb	13.8141	1.5	109472

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	5662.60	ppb	77.0131	1.4	6547.19
Mn 257.610	104.789	ppb	1.4702	1.4	9215.33
Mo 202.032	0.4732	ppb	0.3425	72.4	3.8351
Na 330.237	3230.28	ppb	69.2403	2.1	199.144
Ni 231.604	14.0236	ppb	1.2705	9.1	38.1866
Pb 220.353	-0.3963	ppb	1.8775	473.8	1.7243
Sb 206.834	1.9434	ppb	3.7570	193.3	3.6974
Se 196.026	7.1400	ppb	3.9267	55.0	3.9877
Sn 189.925	-2.9624	ppb	1.6295	55.0	-1.8268
Sr 216.596	15.6373	ppb	0.2300	1.5	81.5467
Ti 334.941	-0.0397	ppb	0.0501	126.4	-54.0229
Tl 190.794	-3.8224	ppb	4.6774	122.4	-3.1423
V 292.401	0.1370	ppb	0.1420	103.6	9.5209
Zn 206.200	39.9573	ppb	0.6441	1.6	113.655

## Cont Calib Verif (CCV)

5/1/2013, 12:19:57 PM

Rack 4, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	508.860	ppb	2.6819	0.5	15074.8	101.77193
Al 308.215	4848.67	ppb	3.2106	0.1	14992.7	96.97343
As 188.980	528.336	ppb	7.6779	1.5	164.865	105.66726
B 249.678	518.743	ppb	1.0370	0.2	4251.63	20.74974Q
Ba 389.178	5239.49	ppb	12.4795	0.2	81920.8	104.78989
Be 313.042	530.597	ppb	1.1160	0.2	757126	106.11946
Ca 370.602	5301	ppb	9.781	0.2	17701	106.02637
Cd 226.502	533.867	ppb	1.4667	0.3	10573.1	106.77336
Co 228.615	533.474	ppb	0.1692	0.0	3832.32	106.69472
Cr 267.716	5480.41	ppb	17.0850	0.3	79482.0	109.60823
Cu 324.754	5162.71	ppb	13.5107	0.3	183642	103.25429
Fe 271.441	5036.36	ppb	10.7283	0.2	3542.18	100.72716
K 766.491	9942.79	ppb	11.9805	0.1	1129107	99.42788
Mg 279.078	4936.53	ppb	3.7032	0.1	5693.71	98.73057
Mn 257.610	5557.31	ppb	11.5551	0.2	487448	111.14613Q
Mo 202.032	493.165	ppb	1.2112	0.2	1665.62	98.63304
Na 330.237	7566.56	ppb	117.357	1.6	454.523	100.88752
Ni 231.604	2663.96	ppb	5.0132	0.2	7168.32	106.55845
Pb 220.353	505.791	ppb	4.7876	0.9	386.257	101.15813
Sb 206.834	1004.01	ppb	7.0932	0.7	638.432	40.16024Q
Se 196.026	4909.24	ppb	15.0148	0.3	1205.85	98.18477
Sn 189.925	5315.80	ppb	36.3831	0.7	2865.00	106.31607
Sr 216.596	2578.93	ppb	3.8928	0.2	14213.1	103.15733
Ti 334.941	505.512	ppb	1.1415	0.2	102749	101.10246
Tl 190.794	5087.94	ppb	9.6421	0.2	2166.51	101.75889
V 292.401	5010.04	ppb	3.9298	0.1	136503	100.20080
Zn 206.200	2749.98	ppb	2.0713	0.1	7392.15	109.99915

## Cont Calib Blank (CCB)

5/1/2013, 12:25:28 PM

Rack 4, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4059	ppb	0.6344	156.3	-18.0284	0.40588
Al 308.215	-44.3043	ppb	2.3304	5.3	50.6017	-44.30434

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	3.8491	ppb	5.2450	136.3	-0.1443	3.84912
B 249.678	1.6680	ppb	0.3821	22.9	59.3912	1.66796
Ba 389.178	-0.3043	ppb	0.7340	241.2	-25.5990	-0.30430
Be 313.042	0.0131	ppb	0.0043	33.0	-67.0674	0.01309
Ca 370.602	-47.06	ppb	1.821	3.9	-71.41	-47.06144
Cd 226.502	-0.0781	ppb	0.3384	433.2	10.4548	-0.07812
Co 228.615	-0.8566	ppb	0.2070	24.2	-9.9909	-0.85658
Cr 267.716	0.2305	ppb	0.1151	49.9	13.1934	0.23052
Cu 324.754	-0.2679	ppb	0.2921	109.0	76.6357	-0.26789
Fe 271.441	-7.6031	ppb	6.1005	80.2	-0.9304	-7.60308
K 766.491	1.0568	ppb	0.2867	27.1	2168.56	1.05676
Mg 279.078	-45.7113	ppb	2.0117	4.4	20.1610	-45.71134
Mn 257.610	0.1265	ppb	0.0900	71.1	20.9174	0.12650
Mo 202.032	0.9056	ppb	0.9974	110.1	5.4655	0.90562
Na 330.237	2.5890	ppb	85.6848	3309.6	8.8582	2.58897
Ni 231.604	0.1717	ppb	1.4816	863.0	0.6558	0.17168
Pb 220.353	-3.0215	ppb	6.0041	198.7	-0.2912	-3.02151
Sb 206.834	1.8950	ppb	5.2174	275.3	3.6273	1.89498
Se 196.026	9.9384	ppb	5.4768	55.1	4.6230	9.93843
Sn 189.925	-2.1168	ppb	1.6729	79.0	-1.3688	-2.11683
Sr 216.596	0.3448	ppb	0.9581	277.9	-3.4845	0.34480
Ti 334.941	0.0026	ppb	0.0630	2399.0	-46.5018	0.00262
Tl 190.794	-1.1015	ppb	5.4318	493.1	-1.9388	-1.10153
V 292.401	0.1235	ppb	0.1073	86.9	8.9863	0.12352
Zn 206.200	0.7084	ppb	0.6002	84.7	7.7806	0.70835

680-89623-d-5-c (Samp)

5/1/2013, 12:30:59 PM

Rack 4, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2822	ppb	0.4202	148.9	-36.8591
Al 308.215	-42.8956	ppb	1.5405	3.6	54.6126
As 188.980	1.5710	ppb	5.7399	365.4	-0.9602
B 249.678	3.0323	ppb	0.5229	17.2	66.8581
Ba 389.178	10.0237	ppb	0.2060	2.1	141.609
Be 313.042	0.0266	ppb	0.0014	5.1	-47.4145
Ca 370.602	4671	ppb	12.01	0.3	15862
Cd 226.502	0.0041	ppb	0.1580	3889.8	15.6265
Co 228.615	-0.6219	ppb	0.3748	60.3	-8.2626
Cr 267.716	-0.0797	ppb	0.0573	71.9	8.4270
Cu 324.754	0.2320	ppb	0.2302	99.2	82.7030
Fe 271.441	1671.21	ppb	5.5026	0.3	1159.23
K 766.491	747.651	ppb	0.5196	0.1	86889.2
Mg 279.078	2146.57	ppb	1.4606	0.1	2522.01
Mn 257.610	464.248	ppb	1.4768	0.3	40734.6
Mo 202.032	-0.6111	ppb	1.4333	234.5	0.1074
Na 330.237	8980.06	ppb	77.3354	0.9	538.769
Ni 231.604	1.2989	ppb	0.9467	72.9	3.8605
Pb 220.353	-1.8374	ppb	3.3354	181.5	0.6132
Sb 206.834	-0.6115	ppb	0.3379	55.3	2.1987
Se 196.026	-4.8040	ppb	0.8970	18.7	1.1117
Sn 189.925	0.6682	ppb	1.7825	266.8	0.1190
Sr 216.596	62.4818	ppb	0.6629	1.1	342.383
Ti 334.941	-0.0383	ppb	0.0583	152.3	50.2732

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-1.3610	ppb	3.1044	228.1	-2.1526
V 292.401	0.2268	ppb	0.1769	78.0	11.4313
Zn 206.200	3.5364	ppb	0.4199	11.9	15.4979

680-89654-a-1-eSD^5 (Samp) 5/1/2013, 12:36:29 PM Rack 4, Tube 52

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0564	ppb	0.8118	1439.9	-28.3736
Al 308.215	-39.3287	ppb	3.0297	7.7	65.4927
As 188.980	-6.8209	ppb	4.5369	66.5	-3.4970
B 249.678	10.4993	ppb	0.7552	7.2	131.108
Ba 389.178	7.2314	ppb	0.3083	4.3	92.2705
Be 313.042	0.0133	ppb	0.0100	74.9	-68.4874
Ca 370.602	351.8	ppb	3.803	1.1	1299
Cd 226.502	-0.1298	ppb	0.2374	182.9	9.3517
Co 228.615	-0.5844	ppb	0.2089	35.8	-8.0172
Cr 267.716	0.1601	ppb	0.1877	117.3	12.3007
Cu 324.754	-0.0634	ppb	0.0547	86.3	82.8427
Fe 271.441	-14.9080	ppb	9.6576	64.8	-5.9734
K 766.491	44.2758	ppb	0.8286	1.9	7071.26
Mg 279.078	-0.1349	ppb	1.5903	1178.5	72.3266
Mn 257.610	7.3763	ppb	0.0490	0.7	656.843
Mo 202.032	-0.6143	ppb	0.6316	102.8	0.3104
Na 330.237	24236.4	ppb	27.4953	0.1	1441.22
Ni 231.604	0.8517	ppb	0.4237	49.8	2.4871
Pb 220.353	-1.5826	ppb	1.9051	120.4	0.8186
Sb 206.834	3.4232	ppb	4.4461	129.9	4.5510
Se 196.026	-2.5871	ppb	10.4611	404.4	1.5571
Sn 189.925	-2.9891	ppb	2.1756	72.8	-1.8352
Sr 216.596	0.6382	ppb	0.3104	48.6	-1.8494
Ti 334.941	-0.0844	ppb	0.0597	70.7	-64.9748
Tl 190.794	-0.5204	ppb	4.5444	873.2	-1.6939
V 292.401	0.1156	ppb	0.1430	123.7	8.8235
Zn 206.200	1.2072	ppb	0.5198	43.1	9.1259

680-89654-a-1-ePDS (Samp) 5/1/2013, 12:41:59 PM Rack 4, Tube 53

Weight: 1		Volume: 1		Dilution: 1	
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.7752b	ppb	0.5212	1.0	1476.66
Al 308.215	1971.01b	ppb	2.2517	0.1	6129.75
As 188.980	2036.49b	ppb	19.4704	1.0	636.761
B 249.678	1067.55b	ppb	1.7444	0.2	8715.43
Ba 389.178	2160.19b	ppb	1.9580	0.1	33760.8
Be 313.042	54.1361b	ppb	0.0615	0.1	77114.3
Ca 370.602	7300b	ppb	6.013	0.1	25100
Cd 226.502	54.4178b	ppb	0.2878	0.5	1089.39
Co 228.615	541.161b	ppb	1.1505	0.2	3890.81
Cr 267.716	220.312b	ppb	0.6070	0.3	3204.26
Cu 324.754	260.128b	ppb	0.3050	0.1	9312.19
Fe 271.441	1004.93b	ppb	13.2313	1.3	725.789
K 766.491	6021.80b	ppb	4.5441	0.1	684886

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	5255.47b	ppb	12.4745	0.2	6081.34
Mn 257.610	592.012b	ppb	0.4659	0.1	51956.7
Mo 202.032	510.517b	ppb	0.7560	0.1	1733.23
Na 330.237	131670xb	ppb	356.415	0.3	7784.92
Ni 231.604	536.073b	ppb	2.0360	0.4	1443.03
Pb 220.353	514.171b	ppb	1.7853	0.3	397.058
Sb 206.834	497.090b	ppb	1.7108	0.3	298.369
Se 196.026	2048.93b	ppb	22.9738	1.1	504.294
Sn 189.925	1082.78b	ppb	0.5616	0.1	583.597
Sr 216.596	541.237b	ppb	1.8188	0.3	2973.45
Ti 334.941	1021.27b	ppb	0.8899	0.1	207000
Tl 190.794	2084.10b	ppb	11.3945	0.5	885.690
V 292.401	503.034b	ppb	0.7171	0.1	13628.2
Zn 206.200	553.434b	ppb	1.1548	0.2	1495.37

680-89654-a-1-f ms (Samp)

5/1/2013, 12:47:30 PM

Rack 4, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.4073b	ppb	2.0504	8.8	666.611
Al 308.215	768.376b	ppb	60.7543	7.9	2491.68
As 188.980	79.0137b	ppb	5.4831	6.9	23.2168
B 249.678	197.094b	ppb	13.2151	6.7	1629.65
Ba 389.178	109.239b	ppb	8.8737	8.1	1710.20
Be 313.042	83.6103b	ppb	5.9447	7.1	118833
Ca 370.602	9651b	ppb	624.7	6.5	31953
Cd 226.502	84.1926b	ppb	6.3990	7.6	1692.31
Co 228.615	81.8131b	ppb	5.9356	7.3	583.959
Cr 267.716	85.6959b	ppb	6.5645	7.7	1250.10
Cu 324.754	82.4108b	ppb	5.7010	6.9	2995.22
Fe 271.441	7886.81b	ppb	594.661	7.5	5458.58
K 766.491	8551.27b	ppb	463.463	5.4	972416
Mg 279.078	7758.11b	ppb	554.259	7.1	8920.52
Mn 257.610	899.153b	ppb	62.7634	7.0	78899.2
Mo 202.032	78.9789b	ppb	5.1830	6.6	269.183
Na 330.237	106494xb	ppb	6599.24	6.2	6299.35
Ni 231.604	82.7048b	ppb	7.1080	8.6	223.310
Pb 220.353	77.8341b	ppb	4.9315	6.3	61.7005
Sb 206.834	71.8249b	ppb	0.8369	1.2	46.5765
Se 196.026	79.0887b	ppb	11.1270	14.1	21.7758
Sn 189.925	77.4319b	ppb	5.6241	7.3	41.5153
Sr 216.596	84.1327b	ppb	6.1073	7.3	461.324
Ti 334.941	78.9858b	ppb	5.7041	7.2	15974.9
Tl 190.794	17.2182b	ppb	4.8211	28.0	5.6250
V 292.401	78.8478b	ppb	5.6316	7.1	2137.15
Zn 206.200	87.5379b	ppb	4.8611	5.6	241.683

680-89654-a-1-g msd (Samp)

5/1/2013, 12:53:00 PM

Rack 4, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	40.0038b	ppb	1.5364	3.8	1159.27
Al 308.215	764.182b	ppb	28.9072	3.8	2479.06

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	77.9533b	ppb	8.1999	10.5	22.8834
B 249.678	197.798b	ppb	6.1547	3.1	1635.44
Ba 389.178	109.808b	ppb	2.9422	2.7	1719.01
Be 313.042	83.3757b	ppb	2.7817	3.3	118499
Ca 370.602	9685b	ppb	298.0	3.1	32075
Cd 226.502	84.1697b	ppb	3.0387	3.6	1691.78
Co 228.615	82.2272b	ppb	3.1507	3.8	586.952
Cr 267.716	85.3478b	ppb	2.5124	2.9	1245.08
Cu 324.754	81.8737b	ppb	3.1755	3.9	2976.01
Fe 271.441	7858.60b	ppb	266.379	3.4	5439.10
K 766.491	8534.42b	ppb	231.654	2.7	970505
Mg 279.078	7724.18b	ppb	263.934	3.4	8881.79
Mn 257.610	897.535b	ppb	29.9132	3.3	78757.2
Mo 202.032	75.9638b	ppb	1.9270	2.5	258.959
Na 330.237	110821xb	ppb	3310.49	3.0	6555.12
Ni 231.604	83.0344b	ppb	3.2555	3.9	224.190
Pb 220.353	77.5163b	ppb	2.0626	2.7	61.4579
Sb 206.834	70.5357b	ppb	0.8108	1.1	45.7963
Se 196.026	86.9807b	ppb	1.9365	2.2	23.7089
Sn 189.925	80.5079b	ppb	6.3351	7.9	43.1739
Sr 216.596	83.7010b	ppb	1.6150	1.9	458.932
Ti 334.941	78.6057b	ppb	2.7373	3.5	15897.7
Tl 190.794	12.4037b	ppb	3.7332	30.1	3.5807
V 292.401	78.5391b	ppb	2.4515	3.1	2129.06
Zn 206.200	86.9398b	ppb	3.0268	3.5	240.073

640-43280-a-12-b (Samp)

5/1/2013, 12:58:30 PM

Rack 4, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3057	ppb	0.1811	59.2	-25.4612
Al 308.215	-19.7241	ppb	2.2547	11.4	120.855
As 188.980	-5.1544	ppb	5.2902	102.6	-3.0012
B 249.678	77.9077	ppb	0.3743	0.5	613.963
Ba 389.178	2.3022	ppb	0.3860	16.8	47.8777
Be 313.042	0.0127	ppb	0.0036	28.1	-68.8913
Ca 370.602	469.1	ppb	7.453	1.6	-3211
Cd 226.502	27.4577	ppb	0.1562	0.6	617.821
Co 228.615	1.8345	ppb	0.3663	20.0	9.7505
Cr 267.716	18.3886	ppb	0.0275	0.1	262.352
Cu 324.754	33.8623	ppb	0.7641	2.3	1303.03
Fe 271.441	29842.2	ppb	96.5917	0.3	20627.0
K 766.491	130.909	ppb	0.5954	0.5	16902.9
Mg 279.078	84.0424	ppb	4.5111	5.4	63.9314
Mn 257.610	211.456	ppb	0.4243	0.2	18587.0
Mo 202.032	-0.2915	ppb	1.3715	470.4	-2.3814
Na 330.237	13666.0	ppb	62.4257	0.5	803.830
Ni 231.604	76.5523	ppb	0.7019	0.9	207.760
Pb 220.353	-0.6314	ppb	3.4932	553.3	1.3775
Sb 206.834	4.0642	ppb	2.3587	58.0	5.7687
Se 196.026	-3.5228	ppb	7.6382	216.8	1.3225
Sn 189.925	10.9800	ppb	2.4938	22.7	5.6961
Sr 216.596	1.3135	ppb	0.1783	13.6	12.1232
Ti 334.941	0.0225	ppb	0.0598	266.0	40.8143

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	5.3989	ppb	4.7581	88.1	-0.3114
V 292.401	0.0639	ppb	0.0291	45.6	11.7350
Zn 206.200	32.2008	ppb	0.3574	1.1	93.1484

**640-43280-a-13-b (Samp)**      **5/1/2013, 1:04:00 PM**      **Rack 4, Tube 57**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5171b	ppb	0.2760	53.4	-45.4302
Al 308.215	-35.6380b	ppb	2.4547	6.9	76.5829
As 188.980	-3.2380b	ppb	5.5862	172.5	-2.3779
B 249.678	67.2223b	ppb	0.6126	0.9	591.486
Ba 389.178	-0.0483b	ppb	0.5344	1107.3	-21.3438
Be 313.042	0.0113b	ppb	0.0073	64.5	-80.3627
Ca 370.602	498.3b	ppb	5.903	1.2	1797
Cd 226.502	3.4647b	ppb	0.1823	5.3	80.1511
Co 228.615	-0.7965b	ppb	0.6032	75.7	-9.5745
Cr 267.716	0.4534b	ppb	0.4729	104.3	17.0720
Cu 324.754	0.4152b	ppb	0.1682	40.5	99.5444
Fe 271.441	14.7869b	ppb	3.8348	25.9	14.5533
K 766.491	714.562b	ppb	1.2024	0.2	83136.7
Mg 279.078	82.8884b	ppb	1.2737	1.5	167.231
Mn 257.610	0.5956b	ppb	0.0615	10.3	62.1245
Mo 202.032	0.6428b	ppb	0.5635	87.7	4.5715
Na 330.237	135956xb	ppb	1322.31	1.0	8044.48
Ni 231.604	6.6375b	ppb	0.2473	3.7	18.0502
Pb 220.353	-1.9476b	ppb	1.8780	96.4	0.5342
Sb 206.834	31.8061b	ppb	6.8440	21.5	21.5724
Se 196.026	-2.6610b	ppb	10.8862	409.1	1.5386
Sn 189.925	13.0155b	ppb	3.2577	25.0	6.8139
Sr 216.596	1.3547b	ppb	0.3275	24.2	1.9269
Ti 334.941	-0.0183b	ppb	0.0602	328.4	-57.1031
Tl 190.794	0.3342b	ppb	5.0926	1524.0	-1.3344
V 292.401	0.0719b	ppb	0.1389	193.3	6.4812
Zn 206.200	7.3163b	ppb	0.6713	9.2	25.5750

**640-43280-a-14-b (Samp)**      **5/1/2013, 1:09:31 PM**      **Rack 4, Tube 58**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0020b	ppb	0.3732	18631.6	-42.0646
Al 308.215	-40.3500b	ppb	3.2691	8.1	53.4189
As 188.980	1.5725b	ppb	4.8475	308.3	-0.9227
B 249.678	74.5394b	ppb	0.8416	1.1	482.430
Ba 389.178	3.4869b	ppb	0.1085	3.1	118.890
Be 313.042	0.0139b	ppb	0.0072	51.3	-77.3717
Ca 370.602	167.1b	ppb	4.076	2.4	-12205
Cd 226.502	41.6262b	ppb	0.5671	1.4	999.911
Co 228.615	3.4418b	ppb	0.7042	20.5	21.9833
Cr 267.716	-0.9755b	ppb	0.1299	13.3	-41.1942
Cu 324.754	4.3611b	ppb	0.1607	3.7	276.275
Fe 271.441	78180.6b	ppb	78.0427	0.1	54031.5
K 766.491	159.375b	ppb	0.3069	0.2	20132.0

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	60.2510b	ppb	4.0803	6.8	-132.641
Mn 257.610	429.778b	ppb	0.4080	0.1	37784.9
Mo 202.032	-0.2366b	ppb	1.1541	487.7	-8.3275
Na 330.237	141104xb	ppb	1145.27	0.8	8315.59
Ni 231.604	123.463b	ppb	0.4597	0.4	336.613
Pb 220.353	-8.4075b	ppb	3.8853	46.2	-4.8501
Sb 206.834	2.3194b	ppb	5.7041	245.9	5.7136
Se 196.026	2.3209b	ppb	7.6606	330.1	2.7244
Sn 189.925	2.8128b	ppb	1.8577	66.0	1.3292
Sr 216.596	0.9828b	ppb	0.4169	42.4	29.4856
Ti 334.941	-0.0491b	ppb	0.0741	150.9	-61.5978
Tl 190.794	3.8941b	ppb	8.0266	206.1	-2.7828
V 292.401	0.1861b	ppb	0.1286	69.1	24.5232
Zn 206.200	17.1776b	ppb	0.2916	1.7	53.7870

Cont Calib Verif (CCV)

5/1/2013, 1:15:01 PM

Rack 4, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1297	ppb	0.8104	624.7	-34.7689	-0.02594Q
Al 308.215	-33.8773	ppb	2.0293	6.0	81.1121	-0.67755Q
As 188.980	1.4214	ppb	4.4290	311.6	-0.9180	0.28428Q
B 249.678	54.6812	ppb	0.7128	1.3	476.032	2.18725Q
Ba 389.178	1.4807	ppb	0.3451	23.3	9.3843	0.02961Q
Be 313.042	-0.0015	ppb	0.0044	286.2	-88.1687	-0.00031Q
Ca 370.602	385.6	ppb	3.420	0.9	369.1	7.71237Q
Cd 226.502	4.0903	ppb	0.0944	2.3	106.284	0.81806Q
Co 228.615	-0.7365	ppb	0.2988	40.6	-9.0365	-0.14729Q
Cr 267.716	2.7173	ppb	0.1402	5.2	46.2692	0.05435Q
Cu 324.754	3.5305	ppb	0.3714	10.5	213.448	0.07061Q
Fe 271.441	6346.64	ppb	13.8347	0.2	4390.19	126.93275Q
K 766.491	83.1245	ppb	0.4986	0.6	11481.0	0.83125Q
Mg 279.078	49.2701	ppb	1.7737	3.6	106.515	0.98540Q
Mn 257.610	69.5385	ppb	0.1840	0.3	6115.61	1.39077Q
Mo 202.032	-0.1273	ppb	0.3454	271.4	1.1561	-0.02545Q
Na 330.237	3860.79	ppb	106.312	2.8	234.211	51.47726Q
Ni 231.604	4.9371	ppb	0.3055	6.2	13.8284	0.19748Q
Pb 220.353	-2.2618	ppb	1.7298	76.5	0.2586	-0.45235Q
Sb 206.834	-0.1693	ppb	2.7281	1611.4	2.5544	-0.00677Q
Se 196.026	3.9722	ppb	5.7583	145.0	3.1662	0.07944Q
Sn 189.925	2.2880	ppb	0.8430	36.8	1.0058	0.04576Q
Sr 216.596	-0.1878	ppb	0.3365	179.2	-3.8570	-0.00751Q
Ti 334.941	-0.0443	ppb	0.0339	76.5	-55.4483	-0.00886Q
Tl 190.794	-1.0300	ppb	2.3818	231.2	-2.1537	-0.02060Q
V 292.401	-0.0268	ppb	0.1194	446.2	5.9026	-0.00054Q
Zn 206.200	4.5795	ppb	0.2252	4.9	18.3330	0.18318Q

Cont Calib Blank (CCB)

5/1/2013, 1:20:31 PM

Rack 4, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3284	ppb	0.2561	78.0	-40.6966	-0.32845
Al 308.215	-25.4225	ppb	2.5549	10.0	106.392	-25.42247



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	0.8341	ppb	1.3057	156.5	-1.1178	0.83409
B 249.678	63.2180	ppb	1.3861	2.2	544.568	63.21803Z
Ba 389.178	4.9707	ppb	0.5192	10.4	64.4142	4.97072
Be 313.042	0.0033	ppb	0.0061	186.2	-82.2701	0.00330
Ca 370.602	908.5	ppb	6.048	0.7	2105	908.49976Z
Cd 226.502	30.6262	ppb	0.3930	1.3	631.397	30.62617Z
Co 228.615	-0.2302	ppb	0.1496	65.0	-5.4198	-0.23016
Cr 267.716	5.6519	ppb	0.2349	4.2	88.6899	5.65189Z
Cu 324.754	6.8724	ppb	0.2213	3.2	331.294	6.87235
Fe 271.441	6705.69	ppb	49.0240	0.7	4638.336705.69287Z	
K 766.491	108.407	ppb	1.1344	1.0	14349.2	108.40652
Mg 279.078	92.1615	ppb	2.9315	3.2	154.315	92.16146
Mn 257.610	81.9079	ppb	0.5981	0.7	7200.95	81.90790Z
Mo 202.032	0.1407	ppb	0.8737	621.1	2.0200	0.14066
Na 330.237	16017.8	ppb	190.366	1.2	952.6266017.83984Z	
Ni 231.604	36.0783	ppb	0.7921	2.2	97.6131	36.07829Z
Pb 220.353	0.7465	ppb	2.8725	384.8	2.5718	0.74652
Sb 206.834	2.4178	ppb	1.4125	58.4	4.1486	2.41782
Se 196.026	1.8898	ppb	2.0603	109.0	2.6593	1.88981
Sn 189.925	1.7667	ppb	3.1521	178.4	0.7257	1.76672
Sr 216.596	1.2518	ppb	0.7830	62.5	3.2655	1.25182
Ti 334.941	-0.0349	ppb	0.0174	49.7	-53.4604	-0.03492
Tl 190.794	2.3249	ppb	2.3090	99.3	-0.7451	2.32486
V 292.401	-0.3198	ppb	0.2278	71.2	-2.2315	-0.31984
Zn 206.200	17.7710	ppb	0.2275	1.3	53.8484	17.77101Z

## Cont Calib Verif (CCV)

5/1/2013, 1:25:59 PM

Rack 1, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.458	ppb	2.6974	0.5	14795.7	99.89169
Al 308.215	4765.79	ppb	7.6375	0.2	14739.2	95.31585
As 188.980	507.921	ppb	9.6610	1.9	158.454	101.58411
B 249.678	508.500	ppb	0.9110	0.2	4168.62	20.34000Q
Ba 389.178	5139.21	ppb	10.7412	0.2	80352.6	102.78419
Be 313.042	520.955	ppb	2.0031	0.4	743364	104.19108
Ca 370.602	5209	ppb	9.950	0.2	17395	104.17780
Cd 226.502	525.080	ppb	0.8764	0.2	10399.2	105.01607
Co 228.615	524.346	ppb	1.3540	0.3	3766.65	104.86928
Cr 267.716	5386.51	ppb	8.3997	0.2	78120.4	107.73020
Cu 324.754	5061.02	ppb	16.7821	0.3	180026	101.22033
Fe 271.441	4939.53	ppb	7.4510	0.2	3474.28	98.79057
K 766.491	9788.18	ppb	18.5727	0.2	1111585	97.88177
Mg 279.078	4880.60	ppb	2.4648	0.1	5630.22	97.61195
Mn 257.610	5457.44	ppb	7.0282	0.1	478688	109.14880
Mo 202.032	483.898	ppb	0.0206	0.0	1634.36	96.77956
Na 330.237	7533.49	ppb	144.220	1.9	452.637	100.44649
Ni 231.604	2629.89	ppb	4.2447	0.2	7076.61	105.19546
Pb 220.353	502.521	ppb	1.3495	0.3	383.831	100.50425
Sb 206.834	989.427	ppb	6.0700	0.6	629.057	39.57706Q
Se 196.026	4847.53	ppb	11.6151	0.2	1190.71	96.95058
Sn 189.925	5230.13	ppb	7.4491	0.1	2818.82	104.60264
Sr 216.596	2540.46	ppb	3.5004	0.1	14000.8	101.61827
Ti 334.941	495.686	ppb	0.7011	0.1	100751	99.13725

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Tl 190.794	4984.23	ppb	7.8544	0.2	2122.33	99.68450
V 292.401	4916.88	ppb	6.4412	0.1	133964	98.33760
Zn 206.200	2723.67	ppb	7.1193	0.3	7321.62	108.94678

Cont Calib Blank (CCB)

5/1/2013, 1:31:25 PM

Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.8989	ppb	0.1500	16.7	-3.3931	0.89886
Al 308.215	-43.0221	ppb	1.6546	3.8	54.4614	-43.02215
As 188.980	1.9313	ppb	2.4104	124.8	-0.7453	1.93133
B 249.678	1.4927	ppb	0.4520	30.3	57.9855	1.49269
Ba 389.178	-0.2751	ppb	1.2995	472.4	-25.1490	-0.27511
Be 313.042	0.0276	ppb	0.0097	35.3	-46.3248	0.02757
Ca 370.602	-50.14	ppb	3.680	7.3	-80.65	-50.13647
Cd 226.502	0.0013	ppb	0.1486	11248.6	12.0080	0.00132
Co 228.615	-0.8374	ppb	0.6266	74.8	-9.8541	-0.83738
Cr 267.716	0.1585	ppb	0.1071	67.6	12.1501	0.15849
Cu 324.754	-0.0669	ppb	0.0671	100.3	83.7889	-0.06688
Fe 271.441	-15.5601	ppb	9.4171	60.5	-6.4263	-15.56008
K 766.491	1.2833	ppb	0.3197	24.9	2194.25	1.28333
Mg 279.078	-43.7404	ppb	0.7667	1.8	22.4439	-43.74042
Mn 257.610	0.2379	ppb	0.1169	49.2	30.6824	0.23791
Mo 202.032	0.5855	ppb	0.8673	148.1	4.3800	0.58546
Na 330.237	-79.8290	ppb	167.841	210.3	3.9907	-79.82902
Ni 231.604	0.7566	ppb	1.7313	228.8	2.2302	0.75658
Pb 220.353	-0.3877	ppb	0.2874	74.1	1.7379	-0.38770
Sb 206.834	1.9169	ppb	0.3312	17.3	3.6395	1.91694
Se 196.026	0.5972	ppb	11.3285	1896.9	2.3346	0.59720
Sn 189.925	-0.8072	ppb	4.2872	531.2	-0.6629	-0.80715
Sr 216.596	0.1902	ppb	0.2396	126.0	-4.3640	0.19020
Ti 334.941	-0.0163	ppb	0.0454	278.6	-50.3263	-0.01629
Tl 190.794	3.5248	ppb	2.3919	67.9	0.0283	3.52479
V 292.401	0.4047	ppb	0.2590	64.0	16.6510	0.40467
Zn 206.200	0.9356	ppb	0.1477	15.8	8.3920	0.93564

lb 680-274304/13-c (Samp)

5/1/2013, 1:36:51 PM

Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1734b	ppb	0.3363	194.0	-24.9316
Al 308.215	-42.6542b	ppb	1.5612	3.7	55.5216
As 188.980	-0.5217b	ppb	9.7327	1865.7	-1.5247
B 249.678	58.7663b	ppb	0.8241	1.4	522.911
Ba 389.178	0.2447b	ppb	0.5844	238.8	-16.8416
Be 313.042	0.0110b	ppb	0.0148	135.5	-80.2906
Ca 370.602	434.0b	ppb	3.758	0.9	1581
Cd 226.502	-0.0683b	ppb	0.2284	334.2	10.2823
Co 228.615	-1.0134b	ppb	0.5377	53.1	-11.1040
Cr 267.716	0.0799b	ppb	0.2721	340.4	11.6501
Cu 324.754	0.2171b	ppb	0.4393	202.3	92.6081
Fe 271.441	-13.9479b	ppb	2.1329	15.3	-5.3239
K 766.491	105.154b	ppb	0.5828	0.6	13981.3

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	56.8637b	ppb	1.2152	2.1	137.558
Mn 257.610	0.1275b	ppb	0.0344	27.0	20.9990
Mo 202.032	-0.2832b	ppb	0.2311	81.6	1.4338
Na 330.237	131225xb	ppb	888.787	0.7	7764.82
Ni 231.604	1.3392b	ppb	1.0584	79.0	3.8002
Pb 220.353	-2.2114b	ppb	4.3010	194.5	0.3340
Sb 206.834	1.1694b	ppb	2.4754	211.7	3.1944
Se 196.026	11.1546b	ppb	9.6696	86.7	4.9229
Sn 189.925	-3.1506b	ppb	1.1420	36.2	-1.9003
Sr 216.596	0.3956b	ppb	0.1546	39.1	-3.2104
Ti 334.941	-0.0263b	ppb	0.0608	231.1	-58.5696
Tl 190.794	1.0166b	ppb	1.3464	132.4	-1.0418
V 292.401	0.0952b	ppb	0.1786	187.5	7.5145
Zn 206.200	3.5619b	ppb	0.2313	6.5	15.4670

680-89596-a-1-d (Samp) 5/1/2013, 1:42:17 PM Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3897b	ppb	0.3670	94.2	-40.0802
Al 308.215	-9.2726b	ppb	1.7951	19.4	155.597
As 188.980	3.5576b	ppb	5.0800	142.8	-0.3537
B 249.678	49.2117b	ppb	0.2377	0.5	445.706
Ba 389.178	154.077b	ppb	0.8557	0.6	2390.17
Be 313.042	0.0562b	ppb	0.0062	11.0	-14.4462
Ca 370.602	5457b	ppb	9.425	0.2	18835
Cd 226.502	-0.0088b	ppb	0.2620	2972.2	11.4881
Co 228.615	18.2235b	ppb	0.4642	2.5	127.212
Cr 267.716	0.5686b	ppb	0.2554	44.9	19.1363
Cu 324.754	0.8834b	ppb	0.3689	41.8	102.984
Fe 271.441	-10.5776b	ppb	4.8847	46.2	-2.1956
K 766.491	1452.16b	ppb	2.2084	0.2	166803
Mg 279.078	1387.35b	ppb	7.8804	0.6	1659.30
Mn 257.610	385.140b	ppb	0.5581	0.1	33792.5
Mo 202.032	-0.4580b	ppb	0.7100	155.0	0.8404
Na 330.237	127198xb	ppb	589.134	0.5	7526.84
Ni 231.604	3.7741b	ppb	1.0329	27.4	10.3848
Pb 220.353	0.0455b	ppb	1.6699	3672.7	2.0669
Sb 206.834	3.7170b	ppb	4.0495	108.9	4.7760
Se 196.026	6.9613b	ppb	9.6023	137.9	3.9811
Sn 189.925	-4.8734b	ppb	1.6508	33.9	-2.8461
Sr 216.596	27.2642b	ppb	1.1182	4.1	146.077
Ti 334.941	0.0484b	ppb	0.0390	80.5	-37.9678
Tl 190.794	-0.6119b	ppb	4.3744	714.8	-1.7494
V 292.401	0.3225b	ppb	0.1484	46.0	12.9643
Zn 206.200	4.9734b	ppb	0.4139	8.3	19.3061

680-89596-a-2-f (Samp) 5/1/2013, 1:47:43 PM Rack 1, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4008b	ppb	0.6660	166.2	-15.7651
Al 308.215	7.5435b	ppb	2.3472	31.1	205.995

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.0820b	ppb	13.4559	436.6	-0.6052
B 249.678	61.5745b	ppb	0.6981	1.1	546.080
Ba 389.178	210.130b	ppb	0.3014	0.1	3269.82
Be 313.042	0.0517b	ppb	0.0006	1.1	-20.1151
Ca 370.602	10231b	ppb	8.719	0.1	35226
Cd 226.502	0.1475b	ppb	0.3202	217.1	14.5958
Co 228.615	19.9410b	ppb	0.8085	4.1	139.580
Cr 267.716	0.7674b	ppb	0.5490	71.5	22.2602
Cu 324.754	0.8333b	ppb	0.2626	31.5	88.6216
Fe 271.441	-5.3891b	ppb	2.8673	53.2	1.4554
K 766.491	1521.77b	ppb	2.8642	0.2	174688
Mg 279.078	3310.99b	ppb	10.9845	0.3	3860.04
Mn 257.610	596.597b	ppb	0.6935	0.1	52343.3
Mo 202.032	0.3304b	ppb	1.0082	305.1	3.5149
Na 330.237	129775xb	ppb	1306.34	1.0	7679.12
Ni 231.604	8.7143b	ppb	0.4383	5.0	23.7433
Pb 220.353	1.1976b	ppb	3.5408	295.6	2.9523
Sb 206.834	1.5225b	ppb	3.8199	250.9	3.4987
Se 196.026	-1.8703b	ppb	10.9789	587.0	1.8766
Sn 189.925	-1.3669b	ppb	1.1188	81.9	-0.9713
Sr 216.596	70.8282b	ppb	0.4175	0.6	387.968
Ti 334.941	0.0344b	ppb	0.0406	117.9	-35.9124
Tl 190.794	1.5771b	ppb	3.3101	209.9	-0.8584
V 292.401	0.1520b	ppb	0.1057	69.6	7.8462
Zn 206.200	6.3335b	ppb	0.6668	10.5	23.0248

680-89596-a-2-g ms (Samp)

5/1/2013, 1:53:10 PM

Rack 1, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.6023b	ppb	0.1469	0.3	1624.09
Al 308.215	782.068b	ppb	4.8121	0.6	2532.62
As 188.980	78.2204b	ppb	11.0377	14.1	22.8221
B 249.678	203.242b	ppb	0.8353	0.4	1680.09
Ba 389.178	248.392b	ppb	1.0450	0.4	3889.71
Be 313.042	83.0583b	ppb	0.0914	0.1	118049
Ca 370.602	16427b	ppb	21.30	0.1	55240
Cd 226.502	83.5553b	ppb	0.5087	0.6	1679.51
Co 228.615	98.1469b	ppb	0.9247	0.9	701.432
Cr 267.716	85.4362b	ppb	0.4895	0.6	1246.88
Cu 324.754	82.2034b	ppb	0.1562	0.2	2969.91
Fe 271.441	7790.19b	ppb	5.2992	0.1	5392.47
K 766.491	9588.46b	ppb	1.7934	0.0	1090082
Mg 279.078	10240.1b	ppb	5.9900	0.1	11760.2
Mn 257.610	1334.44b	ppb	2.0921	0.2	117082
Mo 202.032	77.2674b	ppb	0.6379	0.8	263.391
Na 330.237	112525xb	ppb	210.857	0.2	6655.86
Ni 231.604	89.8415b	ppb	0.8866	1.0	242.580
Pb 220.353	77.2120b	ppb	2.5502	3.3	61.2219
Sb 206.834	76.3312b	ppb	5.7657	7.6	49.3444
Se 196.026	78.1928b	ppb	6.4355	8.2	21.6615
Sn 189.925	77.3737b	ppb	3.8380	5.0	41.4626
Sr 216.596	136.447b	ppb	0.2927	0.2	751.807
Ti 334.941	77.7618b	ppb	0.0590	0.1	15733.5

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	15.5648b	ppb	8.1024	52.1	4.8918
V 292.401	77.9275b	ppb	0.1368	0.2	2111.78
Zn 206.200	89.3780b	ppb	0.8289	0.9	246.712

**680-89596-a-2-h msd (Samp)**      **5/1/2013, 1:58:37 PM**      **Rack 1, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	35.0077b	ppb	0.2990	0.9	1012.76
Al 308.215	795.350b	ppb	1.3614	0.2	2572.51
As 188.980	75.7164b	ppb	2.6664	3.5	22.0358
B 249.678	205.488b	ppb	0.9617	0.5	1698.13
Ba 389.178	249.017b	ppb	0.1488	0.1	3899.76
Be 313.042	84.1171b	ppb	0.1393	0.2	119555
Ca 370.602	16512b	ppb	32.44	0.2	55517
Cd 226.502	84.4024b	ppb	0.2083	0.2	1696.45
Co 228.615	99.0602b	ppb	0.4459	0.5	707.997
Cr 267.716	86.8407b	ppb	0.6828	0.8	1267.22
Cu 324.754	83.2803b	ppb	0.3091	0.4	3008.03
Fe 271.441	7886.80b	ppb	6.5744	0.1	5459.29
K 766.491	9693.18b	ppb	12.9610	0.1	1101966
Mg 279.078	10342.3b	ppb	15.8222	0.2	11876.7
Mn 257.610	1344.54b	ppb	2.4889	0.2	117969
Mo 202.032	77.9109b	ppb	1.1013	1.4	265.560
Na 330.237	112623xb	ppb	312.957	0.3	6661.66
Ni 231.604	90.4654b	ppb	1.6780	1.9	244.267
Pb 220.353	80.6764b	ppb	2.2549	2.8	63.8872
Sb 206.834	73.9908b	ppb	4.1599	5.6	47.9517
Se 196.026	78.6167b	ppb	16.4599	20.9	21.7678
Sn 189.925	78.4000b	ppb	1.2568	1.6	42.0158
Sr 216.596	137.437b	ppb	1.2103	0.9	757.311
Ti 334.941	78.8750b	ppb	0.1289	0.2	15959.4
Tl 190.794	18.8418b	ppb	4.3542	23.1	6.2830
V 292.401	79.1717b	ppb	0.2893	0.4	2145.52
Zn 206.200	91.6396b	ppb	0.3062	0.3	252.802

**640-43026-b-1-d (Samp)**      **5/1/2013, 2:04:04 PM**      **Rack 1, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4169b	ppb	0.2536	60.8	-17.1262
Al 308.215	-33.2851b	ppb	0.6361	1.9	83.9478
As 188.980	6.8796b	ppb	8.3566	121.5	-0.0592
B 249.678	97.4806b	ppb	0.3506	0.4	837.254
Ba 389.178	33.6811b	ppb	0.4452	1.3	508.941
Be 313.042	0.0235b	ppb	0.0116	49.4	-59.2483
Ca 370.602	40535b	ppb	35.25	0.1	139250
Cd 226.502	0.0997b	ppb	0.2649	265.7	13.4750
Co 228.615	0.0096b	ppb	0.0754	786.8	-3.8911
Cr 267.716	0.9143b	ppb	0.3918	42.9	24.0952
Cu 324.754	43.2836b	ppb	0.2419	0.6	1517.53
Fe 271.441	-31.4708b	ppb	6.3231	20.1	-17.3819
K 766.491	83795.1xb	ppb	69.4554	0.1	9511069

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	1761.12b	ppb	5.3892	0.3	2087.47
Mn 257.610	149.159b	ppb	0.3556	0.2	13096.3
Mo 202.032	12.2617b	ppb	1.1381	9.3	43.9928
Na 330.237	164993xb	ppb	363.172	0.2	9761.01
Ni 231.604	8.6828b	ppb	1.8243	21.0	23.6148
Pb 220.353	-1.9300b	ppb	2.7324	141.6	0.5312
Sb 206.834	1.9182b	ppb	1.4482	75.5	3.9634
Se 196.026	-1.0795b	ppb	7.4558	690.7	2.0699
Sn 189.925	1.0939b	ppb	1.3248	121.1	0.2629
Sr 216.596	65.8888b	ppb	0.7060	1.1	361.485
Ti 334.941	0.2652b	ppb	0.0301	11.3	40.1395
Tl 190.794	5.4604b	ppb	3.6232	66.4	0.4910
V 292.401	0.6032b	ppb	0.1764	29.2	17.7810
Zn 206.200	211.878b	ppb	1.4341	0.7	576.373

640-43026-b-2-d (Samp) 5/1/2013, 2:09:32 PM Rack 1, Tube 9

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0932b	ppb	0.1094	117.4	-26.0801
Al 308.215	-21.2658b	ppb	2.7354	12.9	119.671
As 188.980	3.9643b	ppb	11.3270	285.7	-1.6454
B 249.678	52.1716b	ppb	0.9084	1.7	469.561
Ba 389.178	20.5176b	ppb	0.2564	1.2	303.731
Be 313.042	0.0046b	ppb	0.0096	211.4	-74.4086
Ca 370.602	71917b	ppb	8.870	0.0	246986
Cd 226.502	0.3472b	ppb	0.2071	59.6	18.4195
Co 228.615	0.9400b	ppb	0.0872	9.3	2.9577
Cr 267.716	0.0713b	ppb	0.6071	852.1	11.9226
Cu 324.754	40.2874b	ppb	0.1231	0.3	1327.09
Fe 271.441	-40.7671b	ppb	3.7010	9.1	-23.7860
K 766.491	62645.4xb	ppb	32.9922	0.1	7111016
Mg 279.078	2111.81b	ppb	8.1754	0.4	2488.49
Mn 257.610	319.495b	ppb	0.1309	0.0	28036.9
Mo 202.032	0.6709b	ppb	0.4595	68.5	4.6746
Na 330.237	138869xb	ppb	645.118	0.5	8217.05
Ni 231.604	18.7655b	ppb	0.7860	4.2	50.7418
Pb 220.353	-0.0400b	ppb	2.8433	7105.7	2.0030
Sb 206.834	1.0418b	ppb	3.1140	298.9	3.7294
Se 196.026	11.7202b	ppb	6.3353	54.1	5.3219
Sn 189.925	0.5050b	ppb	1.1340	224.5	-0.1630
Sr 216.596	104.241b	ppb	1.0099	1.0	575.514
Ti 334.941	-0.1138b	ppb	0.0742	65.2	-3.0582
Tl 190.794	-2.6554b	ppb	2.8201	106.2	-3.2169
V 292.401	0.2748b	ppb	0.1326	48.2	11.5043
Zn 206.200	268.959b	ppb	0.7449	0.3	730.065

640-43026-b-3-d (Samp) 5/1/2013, 2:14:59 PM Rack 1, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2781b	ppb	0.2281	82.0	-37.3265
Al 308.215	-17.7952b	ppb	0.4246	2.4	130.051

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.9273b	ppb	5.4746	79.0	-0.6730
B 249.678	28.0603b	ppb	0.5396	1.9	273.734
Ba 389.178	44.6326b	ppb	0.1764	0.4	679.445
Be 313.042	0.0147b	ppb	0.0042	28.2	-57.2795
Ca 370.602	69979b	ppb	86.46	0.1	240331
Cd 226.502	0.6851b	ppb	0.0650	9.5	25.1488
Co 228.615	0.0985b	ppb	0.2089	212.1	-3.0902
Cr 267.716	-0.3754b	ppb	0.4588	122.2	5.3003
Cu 324.754	3.6680b	ppb	0.1424	3.9	29.5639
Fe 271.441	-31.5463b	ppb	7.9057	25.1	-17.4478
K 766.491	10681.9b	ppb	15.3952	0.1	1214219
Mg 279.078	1431.26b	ppb	4.3567	0.3	1709.86
Mn 257.610	257.165b	ppb	0.5090	0.2	22568.6
Mo 202.032	0.0044b	ppb	1.5270	35080.5	2.4125
Na 330.237	124392xb	ppb	67.6355	0.1	7361.30
Ni 231.604	1.1043b	ppb	0.4420	40.0	3.2178
Pb 220.353	28.9281b	ppb	1.1812	4.1	24.3244
Sb 206.834	1.7314b	ppb	4.6577	269.0	4.1201
Se 196.026	7.8316b	ppb	9.8264	125.5	4.3498
Sn 189.925	-0.9948b	ppb	0.9193	92.4	-0.9680
Sr 216.596	48.5885b	ppb	0.3715	0.8	267.095
Ti 334.941	-0.0423b	ppb	0.0529	125.2	10.1703
Tl 190.794	5.5589b	ppb	5.2235	94.0	0.2905
V 292.401	0.1764b	ppb	0.2541	144.0	9.2335
Zn 206.200	217.382b	ppb	0.7081	0.3	591.184

640-43026-b-4-d (Samp)

5/1/2013, 2:20:27 PM

Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0939b	ppb	0.2361	251.5	-26.3511
Al 308.215	-15.6764b	ppb	0.3256	2.1	136.410
As 188.980	3.4621b	ppb	7.4191	214.3	-1.7076
B 249.678	65.6238b	ppb	0.4766	0.7	578.754
Ba 389.178	30.5609b	ppb	0.5886	1.9	460.186
Be 313.042	0.0254b	ppb	0.0137	53.9	-46.8010
Ca 370.602	67538b	ppb	15.46	0.0	231955
Cd 226.502	0.4694b	ppb	0.1642	35.0	20.7713
Co 228.615	-0.1670b	ppb	0.2798	167.5	-4.9925
Cr 267.716	0.3177b	ppb	0.3198	100.7	15.4975
Cu 324.754	26.5830b	ppb	0.2806	1.1	851.215
Fe 271.441	-49.6114b	ppb	3.3566	6.8	-29.9318
K 766.491	53564.9xb	ppb	81.8333	0.2	6080567
Mg 279.078	1817.60b	ppb	9.0237	0.5	2152.00
Mn 257.610	244.660b	ppb	0.3149	0.1	21472.6
Mo 202.032	0.8555b	ppb	0.6451	75.4	5.3021
Na 330.237	154862xb	ppb	620.553	0.4	9162.52
Ni 231.604	6.0202b	ppb	0.4339	7.2	16.4517
Pb 220.353	1.7452b	ppb	4.4578	255.4	3.3788
Sb 206.834	1.3509b	ppb	4.7244	349.7	3.8707
Se 196.026	6.0601b	ppb	6.3517	104.8	3.9092
Sn 189.925	3.0500b	ppb	3.6688	120.3	1.2264
Sr 216.596	78.1430b	ppb	0.1921	0.2	430.886
Ti 334.941	-0.0551b	ppb	0.0173	31.4	3.5220

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	2.3901b	ppb	2.9652	124.1	-1.0352
V 292.401	0.1120b	ppb	0.4180	373.2	7.1576
Zn 206.200	395.173b	ppb	1.3267	0.3	1069.87

**lb2 680-274576/13-c (Samp)**      **5/1/2013, 2:25:56 PM**      **Rack 1, Tube 12**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1928	ppb	0.2011	104.3	-35.8072
Al 308.215	-38.6392	ppb	1.2705	3.3	67.5401
As 188.980	-9.6896	ppb	2.4501	25.3	-4.3977
B 249.678	68.1499	ppb	1.1689	1.7	599.078
Ba 389.178	-0.1409	ppb	0.8717	618.5	-22.8565
Be 313.042	0.0130	ppb	0.0093	71.3	-67.3984
Ca 370.602	428.8	ppb	3.825	0.9	1563
Cd 226.502	1.1631	ppb	0.0886	7.6	34.9617
Co 228.615	-1.0069	ppb	0.2230	22.2	-11.0531
Cr 267.716	0.3471	ppb	0.4425	127.5	14.9061
Cu 324.754	2.3097	ppb	0.2373	10.3	167.051
Fe 271.441	-12.3732	ppb	8.2591	66.7	-4.2447
K 766.491	81.6159	ppb	0.1083	0.1	11310.3
Mg 279.078	65.8116	ppb	5.5491	8.4	147.789
Mn 257.610	0.1228	ppb	0.0224	18.2	20.8471
Mo 202.032	-0.5222	ppb	0.2186	41.9	0.6231
Na 330.237	4288.19	ppb	74.0211	1.7	262.166
Ni 231.604	0.9424	ppb	0.7458	79.1	2.7365
Pb 220.353	-1.0375	ppb	2.2420	216.1	1.2387
Sb 206.834	0.2584	ppb	6.1169	2367.3	2.6470
Se 196.026	3.6978	ppb	10.0376	271.4	3.0961
Sn 189.925	3.7137	ppb	0.5567	15.0	1.7732
Sr 216.596	0.3374	ppb	0.2523	74.8	-3.5146
Ti 334.941	0.0068	ppb	0.0475	697.2	-45.3777
Tl 190.794	3.9024	ppb	3.7639	96.5	0.1849
V 292.401	-0.0772	ppb	0.1410	182.6	3.7773
Zn 206.200	2.6290	ppb	0.2171	8.3	12.9546

**Cont Calib Verif (CCV)**      **5/1/2013, 2:31:22 PM**      **Rack 1, Tube 13**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.880	ppb	2.7545	0.5	14837.8	100.17597
Al 308.215	4784.95	ppb	4.5607	0.1	14797.3	95.69904
As 188.980	518.777	ppb	10.8800	2.1	161.859	103.75542
B 249.678	513.310	ppb	2.0710	0.4	4207.63	20.53240Q
Ba 389.178	5160.63	ppb	8.9863	0.2	80687.5	103.21255
Be 313.042	524.512	ppb	0.8478	0.2	748429	104.90244
Ca 370.602	5229	ppb	18.89	0.4	17462	104.57708
Cd 226.502	529.787	ppb	2.0574	0.4	10492.3	105.95741
Co 228.615	525.024	ppb	1.9397	0.4	3771.54	105.00482
Cr 267.716	5421.61	ppb	15.8756	0.3	78629.4	108.43212
Cu 324.754	5075.30	ppb	8.9799	0.2	180534	101.50610
Fe 271.441	4953.90	ppb	8.6721	0.2	3484.29	99.07809
K 766.491	9843.23	ppb	13.8375	0.1	1117827	98.43227



F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Mg 279.078	4905.96	ppb	19.9196	0.4	5659.16	98.11928
Mn 257.610	5482.36	ppb	14.9066	0.3	480874	109.64725
Mo 202.032	483.033	ppb	1.6874	0.3	1631.40	96.60662
Na 330.237	7460.16	ppb	14.3817	0.2	448.307	99.46875
Ni 231.604	2646.08	ppb	7.8495	0.3	7120.17	105.84319
Pb 220.353	506.556	ppb	4.3857	0.9	386.913	101.31111
Sb 206.834	984.430	ppb	7.7907	0.8	626.223	39.37719Q
Se 196.026	4871.01	ppb	18.9153	0.4	1196.47	97.42019
Sn 189.925	5287.28	ppb	19.0403	0.4	2849.62	105.74560
Sr 216.596	2552.79	ppb	4.7455	0.2	14068.7	102.11142
Ti 334.941	497.818	ppb	1.2442	0.2	101185	99.56368
Tl 190.794	5003.24	ppb	13.9009	0.3	2130.43	100.06487
V 292.401	4929.77	ppb	5.3659	0.1	134314	98.59539
Zn 206.200	2736.96	ppb	2.8616	0.1	7357.31	109.47842

Cont Calib Blank (CCB)

5/1/2013, 2:36:48 PM

Rack 1, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2842	ppb	0.0830	29.2	-38.5102	-0.28417
Al 308.215	-43.4938	ppb	1.7036	3.9	53.0448	-43.49382
As 188.980	5.3054	ppb	1.3849	26.1	0.3123	5.30536
B 249.678	1.6109	ppb	0.3970	24.6	58.9223	1.61091
Ba 389.178	0.3347	ppb	0.4962	148.2	-15.6116	0.33471
Be 313.042	0.0189	ppb	0.0023	12.4	-58.7437	0.01892
Ca 370.602	-51.15	ppb	2.047	4.0	-84.97	-51.14542
Cd 226.502	0.1672	ppb	0.2327	139.2	15.2960	0.16717
Co 228.615	-1.1134	ppb	0.2852	25.6	-11.8425	-1.11343
Cr 267.716	0.2005	ppb	0.4127	205.9	12.7573	0.20046
Cu 324.754	0.0060	ppb	0.2251	3780.9	86.3827	0.00595
Fe 271.441	-10.3583	ppb	3.1753	30.7	-2.8532	-10.35834
K 766.491	1.8445	ppb	0.8973	48.6	2257.81	1.84453
Mg 279.078	-46.2785	ppb	3.5962	7.8	19.5220	-46.27851
Mn 257.610	0.1245	ppb	0.0345	27.7	20.7417	0.12452
Mo 202.032	1.0564	ppb	0.5453	51.6	5.9772	1.05640
Na 330.237	-87.1601	ppb	100.197	115.0	3.5546	-87.16014
Ni 231.604	-0.3393	ppb	0.7723	227.6	-0.7157	-0.33930
Pb 220.353	0.9011	ppb	4.2224	468.6	2.7311	0.90113
Sb 206.834	-0.6038	ppb	1.6380	271.3	2.1222	-0.60379
Se 196.026	6.0404	ppb	12.8395	212.6	3.6681	6.04042
Sn 189.925	-1.6426	ppb	2.4431	148.7	-1.1132	-1.64263
Sr 216.596	-0.3910	ppb	0.4517	115.5	-7.5587	-0.39099
Ti 334.941	-0.0400	ppb	0.0621	155.2	-55.1595	-0.04002
Tl 190.794	1.6288	ppb	4.9009	300.9	-0.7790	1.62876
V 292.401	0.2192	ppb	0.0319	14.6	11.5360	0.21918
Zn 206.200	0.3638	ppb	0.2699	74.2	6.8536	0.36379

680-89720-a-1-h (Samp)

5/1/2013, 2:42:13 PM

Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0766b	ppb	0.2033	265.6	-27.6804
Al 308.215	-30.9775b	ppb	2.0025	6.5	91.5123

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	4.2129b	ppb	6.1974	147.1	-0.1415
B 249.678	362.275b	ppb	1.3096	0.4	2986.23
Ba 389.178	19.2446b	ppb	0.4037	2.1	280.897
Be 313.042	0.0262b	ppb	0.0067	25.7	-60.3526
Ca 370.602	5441b	ppb	10.55	0.2	18763
Cd 226.502	1.4165b	ppb	0.1613	11.4	39.7326
Co 228.615	-1.0002b	ppb	0.5291	52.9	-11.6187
Cr 267.716	0.7457b	ppb	0.1085	14.5	21.2778
Cu 324.754	5.5459b	ppb	0.0621	1.1	269.116
Fe 271.441	27.4622b	ppb	2.6312	9.6	23.3284
K 766.491	929.371b	ppb	1.7810	0.2	107509
Mg 279.078	337.525b	ppb	3.8212	1.1	458.544
Mn 257.610	11.0482b	ppb	0.0637	0.6	979.558
Mo 202.032	40.8811b	ppb	0.4535	1.1	141.073
Na 330.237	123579xb	ppb	1098.59	0.9	7315.42
Ni 231.604	2.1033b	ppb	0.6317	30.0	5.8625
Pb 220.353	-0.2783b	ppb	2.5685	922.9	1.7651
Sb 206.834	-0.8530b	ppb	2.5113	294.4	1.9473
Se 196.026	6.2108b	ppb	12.3361	198.6	3.7288
Sn 189.925	-0.8755b	ppb	1.9355	221.1	-0.6920
Sr 216.596	8.1551b	ppb	1.0295	12.6	39.3750
Ti 334.941	0.1004b	ppb	0.0577	57.5	-27.2796
Tl 190.794	-0.9429b	ppb	4.3318	459.4	-1.9596
V 292.401	0.2443b	ppb	0.1026	42.0	1.9918
Zn 206.200	1735.60b	ppb	1.6031	0.1	4678.69

680-89719-a-2-c^10 (Samp)

5/1/2013, 2:47:39 PM

Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2447	ppb	0.1128	46.1	-37.5131
Al 308.215	-40.7379	ppb	0.8409	2.1	61.2723
As 188.980	5.1130	ppb	1.9580	38.3	0.2143
B 249.678	5.5191	ppb	1.6279	29.5	90.6369
Ba 389.178	25.2227	ppb	0.5197	2.1	373.490
Be 313.042	0.0076	ppb	0.0081	107.0	-75.5100
Ca 370.602	1681	ppb	2.790	0.2	5859
Cd 226.502	511.861	ppb	1.3050	0.3	10127.0
Co 228.615	-0.3462	ppb	0.4181	120.8	-6.9954
Cr 267.716	-0.1543	ppb	0.2201	142.6	6.7293
Cu 324.754	304.730	ppb	0.0492	0.0	10920.7
Fe 271.441	4.1689	ppb	2.3751	57.0	7.2100
K 766.491	213.872	ppb	0.8085	0.4	26312.6
Mg 279.078	-11.6035	ppb	1.9754	17.0	59.1272
Mn 257.610	14.8336	ppb	0.0569	0.4	1310.91
Mo 202.032	0.5660	ppb	1.1079	195.7	4.3125
Na 330.237	12437.0	ppb	161.316	1.3	744.077
Ni 231.604	3.3416	ppb	0.7330	21.9	9.1822
Pb 220.353	7.7757	ppb	7.2698	93.5	8.0284
Sb 206.834	1.3940	ppb	3.1410	225.3	3.3365
Se 196.026	-3.1878	ppb	8.5868	269.4	1.4147
Sn 189.925	0.4646	ppb	2.0790	447.5	0.0195
Sr 216.596	2.2954	ppb	0.2548	11.1	7.0856
Ti 334.941	-0.1008	ppb	0.0479	47.5	66.8359

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Tl 190.794	-2.5954	ppb	5.9819	230.5	-2.5887
V 292.401	-0.0356	ppb	0.1461	410.0	4.6363
Zn 206.200	191.306	ppb	0.2009	0.1	520.934

**680-89752-a-1-a^500 (Samp)**      **5/1/2013, 2:53:05 PM**      **Rack 1, Tube 17**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3049	ppb	0.3106	101.9	-21.0276
Al 308.215	-45.8480	ppb	1.7245	3.8	45.9477
As 188.980	-0.4493	ppb	8.9472	1991.2	-1.4919
B 249.678	1.3404	ppb	0.4311	32.2	56.7431
Ba 389.178	-0.3190	ppb	0.3309	103.7	-25.8258
Be 313.042	0.0010	ppb	0.0065	678.4	-83.4697
Ca 370.602	-27.00	ppb	1.636	6.1	-2.200
Cd 226.502	0.1008	ppb	0.2268	224.9	13.9878
Co 228.615	-0.6735	ppb	0.5924	88.0	-8.6645
Cr 267.716	0.1066	ppb	0.0919	86.1	11.3101
Cu 324.754	-0.1039	ppb	0.3893	374.6	82.4066
Fe 271.441	-9.2695	ppb	7.2302	78.0	-2.0852
K 766.491	7.7868	ppb	0.7066	9.1	2932.28
Mg 279.078	-36.5654	ppb	8.3977	23.0	30.6336
Mn 257.610	0.0396	ppb	0.0442	111.5	13.3106
Mo 202.032	-0.5856	ppb	0.2917	49.8	0.4074
Na 330.237	-1243.25	ppb	88.6826	7.1	-40.6449
Ni 231.604	-0.2378	ppb	1.0249	431.1	-0.4299
Pb 220.353	0.6156	ppb	2.4750	402.0	2.5126
Sb 206.834	4.2030	ppb	3.1317	74.5	5.0079
Se 196.026	1.0486	ppb	4.4464	424.0	2.4452
Sn 189.925	-0.6302	ppb	3.1884	505.9	-0.5677
Sr 216.596	0.6800	ppb	0.3126	46.0	-1.5946
Ti 334.941	-0.1008	ppb	0.0504	50.0	-67.4393
Tl 190.794	-2.0337	ppb	3.6478	179.4	-2.3345
V 292.401	-0.0184	ppb	0.2903	1579.1	5.3182
Zn 206.200	16457.7	ppb	311.134	1.9	44315.6

**CCV (Samp)**      **5/1/2013, 2:58:31 PM**      **Rack 1, Tube 18**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	499.118	ppb	2.2129	0.4	14785.6
Al 308.215	4767.38	ppb	2.1700	0.0	14743.8
As 188.980	508.939	ppb	10.7445	2.1	158.774
B 249.678	512.286	ppb	1.3338	0.3	4199.34
Ba 389.178	5143.98	ppb	3.3285	0.1	80427.3
Be 313.042	522.977	ppb	0.5031	0.1	746239
Ca 370.602	5219	ppb	2.622	0.1	17428
Cd 226.502	529.003	ppb	0.1912	0.0	10476.7
Co 228.615	525.748	ppb	0.5553	0.1	3776.72
Cr 267.716	5414.02	ppb	9.4061	0.2	78519.4
Cu 324.754	5063.67	ppb	23.7299	0.5	180120
Fe 271.441	4948.89	ppb	17.6359	0.4	3480.73
K 766.491	9824.41	ppb	3.5991	0.0	1115697

F04302013A.wvq. All Data Report 5/2/2013, 9:32:30 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Mg 279.078	4894.03	ppb	12.2656	0.3	5645.54
Mn 257.610	5472.73	ppb	6.0317	0.1	480030
Mo 202.032	481.914	ppb	0.7718	0.2	1627.63
Na 330.237	7582.51	ppb	226.009	3.0	455.560
Ni 231.604	2644.35	ppb	2.6952	0.1	7115.53
Pb 220.353	502.869	ppb	8.2717	1.6	384.087
Sb 206.834	984.012	ppb	6.4152	0.7	625.877
Se 196.026	4865.75	ppb	13.6035	0.3	1195.18
Sn 189.925	5280.40	ppb	13.5091	0.3	2845.92
Sr 216.596	2548.30	ppb	2.7618	0.1	14043.8
Ti 334.941	496.156	ppb	0.1176	0.0	100848
Tl 190.794	4985.46	ppb	9.6322	0.2	2122.85
V 292.401	4914.79	ppb	2.1811	0.0	133906
Zn 206.200	2743.18	ppb	6.0420	0.2	7374.10

CCB (Samp)

5/1/2013, 3:03:58 PM

Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1029	ppb	0.3374	327.7	-27.0219
Al 308.215	-56.4944	ppb	2.1744	3.8	14.0180
As 188.980	1.7373	ppb	4.1859	240.9	-0.8062
B 249.678	-2.3271	ppb	0.4958	21.3	26.9888
Ba 389.178	-0.2210	ppb	0.1778	80.5	-24.3209
Be 313.042	-0.1413	ppb	0.0086	6.1	-286.632
Ca 370.602	-51.30	ppb	1.552	3.0	-85.62
Cd 226.502	-0.1759	ppb	0.0993	56.5	8.5164
Co 228.615	-0.2798	ppb	0.1338	47.8	-5.8255
Cr 267.716	-0.1295	ppb	0.4154	320.9	7.9729
Cu 324.754	-1.8331	ppb	0.0596	3.3	20.9657
Fe 271.441	-9.9030	ppb	4.3298	43.7	-2.4976
K 766.491	-4.2765	ppb	0.3101	7.3	1563.32
Mg 279.078	-51.5705	ppb	2.3829	4.6	13.4645
Mn 257.610	-0.0534	ppb	0.0593	111.0	5.1160
Mo 202.032	-0.6462	ppb	0.3139	48.6	0.2015
Na 330.237	51.3550	ppb	38.6109	75.2	11.7405
Ni 231.604	-0.3396	ppb	0.5364	158.0	-0.7168
Pb 220.353	-0.6674	ppb	0.6893	103.3	1.5287
Sb 206.834	-1.1127	ppb	1.6147	145.1	1.8234
Se 196.026	-3.7275	ppb	7.9115	212.2	1.2749
Sn 189.925	-0.7756	ppb	2.4511	316.0	-0.6458
Sr 216.596	0.3751	ppb	0.1508	40.2	-3.2755
Ti 334.941	-0.0353	ppb	0.0240	67.9	-54.2090
Tl 190.794	3.2365	ppb	2.7234	84.1	-0.0923
V 292.401	-0.0862	ppb	0.0793	92.0	3.5966
Zn 206.200	-0.0752	ppb	0.1341	178.4	5.6718



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Blank (Blk)	5/1/2013, 12:03:26 PM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	-0.0136	-0.2241	0.2377
Al 308.215	-2.2692	0.0494	2.2198
As 188.980	1.4460	1.0442	-2.4902
B 249.678	1.2370	-0.3782	-0.8588
Ba 389.178	0.3059	-0.1746	-0.1312
Be 313.042	0.0013	-0.0007	-0.0006
Ca 370.602	1.394	0.0973	-1.492
Cd 226.502	-0.0073	-0.0441	0.0514
Co 228.615	-0.4910	0.3248	0.1662
Cr 267.716	-0.0499	0.0069	0.0430
Cu 324.754	0.2558	-0.3982	0.1424
Fe 271.441	1.9314	-2.9386	1.0072
K 766.491	-0.2246	-0.0853	0.3099
Mg 279.078	1.3134	-0.9478	-0.3655
Mn 257.610	0.0180	-0.0080	-0.0101
Mo 202.032	-0.2337	0.2953	-0.0616
Na 330.237	-49.3863	15.1987	34.1877
Ni 231.604	1.0382	-0.3892	-0.6490
Pb 220.353	2.0010	-0.8844	-1.1167
Sb 206.834	-1.0249	0.5313	0.4936
Se 196.026	1.8399	1.0716	-2.9115
Sn 189.925	0.3228	-0.7489	0.4261
Sr 216.596	0.1709	0.0079	-0.1787
Ti 334.941	0.0048	-0.0162	0.0114
Tl 190.794	-2.7859	3.6752	-0.8894
V 292.401	-0.1105	0.1829	-0.0724
Zn 206.200	-0.2502	0.9353	-0.6850

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	18.636	80.5	-23.1388
Al 308.215	0.0000	ppb	6.825	195.5	-3.4909
As 188.980	0.0000	ppb	1.583	16.1	-9.8233
B 249.678	0.0000	ppb	14.523	4.3	334.856
Ba 389.178	0.0000	ppb	6.465	137.6	-4.6992
Be 313.042	0.0000	ppb	2.139	0.7	-314.505
Ca 370.602	0.0000	ppb	4.796	38.2	12.56
Cd 226.502	0.0000	ppb	1.955	6.2	31.5860
Co 228.615	0.0000	ppb	5.804	47.8	12.1376
Cr 267.716	0.0000	ppb	2.480	25.7	9.6587
Cu 324.754	0.0000	ppb	19.898	10.1	196.869
Fe 271.441	0.0000	ppb	4.851	4.6	105.721
K 766.491	0.0000	ppb	11.096	3.5	318.817
Mg 279.078	0.0000	ppb	2.729	7.9	34.3516
Mn 257.610	0.0000	ppb	4.185	6.2	67.5003
Mo 202.032	0.0000	ppb	2.207	11.5	19.1215
Na 330.237	0.0000	ppb	2.322	3.4	69.0605
Ni 231.604	0.0000	ppb	2.801	37.8	-7.4171
Pb 220.353	0.0000	ppb	3.631	10.2	35.5234
Sb 206.834	0.0000	ppb	0.957	4.6	20.9250
Se 196.026	0.0000	ppb	1.267	22.9	5.5238
Sn 189.925	0.0000	ppb	0.665	5.6	-11.8368
Sr 216.596	0.0000	ppb	2.253	9.7	23.1325
Ti 334.941	0.0000	ppb	4.558	23.1	-19.7391
Tl 190.794	0.0000	ppb	3.740	21.0	-17.8259
V 292.401	0.0000	ppb	4.722	81.0	-5.8314
Zn 206.200	0.0000	ppb	1.354	379.5	-0.3568

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**HIGH STD (Std)**                      **5/1/2013, 12:08:52 PM**                      **Rack S, Tube 2**

<b>Label</b>	<b>Replicates Concentration</b>		
Ag 328.068	990.531	1000.91	1008.56
Al 308.215	9954.31	10036.3	10009.4
As 188.980	985.326	1008.49	1006.18
B 249.678	993.105	999.812	1007.08
Ba 389.178	9952.60	10008.2	10039.2
Be 313.042	995.653	1002.93	1001.42
Ca 370.602	9948	10013	10039
Cd 226.502	996.335	1000.07	1003.60
Co 228.615	996.272	1001.86	1001.87
Cr 267.716	9965.04	10006.1	10028.8
Cu 324.754	9937.56	9986.59	10075.9
Fe 271.441	9964.90	10017.5	10017.6
K 766.491	19960.5	19994.3	20045.2
Mg 279.078	9957.25	10011.7	10031.0
Mn 257.610	9958.26	10015.1	10026.6
Mo 202.032	995.925	1000.47	1003.60
Na 330.237	14995.9	14876.7	15127.4
Ni 231.604	4986.63	5001.66	5011.71
Pb 220.353	996.146	1000.04	1003.82
Sb 206.834	1994.68	1998.47	2006.84
Se 196.026	9935.77	10030.8	10033.4
Sn 189.925	9933.35	10013.0	10053.6
Sr 216.596	4979.09	5004.66	5016.26
Ti 334.941	996.087	1000.18	1003.73
Tl 190.794	9954.71	10001.2	10044.1
V 292.401	9960.42	10013.0	10026.6
Zn 206.200	4987.01	4986.82	5026.17

<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	729.375	0.9	80589.3
Al 308.215	10000.0	ppb	127.034	0.4	30400.0
As 188.980	1000.00	ppb	9.328	1.3	721.235
B 249.678	1000.00	ppb	92.483	0.7	13563.0
Ba 389.178	10000.0	ppb	1066.893	0.4	243247
Be 313.042	1000.00	ppb	7399.966	0.4	1926966
Ca 370.602	10000	ppb	154.227	0.5	33194
Cd 226.502	1000.00	ppb	147.569	0.4	40659.5
Co 228.615	1000.00	ppb	43.317	0.3	13429.2
Cr 267.716	10000.0	ppb	1712.099	0.3	529660
Cu 324.754	10000.0	ppb	3992.134	0.7	569588
Fe 271.441	10000.0	ppb	57.005	0.3	18859.6
K 766.491	20000.0	ppb	1707.763	0.2	800610
Mg 279.078	10000.0	ppb	88.933	0.4	23276.6
Mn 257.610	10000.0	ppb	9790.234	0.4	2674666
Mo 202.032	1000.00	ppb	31.571	0.4	8198.54
Na 330.237	15000.0	ppb	6.645	0.8	863.911
Ni 231.604	5000.00	ppb	38.923	0.3	15411.6
Pb 220.353	1000.00	ppb	8.020	0.4	2126.16
Sb 206.834	2000.00	ppb	6.709	0.3	2177.67
Se 196.026	10000.0	ppb	27.642	0.6	4973.70
Sn 189.925	10000.0	ppb	62.513	0.6	10204.3
Sr 216.596	5000.00	ppb	244.943	0.4	64425.5
Ti 334.941	1000.00	ppb	1212.296	0.4	316923
Tl 190.794	10000.0	ppb	50.327	0.4	11243.2
V 292.401	10000.0	ppb	1034.045	0.3	295958
Zn 206.200	5000.00	ppb	36.597	0.5	8074.33

**Ag 328.068 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-23.1388	0.0000	0.0000	-	-
HIGH STD		80589.3	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 80.6 x + -23.1$

**Al 308.215 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.4909	0.0000	0.0000	-	-
HIGH STD		30400.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.0 x + -3.5$

**As 188.980 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-9.8233	0.0000	0.0000	-	-
HIGH STD		721.235	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 0.7 x + -9.8$

**B 249.678 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		334.856	0.0000	0.0000	-	-
HIGH STD		13563.0	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 13.2 x + 334.9$

**Ba 389.178 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.6992	0.0000	0.0000	-	-
HIGH STD		243247	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 24.3 x + -4.7$

**Be 313.042 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-314.505	0.0000	0.0000	-	-
HIGH STD		1926966	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1927.3 x + -314.5$

**Ca 370.602 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.56	0.0000	0.0000	-	-
HIGH STD		33194	10000	10000	0.0010	0.0

Curve Type: Linear Equation:  $y = 3.3 x + 12.6$



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**Cd 226.502 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		31.5860	0.0000	0.0000	-	-
HIGH STD		40659.5	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 40.6 x + 31.6$ **Co 228.615 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.1376	0.0000	0.0000	-	-
HIGH STD		13429.2	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 13.4 x + 12.1$ **Cr 267.716 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.6587	0.0000	0.0000	-	-
HIGH STD		529660	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 53.0 x + 9.7$ **Cu 324.754 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		196.869	0.0000	0.0000	-	-
HIGH STD		569588	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 56.9 x + 196.9$ **Fe 271.441 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		105.721	0.0000	0.0000	-	-
HIGH STD		18859.6	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 1.9 x + 105.7$ **K 766.491 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		318.817	0.0000	0.0000	-	-
HIGH STD		800610	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 40.0 x + 318.8$ **Mg 279.078 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		34.3516	0.0000	0.0000	-	-
HIGH STD		23276.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.3 x + 34.4$

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**Mn 257.610 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		67.5003	0.0000	0.0000	-	-
HIGH STD		2674666	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 267.5 x + 67.5$ **Mo 202.032 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		19.1215	0.0000	0.0000	-	-
HIGH STD		8198.54	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation:  $y = 8.2 x + 19.1$ **Na 330.237 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		69.0605	0.0000	0.0000	-	-
HIGH STD		863.911	15000.0	15000.0	-0.0029	0.0

Curve Type: Linear Equation:  $y = 0.1 x + 69.1$ **Ni 231.604 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.4171	0.0000	0.0000	-	-
HIGH STD		15411.6	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 3.1 x + -7.4$ **Pb 220.353 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		35.5234	0.0000	0.0000	-	-
HIGH STD		2126.16	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 2.1 x + 35.5$ **Sb 206.834 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		20.9250	0.0000	0.0000	-	-
HIGH STD		2177.67	2000.00	2000.00	-0.0001	0.0

Curve Type: Linear Equation:  $y = 1.1 x + 20.9$ **Se 196.026 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.5238	0.0000	0.0000	-	-
HIGH STD		4973.70	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.5 x + 5.5$

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**Sn 189.925 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-11.8368	0.0000	0.0000	-	-
HIGH STD		10204.3	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.0 x + -11.8$ **Sr 216.596 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		23.1325	0.0000	0.0000	-	-
HIGH STD		64425.5	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 12.9 x + 23.1$ **Ti 334.941 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-19.7391	0.0000	0.0000	-	-
HIGH STD		316923	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 316.9 x + -19.7$ **Tl 190.794 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-17.8259	0.0000	0.0000	-	-
HIGH STD		11243.2	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 1.1 x + -17.8$ **V 292.401 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.8314	0.0000	0.0000	-	-
HIGH STD		295958	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 29.6 x + -5.8$ **Zn 206.200 Calibration (ppb) 5/1/2013, 12:08:52 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.3568	0.0000	0.0000	-	-
HIGH STD		8074.33	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 1.6 x + -0.4$ **Lab Control Sample (LCS) 5/1/2013, 12:14:16 PM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	987.761	1004.47	998.544
Al 308.215	9909.10	9947.19	9984.34
As 188.980	1003.09	999.081	998.661
B 249.678	1014.30	1010.57	1013.01
Ba 389.178	10005.5	9959.33	9978.26

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Label	Replicates Concentration		
Be 313.042	1001.04	997.679	1000.10
Ca 370.602	9927	9919	9926
Cd 226.502	1001.72	998.982	998.061
Co 228.615	1002.10	999.668	998.592
Cr 267.716	10015.7	9980.48	9984.18
Cu 324.754	9913.57	9924.85	9985.02
Fe 271.441	10012.2	9998.93	9995.41
K 766.491	20086.0	19963.2	19952.1
Mg 279.078	9982.12	9958.53	9971.14
Mn 257.610	10001.9	10006.8	10000.6
Mo 202.032	1001.10	998.549	1001.51
Na 330.237	14615.8	14839.7	14672.7
Ni 231.604	5011.78	4988.69	4984.51
Pb 220.353	1000.53	992.294	992.393
Sb 206.834	2018.93	2009.39	2003.43
Se 196.026	10028.8	9998.56	9996.56
Sn 189.925	10042.2	10019.2	10022.7
Sr 216.596	5004.51	4985.62	4989.66
Ti 334.941	1001.80	998.399	996.849
Tl 190.794	10020.5	9987.98	9999.49
V 292.401	10009.2	9983.43	9987.78
Zn 206.200	4975.06	5003.50	4996.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	996.925	ppb	8.4706	0.8	80213.7	99.69249
Al 308.215	9946.88	ppb	37.6196	0.4	30214.5	99.46878
As 188.980	1000.28	ppb	2.4443	0.2	721.100	100.02773
B 249.678	1012.63	ppb	1.8895	0.2	13716.7	20.25251*
Ba 389.178	9981.03	ppb	23.2185	0.2	242856	99.81034
Be 313.042	999.608	ppb	1.7358	0.2	1925679	99.96083
Ca 370.602	9924	ppb	4.542	0.0	32667	99.23859
Cd 226.502	999.589	ppb	1.9045	0.2	40677.8	99.95886
Co 228.615	1000.12	ppb	1.7983	0.2	13451.1	100.01208
Cr 267.716	9993.46	ppb	19.3597	0.2	529249	99.93456
Cu 324.754	9941.15	ppb	38.4104	0.4	566158	99.41147
Fe 271.441	10002.2	ppb	8.8745	0.1	19135.8	100.02193
K 766.491	20000.4	ppb	74.2970	0.4	800626	100.00207
Mg 279.078	9970.60	ppb	11.8083	0.1	23030.3	99.70599
Mn 257.610	10003.1	ppb	3.2808	0.0	2675597	100.03104
Mo 202.032	1000.39	ppb	1.6047	0.2	8179.88	100.03869
Na 330.237	14709.4	ppb	116.381	0.8	799.199	98.06278
Ni 231.604	4994.99	ppb	14.6854	0.3	15396.4	99.89987
Pb 220.353	995.073	ppb	4.7270	0.5	2115.78	99.50726
Sb 206.834	2010.58	ppb	7.8202	0.4	2290.91	40.21164*
Se 196.026	10008.0	ppb	18.0708	0.2	4980.20	100.07976
Sn 189.925	10028.0	ppb	12.4243	0.1	10233.0	100.28041
Sr 216.596	4993.26	ppb	9.9482	0.2	64200.1	99.86524
Ti 334.941	999.015	ppb	2.5312	0.3	316662	99.90154
Tl 190.794	10002.6	ppb	16.4762	0.2	11234.8	100.02646
V 292.401	9993.46	ppb	13.7865	0.1	294907	99.93463
Zn 206.200	4991.59	ppb	14.7765	0.3	8030.25	99.83186

Initial Calib Verif (ICV)

5/1/2013, 12:19:40 PM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	989.930	994.125	990.957
Al 308.215	946.492	961.150	949.679

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Label	Replicates Concentration		
As 188.980	955.368	968.640	954.211
B 249.678	971.147	999.891	983.393
Ba 389.178	1019.86	1041.09	1024.49
Be 313.042	1034.98x	1055.09x	1033.36x
Ca 370.602	978.3	1005	979.2
Cd 226.502	1027.66x	1053.23x	1036.52x
Co 228.615	991.952	1004.80	993.902
Cr 267.716	1010.52	1034.58	1016.20
Cu 324.754	1037.08	1042.20	1033.09
Fe 271.441	962.590	981.604	977.093
K 766.491	10063.4	10284.2	10091.6
Mg 279.078	994.348	1008.24	999.177
Mn 257.610	1051.95	1075.81	1058.55
Mo 202.032	994.776	1014.47x	1000.17
Na 330.237	9282.66	9696.09	9640.73
Ni 231.604	1022.19	1043.32	1027.71
Pb 220.353	991.911	1013.23	996.728
Sb 206.834	987.801	1024.44	1006.45
Se 196.026	963.474	991.160	970.750
Sn 189.925	4886.84	5024.92	4928.32
Sr 216.596	4905.60	5019.10	4941.43
Ti 334.941	973.682	994.159	975.317
Tl 190.794	1004.86	1025.57	1009.60
V 292.401	985.466	1008.32	991.194
Zn 206.200	1014.27	1036.36	1018.50

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	991.670b	ppb	2.1866	0.2	79689.3	99.16703
Al 308.215	952.440b	ppb	7.7091	0.8	2953.34	95.24403
As 188.980	959.406b	ppb	8.0175	0.8	691.239	95.94064
B 249.678	984.810b	ppb	14.4241	1.5	13360.7	98.48103
Ba 389.178	1028.48b	ppb	11.1660	1.1	25025.1	102.84785
Be 313.042	1041.14xb	ppb	12.1084	1.2	2006063	104.11430
Ca 370.602	987.6b	ppb	15.40	1.6	3430	98.76126
Cd 226.502	1039.14xb	ppb	12.9853	1.2	42253.1	103.91356
Co 228.615	996.884b	ppb	6.9225	0.7	13377.7	99.68837
Cr 267.716	1020.43b	ppb	12.5756	1.2	54043.0	102.04323
Cu 324.754	1037.46b	ppb	4.5653	0.4	59289.5	103.74591
Fe 271.441	973.762b	ppb	9.9346	1.0	2112.23	97.37621
K 766.491	10146.4b	ppb	120.168	1.2	406323	101.46416
Mg 279.078	1000.59b	ppb	7.0521	0.7	2341.08	100.05881
Mn 257.610	1062.10b	ppb	12.3201	1.2	284148	106.21041Q
Mo 202.032	1003.14xb	ppb	10.1777	1.0	8222.05	100.31383
Na 330.237	9539.83b	ppb	224.429	2.4	558.561	95.39826
Ni 231.604	1031.07b	ppb	10.9566	1.1	3172.24	103.10741
Pb 220.353	1000.62b	ppb	11.1806	1.1	2124.98	100.06229
Sb 206.834	1006.23b	ppb	18.3206	1.8	1112.01	100.62313
Se 196.026	975.128b	ppb	14.3528	1.5	490.254	97.51280
Sn 189.925	4946.69b	ppb	70.8498	1.4	5041.78	98.93384
Sr 216.596	4955.38b	ppb	58.0184	1.2	63787.0	99.10753
Ti 334.941	981.053b	ppb	11.3802	1.2	310922	98.10526
Tl 190.794	1013.34b	ppb	10.8474	1.1	1122.15	101.33428
V 292.401	994.995b	ppb	11.8937	1.2	29179.2	99.49947
Zn 206.200	1023.05b	ppb	11.7232	1.1	1648.69	102.30458

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Initial Calib Blank (ICB) 5/1/2013, 12:25:16 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0151	0.1043	-0.0176u
Al 308.215	-3.8577u	-0.0154u	-3.4484u
As 188.980	1.4556	-3.5566u	-2.8711u
B 249.678	11.7987	10.4141	8.7911
Ba 389.178	0.1601	0.9206	0.2409
Be 313.042	0.0577	0.0484	0.0592
Ca 370.602	-3.417u	1.051	-2.174u
Cd 226.502	-0.1394u	0.2165	0.0509
Co 228.615	0.1609	-0.1659u	-0.3492u
Cr 267.716	0.2282	0.2649	0.2561
Cu 324.754	0.4268	0.3889	-0.1412u
Fe 271.441	0.3369	-0.5650u	-1.7116u
K 766.491	1.2704	1.7758	0.8022
Mg 279.078	4.4850	2.5191	-0.2888u
Mn 257.610	0.2207	0.2052	0.1592
Mo 202.032	0.5577	-0.2115u	0.3785
Na 330.237	-102.852u	0.0641	-7.3170u
Ni 231.604	0.6482	0.0628	1.1187
Pb 220.353	-3.0261u	-1.2300u	-0.4353u
Sb 206.834	-3.3852u	-2.2841u	-5.3966u
Se 196.026	1.0393	1.9699	6.5691
Sn 189.925	0.4890	1.2609	3.2331
Sr 216.596	-0.0121u	0.4294	0.4308
Ti 334.941	0.1387	0.1525	0.2090
Tl 190.794	1.7604	2.1442	3.3554
V 292.401	0.0231	0.1451	0.0201
Zn 206.200	0.2948	-0.1681u	-0.4277u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0339	ppb	0.0631	185.7	-20.4185	0.03395
Al 308.215	-2.4405	ppb	2.1102	86.5	-10.8901	-2.44050
As 188.980	-1.6574	ppb	2.7176	164.0	-11.0350	-1.65737
B 249.678	10.3346	ppb	1.5054	14.6	471.566	10.33461
Ba 389.178	0.4405	ppb	0.4177	94.8	6.0226	0.44054
Be 313.042	0.0551	ppb	0.0058	10.6	-208.346	0.05511
Ca 370.602	-1.513	ppb	2.306	152.4	7.713	-1.51345
Cd 226.502	0.0427	ppb	0.1781	417.1	33.3149	0.04270
Co 228.615	-0.1181	ppb	0.2584	218.9	10.5465	-0.11806
Cr 267.716	0.2497	ppb	0.0191	7.7	22.8863	0.24974
Cu 324.754	0.2248	ppb	0.3176	141.3	209.678	0.22480
Fe 271.441	-0.6465	ppb	1.0267	158.8	104.491	-0.64654
K 766.491	1.2828	ppb	0.4869	38.0	370.147	1.28279
Mg 279.078	2.2384	ppb	2.3993	107.2	39.5506	2.23844
Mn 257.610	0.1950	ppb	0.0320	16.4	119.676	0.19504
Mo 202.032	0.2416	ppb	0.4024	166.6	21.0975	0.24158
Na 330.237	-36.7018	ppb	57.4069	156.4	67.1146	-36.70177
Ni 231.604	0.6099	ppb	0.5290	86.7	-5.5363	0.60990
Pb 220.353	-1.5638	ppb	1.3273	84.9	32.2537	-1.56377
Sb 206.834	-3.6886	ppb	1.5783	42.8	16.9462	-3.68861
Se 196.026	3.1928	ppb	2.9608	92.7	7.1100	3.19278
Sn 189.925	1.6610	ppb	1.4152	85.2	-10.1399	1.66101
Sr 216.596	0.2827	ppb	0.2553	90.3	26.7495	0.28270
Ti 334.941	0.1667	ppb	0.0372	22.3	33.1159	0.16673
Tl 190.794	2.4200	ppb	0.8325	34.4	-15.1011	2.41999
V 292.401	0.0628	ppb	0.0713	113.7	-4.0514	0.06277
Zn 206.200	-0.1003	ppb	0.3650	364.8	-0.5198	-0.10033

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**CRI (CRI)** **5/1/2013, 12:30:41 PM** **Rack S, Tube 4**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3392	9.8841	10.2408
Al 308.215	211.813	207.159	208.301
As 188.980	17.7806	18.1995	21.6049
B 249.678	95.0933	93.4687	94.6900
Ba 389.178	10.4534	9.4283	10.2594
Be 313.042	4.2679	4.2123	4.2338
Ca 370.602	503.7	496.7	501.5
Cd 226.502	4.9872	5.3288	5.2863
Co 228.615	10.2846	10.1010	10.6532
Cr 267.716	10.6328	10.2974	10.3889
Cu 324.754	21.7848	21.4480	21.3480
Fe 271.441	51.6770	52.2137	49.1864
K 766.491	1034.44	1022.18	1029.17
Mg 279.078	515.260	505.494	502.203
Mn 257.610	11.2623	11.0740	11.2234
Mo 202.032	9.7326	9.9388	9.3961
Na 330.237	1077.02	996.716	928.250
Ni 231.604	42.7888	42.1127	41.7947
Pb 220.353	11.0403	5.9973	7.9458
Sb 206.834	15.6950	16.7884	17.6155
Se 196.026	27.2979	25.3545	20.5614
Sn 189.925	48.9682	47.4056	46.4222
Sr 216.596	10.1509	9.5356	9.8067
Ti 334.941	10.0691	9.9590	10.0912
Tl 190.794	30.5892	26.4976	27.2100
V 292.401	9.8302	9.7935	9.8095
Zn 206.200	20.4487	20.9552	19.7317

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.1547	ppb	0.2394	2.4	795.105	101.54694
Al 308.215	209.091	ppb	2.4254	1.2	632.801	104.54543
As 188.980	19.1950	ppb	2.0975	10.9	4.2107	95.97503
B 249.678	94.4173	ppb	0.8460	0.9	1583.76	94.41732
Ba 389.178	10.0470	ppb	0.5445	5.4	241.240	100.47047
Be 313.042	4.2380	ppb	0.0280	0.7	7851.42	105.95010
Ca 370.602	500.6	ppb	3.571	0.7	1672	100.12009
Cd 226.502	5.2007	ppb	0.1862	3.6	243.055	104.01485
Co 228.615	10.3463	ppb	0.2812	2.7	150.883	103.46304
Cr 267.716	10.4397	ppb	0.1734	1.7	562.549	104.39697
Cu 324.754	21.5269	ppb	0.2289	1.1	1422.80	107.63464
Fe 271.441	51.0257	ppb	1.6153	3.2	203.279	102.05131
K 766.491	1028.60	ppb	6.1503	0.6	41477.6	102.85951
Mg 279.078	507.652	ppb	6.7908	1.3	1214.00	101.53049
Mn 257.610	11.1866	ppb	0.0994	0.9	3063.05	111.86570
Mo 202.032	9.6892	ppb	0.2739	2.8	98.3498	96.89167
Na 330.237	1000.66	ppb	74.4622	7.4	121.832	100.06607
Ni 231.604	42.2321	ppb	0.5077	1.2	122.820	105.58017
Pb 220.353	8.3278	ppb	2.5431	30.5	52.9092	83.27778
Sb 206.834	16.6996	ppb	0.9634	5.8	38.9498	83.49808
Se 196.026	24.4046	ppb	3.4673	14.2	17.6515	122.02304R
Sn 189.925	47.5987	ppb	1.2839	2.7	36.7914	95.19736
Sr 216.596	9.8311	ppb	0.3083	3.1	148.582	98.31062
Ti 334.941	10.0398	ppb	0.0708	0.7	3164.82	100.39801
Tl 190.794	28.0989	ppb	2.1858	7.8	13.8020	112.39574
V 292.401	9.8111	ppb	0.0184	0.2	281.983	98.11059
Zn 206.200	20.3785	ppb	0.6148	3.0	32.5258	101.89269

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**Interf Check A (ICSA)                      5/1/2013, 12:36:07 PM                      Rack S, Tube 5**  
**Weight: 1                                      Volume: 1                                      Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0474u	-0.2952u	0.2749
Al 308.215	595845	598228	597550
As 188.980	-1.3838	-1.9482	2.0830
B 249.678	-21.6670u	-20.7786u	-22.0974u
Ba 389.178	-3.5150	-2.9575	-2.7466
Be 313.042	-0.2067u	-0.2000u	-0.2040u
Ca 370.602	532648	533356	533023
Cd 226.502	1.1317	0.7484	1.0448
Co 228.615	-0.8180u	0.2432u	0.1976u
Cr 267.716	0.9675	0.4624	0.4933
Cu 324.754	-0.3517	-0.0280	-0.1581
Fe 271.441	205318	205351	205554
K 766.491	3.1081	2.1850	2.4876
Mg 279.078	572246	571126	573168
Mn 257.610	0.5105	0.4016	0.4811
Mo 202.032	1.0545u	2.1387	0.7413u
Na 330.237	-212.049u	71.5217u	-235.450u
Ni 231.604	5.5130	3.9475	4.8013
Pb 220.353	6.9577	6.2784	5.0598
Sb 206.834	1.6161	-5.6650u	3.1438
Se 196.026	-4.9863u	-1.2752	1.8903
Sn 189.925	-5.0397u	-2.3332u	-2.4866u
Sr 216.596	10.1195	10.7922	9.9995
Ti 334.941	-0.5465	-0.5271	-0.5004
Tl 190.794	-3.5155u	-8.5462u	-5.9483u
V 292.401	1.7611	0.9241	1.9222
Zn 206.200	6.7562	8.8476	6.8714

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0226	ppb	0.2859	1266.7	-33.7065	-0.02257
Al 308.215	597208	ppb	1228.21	0.2	1815716	-
As 188.980	-0.4164	ppb	2.1828	524.2	-7.2805	-0.41638
B 249.678	-21.5143	ppb	0.6725	3.1	-219.820	-21.51433
Ba 389.178	-3.0731	ppb	0.3970	12.9	1799.21	-3.07306
Be 313.042	-0.2036	ppb	0.0033	1.6	-488.448	-0.20359
Ca 370.602	533009	ppb	353.9	0.1	1751230	-
Cd 226.502	0.9750	ppb	0.2010	20.6	785.377	0.97499
Co 228.615	-0.1257	ppb	0.6000	477.2	2.5887	-0.12573
Cr 267.716	0.6411	ppb	0.2831	44.2	103.101	0.64107
Cu 324.754	-0.1793	ppb	0.1629	90.9	255.700	-0.17929
Fe 271.441	205408	ppb	127.500	0.1	385325	-
K 766.491	2.5935	ppb	0.4706	18.1	422.597	2.59355
Mg 279.078	572180	ppb	1022.60	0.2	1329764	-
Mn 257.610	0.4644	ppb	0.0564	12.1	4710.97	0.46441
Mo 202.032	1.3115	ppb	0.7333	55.9	18.2698	1.31148
Na 330.237	-125.326	ppb	170.876	136.3	-1.0356	-125.32590
Ni 231.604	4.7539	ppb	0.7838	16.5	12.4773	4.75394
Pb 220.353	6.0986	ppb	0.9617	15.8	47.0972	6.09861
Sb 206.834	-0.3017	ppb	4.7071	1560.3	25.6284	-0.30168
Se 196.026	-1.4571	ppb	3.4419	236.2	6.0093	-1.45710
Sn 189.925	-3.2865	ppb	1.5203	46.3	-14.9261	-3.28651
Sr 216.596	10.3037	ppb	0.4272	4.1	320.826	10.30375
Ti 334.941	-0.5247	ppb	0.0232	4.4	2801.56	-0.52467
Tl 190.794	-6.0033	ppb	2.5158	41.9	-36.4517	-6.00334
V 292.401	1.5358	ppb	0.5358	34.9	42.8152	1.53580
Zn 206.200	7.4917	ppb	1.1756	15.7	34.5886	7.49172



**Interf Check AB (ICSAB) 5/1/2013, 12:41:33 PM Rack S, Tube 6**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	237.036	233.702	234.373
Al 308.215	588878	589382	588866
As 188.980	104.044	109.634	110.874
B 249.678	-25.1632u	-25.3433u	-25.9232u
Ba 389.178	545.622	543.454	543.208
Be 313.042	534.303	534.265	534.149
Ca 370.602	523104	529403	523917
Cd 226.502	1053.47	1052.80	1049.77
Co 228.615	526.629	523.322	525.165
Cr 267.716	540.194	539.441	539.488
Cu 324.754	595.520	599.881	596.173
Fe 271.441	202366	202616	202383
K 766.491	1.0078	0.7082	0.6231
Mg 279.078	567875	567688	568939
Mn 257.610	541.612	541.207	540.963
Mo 202.032	1137.10	1137.67	1135.75
Na 330.237	-214.261u	-126.903u	-254.441u
Ni 231.604	1026.02	1028.78	1023.52
Pb 220.353	60.1114	57.8541	57.1003
Sb 206.834	681.636	681.300	683.466
Se 196.026	55.1631	29.1943	41.8128
Sn 189.925	1083.77	1079.78	1078.88
Sr 216.596	13.6931	13.3534	13.8337
Ti 334.941	-6.9961	-7.0687	-7.1413
Tl 190.794	93.5214	99.0367	92.1396
V 292.401	521.660	522.575	522.142
Zn 206.200	1016.59	1015.16	1013.06

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	235.037	ppb	1.7633	0.8	18921.2	117.51854
Al 308.215	589042	ppb	294.369	0.0	1790964	117.80840
As 188.980	108.184	ppb	3.6386	3.4	71.7204	108.18388
B 249.678	-25.4766	ppb	0.3971	1.6	-268.555	-
Ba 389.178	544.095	ppb	1.3283	0.2	15100.6	108.81892
Be 313.042	534.239	ppb	0.0802	0.0	1029331	106.84785
Ca 370.602	525475	ppb	3426	0.7	1726487	105.09496
Cd 226.502	1052.01	ppb	1.9710	0.2	43477.2	105.20119
Co 228.615	525.039	ppb	1.6573	0.3	7005.69	105.00777
Cr 267.716	539.708	ppb	0.4221	0.1	28639.9	107.94151
Cu 324.754	597.191	ppb	2.3520	0.4	34298.2	119.43822
Fe 271.441	202455	ppb	139.711	0.1	379883	101.22746
K 766.491	0.7797	ppb	0.2021	25.9	350.017	-
Mg 279.078	568167	ppb	674.585	0.1	1320430	113.63346
Mn 257.610	541.261	ppb	0.3277	0.1	149315	108.25218
Mo 202.032	1136.84	ppb	0.9862	0.1	9305.29	113.68386
Na 330.237	-198.535	ppb	65.2074	32.8	-11.7313	-
Ni 231.604	1026.11	ppb	2.6283	0.3	3162.07	102.61088
Pb 220.353	58.3553	ppb	1.5669	2.7	154.402	116.71059
Sb 206.834	682.134	ppb	1.1659	0.2	755.308	113.68896
Se 196.026	42.0567	ppb	12.9861	30.9	27.7456	84.11349
Sn 189.925	1080.81	ppb	2.6006	0.2	1092.60	108.08093
Sr 216.596	13.6267	ppb	0.2470	1.8	291.603	-
Ti 334.941	-7.0687	ppb	0.0726	1.0	705.122	-
Tl 190.794	94.8992	ppb	3.6491	3.8	76.4904	94.89922
V 292.401	522.125	ppb	0.4577	0.1	15175.2	104.42505
Zn 206.200	1014.94	ppb	1.743	0.2	1659.53	101.49362

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/1/2013, 12:46:58 PM Rack 1, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	521.271	515.736	521.897
Al 308.215	5056.04	5064.17	5106.43
As 188.980	510.400	510.017	519.609
B 249.678	503.518	507.105	510.741
Ba 389.178	5283.66	5281.95	5288.74
Be 313.042	531.687	531.158	532.167
Ca 370.602	5189	5192	5210
Cd 226.502	534.418	534.262	535.565
Co 228.615	537.785	538.345	540.125
Cr 267.716	5325.64	5317.11	5330.56
Cu 324.754	5336.77	5310.81	5328.27
Fe 271.441	5122.99	5130.19	5148.65
K 766.491	10530.8	10509.5	10506.5
Mg 279.078	5122.25	5132.69	5152.32
Mn 257.610	5422.16	5408.38	5417.97
Mo 202.032	516.860	519.301	519.885
Na 330.237	7592.13	7355.70	7332.11
Ni 231.604	2637.18	2636.93	2636.96
Pb 220.353	505.674	505.223	508.511
Sb 206.834	966.989	976.487	985.077
Se 196.026	5088.02	5085.50	5095.82
Sn 189.925	5158.24	5205.46	5204.98
Sr 216.596	2593.34	2591.97	2605.30
Ti 334.941	511.711	510.930	511.230
Tl 190.794	5162.85	5189.52	5193.27
V 292.401	5131.05	5122.39	5133.65
Zn 206.200	2653.03	2663.94	2677.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	519.634	ppb	3.3908	0.7	41800.2	103.92690
Al 308.215	5075.55	ppb	27.0485	0.5	15415.9	101.51096
As 188.980	513.342	ppb	5.4309	1.1	365.286	102.66840
B 249.678	507.121	ppb	3.6115	0.7	7036.28	20.28486Q
Ba 389.178	5284.78	ppb	3.5295	0.1	128585	105.69566
Be 313.042	531.671	ppb	0.5044	0.1	1024091	106.33415
Ca 370.602	5197	ppb	10.90	0.2	17124	103.94085
Cd 226.502	534.748	ppb	0.7118	0.1	21775.3	106.94969
Co 228.615	538.752	ppb	1.2222	0.2	7251.49	107.75032
Cr 267.716	5324.44	ppb	6.8089	0.1	281987	106.48877
Cu 324.754	5325.28	ppb	13.2325	0.2	303374	106.50568
Fe 271.441	5133.94	ppb	13.2311	0.3	9878.26	102.67889
K 766.491	10515.6	ppb	13.2367	0.1	421096	105.15617
Mg 279.078	5135.76	ppb	15.2700	0.3	11874.7	102.71511
Mn 257.610	5416.17	ppb	7.0622	0.1	1448726	108.32334
Mo 202.032	518.682	ppb	1.6050	0.3	4250.44	103.73643
Na 330.237	7426.65	ppb	143.794	1.9	436.512	99.02197
Ni 231.604	2637.02	ppb	0.1349	0.0	8124.78	105.48085
Pb 220.353	506.470	ppb	1.7823	0.4	1094.39	101.29392
Sb 206.834	976.185	ppb	9.0479	0.9	1128.05	97.61845
Se 196.026	5089.78	ppb	5.3779	0.1	2535.59	101.79558
Sn 189.925	5189.56	ppb	27.1223	0.5	5289.90	103.79119
Sr 216.596	2596.87	ppb	7.3323	0.3	33399.2	103.87485
Ti 334.941	511.291	ppb	0.3942	0.1	162056	102.25811
Tl 190.794	5181.88	ppb	16.5885	0.3	5811.23	103.63760
V 292.401	5129.03	ppb	5.8956	0.1	151341	102.58056
Zn 206.200	2664.91	ppb	12.3934	0.5	4287.03	106.59636

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB) 5/1/2013, 12:52:33 PM Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0116u	-0.1411u	-0.2379u
Al 308.215	-0.0094u	1.1555	1.8353
As 188.980	-5.5348u	-3.3029u	1.5275
B 249.678	-5.9067u	-6.1893u	-7.0399u
Ba 389.178	-0.2951u	0.2853	-0.1263u
Be 313.042	-0.0357u	-0.0379u	-0.0352u
Ca 370.602	3.739	1.832	2.041
Cd 226.502	0.0668	-0.1435u	-0.3139u
Co 228.615	-0.2291u	-0.2978u	0.2197
Cr 267.716	9.2370	9.1981	9.0612
Cu 324.754	1.2444	1.4918	1.4033
Fe 271.441	42.9956	35.1493	40.6547
K 766.491	-1.2757u	-1.0276u	-0.2874u
Mg 279.078	5.2286	-0.1862u	0.9605
Mn 257.610	0.2872	0.2844	0.3265
Mo 202.032	-0.0161u	-0.0700u	-0.1849u
Na 330.237	-80.0153u	-56.4767u	-98.9853u
Ni 231.604	4.9153	4.8681	4.8670
Pb 220.353	-2.5429u	-1.8896u	-0.5122u
Sb 206.834	-6.5955u	1.4593	-3.0625u
Se 196.026	1.7080	2.2531	13.3423
Sn 189.925	-0.9568u	-1.3718u	2.4106
Sr 216.596	-0.6523u	-0.1673u	-0.4605u
Ti 334.941	-0.0231u	-0.0748u	-0.0136u
Tl 190.794	1.5084	1.0520	-0.2740u
V 292.401	-0.0329u	0.2515	-0.1278u
Zn 206.200	0.6620	0.7831	-0.5490u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1302	ppb	0.1135	87.2	-33.6137	-0.13022
Al 308.215	0.9938	ppb	0.9329	93.9	-0.4811	0.99381
As 188.980	-2.4367	ppb	3.6099	148.1	-11.6051	-2.43673
B 249.678	-6.3786	ppb	0.5898	9.2	250.427	-6.37863
Ba 389.178	-0.0454	ppb	0.2985	658.1	-5.7399	-0.04536
Be 313.042	-0.0362	ppb	0.0014	4.0	-384.331	-0.03624
Ca 370.602	2.538	ppb	1.046	41.2	17.63	2.53750
Cd 226.502	-0.1302	ppb	0.1907	146.5	26.4320	-0.13021
Co 228.615	-0.1024	ppb	0.2811	274.4	10.8020	-0.10242
Cr 267.716	9.1654	ppb	0.0924	1.0	495.120	9.16543Z
Cu 324.754	1.3798	ppb	0.1254	9.1	275.444	1.37984
Fe 271.441	39.5998	ppb	4.0281	10.2	179.988	39.59985Z
K 766.491	-0.8636	ppb	0.5142	59.5	284.260	-0.86361
Mg 279.078	2.0009	ppb	2.8534	142.6	39.0038	2.00094
Mn 257.610	0.2994	ppb	0.0236	7.9	147.703	0.29935
Mo 202.032	-0.0903	ppb	0.0862	95.4	18.3806	-0.09032
Na 330.237	-78.4926	ppb	21.2951	27.1	64.8849	-78.49255
Ni 231.604	4.8835	ppb	0.0276	0.6	7.6435	4.88345
Pb 220.353	-1.6483	ppb	1.0366	62.9	32.0780	-1.64826
Sb 206.834	-2.7329	ppb	4.0375	147.7	18.0779	-2.73288
Se 196.026	5.7678	ppb	6.5654	113.8	8.3896	5.76782
Sn 189.925	0.0273	ppb	2.0744	7589.8	-11.8089	0.02733
Sr 216.596	-0.4267	ppb	0.2442	57.2	17.5648	-0.42671
Ti 334.941	-0.0372	ppb	0.0330	88.7	-31.5095	-0.03717
Tl 190.794	0.7621	ppb	0.9259	121.5	-16.9704	0.76213
V 292.401	0.0303	ppb	0.1974	652.1	-5.5078	0.03026
Zn 206.200	0.2987	ppb	0.7366	246.8	40.1009	0.29870

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

CCV (Samp)	5/1/2013, 1:04:10 PM			Rack 1, Tube 1
Weight: 1	Volume: 1			Dilution: 1
Label	Replicates Concentration			
Ag 328.068	523.368	519.201	517.758	
Al 308.215	5079.44	5139.25	5060.85	
As 188.980	505.193	518.858	499.401	
B 249.678	499.181	504.997	504.860	
Ba 389.178	5263.90	5297.72	5254.28	
Be 313.042	530.988	533.314	530.341	
Ca 370.602	5173	5205	5163	
Cd 226.502	528.666	533.646	528.835	
Co 228.615	535.352	539.432	537.412	
Cr 267.716	5277.78	5318.93	5272.97	
Cu 324.754	5333.60	5269.66	5317.54	
Fe 271.441	5095.38	5132.82	5095.93	
K 766.491	10485.4	10562.3	10520.5	
Mg 279.078	5104.67	5133.44	5091.83	
Mn 257.610	5380.71	5429.86	5376.01	
Mo 202.032	511.606	518.709	513.186	
Na 330.237	7404.91	7490.02	7534.83	
Ni 231.604	2613.87	2617.54	2606.95	
Pb 220.353	497.437	504.346	506.816	
Sb 206.834	968.796	976.219	966.681	
Se 196.026	5028.94	5061.50	5062.02	
Sn 189.925	5179.85	5153.11	5167.87	
Sr 216.596	2573.58	2594.52	2569.15	
Ti 334.941	508.633	512.786	508.484	
Tl 190.794	5133.35	5167.64	5129.69	
V 292.401	5100.52	5142.10	5102.96	
Zn 206.200	2640.30	2667.07	2629.95	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	520.109	ppb	2.9132	0.6	41839.7
Al 308.215	5093.18	ppb	40.9663	0.8	15469.3
As 188.980	507.817	ppb	9.9902	2.0	361.249
B 249.678	503.013	ppb	3.3193	0.7	6981.97
Ba 389.178	5271.97	ppb	22.8160	0.4	128273
Be 313.042	531.548	ppb	1.5636	0.3	1023855
Ca 370.602	5180	ppb	22.08	0.4	17071
Cd 226.502	530.382	ppb	2.8275	0.5	21597.8
Co 228.615	537.399	ppb	2.0403	0.4	7233.40
Cr 267.716	5289.89	ppb	25.2600	0.5	280157
Cu 324.754	5306.93	ppb	33.2680	0.6	302329
Fe 271.441	5108.04	ppb	21.4594	0.4	9829.26
K 766.491	10522.7	ppb	38.5166	0.4	421380
Mg 279.078	5109.98	ppb	21.3101	0.4	11815.2
Mn 257.610	5395.52	ppb	29.8261	0.6	1443205
Mo 202.032	514.500	ppb	3.7293	0.7	4216.27
Na 330.237	7476.59	ppb	65.9928	0.9	439.336
Ni 231.604	2612.78	ppb	5.3804	0.2	8050.04
Pb 220.353	502.866	ppb	4.8614	1.0	1086.86
Sb 206.834	970.565	ppb	5.0090	0.5	1121.69
Se 196.026	5050.82	ppb	18.9521	0.4	2516.23
Sn 189.925	5166.94	ppb	13.3950	0.3	5266.79
Sr 216.596	2579.08	ppb	13.5521	0.5	33170.9
Ti 334.941	509.968	ppb	2.4420	0.5	161637
Tl 190.794	5143.56	ppb	20.9357	0.4	5768.11
V 292.401	5115.19	ppb	23.3346	0.5	150935
Zn 206.200	2645.77	ppb	19.1543	0.7	4256.23

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

CCB (Samp)	5/1/2013, 1:09:33 PM		Rack 1, Tube 2
Weight: 1	Volume: 1		Dilution: 1
Label	Replicates Concentration		
Ag 328.068	-0.2071u	0.1531	0.1980
Al 308.215	-3.3261u	-4.1813u	-3.2340u
As 188.980	-3.2203u	0.1481	-3.9059u
B 249.678	-5.6145u	-6.7133u	-7.2724u
Ba 389.178	0.1146	0.0363	-0.9874u
Be 313.042	-0.0258u	-0.0158u	-0.0350u
Ca 370.602	-0.7241u	2.381	-1.399u
Cd 226.502	0.0669	-0.1880u	-0.3055u
Co 228.615	0.0865	-0.8033u	-0.8250u
Cr 267.716	0.1588	0.0122	0.1056
Cu 324.754	0.8199	0.3956	0.0325
Fe 271.441	1.7858	1.1872	0.9808
K 766.491	-0.2827u	-1.0090u	-0.1242u
Mg 279.078	3.1720	-1.2734u	4.1443
Mn 257.610	0.1204	0.0737	0.0853
Mo 202.032	-0.2217u	-0.2732u	0.1360
Na 330.237	23.3592	148.251	171.569
Ni 231.604	-0.4824u	0.8943	0.2275
Pb 220.353	-1.4347u	-1.9564u	0.6546
Sb 206.834	1.2168	4.5256	2.7352
Se 196.026	3.1543	8.9545	5.4759
Sn 189.925	0.2439	-1.6660u	-1.1084u
Sr 216.596	-0.7216u	-0.4311u	-0.4431u
Ti 334.941	0.0021	-0.0247u	-0.0897u
Tl 190.794	2.9949	0.2021	-1.7125u
V 292.401	0.1370	0.1931	-0.0367u
Zn 206.200	-0.5080u	0.8312	0.9210

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0480	ppb	0.2220	462.6	-19.2470
Al 308.215	-3.5805	ppb	0.5224	14.6	-14.3804
As 188.980	-2.3260	ppb	2.1699	93.3	-11.5238
B 249.678	-6.5334	ppb	0.8434	12.9	248.431
Ba 389.178	-0.2788	ppb	0.6149	220.5	-11.4754
Be 313.042	-0.0255	ppb	0.0096	37.6	-363.743
Ca 370.602	0.0858	ppb	2.016	2349.5	12.75
Cd 226.502	-0.1422	ppb	0.1904	133.9	25.8120
Co 228.615	-0.5139	ppb	0.5201	101.2	5.2440
Cr 267.716	0.0922	ppb	0.0742	80.5	14.5468
Cu 324.754	0.4160	ppb	0.3941	94.7	220.554
Fe 271.441	1.3179	ppb	0.4181	31.7	108.104
K 766.491	-0.4720	ppb	0.4718	100.0	299.931
Mg 279.078	2.0143	ppb	2.8885	143.4	39.0317
Mn 257.610	0.0932	ppb	0.0243	26.1	92.4291
Mo 202.032	-0.1196	ppb	0.2229	186.3	18.1428
Na 330.237	114.393	ppb	79.6950	69.7	75.1170
Ni 231.604	0.2131	ppb	0.6885	323.0	-6.7598
Pb 220.353	-0.9122	ppb	1.3817	151.5	33.6167
Sb 206.834	2.8259	ppb	1.6563	58.6	23.9734
Se 196.026	5.8616	ppb	2.9193	49.8	8.4359
Sn 189.925	-0.8435	ppb	0.9821	116.4	-12.6985
Sr 216.596	-0.5319	ppb	0.1644	30.9	16.2816
Ti 334.941	-0.0374	ppb	0.0472	126.0	-31.6059
Tl 190.794	0.4949	ppb	2.3673	478.4	-17.2691
V 292.401	0.0978	ppb	0.1198	122.5	-2.9366
Zn 206.200	0.4147	ppb	0.8994	193.0	0.3128

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

IDL (Samp)	5/1/2013, 1:14:57 PM	Rack 1, Tube 3	
Weight: 1	Volume: 1	Dilution: 1	
Label	Replicates Concentration		
Ag 328.068	-0.0805u	-0.1834u	0.0982
Al 308.215	0.5821	-1.1206u	-1.7505u
As 188.980	-2.3643u	-0.2799u	-1.8365u
B 249.678	-12.0043u	-13.2489u	-12.3961u
Ba 389.178	-0.0459u	0.3288	-0.1467u
Be 313.042	-0.0433u	-0.0352u	-0.0469u
Ca 370.602	0.7884	0.4570	1.561
Cd 226.502	-0.0354u	-0.0947u	-0.0296u
Co 228.615	-0.3656u	-0.4266u	-0.1778u
Cr 267.716	0.1683	-0.0773u	-0.0951u
Cu 324.754	0.5639	-0.1014u	0.4421
Fe 271.441	5.7104	-1.2598u	5.5704
K 766.491	-0.8433u	-0.4521u	-0.6991u
Mg 279.078	5.7658	2.9677	0.2764
Mn 257.610	-0.0093u	-0.0124u	-0.0093u
Mo 202.032	-0.8113u	-0.1737u	-0.5742u
Na 330.237	11.1225	-17.1030u	-4.3387u
Ni 231.604	0.4127	0.5610	0.6646
Pb 220.353	-2.0130u	-0.7500u	-0.4728u
Sb 206.834	-3.6773u	-2.6561u	-2.2680u
Se 196.026	9.5039	-4.6840u	-0.2821u
Sn 189.925	1.9374	0.6137	-0.1794u
Sr 216.596	-0.4835u	0.0742	-0.2229u
Ti 334.941	-0.1372u	-0.0575u	-0.1160u
Tl 190.794	1.8659	-0.5982u	-1.2523u
V 292.401	0.3079	0.0297	-0.1144u
Zn 206.200	0.6157	0.5609	0.1961

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0552	ppb	0.1425	258.1	-27.5702
Al 308.215	-0.7630	ppb	1.2067	158.2	-5.8413
As 188.980	-1.4936	ppb	1.0837	72.6	-10.9151
B 249.678	-12.5498	ppb	0.6364	5.1	168.844
Ba 389.178	0.0454	ppb	0.2505	551.9	-3.5885
Be 313.042	-0.0418	ppb	0.0060	14.3	-395.014
Ca 370.602	0.9356	ppb	0.5667	60.6	15.51
Cd 226.502	-0.0532	ppb	0.0360	67.6	29.4288
Co 228.615	-0.3233	ppb	0.1296	40.1	7.8127
Cr 267.716	-0.0013	ppb	0.1472	11051.7	9.5884
Cu 324.754	0.3015	ppb	0.3542	117.5	214.025
Fe 271.441	3.3403	ppb	3.9844	119.3	111.931
K 766.491	-0.6648	ppb	0.1978	29.8	292.214
Mg 279.078	3.0033	ppb	2.7449	91.4	41.3319
Mn 257.610	-0.0103	ppb	0.0018	16.9	64.7551
Mo 202.032	-0.5197	ppb	0.3223	62.0	14.8703
Na 330.237	-3.4397	ppb	14.1342	410.9	68.8749
Ni 231.604	0.5461	ppb	0.1266	23.2	-5.7330
Pb 220.353	-1.0786	ppb	0.8210	76.1	33.2693
Sb 206.834	-2.8671	ppb	0.7279	25.4	17.8393
Se 196.026	1.5126	ppb	7.2622	480.1	6.2753
Sn 189.925	0.7906	ppb	1.0694	135.3	-11.0292
Sr 216.596	-0.2107	ppb	0.2790	132.4	20.4289
Ti 334.941	-0.1036	ppb	0.0412	39.8	-52.5495
Tl 190.794	0.0051	ppb	1.6443	32068.8	-17.8201
V 292.401	0.0744	ppb	0.2147	288.5	-3.5397
Zn 206.200	0.4576	ppb	0.2281	49.8	0.3823

**IDL (Samp)** **5/1/2013, 1:20:22 PM** **Rack 1, Tube 4**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0368u	-0.1814u	0.2536
Al 308.215	-5.1563u	0.2053	-3.6550u
As 188.980	-3.7200u	-3.4386u	-2.9486u
B 249.678	-14.4674u	-14.3593u	-14.2661u
Ba 389.178	-0.1450u	0.0575	0.2056
Be 313.042	-0.0521u	-0.0434u	-0.0439u
Ca 370.602	1.396	0.8759	4.674
Cd 226.502	-0.0266u	0.0090	-0.1194u
Co 228.615	-0.0068u	-0.3704u	-0.3149u
Cr 267.716	0.0661	-0.1076u	-0.0537u
Cu 324.754	-0.0948u	-0.0483u	-0.1998u
Fe 271.441	-4.3588u	3.9325	0.3863
K 766.491	-0.8246u	-1.1366u	-1.1317u
Mg 279.078	5.6733	-1.4642u	0.3572
Mn 257.610	-0.1131u	-0.1421u	-0.1385u
Mo 202.032	-0.4073u	-0.5364u	-0.5536u
Na 330.237	56.1291	111.756	3.1945
Ni 231.604	0.1499	-0.5394u	0.1380
Pb 220.353	-0.8347u	0.6603	-0.4482u
Sb 206.834	-4.7948u	-2.3235u	-3.9128u
Se 196.026	0.1304	5.9251	6.9980
Sn 189.925	-0.3667u	-5.7957u	-3.5918u
Sr 216.596	-0.3603u	-0.6584u	-0.6386u
Ti 334.941	-0.0940u	-0.0699u	-0.1076u
Tl 190.794	0.4782	-0.8712u	1.8932
V 292.401	-0.0950u	-0.0064u	-0.0968u
Zn 206.200	-0.9384u	-0.0195u	0.5199

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0118	ppb	0.2215	1877.7	-22.1688
Al 308.215	-2.8687	ppb	2.7660	96.4	-12.2283
As 188.980	-3.3691	ppb	0.3904	11.6	-12.2862
B 249.678	-14.3643	ppb	0.1008	0.7	144.845
Ba 389.178	0.0394	ppb	0.1760	447.2	-3.7417
Be 313.042	-0.0465	ppb	0.0049	10.6	-404.054
Ca 370.602	2.315	ppb	2.059	88.9	20.27
Cd 226.502	-0.0457	ppb	0.0663	145.1	29.7270
Co 228.615	-0.2307	ppb	0.1959	84.9	9.0511
Cr 267.716	-0.0318	ppb	0.0889	280.0	7.9788
Cu 324.754	-0.1143	ppb	0.0776	67.9	190.356
Fe 271.441	-0.0133	ppb	4.1601	31267.6	105.655
K 766.491	-1.0310	ppb	0.1787	17.3	277.563
Mg 279.078	1.5221	ppb	3.7086	243.6	37.8912
Mn 257.610	-0.1312	ppb	0.0158	12.1	32.4062
Mo 202.032	-0.4991	ppb	0.0799	16.0	15.0393
Na 330.237	57.0264	ppb	54.2862	95.2	72.0831
Ni 231.604	-0.0838	ppb	0.3946	470.7	-7.6756
Pb 220.353	-0.2075	ppb	0.7760	373.9	35.0901
Sb 206.834	-3.6770	ppb	1.2524	34.1	16.9619
Se 196.026	4.3512	ppb	3.6944	84.9	7.6855
Sn 189.925	-3.2514	ppb	2.7304	84.0	-15.1585
Sr 216.596	-0.5524	ppb	0.1667	30.2	16.0308
Ti 334.941	-0.0905	ppb	0.0191	21.1	-48.4266
Tl 190.794	0.5001	ppb	1.3823	276.4	-17.2626
V 292.401	-0.0661	ppb	0.0517	78.3	-7.7376
Zn 206.200	-0.1460	ppb	0.7374	505.8	-0.5926

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

IDL (Samp)	5/1/2013, 1:25:46 PM	Rack 1, Tube 5	
Weight: 1	Volume: 1	Dilution: 1	
Label	Replicates Concentration		
Ag 328.068	0.0933	-0.0773u	-0.5574u
Al 308.215	-1.6841u	-0.7695u	-3.3257u
As 188.980	-2.1935u	-4.4176u	-7.8546u
B 249.678	-15.2346u	-15.2905u	-15.1968u
Ba 389.178	0.6759	0.1398	0.1466
Be 313.042	-0.0374u	-0.0526u	-0.0413u
Ca 370.602	-0.2115u	3.017	2.319
Cd 226.502	0.0857	-0.0371u	0.0474
Co 228.615	-0.3118u	-0.3840u	0.1946
Cr 267.716	-0.0978u	0.0636	0.1742
Cu 324.754	-0.0902u	-0.3148u	-0.3742u
Fe 271.441	0.6622	7.3176	-1.7598u
K 766.491	-0.5485u	-1.1181u	-1.5866u
Mg 279.078	0.6207	-1.8028u	-1.6612u
Mn 257.610	-0.1559u	-0.1694u	-0.1277u
Mo 202.032	-0.6492u	-1.0168u	-0.3370u
Na 330.237	-201.718u	138.372	92.2278
Ni 231.604	0.4721	1.0556	0.9115
Pb 220.353	-2.4970u	0.4890	-1.2288u
Sb 206.834	-5.1669u	-7.7151u	-2.0832u
Se 196.026	4.4799	2.7215	7.1497
Sn 189.925	-0.9517u	-3.5585u	-2.6589u
Sr 216.596	-0.4853u	-0.2120u	-0.8401u
Ti 334.941	-0.1578u	-0.0728u	-0.0848u
Tl 190.794	2.1767	2.1573	-2.8173u
V 292.401	-0.0821u	-0.3257u	-0.1900u
Zn 206.200	0.3131	0.1889	-0.7469u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1805	ppb	0.3374	186.9	-37.6658
Al 308.215	-1.9264	ppb	1.2952	67.2	-9.3861
As 188.980	-4.8219	ppb	2.8521	59.1	-13.3482
B 249.678	-15.2406	ppb	0.0471	0.3	133.249
Ba 389.178	0.3208	ppb	0.3076	95.9	3.0986
Be 313.042	-0.0438	ppb	0.0079	18.0	-398.773
Ca 370.602	1.708	ppb	1.699	99.4	18.05
Cd 226.502	0.0320	ppb	0.0628	196.3	32.8926
Co 228.615	-0.1671	ppb	0.3153	188.7	9.9172
Cr 267.716	0.0467	ppb	0.1368	293.1	12.1326
Cu 324.754	-0.2598	ppb	0.1498	57.7	182.064
Fe 271.441	2.0733	ppb	4.7003	226.7	109.578
K 766.491	-1.0844	ppb	0.5199	47.9	275.426
Mg 279.078	-0.9478	ppb	1.3601	143.5	32.1518
Mn 257.610	-0.1510	ppb	0.0213	14.1	27.1072
Mo 202.032	-0.6677	ppb	0.3403	51.0	13.6606
Na 330.237	9.6271	ppb	184.479	1916.3	69.5707
Ni 231.604	0.8131	ppb	0.3040	37.4	-4.9097
Pb 220.353	-1.0790	ppb	1.4986	138.9	33.2688
Sb 206.834	-4.9884	ppb	2.8202	56.5	15.5539
Se 196.026	4.7837	ppb	2.2297	46.6	7.9004
Sn 189.925	-2.3897	ppb	1.3241	55.4	-14.2782
Sr 216.596	-0.5125	ppb	0.3149	61.4	16.5442
Ti 334.941	-0.1051	ppb	0.0460	43.7	-53.0784
Tl 190.794	0.5056	ppb	2.8777	569.2	-17.2563
V 292.401	-0.1993	ppb	0.1221	61.2	-11.6143
Zn 206.200	-0.0816	ppb	0.5795	710.1	-0.4886



E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

IDL (Samp)	5/1/2013, 1:31:11 PM			Rack 1, Tube 6
Weight: 1	Volume: 1			Dilution: 1
Label	Replicates Concentration			
Ag 328.068	0.1198	0.2377	-0.2299u	
Al 308.215	-1.5325u	-2.3023u	0.2341	
As 188.980	-2.0731u	-2.1741u	-2.7793u	
B 249.678	-16.5255u	-15.6641u	-16.2263u	
Ba 389.178	-0.5221u	-0.0250u	-0.7823u	
Be 313.042	-0.0474u	-0.0481u	-0.0498u	
Ca 370.602	1.301	-0.1343u	4.049	
Cd 226.502	-0.0894u	0.0887	-0.0921u	
Co 228.615	-0.3644u	-0.7713u	-0.5152u	
Cr 267.716	-0.2773u	-0.1024u	-0.1513u	
Cu 324.754	-0.1756u	-0.0090u	-0.0452u	
Fe 271.441	0.3508	-1.3514u	5.8062	
K 766.491	-0.8309u	-1.7279u	-1.6886u	
Mg 279.078	2.5276	-1.1703u	1.8008	
Mn 257.610	-0.1386u	-0.0905u	-0.1189u	
Mo 202.032	-0.3945u	-0.4796u	-0.3227u	
Na 330.237	41.2604	-100.043u	-3.1716u	
Ni 231.604	1.0591	0.8644	0.5230	
Pb 220.353	1.0131	-0.2934u	-1.5934u	
Sb 206.834	-1.9312u	-4.2203u	-4.1236u	
Se 196.026	5.9382	-0.3707u	-2.9604u	
Sn 189.925	-0.3037u	-0.8511u	-0.1339u	
Sr 216.596	-0.0520u	0.0064	-0.4139u	
Ti 334.941	-0.1052u	-0.0743u	-0.1598u	
Tl 190.794	2.3141	0.1005	1.7917	
V 292.401	-0.1341u	-0.0021	-0.1913u	
Zn 206.200	-0.4411u	-1.0152u	-0.5608u	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0426	ppb	0.2432	571.3	-19.7034
Al 308.215	-1.2002	ppb	1.3004	108.4	-7.1668
As 188.980	-2.3422	ppb	0.3819	16.3	-11.5354
B 249.678	-16.1386	ppb	0.4373	2.7	121.375
Ba 389.178	-0.4431	ppb	0.3848	86.8	-15.4826
Be 313.042	-0.0484	ppb	0.0012	2.5	-407.803
Ca 370.602	1.738	ppb	2.126	122.3	18.46
Cd 226.502	-0.0309	ppb	0.1037	335.0	30.3218
Co 228.615	-0.5503	ppb	0.2057	37.4	4.7666
Cr 267.716	-0.1770	ppb	0.0902	51.0	0.2851
Cu 324.754	-0.0766	ppb	0.0876	114.4	192.496
Fe 271.441	1.6019	ppb	3.7392	233.4	108.629
K 766.491	-1.4158	ppb	0.5069	35.8	262.163
Mg 279.078	1.0527	ppb	1.9592	186.1	36.7996
Mn 257.610	-0.1160	ppb	0.0242	20.8	36.4640
Mo 202.032	-0.3989	ppb	0.0785	19.7	15.8587
Na 330.237	-20.6512	ppb	72.2551	349.9	67.9708
Ni 231.604	0.8155	ppb	0.2714	33.3	-4.9023
Pb 220.353	-0.2913	ppb	1.3032	447.4	34.9155
Sb 206.834	-3.4251	ppb	1.2946	37.8	17.2349
Se 196.026	0.8691	ppb	4.5770	526.7	5.9555
Sn 189.925	-0.4296	ppb	0.3748	87.3	-12.2757
Sr 216.596	-0.1532	ppb	0.2277	148.6	21.1651
Ti 334.941	-0.1131	ppb	0.0433	38.3	-55.5928
Tl 190.794	1.4021	ppb	1.1571	82.5	-16.2469
V 292.401	-0.1092	ppb	0.0970	88.9	-8.9690
Zn 206.200	-0.6724	ppb	0.3029	271.8	-1.4423

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

IDL (Samp) 5/1/2013, 1:37:01 PM Rack 1, Tube 7

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0039u	0.0595	-0.0884u
Al 308.215	-1.6701u	-0.3466u	-1.9619u
As 188.980	-3.1222u	-2.5683u	-0.3774u
B 249.678	-16.7154u	-16.2734u	-16.7670u
Ba 389.178	-0.6250u	0.7419	0.5316
Be 313.042	-0.0520u	-0.0571u	-0.0434u
Ca 370.602	-1.694u	1.137	0.3663
Cd 226.502	-0.1474u	0.0177	0.0465
Co 228.615	-0.1407u	-0.4621u	-0.2907u
Cr 267.716	0.0450	-0.3297u	-0.0964u
Cu 324.754	0.4401	-0.3521u	-0.2738u
Fe 271.441	-6.3877u	0.5635	0.8819
K 766.491	-0.6538u	-0.9091u	-1.4443u
Mg 279.078	-1.1708u	2.8066	-0.3265u
Mn 257.610	-0.0936u	-0.1451u	-0.1301u
Mo 202.032	-0.2150u	-0.5020u	-0.5587u
Na 330.237	-2.1864u	87.4716	-8.0842u
Ni 231.604	0.4325	1.0177	0.5596
Pb 220.353	0.3023	1.2359	-2.7004u
Sb 206.834	-6.0006u	-6.5178u	-2.7683u
Se 196.026	1.5233	3.8324	0.2280
Sn 189.925	-0.6684u	-0.7060u	-0.9106u
Sr 216.596	-0.6672u	-0.5143u	-0.6669u
Ti 334.941	-0.1406u	-0.0968u	-0.0910u
Tl 190.794	-0.2337u	2.9823	0.3811
V 292.401	-0.2185u	-0.1920u	-0.2133u
Zn 206.200	-1.3014u	-0.7398u	0.0675

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0110	ppb	0.0742	677.5	-24.0006
Al 308.215	-1.3262	ppb	0.8608	64.9	-7.5482
As 188.980	-2.0226	ppb	1.4515	71.8	-11.3018
B 249.678	-16.5853	ppb	0.2713	1.6	115.467
Ba 389.178	0.2161	ppb	0.7360	340.5	0.5551
Be 313.042	-0.0508	ppb	0.0069	13.6	-412.432
Ca 370.602	-0.0636	ppb	1.463	2302.1	12.47
Cd 226.502	-0.0278	ppb	0.1046	376.8	30.4513
Co 228.615	-0.2978	ppb	0.1608	54.0	8.1535
Cr 267.716	-0.1270	ppb	0.1892	149.0	2.9356
Cu 324.754	-0.0619	ppb	0.4365	705.1	193.334
Fe 271.441	-1.6475	ppb	4.1082	249.4	102.579
K 766.491	-1.0024	ppb	0.4034	40.2	278.706
Mg 279.078	0.4364	ppb	2.0956	480.2	35.3677
Mn 257.610	-0.1230	ppb	0.0265	21.5	34.6124
Mo 202.032	-0.4252	ppb	0.1843	43.3	15.6441
Na 330.237	25.7338	ppb	53.5479	208.1	70.4278
Ni 231.604	0.6699	ppb	0.3078	45.9	-5.3512
Pb 220.353	-0.3874	ppb	2.0568	530.9	34.7143
Sb 206.834	-5.0956	ppb	2.0320	39.9	15.4343
Se 196.026	1.8612	ppb	1.8258	98.1	6.4484
Sn 189.925	-0.7617	ppb	0.1303	17.1	-12.6149
Sr 216.596	-0.6161	ppb	0.0882	14.3	15.1912
Ti 334.941	-0.1094	ppb	0.0271	24.8	-54.4331
Tl 190.794	1.0433	ppb	1.7072	163.6	-16.6509
V 292.401	-0.2079	ppb	0.0140	6.8	-11.8974
Zn 206.200	-0.6579	ppb	0.6881	104.6	-1.4191

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

IDL (Samp)	5/1/2013, 1:42:27 PM			Rack 1, Tube 8
Weight: 1	Volume: 1			Dilution: 1
Label	Replicates Concentration			
Ag 328.068	0.1399	-0.0349u	0.0510	
Al 308.215	-1.8813u	-5.4699u	0.3098	
As 188.980	-2.2033u	-1.6178u	-2.1286u	
B 249.678	-16.8962u	-17.1486u	-16.3878u	
Ba 389.178	0.0108	-0.3334u	0.1707	
Be 313.042	-0.0520u	-0.0460u	-0.0392u	
Ca 370.602	-3.218u	0.9544	2.163	
Cd 226.502	-0.0394u	-0.0057u	-0.0178u	
Co 228.615	-0.7026u	-0.7534u	-0.2392u	
Cr 267.716	-0.1569u	0.0411	-0.1569u	
Cu 324.754	-0.1605u	0.1374	-0.0898u	
Fe 271.441	0.3990	7.0436	1.2770	
K 766.491	-1.1756u	-1.0757u	-1.3874u	
Mg 279.078	-1.3505u	-0.7591u	1.4233	
Mn 257.610	-0.1083u	-0.0882u	-0.1120u	
Mo 202.032	-0.6756u	-0.1246u	-0.3232u	
Na 330.237	154.888	-73.1265u	-134.001u	
Ni 231.604	1.9501	0.6048	0.6930	
Pb 220.353	-3.1386u	0.7580	0.6067	
Sb 206.834	-1.6036u	-0.3492u	0.4260	
Se 196.026	2.9199	0.1566	4.2606	
Sn 189.925	0.2209	-0.1263u	1.6529	
Sr 216.596	-0.0931u	-0.1738u	-0.6928u	
Ti 334.941	-0.0572u	-0.1300u	-0.1466u	
Tl 190.794	0.6879	2.6047	0.6387	
V 292.401	-0.3494u	0.0914	-0.0797u	
Zn 206.200	-0.2206u	-0.0306u	0.3125	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0520	ppb	0.0874	168.0	-18.9226
Al 308.215	-2.3471	ppb	2.9178	124.3	-10.6474
As 188.980	-1.9832	ppb	0.3187	16.1	-11.2731
B 249.678	-16.8109	ppb	0.3875	2.3	112.477
Ba 389.178	-0.0506	ppb	0.2576	508.8	-5.9298
Be 313.042	-0.0458	ppb	0.0064	14.0	-402.649
Ca 370.602	-0.0334	ppb	2.823	8451.3	12.20
Cd 226.502	-0.0210	ppb	0.0171	81.4	30.7434
Co 228.615	-0.5650	ppb	0.2833	50.1	4.5641
Cr 267.716	-0.0909	ppb	0.1143	125.8	4.8468
Cu 324.754	-0.0376	ppb	0.1556	413.4	194.719
Fe 271.441	2.9065	ppb	3.6096	124.2	111.076
K 766.491	-1.2129	ppb	0.1592	13.1	270.284
Mg 279.078	-0.2288	ppb	1.4610	638.7	33.8219
Mn 257.610	-0.1028	ppb	0.0128	12.5	40.0092
Mo 202.032	-0.3745	ppb	0.2791	74.5	16.0588
Na 330.237	-17.4132	ppb	152.290	874.6	68.1345
Ni 231.604	1.0826	ppb	0.7525	69.5	-4.0784
Pb 220.353	-0.5913	ppb	2.2073	373.3	34.2880
Sb 206.834	-0.5089	ppb	1.0242	201.3	20.3796
Se 196.026	2.4457	ppb	2.0927	85.6	6.7388
Sn 189.925	0.5825	ppb	0.9431	161.9	-11.2418
Sr 216.596	-0.3199	ppb	0.3254	101.7	19.0150
Ti 334.941	-0.1113	ppb	0.0475	42.7	-55.0099
Tl 190.794	1.3104	ppb	1.1211	85.6	-16.3505
V 292.401	-0.1126	ppb	0.2222	197.4	-9.0932
Zn 206.200	0.0204	ppb	0.2702	133.5	-0.3233

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

IDL (Samp)	5/1/2013, 1:47:53 PM		Rack 1, Tube 9
Weight: 1	Volume: 1		Dilution: 1
Label	Replicates Concentration		
Ag 328.068	0.4934	-0.0813u	-0.0585u
Al 308.215	-1.7374u	1.1704	1.7274
As 188.980	-3.4418u	-1.6372u	-4.2610u
B 249.678	-16.6221u	-16.4978u	-17.2557u
Ba 389.178	-0.2425u	-1.0130u	0.1668
Be 313.042	-0.0449u	-0.0570u	-0.0518u
Ca 370.602	4.149	0.3255	2.258
Cd 226.502	0.0504	-0.0270u	-0.0706u
Co 228.615	-0.0265u	-0.5261u	-0.1050u
Cr 267.716	-0.0884u	-0.1947u	-0.2245u
Cu 324.754	0.2724	-0.2307u	0.2181
Fe 271.441	1.1322	4.2846	0.7454
K 766.491	-0.3328u	-0.4109u	-0.8875u
Mg 279.078	2.8567	1.9102	-0.0437u
Mn 257.610	-0.1162u	-0.1116u	-0.1079u
Mo 202.032	-0.4112u	-0.4199u	-0.3723u
Na 330.237	-22.8257u	-80.3587u	109.902
Ni 231.604	-1.0282u	1.6400	-0.4412u
Pb 220.353	1.2578	-0.5568u	0.3828
Sb 206.834	-3.4658u	-2.0424u	-4.2047u
Se 196.026	-4.4755u	1.1840	4.0901
Sn 189.925	-2.7382u	-3.0478u	-1.1793u
Sr 216.596	-0.2507u	-0.2136u	-0.5895u
Ti 334.941	-0.1208u	-0.1554u	-0.1096u
Tl 190.794	-0.4354u	-0.6775u	2.4905
V 292.401	-0.0280u	-0.2412u	-0.4606u
Zn 206.200	0.2098	-0.5624u	0.1561

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1179	ppb	0.3254	276.1	-13.6315
Al 308.215	0.3868	ppb	1.8606	481.0	-2.3312
As 188.980	-3.1133	ppb	1.3423	43.1	-12.0993
B 249.678	-16.7919	ppb	0.4065	2.4	112.730
Ba 389.178	-0.3629	ppb	0.5990	165.1	-13.5240
Be 313.042	-0.0512	ppb	0.0061	11.8	-413.194
Ca 370.602	2.244	ppb	1.912	85.2	19.83
Cd 226.502	-0.0157	ppb	0.0613	389.4	30.9524
Co 228.615	-0.2192	ppb	0.2687	122.6	9.2041
Cr 267.716	-0.1692	ppb	0.0715	42.3	0.6990
Cu 324.754	0.0866	ppb	0.2761	318.8	201.796
Fe 271.441	2.0541	ppb	1.9413	94.5	109.534
K 766.491	-0.5437	ppb	0.3003	55.2	297.060
Mg 279.078	1.5744	ppb	1.4791	93.9	38.0127
Mn 257.610	-0.1119	ppb	0.0041	3.7	37.5834
Mo 202.032	-0.4011	ppb	0.0254	6.3	15.8409
Na 330.237	2.2393	ppb	97.5755	4357.5	69.1798
Ni 231.604	0.0569	ppb	1.4021	2464.8	-7.2416
Pb 220.353	0.3613	ppb	0.9075	251.2	36.2793
Sb 206.834	-3.2376	ppb	1.0990	33.9	17.4348
Se 196.026	0.2662	ppb	4.3559	1636.4	5.6560
Sn 189.925	-2.3218	ppb	1.0014	43.1	-14.2088
Sr 216.596	-0.3513	ppb	0.2072	59.0	18.6254
Ti 334.941	-0.1286	ppb	0.0239	18.6	-60.4937
Tl 190.794	0.4592	ppb	1.7633	384.0	-17.3088
V 292.401	-0.2432	ppb	0.2163	88.9	-12.9649
Zn 206.200	-0.0655	ppb	0.4312	258.4	-0.4619

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

IDL (Samp)	5/1/2013, 1:53:19 PM			Rack 1, Tube 10
Weight: 1	Volume: 1			Dilution: 1
Label	Replicates Concentration			
Ag 328.068	-0.3248u	0.1128	0.2493	
Al 308.215	0.7084	-0.1730u	-3.5381u	
As 188.980	3.3468	0.0456	-5.1536u	
B 249.678	-16.2284u	-17.0219u	-17.0703u	
Ba 389.178	-0.0746u	-0.2607u	0.0214	
Be 313.042	-0.0508u	-0.0506u	-0.0423u	
Ca 370.602	3.097	1.829	1.606	
Cd 226.502	0.0727	-0.0763u	-0.1027u	
Co 228.615	-0.4772u	0.0238	0.7492	
Cr 267.716	0.0038	-0.0147u	0.1649	
Cu 324.754	0.0408	0.2682	-0.1526u	
Fe 271.441	3.9038	-2.4166u	2.1197	
K 766.491	-1.2134u	-1.0466u	-1.2968u	
Mg 279.078	3.2932	-2.5440u	4.2908	
Mn 257.610	-0.1252u	-0.1071u	-0.1423u	
Mo 202.032	-0.3094u	-0.7062u	-0.6028u	
Na 330.237	51.5739	36.7004	27.8960	
Ni 231.604	0.0174	0.5261	0.7907	
Pb 220.353	-0.3380u	-2.5670u	-0.1718u	
Sb 206.834	0.2224	-5.0237u	-3.0909u	
Se 196.026	-8.4925u	-0.2900u	1.3843	
Sn 189.925	1.1798	-1.4329u	-2.7980u	
Sr 216.596	-0.1596u	-0.5504u	-0.4819u	
Ti 334.941	-0.1537u	-0.0822u	-0.0967u	
Tl 190.794	3.2933	-0.8191u	2.2831	
V 292.401	-0.4483u	0.0266	-0.1104u	
Zn 206.200	-1.1270u	0.2139	0.9405	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0124	ppb	0.2999	2411.6	-22.1140
Al 308.215	-1.0009	ppb	2.2411	223.9	-6.5648
As 188.980	-0.5871	ppb	4.2854	730.0	-10.2523
B 249.678	-16.7735	ppb	0.4727	2.8	112.974
Ba 389.178	-0.1046	ppb	0.1434	137.1	-7.2421
Be 313.042	-0.0479	ppb	0.0049	10.2	-406.744
Ca 370.602	2.177	ppb	0.8042	36.9	19.71
Cd 226.502	-0.0355	ppb	0.0946	266.8	30.1470
Co 228.615	0.0986	ppb	0.6166	625.4	13.4762
Cr 267.716	0.0513	ppb	0.0988	192.4	12.3803
Cu 324.754	0.0522	ppb	0.2106	403.7	199.828
Fe 271.441	1.2023	ppb	3.2586	271.0	107.990
K 766.491	-1.1856	ppb	0.1274	10.7	271.377
Mg 279.078	1.6800	ppb	3.6920	219.8	38.2584
Mn 257.610	-0.1249	ppb	0.0176	14.1	34.1124
Mo 202.032	-0.5395	ppb	0.2058	38.2	14.7094
Na 330.237	38.7234	ppb	11.9679	30.9	71.1119
Ni 231.604	0.4447	ppb	0.3930	88.4	-6.0456
Pb 220.353	-1.0256	ppb	1.3375	130.4	33.3801
Sb 206.834	-2.6307	ppb	2.6532	100.9	18.0951
Se 196.026	-2.4661	ppb	5.2858	214.3	4.2985
Sn 189.925	-1.0170	ppb	2.0212	198.7	-12.8758
Sr 216.596	-0.3973	ppb	0.2087	52.5	18.0381
Ti 334.941	-0.1109	ppb	0.0378	34.1	-54.8810
Tl 190.794	1.5858	ppb	2.1431	135.1	-16.0398
V 292.401	-0.1774	ppb	0.2445	137.8	-10.9871
Zn 206.200	0.0091	ppb	1.0489	11492.4	-0.3422

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/1/2013, 1:58:44 PM Rack 1, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	523.599	523.424	518.724
Al 308.215	5097.18	5081.90	5025.78
As 188.980	511.020	509.118	509.545
B 249.678	502.611	506.892	507.300
Ba 389.178	5313.98	5317.70	5278.62
Be 313.042	535.203	536.484	530.636
Ca 370.602	5204	5201	5153
Cd 226.502	536.914	538.855	535.829
Co 228.615	541.258	538.469	537.479
Cr 267.716	5345.55	5367.83	5326.79
Cu 324.754	5438.94	5358.02	5353.00
Fe 271.441	5146.70	5165.84	5119.95
K 766.491	10604.2	10648.0	10555.6
Mg 279.078	5130.64	5140.43	5125.50
Mn 257.610	5446.11	5465.07	5420.04
Mo 202.032	521.217	521.343	515.761
Na 330.237	7467.21	7497.66	7393.12
Ni 231.604	2648.95	2649.24	2636.02
Pb 220.353	509.626	510.282	506.298
Sb 206.834	987.230	990.402	980.670
Se 196.026	5109.22	5127.65	5105.82
Sn 189.925	5197.91	5159.15	5126.90
Sr 216.596	2604.22	2615.64	2595.20
Ti 334.941	514.467	515.971	511.670
Tl 190.794	5203.70	5215.17	5180.96
V 292.401	5161.45	5168.39	5135.37
Zn 206.200	2667.03	2675.51	2669.69

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	521.916	ppb	2.7651	0.5	41984.0	104.38313
Al 308.215	5068.29	ppb	37.5986	0.7	15393.7	101.36573
As 188.980	509.894	ppb	0.9981	0.2	362.765	101.97885
B 249.678	505.601	ppb	2.5976	0.5	7016.15	20.22403Q
Ba 389.178	5303.43	ppb	21.5683	0.4	129038	106.06868
Be 313.042	534.108	ppb	3.0739	0.6	1028786	106.82156
Ca 370.602	5186	ppb	28.33	0.5	17089	103.72301
Cd 226.502	537.199	ppb	1.5333	0.3	21874.9	107.43983
Co 228.615	539.069	ppb	1.9596	0.4	7255.88	107.81380
Cr 267.716	5346.72	ppb	20.5472	0.4	283167	106.93448
Cu 324.754	5383.32	ppb	48.2328	0.9	306678	107.66640
Fe 271.441	5144.16	ppb	23.0515	0.4	9897.73	102.88321
K 766.491	10602.6	ppb	46.1954	0.4	424578	106.02618
Mg 279.078	5132.19	ppb	7.5839	0.1	11865.9	102.64384
Mn 257.610	5443.74	ppb	22.6084	0.4	1456100	108.87475
Mo 202.032	519.440	ppb	3.1867	0.6	4256.59	103.88808
Na 330.237	7452.66	ppb	53.7672	0.7	437.820	99.36882
Ni 231.604	2644.74	ppb	7.5505	0.3	8148.57	105.78944
Pb 220.353	508.736	ppb	2.1361	0.4	1099.13	101.74710
Sb 206.834	986.101	ppb	4.9632	0.5	1138.98	98.61006
Se 196.026	5114.23	ppb	11.7443	0.2	2547.74	102.28458
Sn 189.925	5161.32	ppb	35.5530	0.7	5261.05	103.22638
Sr 216.596	2605.02	ppb	10.2399	0.4	33504.0	104.20074
Ti 334.941	514.036	ppb	2.1829	0.4	162926	102.80723
Tl 190.794	5199.94	ppb	17.4117	0.3	5831.54	103.99887
V 292.401	5155.07	ppb	17.4116	0.3	152110	103.10141
Zn 206.200	2670.74	ppb	4.3342	0.2	4296.38	106.82970

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/1/2013, 2:04:07 PM                      Rack 1, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1039u	0.0762	0.1436
Al 308.215	1.8112	1.3032	0.2918
As 188.980	-9.5310u	4.0677	-3.1414u
B 249.678	-7.7698u	-8.5703u	-7.6141u
Ba 389.178	-0.2317u	0.1347	-0.4207u
Be 313.042	-0.0303u	-0.0439u	-0.0404u
Ca 370.602	1.915	2.905	2.540
Cd 226.502	-0.1823u	0.1150	0.0937
Co 228.615	-0.0869u	-0.5522u	-0.4398u
Cr 267.716	-0.0036u	0.0954	0.0297
Cu 324.754	0.1998	-0.0330u	0.3655
Fe 271.441	-0.0391u	4.5469	4.6115
K 766.491	-0.2563u	-0.7654u	-0.6864u
Mg 279.078	3.5166	1.5760	2.5778
Mn 257.610	-0.0342u	0.0153	-0.0004u
Mo 202.032	-0.6094u	-0.5565u	-0.2097u
Na 330.237	-6.5007u	11.7582	193.151
Ni 231.604	0.4777	0.0159	0.8248
Pb 220.353	-1.3797u	-1.0040u	1.4965
Sb 206.834	7.0831	1.4977	0.5149
Se 196.026	0.9118	7.6066	7.2224
Sn 189.925	-0.6351u	0.0555	-1.5060u
Sr 216.596	-0.3555u	-0.4850u	-0.1358u
Ti 334.941	-0.0186u	-0.0138u	-0.0183u
Tl 190.794	3.5280	1.6864	-0.6040u
V 292.401	0.0022	0.0570	0.0009
Zn 206.200	-0.8933u	-1.0028u	1.3481

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0386	ppb	0.1280	331.4	-20.0064	0.03861
Al 308.215	1.1354	ppb	0.7735	68.1	-0.0720	1.13540
As 188.980	-2.8682	ppb	6.8035	237.2	-11.9200	-2.86821
B 249.678	-7.9847	ppb	0.5131	6.4	229.231	-7.98473
Ba 389.178	-0.1726	ppb	0.2824	163.6	-8.8911	-0.17256
Be 313.042	-0.0382	ppb	0.0071	18.5	-388.054	-0.03819
Ca 370.602	2.453	ppb	0.5003	20.4	20.55	2.45334
Cd 226.502	0.0088	ppb	0.1659	1889.6	31.9477	0.00878
Co 228.615	-0.3597	ppb	0.2428	67.5	7.3307	-0.35967
Cr 267.716	0.0405	ppb	0.0504	124.5	11.8056	0.04048
Cu 324.754	0.1774	ppb	0.2002	112.8	206.957	0.17743
Fe 271.441	3.0398	ppb	2.6666	87.7	111.360	3.03979
K 766.491	-0.5694	ppb	0.2740	48.1	296.033	-0.56939
Mg 279.078	2.5568	ppb	0.9704	38.0	40.2939	2.55681
Mn 257.610	-0.0064	ppb	0.0253	393.9	65.8028	-0.00642
Mo 202.032	-0.4586	ppb	0.2171	47.3	15.3706	-0.45856
Na 330.237	66.1363	ppb	110.377	166.9	72.5645	66.13634
Ni 231.604	0.4394	ppb	0.4058	92.3	-6.0619	0.43943
Pb 220.353	-0.2957	ppb	1.5634	528.7	34.9062	-0.29572
Sb 206.834	3.0319	ppb	3.5426	116.8	24.2012	3.03191
Se 196.026	5.2469	ppb	3.7592	71.6	8.1305	5.24692
Sn 189.925	-0.6952	ppb	0.7825	112.6	-12.5470	-0.69520
Sr 216.596	-0.3255	ppb	0.1765	54.2	18.9515	-0.32546
Ti 334.941	-0.0169	ppb	0.0027	15.8	-25.0948	-0.01690
Tl 190.794	1.5368	ppb	2.0700	134.7	-16.0954	1.53679
V 292.401	0.0200	ppb	0.0320	160.0	-5.1431	0.02002
Zn 206.200	-0.1826	ppb	1.3268	726.5	-0.6517	-0.18265

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**mb 680-274586/1-a (Samp)**      **5/1/2013, 2:09:31 PM**      **Rack 1, Tube 15**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2031	0.0123	-0.1021u
Al 308.215	9.7947	7.0488	6.4604
As 188.980	1.0277	-2.7209u	-3.9516u
B 249.678	-11.9926u	-13.0163u	-13.9401u
Ba 389.178	-0.1738u	-0.6275u	-0.2762u
Be 313.042	-0.0426u	-0.0446u	-0.0530u
Ca 370.602	25.17	22.73	21.67
Cd 226.502	-0.0195u	0.0731	-0.2117u
Co 228.615	-0.6423u	0.2072	-0.9961u
Cr 267.716	0.3994	0.6042	0.5926
Cu 324.754	0.2540	0.5419	0.0308
Fe 271.441	23.0284	12.6404	15.9030
K 766.491	4.9313	5.3693	4.9039
Mg 279.078	7.3161	10.3010	9.6037
Mn 257.610	0.1213	0.1289	0.0920
Mo 202.032	-0.1467u	-0.3505u	-0.0848u
Na 330.237	174.221	197.376	-12.5339u
Ni 231.604	1.0521	-0.0449u	1.3236
Pb 220.353	-1.0194u	-0.3288u	1.2994
Sb 206.834	-0.3058u	-2.7205u	-5.3359u
Se 196.026	1.4716	3.8805	4.8306
Sn 189.925	3.7437	7.0890	6.6129
Sr 216.596	0.0412	0.0645	-0.3844u
Ti 334.941	0.2131	0.2044	0.1628
Tl 190.794	-1.9918u	-2.1336u	-2.2909u
V 292.401	-0.0730u	-0.5065u	-0.1234u
Zn 206.200	2.5001	0.0861	1.3060

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0378	ppb	0.1542	408.2	-20.0793
Al 308.215	7.7679	ppb	1.7797	22.9	20.1176
As 188.980	-1.8816	ppb	2.5936	137.8	-11.1988
B 249.678	-12.9830	ppb	0.9742	7.5	163.094
Ba 389.178	-0.3592	ppb	0.2380	66.3	-13.3885
Be 313.042	-0.0467	ppb	0.0055	11.8	-404.527
Ca 370.602	23.19	ppb	1.791	7.7	88.11
Cd 226.502	-0.0527	ppb	0.1452	275.7	29.5032
Co 228.615	-0.4770	ppb	0.6184	129.6	5.7459
Cr 267.716	0.5321	ppb	0.1150	21.6	37.8510
Cu 324.754	0.2756	ppb	0.2562	93.0	212.564
Fe 271.441	17.1906	ppb	5.3124	30.9	137.878
K 766.491	5.0682	ppb	0.2611	5.2	521.619
Mg 279.078	9.0736	ppb	1.5615	17.2	55.4397
Mn 257.610	0.1141	ppb	0.0195	17.1	98.1168
Mo 202.032	-0.1940	ppb	0.1390	71.7	17.5343
Na 330.237	119.687	ppb	115.091	96.2	75.3840
Ni 231.604	0.7769	ppb	0.7246	93.3	-5.0209
Pb 220.353	-0.0163	ppb	1.1906	7320.6	35.4898
Sb 206.834	-2.7874	ppb	2.5157	90.3	17.9282
Se 196.026	3.3942	ppb	1.7315	51.0	7.2102
Sn 189.925	5.8152	ppb	1.8097	31.1	-5.8959
Sr 216.596	-0.0929	ppb	0.2527	272.0	21.9386
Ti 334.941	0.1934	ppb	0.0269	13.9	41.6017
Tl 190.794	-2.1388	ppb	0.1496	7.0	-20.2359
V 292.401	-0.2343	ppb	0.2371	101.2	-12.7647
Zn 206.200	1.2974	ppb	1.2970	93.0	41.7385



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

ics 680-274586/2-a (Samp)      5/1/2013, 2:15:06 PM      Rack 1, Tube 16  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	53.0278	52.3825	52.4073
Al 308.215	5185.84	5231.93	5199.37
As 188.980	103.141	104.844	102.167
B 249.678	179.880	181.720	181.673
Ba 389.178	105.978	106.627	106.044
Be 313.042	54.2522	54.5021	54.3550
Ca 370.602	5068	5085	5061
Cd 226.502	54.2111	54.4744	54.4617
Co 228.615	53.6215	53.8839	53.0249
Cr 267.716	108.659	109.025	108.615
Cu 324.754	109.629	108.787	110.014
Fe 271.441	5089.27	5113.92	5100.26
K 766.491	5106.24	5130.49	5115.01
Mg 279.078	5072.03	5081.43	5061.67
Mn 257.610	554.379	557.646	555.426
Mo 202.032	104.146	103.946	104.062
Na 330.237	4864.29	5015.66	5084.21
Ni 231.604	107.161	105.602	107.686
Pb 220.353	52.5113	51.3957	50.2185
Sb 206.834	53.7213	49.4323	48.9765
Se 196.026	109.944	102.252	103.579
Sn 189.925	216.630	211.458	211.612
Sr 216.596	104.383	105.155	104.990
Ti 334.941	102.714	103.077	102.861
Tl 190.794	44.3159	44.4626	40.3928
V 292.401	103.668	104.827	103.743
Zn 206.200	105.819	106.765	107.160

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.6059	ppb	0.3656	0.7	4215.84
Al 308.215	5205.71	ppb	23.6906	0.5	15830.0
As 188.980	103.384	ppb	1.3549	1.3	65.7131
B 249.678	181.091	ppb	1.0486	0.6	2723.64
Ba 389.178	106.216	ppb	0.3574	0.3	2601.31
Be 313.042	54.3698	ppb	0.1256	0.2	104452
Ca 370.602	5071	ppb	12.54	0.2	16445
Cd 226.502	54.3824	ppb	0.1485	0.3	2258.63
Co 228.615	53.5101	ppb	0.4402	0.8	729.194
Cr 267.716	108.767	ppb	0.2252	0.2	5773.15
Cu 324.754	109.477	ppb	0.6274	0.6	6434.17
Fe 271.441	5101.15	ppb	12.3486	0.2	9682.64
K 766.491	5117.25	ppb	12.2793	0.2	205083
Mg 279.078	5071.71	ppb	9.8850	0.2	11811.7
Mn 257.610	555.817	ppb	1.6682	0.3	148777
Mo 202.032	104.051	ppb	0.1003	0.1	869.693
Na 330.237	4988.05	ppb	112.525	2.3	330.165
Ni 231.604	106.816	ppb	1.0839	1.0	322.109
Pb 220.353	51.3752	ppb	1.1465	2.2	142.805
Sb 206.834	50.7100	ppb	2.6178	5.2	75.8693
Se 196.026	105.258	ppb	4.1118	3.9	57.9859
Sn 189.925	213.233	ppb	2.9428	1.4	206.010
Sr 216.596	104.843	ppb	0.4065	0.4	1370.02
Ti 334.941	102.884	ppb	0.1828	0.2	32615.0
Tl 190.794	43.0571	ppb	2.3085	5.4	29.4883
V 292.401	104.079	ppb	0.6488	0.6	3047.16
Zn 206.200	106.581	ppb	0.6889	0.6	4171.989

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89695-b-4-a (Samp) 5/1/2013, 2:20:32 PM Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1125	0.1093	0.9960
Al 308.215	102625	103060	103262
As 188.980	196.303	192.722	194.963
B 249.678	-1.0156u	-3.5196u	-2.8907u
Ba 389.178	2266.22	2255.74	2255.18
Be 313.042	11.2089	11.1848	11.1822
Ca 370.602	100365	100229	100285
Cd 226.502	14.1460	13.1982	12.6572
Co 228.615	114.754	114.427	113.507
Cr 267.716	1055.03	1048.84	1047.55
Cu 324.754	14002.0	13932.3	13894.6
Fe 271.441	523784	521331	522600
K 766.491	10147.4	10089.5	10057.0
Mg 279.078	22171.5	22126.4	22124.7
Mn 257.610	19238.7	19080.7	19068.6
Mo 202.032	206.440	206.174	206.164
Na 330.237	184.898u	132.741u	165.493u
Ni 231.604	538.872	535.492	535.862
Pb 220.353	2676.82	2665.77	2667.05
Sb 206.834	36.3548	31.8613	39.5093
Se 196.026	-14.2858	-11.9994	-26.8631u
Sn 189.925	143.971	149.051	145.922
Sr 216.596	333.491	332.887	331.735
Ti 334.941	1132.61	1125.00	1123.89
Tl 190.794	27.5319u	28.4714u	26.8950u
V 292.401	470.664	468.616	467.263
Zn 206.200	7028.40	7006.40	7009.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4059	ppb	0.5110	125.9	88.8843
Al 308.215	102982	ppb	325.466	0.3	313108
As 188.980	194.662	ppb	1.8092	0.9	127.108
B 249.678	-2.4753	ppb	1.3027	52.6	-385.955
Ba 389.178	2259.05	ppb	6.2166	0.3	55786.4
Be 313.042	11.1920	ppb	0.0147	0.1	21234.3
Ca 370.602	100293	ppb	68.33	0.1	289333
Cd 226.502	13.3338	ppb	0.7536	5.7	2373.18
Co 228.615	114.230	ppb	0.6468	0.6	1554.00
Cr 267.716	1050.47	ppb	3.9970	0.4	55873.2
Cu 324.754	13942.9	ppb	54.5014	0.4	794273
Fe 271.441	522572	ppb	1226.55	0.2	980159
K 766.491	10098.0	ppb	45.7500	0.5	404385
Mg 279.078	22140.9	ppb	26.5549	0.1	51228.7
Mn 257.610	19129.3	ppb	94.9210	0.5	5118200
Mo 202.032	206.259	ppb	0.1565	0.1	1675.72
Na 330.237	161.044	ppb	26.3616	16.4	-146.682
Ni 231.604	536.742	ppb	1.8534	0.3	1660.55
Pb 220.353	2669.88	ppb	6.0441	0.2	5621.11
Sb 206.834	35.9085	ppb	3.8435	10.7	80.7156
Se 196.026	-17.7161	ppb	8.0036	45.2	4.5454
Sn 189.925	146.315	ppb	2.5631	1.8	137.675
Sr 216.596	332.704	ppb	0.8919	0.3	4556.05
Ti 334.941	1127.17	ppb	4.7461	0.4	357414
Tl 190.794	27.6328	ppb	0.7931	2.9	-48.2219
V 292.401	468.848	ppb	1.7123	0.4	13776.3
Zn 206.200	7014.70	ppb	11.9517	0.2	41382.8

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-b-4-aSD^5 (Samp) 5/1/2013, 2:25:56 PM Rack 1, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4225	0.2690	0.2066
Al 308.215	21892.1	21314.1	21070.3
As 188.980	35.2931	39.7202	39.7176
B 249.678	-12.4064u	-12.9366u	-12.5184u
Ba 389.178	485.142	476.844	472.801
Be 313.042	2.3692	2.3249	2.2992
Ca 370.602	21398	21080	20902
Cd 226.502	2.6598	2.4115	2.4808
Co 228.615	24.4238	24.6590	24.7296
Cr 267.716	227.396	223.021	221.035
Cu 324.754	2966.26	2896.52	2900.38
Fe 271.441	116601	114083	113104
K 766.491	1878.23	1858.69	1854.45
Mg 279.078	4863.32	4774.20	4733.39
Mn 257.610	4280.34	4216.87	4178.07
Mo 202.032	43.3786	43.0961	43.1155
Na 330.237	-127.002u	-88.0396u	-49.0521u
Ni 231.604	118.496	117.358	115.812
Pb 220.353	582.914	572.872	571.424
Sb 206.834	7.2991	0.5190	3.1700
Se 196.026	-2.4639	0.4905	-1.7874
Sn 189.925	32.9428	33.2497	33.2600
Sr 216.596	72.6179	71.0732	70.4870
Ti 334.941	241.767	237.750	237.070
Tl 190.794	3.3174u	7.3118u	9.1798u
V 292.401	101.528	99.6791	98.8909
Zn 206.200	1557.35	1537.88	1526.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2994	ppb	0.1111	37.1	18.5805
Al 308.215	21425.5	ppb	422.088	2.0	65139.6
As 188.980	38.2437	ppb	2.5552	6.7	16.9503
B 249.678	-12.6205	ppb	0.2794	2.2	16.9100
Ba 389.178	478.262	ppb	6.2918	1.3	11813.1
Be 313.042	2.3311	ppb	0.0354	1.5	4173.66
Ca 370.602	21127	ppb	251.1	1.2	60575
Cd 226.502	2.5174	ppb	0.1281	5.1	528.853
Co 228.615	24.6041	ppb	0.1601	0.7	344.077
Cr 267.716	223.817	ppb	3.2544	1.5	11913.7
Cu 324.754	2921.05	ppb	39.1974	1.3	166558
Fe 271.441	114596	ppb	1804.11	1.6	215023
K 766.491	1863.79	ppb	12.6811	0.7	74897.6
Mg 279.078	4790.30	ppb	66.4440	1.4	11109.6
Mn 257.610	4225.10	ppb	51.6296	1.2	1130506
Mo 202.032	43.1968	ppb	0.1578	0.4	365.762
Na 330.237	-88.0313	ppb	38.9751	44.3	15.2297
Ni 231.604	117.222	ppb	1.3470	1.1	356.872
Pb 220.353	575.737	ppb	6.2580	1.1	1240.04
Sb 206.834	3.6627	ppb	3.4168	93.3	29.4557
Se 196.026	-1.2536	ppb	1.5478	123.5	6.6246
Sn 189.925	33.1509	ppb	0.1803	0.5	22.0379
Sr 216.596	71.3927	ppb	1.1008	1.5	997.063
Ti 334.941	238.862	ppb	2.5386	1.1	75726.3
Tl 190.794	6.6030	ppb	2.9948	45.4	-23.9354
V 292.401	100.033	ppb	1.3538	1.4	2934.87
Zn 206.200	1540.52	ppb	15.6853	1.0	2499.55

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-b-4-aPDS (Samp)**      **5/1/2013, 2:31:21 PM**      **Rack 1, Tube 19**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.7350	50.9037	50.7998
Al 308.215	103607	103520	102977
As 188.980	2244.73	2246.37	2233.56
B 249.678	965.839	968.925	969.568
Ba 389.178	4199.15	4209.58	4193.67
Be 313.042	61.4268	61.6105	61.4212
Ca 370.602	103576	103580	103423
Cd 226.502	62.2912	61.5500	61.8664
Co 228.615	617.706	616.092	613.761
Cr 267.716	1233.67	1235.25	1231.99
Cu 324.754	13869.7	13964.3	13644.2
Fe 271.441	514275	514365	513698
K 766.491	15341.4	15311.3	15311.0
Mg 279.078	26690.9	26736.1	26631.9
Mn 257.610	19354.6	19304.9	19319.2
Mo 202.032	709.630	707.355	705.629
Na 330.237	5517.31	5586.66	5482.87
Ni 231.604	1017.94	1017.80	1018.18
Pb 220.353	3091.39	3104.74	3082.04
Sb 206.834	529.840	541.655	533.550
Se 196.026	1964.89	1990.30	1977.81
Sn 189.925	1111.96	1124.36	1120.07
Sr 216.596	823.297	824.219	822.655
Ti 334.941	2034.54	2036.53	2037.77
Tl 190.794	1953.05	1958.17	1949.00
V 292.401	953.386	952.402	951.097
Zn 206.200	7339.72	7367.93	7343.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1462	ppb	0.5126	1.0	4159.59
Al 308.215	103368	ppb	341.578	0.3	314312
As 188.980	2241.55	ppb	6.9701	0.3	1623.48
B 249.678	968.111	ppb	1.9931	0.2	12464.4
Ba 389.178	4200.80	ppb	8.0847	0.2	103023
Be 313.042	61.4862	ppb	0.1077	0.2	118067
Ca 370.602	103527	ppb	89.57	0.1	300979
Cd 226.502	61.9025	ppb	0.3719	0.6	4316.71
Co 228.615	615.853	ppb	1.9835	0.3	8292.49
Cr 267.716	1233.64	ppb	1.6299	0.1	65569.7
Cu 324.754	13826.1	ppb	164.442	1.2	787626
Fe 271.441	514113	ppb	362.222	0.1	964384
K 766.491	15321.2	ppb	17.4828	0.1	613391
Mg 279.078	26686.3	ppb	52.2420	0.2	61788.1
Mn 257.610	19326.2	ppb	25.5932	0.1	5170856
Mo 202.032	707.538	ppb	2.0068	0.3	5775.35
Na 330.237	5528.95	ppb	52.8641	1.0	130.645
Ni 231.604	1017.97	ppb	0.1927	0.0	3144.36
Pb 220.353	3092.72	ppb	11.4120	0.4	6503.51
Sb 206.834	535.015	ppb	6.0420	1.1	613.944
Se 196.026	1977.66	ppb	12.7093	0.6	995.883
Sn 189.925	1118.80	ppb	6.2988	0.6	1131.18
Sr 216.596	823.390	ppb	0.7866	0.1	10841.0
Ti 334.941	2036.28	ppb	1.6272	0.1	645571
Tl 190.794	1953.41	ppb	4.5957	0.2	2120.90
V 292.401	952.295	ppb	1.1478	0.1	27982.1
Zn 206.200	7350.27	ppb	15.3898	0.2	41923.2

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-b-4-b ms (Samp)**      **5/1/2013, 2:36:46 PM**      **Rack 1, Tube 20**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.6828	53.3242	54.4840
Al 308.215	128379	128285	128164
As 188.980	288.587	288.253	306.452
B 249.678	226.503	225.179	225.856
Ba 389.178	2017.64	2019.43	2014.34
Be 313.042	64.4912	64.5800	64.5782
Ca 370.602	349996	349426	348795
Cd 226.502	59.9380	60.0990	60.0813
Co 228.615	139.532	137.238	137.649
Cr 267.716	1669.68	1669.54	1666.71
Cu 324.754	9940.53	9939.98	9994.46
Fe 271.441	458808	461025	458468
K 766.491	19896.2	19986.1	19978.1
Mg 279.078	92709.2	92597.6	92384.5
Mn 257.610	19800.5	19768.0	19889.3
Mo 202.032	160.105	161.173	159.291
Na 330.237	5806.69	6138.38	6010.75
Ni 231.604	357.032	362.090	361.271
Pb 220.353	2457.67	2458.06	2446.88
Sb 206.834	64.5393	58.6583	59.6528
Se 196.026	74.1090	79.8800	87.7504
Sn 189.925	293.508	302.470	309.716
Sr 216.596	846.237	843.879	842.731
Ti 334.941	1465.42	1466.05	1464.93
Tl 190.794	65.7542	65.3379	69.7579
V 292.401	614.978	615.940	616.277
Zn 206.200	5938.78	5930.81	5912.47

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.8303	ppb	0.5938	1.1	4373.71
Al 308.215	128276	ppb	107.727	0.1	390006
As 188.980	294.431	ppb	10.4124	3.5	203.324
B 249.678	225.846	ppb	0.6623	0.3	2717.85
Ba 389.178	2017.13	ppb	2.5837	0.1	50001.1
Be 313.042	64.5498	ppb	0.0508	0.1	124160
Ca 370.602	349406	ppb	600.9	0.2	1121373
Cd 226.502	60.0394	ppb	0.0883	0.1	4053.24
Co 228.615	138.140	ppb	1.2229	0.9	1891.53
Cr 267.716	1668.64	ppb	1.6783	0.1	88600.4
Cu 324.754	9958.33	ppb	31.2991	0.3	567368
Fe 271.441	459434	ppb	1388.38	0.3	861756
K 766.491	19953.5	ppb	49.7654	0.2	798747
Mg 279.078	92563.8	ppb	164.984	0.2	214875
Mn 257.610	19819.3	ppb	62.8170	0.3	5303010
Mo 202.032	160.190	ppb	0.9436	0.6	1302.16
Na 330.237	5985.27	ppb	167.304	2.8	187.203
Ni 231.604	360.131	ppb	2.7147	0.8	1114.38
Pb 220.353	2454.20	ppb	6.3459	0.3	5170.18
Sb 206.834	60.9501	ppb	3.1478	5.2	113.861
Se 196.026	80.5798	ppb	6.8476	8.5	53.1792
Sn 189.925	301.898	ppb	8.1190	2.7	296.755
Sr 216.596	844.283	ppb	1.7874	0.2	11150.5
Ti 334.941	1465.47	ppb	0.5624	0.0	464988
Tl 190.794	66.9500	ppb	2.4406	3.6	-1.3056
V 292.401	615.732	ppb	0.6741	0.1	18098.7
Zn 206.200	5927.35	ppb	13.4952	0.2	9617.81

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-b-4-c msd (Samp)      5/1/2013, 2:42:12 PM      Rack 1, Tube 21**  
**Weight: 1      Volume: 1      Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	54.6754	53.7863	53.5166
Al 308.215	126015	126175	125893
As 188.980	312.711	318.960	319.303
B 249.678	169.373	170.208	170.354
Ba 389.178	2649.60	2655.92	2649.81
Be 313.042	65.2589	65.4368	65.3485
Ca 370.602	135702	136059	135864
Cd 226.502	72.8875	73.8277	73.4218
Co 228.615	161.081	160.787	161.468
Cr 267.716	996.786	999.544	996.718
Cu 324.754	11576.8	11640.2	11792.4
Fe 271.441	533434	534402	532301
K 766.491	16621.0	16627.5	16632.0
Mg 279.078	35794.4	35804.9	35745.3
Mn 257.610	17152.8	17133.9	17130.2
Mo 202.032	223.675	224.556	226.258
Na 330.237	5426.45	5339.42	5328.59
Ni 231.604	444.295	443.471	446.131
Pb 220.353	2880.21	2889.93	2881.27
Sb 206.834	68.6972	69.8795	64.7007
Se 196.026	80.0392	78.0651	88.0491
Sn 189.925	367.342	371.814	368.887
Sr 216.596	492.000	494.002	490.420
Ti 334.941	1279.88	1282.32	1280.88
Tl 190.794	58.7864	59.1413	62.1233
V 292.401	648.963	650.503	650.688
Zn 206.200	7648.19	7648.09	7639.81

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.9928	ppb	0.6064	1.1	4392.11
Al 308.215	126028	ppb	141.726	0.1	383174
As 188.980	316.991	ppb	3.7107	1.2	216.764
B 249.678	169.978	ppb	0.5296	0.3	1881.78
Ba 389.178	2651.78	ppb	3.5849	0.1	65392.9
Be 313.042	65.3481	ppb	0.0890	0.1	125612
Ca 370.602	135875	ppb	178.8	0.1	406503
Cd 226.502	73.3790	ppb	0.4716	0.6	4848.18
Co 228.615	161.112	ppb	0.3415	0.2	2186.16
Cr 267.716	997.683	ppb	1.6124	0.2	53068.4
Cu 324.754	11669.8	ppb	110.805	0.9	664844
Fe 271.441	533379	ppb	1051.63	0.2	1000435
K 766.491	16626.8	ppb	5.5307	0.0	665634
Mg 279.078	35781.5	ppb	31.8242	0.1	82962.8
Mn 257.610	17139.0	ppb	12.1309	0.1	4585985
Mo 202.032	224.830	ppb	1.3134	0.6	1826.65
Na 330.237	5364.82	ppb	53.6486	1.0	119.838
Ni 231.604	444.632	ppb	1.3615	0.3	1376.76
Pb 220.353	2883.81	ppb	5.3314	0.2	6067.61
Sb 206.834	67.7592	ppb	2.7138	4.0	114.995
Se 196.026	82.0511	ppb	5.2873	6.4	53.6771
Sn 189.925	369.348	ppb	2.2717	0.6	365.549
Sr 216.596	492.141	ppb	1.7953	0.4	6620.09
Ti 334.941	1281.03	ppb	1.2308	0.1	406250
Tl 190.794	60.0170	ppb	1.8327	3.1	-8.9376
V 292.401	650.051	ppb	0.9471	0.1	19141.5
Zn 206.200	7645.36	ppb	4.8999	0.1	43402.6

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-b-14-a (Samp)**      **5/1/2013, 2:47:49 PM**      **Rack 1, Tube 22**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	4.0549	3.5233	3.1361
Al 308.215	90982.8	91733.9	91961.9
As 188.980	245.425	255.047	248.302
B 249.678	-0.9729u	-1.0435u	-1.8852u
Ba 389.178	2613.81	2617.20	2615.34
Be 313.042	12.9738	13.0294	12.9986
Ca 370.602	141367	141704	141560
Cd 226.502	13.4497	12.6395	12.9681
Co 228.615	127.765	128.243	130.231
Cr 267.716	396.776	396.965	395.609
Cu 324.754	9231.71	9253.64	9187.71
Fe 271.441	438100	438034	437795
K 766.491	9267.12	9256.85	9244.79
Mg 279.078	33291.5	33360.1	33286.3
Mn 257.610	14109.5	14123.9	14117.1
Mo 202.032	20.4027	20.9107	19.3745
Na 330.237	-195.925u	-35.0571u	-418.800u
Ni 231.604	196.820	195.870	194.318
Pb 220.353	3342.75	3357.79	3339.85
Sb 206.834	2.4027	2.2178	2.7929
Se 196.026	-18.6282u	-19.1471u	-14.2269u
Sn 189.925	363.706	363.899	364.554
Sr 216.596	412.478	416.056	412.821
Ti 334.941	882.323	882.085	879.726
Tl 190.794	21.7517u	19.5218u	22.0349u
V 292.401	394.011	394.021	393.531
Zn 206.200	8897.02	8911.54	8908.73

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.5714	ppb	0.4613	12.9	314.887
Al 308.215	91559.5	ppb	512.349	0.6	278367
As 188.980	249.591	ppb	4.9390	2.0	168.766
B 249.678	-1.3005	ppb	0.5076	39.0	-258.956
Ba 389.178	2615.45	ppb	1.6982	0.1	64359.8
Be 313.042	13.0006	ppb	0.0278	0.2	24768.0
Ca 370.602	141544	ppb	168.9	0.1	433179
Cd 226.502	13.0191	ppb	0.4075	3.1	2069.07
Co 228.615	128.747	ppb	1.3076	1.0	1749.31
Cr 267.716	396.450	ppb	0.7343	0.2	21187.1
Cu 324.754	9224.35	ppb	33.5786	0.4	525567
Fe 271.441	437977	ppb	160.091	0.0	821509
K 766.491	9256.26	ppb	11.1754	0.1	370704
Mg 279.078	33312.6	ppb	41.2151	0.1	77269.5
Mn 257.610	14116.8	ppb	7.2318	0.1	3777368
Mo 202.032	20.2293	ppb	0.7826	3.9	159.033
Na 330.237	-216.594	ppb	192.705	89.0	-153.186
Ni 231.604	195.669	ppb	1.2628	0.6	606.685
Pb 220.353	3346.80	ppb	9.6318	0.3	7035.43
Sb 206.834	2.4711	ppb	0.2936	11.9	38.4536
Se 196.026	-17.3340	ppb	2.7034	15.6	2.9925
Sn 189.925	364.053	ppb	0.4445	0.1	360.144
Sr 216.596	413.785	ppb	1.9740	0.5	5579.20
Ti 334.941	881.378	ppb	1.4354	0.2	279558
Tl 190.794	21.1028	ppb	1.3765	6.5	-42.3562
V 292.401	393.855	ppb	0.2800	0.1	11635.4
Zn 206.200	8905.76	ppb	7.6975	0.1	14429.4

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-b-18-a (Samp)**                      **5/1/2013, 2:53:16 PM**                      **Rack 1, Tube 23**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	3.6431	2.4880	2.9972
Al 308.215	109198	107991	108545
As 188.980	224.222	227.967	222.492
B 249.678	28.0339u	27.1182u	28.6939u
Ba 389.178	2336.38	2326.46	2336.38
Be 313.042	18.8397	18.7423	18.8160
Ca 370.602	323560	321299	323256
Cd 226.502	23.4289	22.4533	23.6347
Co 228.615	98.6234	97.2031	95.8948
Cr 267.716	443.698	442.474	445.590
Cu 324.754	1545.65	1563.58	1570.24
Fe 271.441	525567	524666	525638
K 766.491	13502.5	13483.8	13475.7
Mg 279.078	111188	110756	111403
Mn 257.610	11647.3	11660.7	11694.7
Mo 202.032	30.9382	31.9115	31.2350
Na 330.237	1410.53u	1294.33u	1355.02u
Ni 231.604	203.973	207.210	207.949
Pb 220.353	3506.18	3494.93	3524.51
Sb 206.834	11.1816	3.0899	14.2618
Se 196.026	-8.9558	-9.5883	-22.3863u
Sn 189.925	175.412	172.381	177.217
Sr 216.596	604.954	601.247	606.982
Ti 334.941	1955.84	1957.18	1959.52
Tl 190.794	15.3838u	20.7523u	15.3874u
V 292.401	276.682	275.621	276.349
Zn 206.200	7283.52	7250.82	7330.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.0428	ppb	0.5789	19.0	248.194
Al 308.215	108578	ppb	604.127	0.6	330112
As 188.980	224.894	ppb	2.7989	1.2	151.470
B 249.678	27.9487	ppb	0.7913	2.8	12.6304
Ba 389.178	2333.07	ppb	5.7248	0.2	57835.0
Be 313.042	18.7993	ppb	0.0508	0.3	36007.0
Ca 370.602	322705	ppb	1227	0.4	1027011
Cd 226.502	23.1723	ppb	0.6311	2.7	2784.26
Co 228.615	97.2404	ppb	1.3647	1.4	1355.54
Cr 267.716	443.921	ppb	1.5697	0.4	23716.1
Cu 324.754	1559.82	ppb	12.7181	0.8	89186.3
Fe 271.441	525290	ppb	541.573	0.1	985251
K 766.491	13487.4	ppb	13.7306	0.1	540010
Mg 279.078	111116	ppb	329.543	0.3	258157
Mn 257.610	11667.6	ppb	24.4304	0.2	3123086
Mo 202.032	31.3616	ppb	0.4988	1.6	245.396
Na 330.237	1353.29	ppb	58.1185	4.3	-93.1955
Ni 231.604	206.377	ppb	2.1146	1.0	641.841
Pb 220.353	3508.54	ppb	14.9314	0.4	7372.14
Sb 206.834	9.5111	ppb	5.7702	60.7	48.5389
Se 196.026	-13.6434	ppb	7.5781	55.5	4.7333
Sn 189.925	175.003	ppb	2.4437	1.4	167.100
Sr 216.596	604.394	ppb	2.9084	0.5	8098.62
Ti 334.941	1957.52	ppb	1.8607	0.1	621042
Tl 190.794	17.1745	ppb	3.0985	18.0	-47.8865
V 292.401	276.217	ppb	0.5423	0.2	8167.54
Zn 206.200	7288.21	ppb	39.9388	0.5	41826.8



E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-a-32-a (Samp)**                      **5/1/2013, 2:58:42 PM**                      **Rack 1, Tube 24**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6155	1.3979	0.5731
Al 308.215	116596	116407	116085
As 188.980	210.675	214.740	207.853
B 249.678	2.8661u	2.6850u	2.8791u
Ba 389.178	2498.09	2497.40	2498.75
Be 313.042	13.8636	13.8741	13.8712
Ca 370.602	134163	134226	133931
Cd 226.502	12.0481	12.0562	11.6565
Co 228.615	117.761	116.042	116.312
Cr 267.716	771.887	772.944	772.242
Cu 324.754	16102.2	16121.7	16077.4
Fe 271.441	517523	516914	515413
K 766.491	12299.1	12312.6	12344.4
Mg 279.078	29471.5	29460.4	29378.4
Mn 257.610	18667.0	18625.4	18679.0
Mo 202.032	96.4017	96.1771	97.1039
Na 330.237	230.032u	414.634u	459.806u
Ni 231.604	340.366	341.739	337.577
Pb 220.353	2952.71	2947.13	2948.19
Sb 206.834	59.0980	51.4531	49.6982
Se 196.026	-1.9735	-7.6526	-21.2557u
Sn 189.925	268.505	270.134	270.097
Sr 216.596	389.165	388.243	386.017
Ti 334.941	1210.17	1210.14	1212.19
Tl 190.794	26.4361u	25.9488u	27.4779u
V 292.401	535.904	534.426	536.006
Zn 206.200	7569.57	7579.85	7552.72

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8621	ppb	0.4644	53.9	120.992
Al 308.215	116363	ppb	258.214	0.2	353781
As 188.980	211.090	ppb	3.4619	1.6	139.567
B 249.678	2.8101	ppb	0.1085	3.9	-307.747
Ba 389.178	2498.08	ppb	0.6749	0.0	61611.1
Be 313.042	13.8696	ppb	0.0054	0.0	26423.1
Ca 370.602	134107	ppb	155.1	0.1	402066
Cd 226.502	11.9203	ppb	0.2285	1.9	2294.18
Co 228.615	116.705	ppb	0.9245	0.8	1593.12
Cr 267.716	772.358	ppb	0.5378	0.1	41138.5
Cu 324.754	16100.4	ppb	22.2048	0.1	917110
Fe 271.441	516616	ppb	1086.13	0.2	968990
K 766.491	12318.7	ppb	23.2835	0.2	493247
Mg 279.078	29436.8	ppb	50.8483	0.2	68189.1
Mn 257.610	18657.1	ppb	28.1490	0.2	4991935
Mo 202.032	96.5609	ppb	0.4834	0.5	778.661
Na 330.237	368.158	ppb	121.734	33.1	-138.639
Ni 231.604	339.894	ppb	2.1205	0.6	1053.36
Pb 220.353	2949.34	ppb	2.9640	0.1	6205.34
Sb 206.834	53.4164	ppb	4.9980	9.4	98.1645
Se 196.026	-10.2939	ppb	9.9088	96.3	8.0784
Sn 189.925	269.579	ppb	0.9298	0.3	263.622
Sr 216.596	387.809	ppb	1.6185	0.4	5275.66
Ti 334.941	1210.83	ppb	1.1706	0.1	383968
Tl 190.794	26.6209	ppb	0.7811	2.9	-48.1235
V 292.401	535.445	ppb	0.8846	0.2	15790.4
Zn 206.200	7567.38	ppb	13.7007	0.2	12275.5

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/1/2013, 3:04:07 PM Rack 1, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.191	501.098	503.309
Al 308.215	4926.23	4905.79	4931.53
As 188.980	495.412	493.830	504.598
B 249.678	493.572	494.445	497.765
Ba 389.178	5094.27	5089.88	5105.03
Be 313.042	516.620	512.671	516.041
Ca 370.602	5031	5020	5043
Cd 226.502	519.922	518.682	519.454
Co 228.615	524.106	522.644	524.571
Cr 267.716	5158.37	5151.24	5154.82
Cu 324.754	5226.97	5104.10	5194.71
Fe 271.441	5004.20	4997.66	5031.08
K 766.491	10152.6	10147.6	10199.9
Mg 279.078	4983.23	4972.18	4978.27
Mn 257.610	5262.92	5239.25	5275.23
Mo 202.032	501.011	502.437	502.699
Na 330.237	7214.04	7156.39	7134.19
Ni 231.604	2599.23	2590.07	2576.17
Pb 220.353	493.536	495.397	493.079
Sb 206.834	949.562	937.686	948.802
Se 196.026	4913.57	4934.16	4933.53
Sn 189.925	5007.64	5017.35	4992.76
Sr 216.596	2525.29	2519.53	2523.18
Ti 334.941	493.681	493.582	494.999
Tl 190.794	4999.67	4994.08	5012.66
V 292.401	4951.64	4953.38	4967.59
Zn 206.200	2598.85	2596.46	2602.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.866	ppb	1.2504	0.2	40370.3	100.37320
Al 308.215	4921.18	ppb	13.5942	0.3	14946.9	98.42365
As 188.980	497.947	ppb	5.8141	1.2	354.037	99.58935
B 249.678	495.261	ppb	2.2125	0.4	6879.56	19.81043Q
Ba 389.178	5096.39	ppb	7.7974	0.2	124001	101.92785
Be 313.042	515.111	ppb	2.1328	0.4	992184	103.02211
Ca 370.602	5031	ppb	11.82	0.2	16576	100.62936
Cd 226.502	519.352	ppb	0.6261	0.1	21149.3	103.87050
Co 228.615	523.773	ppb	1.0058	0.2	7050.23	104.75468
Cr 267.716	5154.81	ppb	3.5603	0.1	273004	103.09622
Cu 324.754	5175.26	ppb	63.7013	1.2	294833	103.50519
Fe 271.441	5010.98	ppb	17.7099	0.4	9643.35	100.21955
K 766.491	10166.7	ppb	28.8649	0.3	407134	101.66686
Mg 279.078	4977.89	ppb	5.5371	0.1	11510.6	99.55789
Mn 257.610	5259.13	ppb	18.2885	0.3	1406725	105.18266
Mo 202.032	502.049	ppb	0.9084	0.2	4114.77	100.40977
Na 330.237	7168.21	ppb	41.2164	0.6	423.500	95.57607
Ni 231.604	2588.49	ppb	11.6123	0.4	7975.11	103.53957
Pb 220.353	494.004	ppb	1.2282	0.2	1068.33	98.80077
Sb 206.834	945.350	ppb	6.6480	0.7	1093.09	94.53503
Se 196.026	4927.09	ppb	11.7099	0.2	2454.72	98.54174
Sn 189.925	5005.92	ppb	12.3825	0.2	5102.29	100.11837
Sr 216.596	2522.67	ppb	2.9158	0.1	32445.2	100.90671
Ti 334.941	494.087	ppb	0.7910	0.2	156603	98.81742
Tl 190.794	5002.14	ppb	9.5330	0.2	5608.99	100.04270
V 292.401	4957.54	ppb	8.7494	0.2	146280	99.15071
Zn 206.200	2599.24	ppb	2.9975	0.1	4181.51	103.96976

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/1/2013, 3:09:30 PM                      Rack 1, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1371u	-0.1082u	0.2556
Al 308.215	1.7923	-3.1938u	-2.6920u
As 188.980	-3.3104u	-6.7546u	-3.5300u
B 249.678	-6.0445u	-7.0110u	-8.0270u
Ba 389.178	0.2097	-0.3811u	-0.3250u
Be 313.042	-0.0392u	-0.0275u	-0.0342u
Ca 370.602	-2.047u	4.896	3.104
Cd 226.502	-0.1235u	0.0107	-0.1361u
Co 228.615	-0.1420u	0.0605	-0.3255u
Cr 267.716	0.0580	0.3260	0.1680
Cu 324.754	0.4573	0.0526	-0.3332u
Fe 271.441	6.3556	2.8063	14.0549
K 766.491	0.0059	0.5333	-0.0379u
Mg 279.078	2.1625	3.8439	2.1232
Mn 257.610	0.0137	0.0850	0.1885
Mo 202.032	0.1430	-0.5075u	-0.2150u
Na 330.237	-86.8794u	92.9492	-287.569u
Ni 231.604	0.2787	1.2252	0.5843
Pb 220.353	1.0390	-1.1626u	-1.5401u
Sb 206.834	-4.6426u	3.2171	1.9537
Se 196.026	3.7423	4.5412	10.8245
Sn 189.925	0.3484	-2.7016u	0.5945
Sr 216.596	-0.1397u	-0.1489u	0.0218
Ti 334.941	0.0384	0.0231	0.0771
Tl 190.794	3.3993	-0.9888u	6.2835
V 292.401	-0.2161u	0.0293	-0.0634u
Zn 206.200	0.0169	0.9111	0.2124

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0034	ppb	0.2188	6360.0	-22.8495	0.00344
Al 308.215	-1.3645	ppb	2.7453	201.2	-7.6498	-1.36450
As 188.980	-4.5317	ppb	1.9282	42.5	-13.1362	-4.53166
B 249.678	-7.0275	ppb	0.9913	14.1	241.888	-7.02750
Ba 389.178	-0.1655	ppb	0.3261	197.1	-8.7096	-0.16547
Be 313.042	-0.0336	ppb	0.0059	17.6	-379.281	-0.03363
Ca 370.602	1.984	ppb	3.604	181.7	18.64	1.98413
Cd 226.502	-0.0830	ppb	0.0814	98.0	28.2352	-0.08299
Co 228.615	-0.1357	ppb	0.1931	142.3	10.3252	-0.13570
Cr 267.716	0.1840	ppb	0.1347	73.2	19.4054	0.18398
Cu 324.754	0.0589	ppb	0.3953	671.3	200.220	0.05889
Fe 271.441	7.7389	ppb	5.7505	74.3	120.210	7.73892
K 766.491	0.1671	ppb	0.3179	190.2	325.505	0.16713
Mg 279.078	2.7099	ppb	0.9823	36.2	40.6485	2.70987
Mn 257.610	0.0957	ppb	0.0879	91.8	93.1407	0.09573
Mo 202.032	-0.1932	ppb	0.3258	168.7	17.5414	-0.19316
Na 330.237	-93.8330	ppb	190.354	202.9	64.0800	-93.83296
Ni 231.604	0.6961	ppb	0.4830	69.4	-5.2704	0.69608
Pb 220.353	-0.5546	ppb	1.3929	251.2	34.3644	-0.55456
Sb 206.834	0.1760	ppb	4.2207	2397.4	21.1188	0.17605
Se 196.026	6.3693	ppb	3.8789	60.9	8.6882	6.36931
Sn 189.925	-0.5862	ppb	1.8361	313.2	-12.4358	-0.58623
Sr 216.596	-0.0889	ppb	0.0960	108.0	21.9872	-0.08894
Ti 334.941	0.0462	ppb	0.0278	60.3	-5.0758	0.04621
Tl 190.794	2.8980	ppb	3.6620	126.4	-14.5630	2.89802
V 292.401	-0.0834	ppb	0.1239	148.6	-8.2769	-0.08340
Zn 206.200	0.3801	ppb	0.4701	1233.7	0.2571	0.38013

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89695-a-33-a (Samp)      5/1/2013, 3:14:54 PM      Rack 1, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.5940	3.5318	3.8935
Al 308.215	129462	129848	131083
As 188.980	199.419	209.865	217.549
B 249.678	48.9542	50.2431	49.9927
Ba 389.178	2610.82	2610.60	2615.44
Be 313.042	21.0003	20.9549	21.0518
Ca 370.602	312478	312807	313705
Cd 226.502	29.8801	29.6350	29.5729
Co 228.615	93.2816	93.9364	94.2198
Cr 267.716	394.223	394.486	395.194
Cu 324.754	1164.01	1171.39	1170.20
Fe 271.441	452776	452346	455289
K 766.491	15843.1	15806.6	15786.6
Mg 279.078	86463.6	86535.8	86886.9
Mn 257.610	13097.8	13098.0	13148.3
Mo 202.032	34.9064	35.3504	35.5110
Na 330.237	1436.93u	1299.46u	1426.40u
Ni 231.604	215.216	214.362	217.124
Pb 220.353	4149.46	4155.15	4156.20
Sb 206.834	8.5717	7.1674	4.0589
Se 196.026	0.3715	-15.9701u	5.0352
Sn 189.925	138.013	134.009	137.311
Sr 216.596	707.603	708.814	709.441
Ti 334.941	2318.72	2309.48	2316.32
Tl 190.794	23.9593u	21.6078u	18.7301u
V 292.401	295.954	295.820	295.859
Zn 206.200	8777.11	8819.45	8845.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.6731	ppb	0.1934	5.3	302.127
Al 308.215	130131	ppb	846.810	0.7	395640
As 188.980	208.944	ppb	9.0999	4.4	140.581
B 249.678	49.7300	ppb	0.6834	1.4	395.625
Ba 389.178	2612.29	ppb	2.7364	0.1	64452.2
Be 313.042	21.0023	ppb	0.0485	0.2	40251.7
Ca 370.602	312997	ppb	635.1	0.2	1001009
Cd 226.502	29.6960	ppb	0.1624	0.5	2800.89
Co 228.615	93.8126	ppb	0.4812	0.5	1322.84
Cr 267.716	394.634	ppb	0.5025	0.1	21094.5
Cu 324.754	1168.53	ppb	3.9631	0.3	66882.5
Fe 271.441	453471	ppb	1589.69	0.4	850561
K 766.491	15812.1	ppb	28.6719	0.2	633032
Mg 279.078	86628.8	ppb	226.463	0.3	201197
Mn 257.610	13114.7	ppb	29.0863	0.2	3509742
Mo 202.032	35.2559	ppb	0.3132	0.9	281.272
Na 330.237	1387.60	ppb	76.5085	5.5	-83.7199
Ni 231.604	215.567	ppb	1.4140	0.7	668.440
Pb 220.353	4153.60	ppb	3.6289	0.1	8720.83
Sb 206.834	6.5994	ppb	2.3094	35.0	43.0663
Se 196.026	-3.5211	ppb	11.0304	313.3	9.6977
Sn 189.925	136.444	ppb	2.1382	1.6	127.705
Sr 216.596	708.619	ppb	0.9345	0.1	9404.37
Ti 334.941	2314.84	ppb	4.7954	0.2	734160
Tl 190.794	21.4324	ppb	2.6190	12.2	-41.3105
V 292.401	295.878	ppb	0.0686	0.0	8757.41
Zn 206.200	8814.16	ppb	34.7082	0.4	14283.2

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89695-a-34-a (Samp)**                      **5/1/2013, 3:20:18 PM**                      **Rack 1, Tube 28**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	4.4469	4.2355	3.9564
Al 308.215	101157	100693	100167
As 188.980	209.716	210.880	214.529
B 249.678	3.4617u	3.5138u	4.8330u
Ba 389.178	2906.99	2902.66	2901.94
Be 313.042	12.9776	12.9559	12.9572
Ca 370.602	174480	173763	173717
Cd 226.502	16.5270	16.3454	16.9320
Co 228.615	128.162	127.820	127.273
Cr 267.716	442.293	441.174	442.950
Cu 324.754	6755.96	6768.34	6884.48
Fe 271.441	412155	410462	412260
K 766.491	10609.8	10590.3	10586.8
Mg 279.078	43427.6	43308.6	43426.6
Mn 257.610	13410.3	13346.7	13403.4
Mo 202.032	22.2146	22.5487	22.6200
Na 330.237	152.881u	257.458u	197.335u
Ni 231.604	258.110	259.641	259.216
Pb 220.353	4068.69	4065.30	4074.07
Sb 206.834	9.9902	8.7246	4.8062
Se 196.026	-13.7604u	16.1112	-11.0899
Sn 189.925	432.282	428.122	438.078
Sr 216.596	475.903	475.301	476.893
Ti 334.941	993.794	992.583	993.256
Tl 190.794	20.3146u	14.9561u	25.2176u
V 292.401	357.584	357.082	358.234
Zn 206.200	10624.4	10587.7	10633.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.2130	ppb	0.2460	5.8	359.724
Al 308.215	100673	ppb	495.418	0.5	306074
As 188.980	211.708	ppb	2.5113	1.2	141.719
B 249.678	3.9361	ppb	0.7772	19.7	-154.509
Ba 389.178	2903.86	ppb	2.7294	0.1	71363.2
Be 313.042	12.9636	ppb	0.0122	0.1	24709.7
Ca 370.602	173987	ppb	427.9	0.2	543090
Cd 226.502	16.6015	ppb	0.3003	1.8	2122.77
Co 228.615	127.752	ppb	0.4483	0.4	1740.41
Cr 267.716	442.139	ppb	0.8978	0.2	23597.2
Cu 324.754	6802.93	ppb	70.9013	1.0	387685
Fe 271.441	411626	ppb	1008.91	0.2	772091
K 766.491	10595.6	ppb	12.3793	0.1	424298
Mg 279.078	43387.6	ppb	68.4087	0.2	100691
Mn 257.610	13386.8	ppb	34.8687	0.3	3582097
Mo 202.032	22.4611	ppb	0.2164	1.0	178.873
Na 330.237	202.558	ppb	52.4838	25.9	-136.732
Ni 231.604	258.989	ppb	0.7904	0.3	801.307
Pb 220.353	4069.35	ppb	4.4264	0.1	8545.73
Sb 206.834	7.8404	ppb	2.7028	34.5	44.0509
Se 196.026	-2.9130	ppb	16.5295	567.4	9.8185
Sn 189.925	432.827	ppb	5.0000	1.2	430.423
Sr 216.596	476.032	ppb	0.8039	0.2	6370.51
Ti 334.941	993.211	ppb	0.6069	0.1	315051
Tl 190.794	20.1628	ppb	5.1325	25.5	-40.6878
V 292.401	357.633	ppb	0.5778	0.2	10561.9
Zn 206.200	10615.2	ppb	24.2734	0.2	417186.9

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89678-c-1-a (Samp)**                      **5/1/2013, 3:25:43 PM**                      **Rack 1, Tube 29**  
**Weight: 1**                                      **Volume: 1**                                      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4132u	0.0741	0.0155
Al 308.215	23024.4	23008.9	23126.9
As 188.980	-2.0059u	-1.8338u	-2.5153u
B 249.678	-15.9265u	-15.3097u	-15.9597u
Ba 389.178	189.616	188.960	189.444
Be 313.042	1.5332	1.5408	1.5460
Ca 370.602	1121	1121	1126
Cd 226.502	-0.0361	0.0115	0.0436
Co 228.615	24.2200	23.6612	25.0234
Cr 267.716	79.7394	79.9445	80.2497
Cu 324.754	33.1723	32.8330	33.8596
Fe 271.441	36231.6	36304.9	36465.2
K 766.491	4038.04	4047.20	4072.52
Mg 279.078	6057.23	6062.18	6098.04
Mn 257.610	773.539	774.943	778.341
Mo 202.032	0.1490u	0.5944	-0.0646u
Na 330.237	303.208u	254.490u	343.150u
Ni 231.604	28.2770	28.8323	30.7026
Pb 220.353	51.2060	49.5579	52.7725
Sb 206.834	-3.3445u	-1.0662	-4.8471u
Se 196.026	8.4069	4.2257	-3.3312u
Sn 189.925	10.9469	9.6828	11.6360
Sr 216.596	8.6250	8.5452	9.3572
Ti 334.941	1579.44	1586.52	1593.44
Tl 190.794	2.5345u	2.9132u	-0.5102u
V 292.401	90.9702	91.0861	91.7580
Zn 206.200	382.963	386.733	387.492

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1079	ppb	0.2661	246.6	-27.9428
Al 308.215	23053.4	ppb	64.1084	0.3	70086.0
As 188.980	-2.1183	ppb	0.3544	16.7	-11.7990
B 249.678	-15.7320	ppb	0.3661	2.3	78.9620
Ba 389.178	189.340	ppb	0.3401	0.2	4671.85
Be 313.042	1.5400	ppb	0.0065	0.4	2651.21
Ca 370.602	1123	ppb	2.931	0.3	993.5
Cd 226.502	0.0063	ppb	0.0401	633.8	156.934
Co 228.615	24.3015	ppb	0.6848	2.8	384.864
Cr 267.716	79.9779	ppb	0.2568	0.3	4261.43
Cu 324.754	33.2883	ppb	0.5230	1.6	2103.45
Fe 271.441	36333.9	ppb	119.494	0.3	68251.6
K 766.491	4052.59	ppb	17.8573	0.4	162481
Mg 279.078	6072.49	ppb	22.2713	0.4	14134.5
Mn 257.610	775.608	ppb	2.4693	0.3	207667
Mo 202.032	0.2262	ppb	0.3362	148.6	18.7274
Na 330.237	300.283	ppb	44.4020	14.8	58.1419
Ni 231.604	29.2706	ppb	1.2708	4.3	83.7405
Pb 220.353	51.1788	ppb	1.6075	3.1	141.597
Sb 206.834	-3.0859	ppb	1.9037	61.7	19.3461
Se 196.026	3.1005	ppb	5.9494	191.9	7.4702
Sn 189.925	10.7552	ppb	0.9906	9.2	-0.8497
Sr 216.596	8.8425	ppb	0.4475	5.1	154.286
Ti 334.941	1586.47	ppb	7.0039	0.4	502835
Tl 190.794	1.6459	ppb	1.8767	114.0	-19.2801
V 292.401	91.2714	ppb	0.4253	0.5	2716.99
Zn 206.200	385.730	ppb	2.4257	0.6	626.362

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89678-c-2-a (Samp)**                      **5/1/2013, 3:31:07 PM**                      **Rack 1, Tube 30**  
**Weight: 1**                                      **Volume: 1**                                      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5117u	-0.3763u	-0.2883u
Al 308.215	21171.4	21100.0	21084.5
As 188.980	-2.1386u	-5.4758u	2.0263
B 249.678	-18.1132u	-19.2614u	-18.2033u
Ba 389.178	153.314	154.651	153.432
Be 313.042	2.3551	2.3483	2.3472
Ca 370.602	1330	1343	1328
Cd 226.502	-0.7228	-0.2826	-0.4427
Co 228.615	23.4037	24.1516	22.8740
Cr 267.716	258.746	258.311	257.867
Cu 324.754	31.9061	32.2046	31.7982
Fe 271.441	55451.1	55320.3	55245.8
K 766.491	2743.25	2740.18	2742.67
Mg 279.078	4497.79	4476.04	4472.16
Mn 257.610	875.448	872.975	871.242
Mo 202.032	-0.0223u	0.6476	0.9033
Na 330.237	206.273u	169.484u	438.357u
Ni 231.604	30.6234	31.4349	29.1807
Pb 220.353	58.5315	57.3475	60.2254
Sb 206.834	-5.2448u	-6.5525u	-1.0524
Se 196.026	-5.3604u	-4.7770u	-1.7397u
Sn 189.925	11.6399	12.0361	14.8118
Sr 216.596	11.1969	10.1759	10.2650
Ti 334.941	1412.96	1409.04	1407.94
Tl 190.794	1.8784u	3.7513u	-0.9148u
V 292.401	154.555	154.558	153.766
Zn 206.200	264.621	262.150	264.470

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3921	ppb	0.1125	28.7	-50.1009
Al 308.215	21118.6	ppb	46.3444	0.2	64203.1
As 188.980	-1.8627	ppb	3.7587	201.8	-11.8393
B 249.678	-18.5260	ppb	0.6385	3.4	17.0235
Ba 389.178	153.799	ppb	0.7400	0.5	3831.28
Be 313.042	2.3502	ppb	0.0043	0.2	4209.98
Ca 370.602	1334	ppb	7.726	0.6	56.85
Cd 226.502	-0.4827	ppb	0.2228	46.2	202.364
Co 228.615	23.4764	ppb	0.6419	2.7	368.382
Cr 267.716	258.308	ppb	0.4394	0.2	13711.0
Cu 324.754	31.9696	ppb	0.2105	0.7	2034.04
Fe 271.441	55339.0	ppb	103.927	0.2	103894
K 766.491	2742.03	ppb	1.6306	0.1	110040
Mg 279.078	4482.00	ppb	13.8140	0.3	10440.5
Mn 257.610	873.221	ppb	2.1138	0.2	233824
Mo 202.032	0.5095	ppb	0.4780	93.8	19.8409
Na 330.237	271.371	ppb	145.779	53.7	53.1041
Ni 231.604	30.4130	ppb	1.1418	3.8	87.7237
Pb 220.353	58.7015	ppb	1.4465	2.5	157.475
Sb 206.834	-4.2832	ppb	2.8734	67.1	20.4114
Se 196.026	-3.9590	ppb	1.9440	49.1	4.0986
Sn 189.925	12.8292	ppb	1.7283	13.5	1.2686
Sr 216.596	10.5459	ppb	0.5655	5.4	185.490
Ti 334.941	1409.98	ppb	2.6371	0.2	446893
Tl 190.794	1.5716	ppb	2.3481	149.4	-20.5852
V 292.401	154.293	ppb	0.4562	0.3	4567.35
Zn 206.200	263.747	ppb	1.3849	0.5	430.917

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-c-3-a (Samp)                      5/1/2013, 3:36:32 PM                      Rack 1, Tube 31  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1036u	-0.2893u	-0.0345
Al 308.215	31548.5	31700.0	31936.2
As 188.980	1.5457	-1.1228u	-3.2922u
B 249.678	-18.3273u	-18.3076u	-19.0136u
Ba 389.178	210.447	210.285	211.375
Be 313.042	1.6409	1.6428	1.6496
Ca 370.602	1041u	1037u	1044u
Cd 226.502	-0.4536	-0.2602	-0.0594
Co 228.615	23.1038	23.2205	23.9318
Cr 267.716	87.8935	88.3740	88.6554
Cu 324.754	82.1198	80.8252	82.8071
Fe 271.441	46175.7	46275.8	46571.2
K 766.491	5225.68	5234.41	5267.77
Mg 279.078	7215.22	7248.66	7282.09
Mn 257.610	1085.02	1087.71	1092.15
Mo 202.032	0.1856u	0.2109u	0.7942
Na 330.237	328.504u	279.989u	410.510u
Ni 231.604	30.1733	30.4288	31.6210
Pb 220.353	64.1366	67.1492	67.1764
Sb 206.834	-2.0807u	-0.3504	0.5131
Se 196.026	-6.7964u	-0.7235	1.8843
Sn 189.925	14.7190	14.4542	14.7410
Sr 216.596	10.2134	10.2823	10.6689
Ti 334.941	1746.63	1749.49	1755.89
Tl 190.794	4.6577	0.5006u	4.8229
V 292.401	96.8163	96.9900	97.1351
Zn 206.200	362.489	365.462	370.771

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1425	ppb	0.1318	92.5	-29.2312
Al 308.215	31728.2	ppb	195.424	0.6	96460.4
As 188.980	-0.9564	ppb	2.4232	253.4	-11.0713
B 249.678	-18.5495	ppb	0.4021	2.2	28.5346
Ba 389.178	210.702	ppb	0.5880	0.3	5209.58
Be 313.042	1.6444	ppb	0.0046	0.3	2852.64
Ca 370.602	1040	ppb	3.440	0.3	-85.30
Cd 226.502	-0.2577	ppb	0.1971	76.5	180.639
Co 228.615	23.4187	ppb	0.4481	1.9	377.607
Cr 267.716	88.3076	ppb	0.3852	0.4	4707.08
Cu 324.754	81.9174	ppb	1.0063	1.2	4875.65
Fe 271.441	46340.9	ppb	205.606	0.4	87018.7
K 766.491	5242.62	ppb	22.2118	0.4	210100
Mg 279.078	7248.66	ppb	33.4348	0.5	16861.9
Mn 257.610	1088.29	ppb	3.5990	0.3	291337
Mo 202.032	0.3969	ppb	0.3443	86.7	19.5468
Na 330.237	339.668	ppb	65.9728	19.4	55.9756
Ni 231.604	30.7410	ppb	0.7727	2.5	88.5216
Pb 220.353	66.1541	ppb	1.7472	2.6	172.861
Sb 206.834	-0.6393	ppb	1.3208	206.6	22.3204
Se 196.026	-1.8785	ppb	4.4542	237.1	5.1329
Sn 189.925	14.6381	ppb	0.1596	1.1	3.1167
Sr 216.596	10.3882	ppb	0.2455	2.4	179.033
Ti 334.941	1750.67	ppb	4.7394	0.3	554886
Tl 190.794	3.3270	ppb	2.4492	73.6	-18.4769
V 292.401	96.9805	ppb	0.1596	0.2	2888.15
Zn 206.200	366.241	ppb	4.1953	294.1	595.976



E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-c-4-a (Samp) 5/1/2013, 3:41:57 PM Rack 1, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2702u	-0.0904u	-0.1554u
Al 308.215	87591.3	86472.5	88581.1
As 188.980	1.6063	-0.7071u	0.0217u
B 249.678	-16.5442u	-16.3732u	-16.8804u
Ba 389.178	496.533	492.470	493.546
Be 313.042	2.3172	2.2850	2.2870
Ca 370.602	3324	3298	3310
Cd 226.502	-0.7405	-0.5205	-0.5634
Co 228.615	17.7651	17.3151	17.2903
Cr 267.716	84.2547	83.7351	83.5916
Cu 324.754	56.0216	55.7082	56.2116
Fe 271.441	56940.6	56415.2	56394.7
K 766.491	3886.85	3846.20	3834.47
Mg 279.078	6768.39	6701.30	6722.59
Mn 257.610	300.047	296.731	297.207
Mo 202.032	1.3598	1.3560	1.0107
Na 330.237	485.630u	583.891u	395.385u
Ni 231.604	27.3645	26.4901	27.8914
Pb 220.353	55.6144	52.1836	55.6848
Sb 206.834	-3.8221u	0.9492	-5.1285u
Se 196.026	-6.7190u	4.0207	-7.3150u
Sn 189.925	10.2912	12.8332	11.7567
Sr 216.596	36.5648	35.7159	35.1139
Ti 334.941	3103.61	3070.13	3068.28
Tl 190.794	4.8668	1.3895u	2.0880u
V 292.401	207.160	205.349	204.944
Zn 206.200	130.786	129.186	128.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1720	ppb	0.0910	52.9	-35.7495
Al 308.215	87548.3	ppb	1054.96	1.2	266172
As 188.980	0.3070	ppb	1.1828	385.3	-10.2499
B 249.678	-16.5993	ppb	0.2580	1.6	40.7560
Ba 389.178	494.183	ppb	2.1051	0.4	12119.5
Be 313.042	2.2964	ppb	0.0181	0.8	4111.12
Ca 370.602	3311	ppb	12.79	0.4	6809
Cd 226.502	-0.6081	ppb	0.1166	19.2	201.892
Co 228.615	17.4568	ppb	0.2672	1.5	337.302
Cr 267.716	83.8605	ppb	0.3489	0.4	4472.69
Cu 324.754	55.9805	ppb	0.2542	0.5	3401.07
Fe 271.441	56583.5	ppb	309.424	0.5	106228
K 766.491	3855.84	ppb	27.4898	0.7	154609
Mg 279.078	6730.76	ppb	34.2865	0.5	15656.6
Mn 257.610	297.995	ppb	1.7930	0.6	79993.6
Mo 202.032	1.2421	ppb	0.2005	16.1	25.6448
Na 330.237	488.302	ppb	94.2816	19.3	51.8626
Ni 231.604	27.2486	ppb	0.7078	2.6	78.0256
Pb 220.353	54.4943	ppb	2.0014	3.7	147.255
Sb 206.834	-2.6671	ppb	3.1992	119.9	20.3327
Se 196.026	-3.3378	ppb	6.3796	191.1	4.2723
Sn 189.925	11.6270	ppb	1.2760	11.0	0.0414
Sr 216.596	35.7982	ppb	0.7289	2.0	511.669
Ti 334.941	3080.68	ppb	19.8871	0.6	976424
Tl 190.794	2.7814	ppb	1.8395	66.1	-18.3225
V 292.401	205.818	ppb	1.1800	0.6	6131.69
Zn 206.200	129.638	ppb	1.0013	0.8	415.040

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-c-5-a (Samp)                      5/1/2013, 3:47:55 PM                      Rack 1, Tube 33  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6661u	-0.7951u	-0.8457u
Al 308.215	167524	166829	168042
As 188.980	7.6157	12.3793	1.9725
B 249.678	-19.0151u	-20.0488u	-19.3254u
Ba 389.178	1198.31	1193.71	1196.94
Be 313.042	5.8112	5.7981	5.8061
Ca 370.602	3738	3734	3737
Cd 226.502	-1.5760	-1.8113	-1.5879
Co 228.615	32.4927	33.2843	32.4513
Cr 267.716	103.967	103.933	104.209
Cu 324.754	68.9483	67.9213	67.9791
Fe 271.441	119434	119250	119724
K 766.491	30274.7	30115.1	30139.2
Mg 279.078	30426.8	30398.9	30486.3
Mn 257.610	1827.40	1825.05	1831.42
Mo 202.032	1.5336	2.1576	2.4276
Na 330.237	1118.65u	1107.01u	1081.56u
Ni 231.604	36.0161	35.7206	33.3165
Pb 220.353	96.1287	95.5323	97.0060
Sb 206.834	-6.5781u	-1.6701	-4.2075u
Se 196.026	5.7599	-11.1117u	2.6798
Sn 189.925	21.3824	15.2363	16.9293
Sr 216.596	50.2993	50.8906	51.3566
Ti 334.941	9390.51	9357.43	9376.21
Tl 190.794	8.1839u	8.6182u	5.1601u
V 292.401	308.162	306.310	307.711
Zn 206.200	293.504	287.323	293.785

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7690	ppb	0.0926	12.0	-76.5746
Al 308.215	167465	ppb	608.343	0.4	509145
As 188.980	7.3225	ppb	5.2096	71.1	-5.8789
B 249.678	-19.4631	ppb	0.5304	2.7	-79.9361
Ba 389.178	1196.32	ppb	2.3591	0.2	29357.9
Be 313.042	5.8052	ppb	0.0066	0.1	10872.9
Ca 370.602	3736	ppb	2.023	0.1	4151
Cd 226.502	-1.6584	ppb	0.1325	8.0	376.275
Co 228.615	32.7427	ppb	0.4694	1.4	729.805
Cr 267.716	104.036	ppb	0.1506	0.1	5577.97
Cu 324.754	68.2829	ppb	0.5770	0.8	4121.56
Fe 271.441	119469	ppb	238.696	0.2	224169
K 766.491	30176.3	ppb	86.0509	0.3	1207811
Mg 279.078	30437.3	ppb	44.6550	0.1	70716.4
Mn 257.610	1827.96	ppb	3.2205	0.2	489556
Mo 202.032	2.0396	ppb	0.4585	22.5	28.3916
Na 330.237	1102.41	ppb	18.9656	1.7	13.4696
Ni 231.604	35.0177	ppb	1.4807	4.2	103.548
Pb 220.353	96.2223	ppb	0.7413	0.8	230.465
Sb 206.834	-4.1519	ppb	2.4545	59.1	20.5127
Se 196.026	-0.8907	ppb	8.9846	1008.8	6.2380
Sn 189.925	17.8493	ppb	3.1747	17.8	6.3960
Sr 216.596	50.8489	ppb	0.5299	1.0	736.096
Ti 334.941	9374.72	ppb	16.5923	0.2	2971406
Tl 190.794	7.3208	ppb	1.8837	25.7	-19.2936
V 292.401	307.395	ppb	0.9661	0.3	9243.25
Zn 206.200	291.537	ppb	3.6525	1.3	483.443

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89678-c-12-a (Samp)**      **5/1/2013, 3:53:21 PM**      **Rack 1, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3314u	-0.5266u	-0.8330u
Al 308.215	132229	132194	130983
As 188.980	0.0970u	4.6315	8.1106
B 249.678	-19.5512u	-19.2655u	-20.3921u
Ba 389.178	479.042	477.932	475.118
Be 313.042	5.7173	5.7163	5.6751
Ca 370.602	906.6u	902.8u	918.7u
Cd 226.502	-1.0557	-1.0571	-1.2679
Co 228.615	46.3107	47.4921	46.4011
Cr 267.716	159.510	158.983	157.726
Cu 324.754	77.3705	76.8757	77.6145
Fe 271.441	92205.1	92161.7	91622.0
K 766.491	12394.0	12379.6	12329.8
Mg 279.078	13553.3	13545.5	13439.4
Mn 257.610	707.069	705.784	700.399
Mo 202.032	2.0038	1.2370	1.7928
Na 330.237	397.762u	582.087u	482.367u
Ni 231.604	48.5337	48.8058	47.9292
Pb 220.353	89.7879	87.8657	85.4788
Sb 206.834	-1.5976	-1.1870	-7.2318u
Se 196.026	-11.4864u	-0.6262	-4.8655u
Sn 189.925	17.3321	14.8858	17.3766
Sr 216.596	22.5179	22.8027	22.3271
Ti 334.941	4508.33	4508.60	4475.69
Tl 190.794	3.2692u	2.5608u	3.0860u
V 292.401	301.818	301.970	299.993
Zn 206.200	176.431	174.474	172.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8970	ppb	0.4062	45.3	-90.9336
Al 308.215	131802	ppb	709.486	0.5	400717
As 188.980	4.2797	ppb	4.0184	93.9	-7.7959
B 249.678	-19.7363	ppb	0.5857	3.0	-47.0838
Ba 389.178	477.364	ppb	2.0230	0.4	11781.5
Be 313.042	5.7029	ppb	0.0241	0.4	10674.4
Ca 370.602	909.4	ppb	8.325	0.9	-3854
Cd 226.502	-1.1269	ppb	0.1221	10.8	302.161
Co 228.615	46.7346	ppb	0.6576	1.4	771.687
Cr 267.716	158.739	ppb	0.9169	0.6	8452.16
Cu 324.754	77.2869	ppb	0.3764	0.5	4625.00
Fe 271.441	91996.3	ppb	324.854	0.4	172647
K 766.491	12367.8	ppb	33.7126	0.3	495211
Mg 279.078	13512.7	ppb	63.5909	0.5	31405.9
Mn 257.610	704.417	ppb	3.5387	0.5	188852
Mo 202.032	1.6779	ppb	0.3961	23.6	27.0168
Na 330.237	487.405	ppb	92.2656	18.9	29.3043
Ni 231.604	48.4229	ppb	0.4487	0.9	144.197
Pb 220.353	87.7108	ppb	2.1588	2.5	215.750
Sb 206.834	-3.3388	ppb	3.3777	101.2	21.2897
Se 196.026	-5.6594	ppb	5.4734	96.7	3.4268
Sn 189.925	16.5315	ppb	1.4254	8.6	5.0493
Sr 216.596	22.5492	ppb	0.2393	1.1	357.466
Ti 334.941	4497.54	ppb	18.9222	0.4	1425530
Tl 190.794	2.9720	ppb	0.3677	12.4	-20.7381
V 292.401	301.261	ppb	1.1004	0.4	8975.27
Zn 206.200	174.616	ppb	1.7489	1.0	421.362

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-c-13-a (Samp) 5/1/2013, 3:58:47 PM Rack 1, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2163u	-0.1793u	0.1859
Al 308.215	31044.3	31113.9	31182.6
As 188.980	1.4190	-1.9795u	0.8608
B 249.678	-18.8011u	-18.5545u	-17.6135u
Ba 389.178	141.289	141.416	142.066
Be 313.042	2.1461	2.1488	2.1720
Ca 370.602	647.4u	641.5u	644.0u
Cd 226.502	-0.2602	-0.5599	-0.2928
Co 228.615	12.1871	11.7171	12.1443
Cr 267.716	73.3663	73.4286	73.7821
Cu 324.754	15.6685	16.0750	16.0844
Fe 271.441	34292.0	34274.3	34422.4
K 766.491	4142.49	4138.65	4162.83
Mg 279.078	4433.48	4424.12	4452.90
Mn 257.610	541.489	540.913	542.697
Mo 202.032	4.3625	3.6885	4.1002
Na 330.237	268.249u	386.604u	248.994u
Ni 231.604	16.4858	16.0146	17.6476
Pb 220.353	20.0927	20.6801	22.6061
Sb 206.834	-3.1800u	-2.9821u	3.2773
Se 196.026	7.1965	-7.1820u	0.7184
Sn 189.925	12.3725	15.6675	11.3117
Sr 216.596	9.3699	9.1426	9.2723
Ti 334.941	1527.88	1527.31	1535.20
Tl 190.794	1.3788u	1.4499u	0.1699u
V 292.401	94.6000	94.9643	95.3071
Zn 206.200	65.4993	67.5951	68.4503

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0699	ppb	0.2223	318.0	-25.9544
Al 308.215	31113.6	ppb	69.1353	0.2	94592.1
As 188.980	0.1001	ppb	1.8225	1821.0	-10.1585
B 249.678	-18.3230	ppb	0.6267	3.4	47.3774
Ba 389.178	141.590	ppb	0.4167	0.3	3502.83
Be 313.042	2.1556	ppb	0.0142	0.7	3837.64
Ca 370.602	644.3	ppb	2.995	0.5	-438.8
Cd 226.502	-0.3710	ppb	0.1644	44.3	134.548
Co 228.615	12.0162	ppb	0.2599	2.2	218.244
Cr 267.716	73.5257	ppb	0.2243	0.3	3917.97
Cu 324.754	15.9426	ppb	0.2375	1.5	1115.19
Fe 271.441	34329.5	ppb	80.8989	0.2	64490.6
K 766.491	4147.99	ppb	12.9950	0.3	166299
Mg 279.078	4436.83	ppb	14.6800	0.3	10334.1
Mn 257.610	541.700	ppb	0.9105	0.2	145089
Mo 202.032	4.0504	ppb	0.3398	8.4	50.1143
Na 330.237	301.282	ppb	74.5150	24.7	61.7222
Ni 231.604	16.7160	ppb	0.8405	5.0	44.9777
Pb 220.353	21.1263	ppb	1.3148	6.2	78.7265
Sb 206.834	-0.9616	ppb	3.6724	381.9	21.4724
Se 196.026	0.2443	ppb	7.2009	2947.5	5.9811
Sn 189.925	13.1172	ppb	2.2714	17.3	1.5632
Sr 216.596	9.2616	ppb	0.1140	1.2	158.731
Ti 334.941	1530.13	ppb	4.3985	0.3	484972
Tl 190.794	0.9995	ppb	0.7194	72.0	-19.5109
V 292.401	94.9571	ppb	0.3536	0.4	2824.72
Zn 206.200	67.1816	ppb	1.5183	2.3	411.720

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89678-c-14-a (Samp)**      **5/1/2013, 4:04:13 PM**      **Rack 1, Tube 36****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1948u	-0.3889u	-0.0995
Al 308.215	13205.6	13171.3	13202.9
As 188.980	0.5835	3.9427	1.7074
B 249.678	-18.4858u	-18.6127u	-17.8206u
Ba 389.178	100.978	100.053	100.706
Be 313.042	2.8234	2.8051	2.8310
Ca 370.602	540.7	538.9	555.4
Cd 226.502	-0.0753	0.1179	0.0159
Co 228.615	11.4915	11.3192	10.9734
Cr 267.716	37.3280	36.8430	37.3073
Cu 324.754	14.2498	14.5164	14.4129
Fe 271.441	21141.3	21051.5	21178.6
K 766.491	1653.01	1645.66	1651.95
Mg 279.078	1574.57	1566.10	1572.84
Mn 257.610	2733.98	2719.39	2744.55
Mo 202.032	1.1850	1.2293	0.5065
Na 330.237	136.407u	180.137u	92.2542u
Ni 231.604	11.5695	10.5841	12.0713
Pb 220.353	20.3174	21.3074	16.6318
Sb 206.834	-0.3196	-5.0160u	-7.3273u
Se 196.026	-1.8882u	-0.0459	0.1457
Sn 189.925	12.3383	13.5112	11.3303
Sr 216.596	5.9393	6.1041	6.4917
Ti 334.941	618.012	614.854	619.591
Tl 190.794	5.3411	10.1819	6.1037
V 292.401	48.3513	48.3106	48.1445
Zn 206.200	79.8543	78.1553	78.7430

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2277	ppb	0.1475	64.8	-28.0835
Al 308.215	13193.3	ppb	19.0838	0.1	40108.2
As 188.980	2.0779	ppb	1.7100	82.3	-8.5534
B 249.678	-18.3064	ppb	0.4255	2.3	64.9333
Ba 389.178	100.579	ppb	0.4752	0.5	2477.62
Be 313.042	2.8199	ppb	0.0133	0.5	5118.25
Ca 370.602	545.0	ppb	9.059	1.7	234.6
Cd 226.502	0.0195	ppb	0.0967	495.5	105.020
Co 228.615	11.2614	ppb	0.2638	2.3	181.101
Cr 267.716	37.1594	ppb	0.2743	0.7	1997.24
Cu 324.754	14.3930	ppb	0.1344	0.9	1022.97
Fe 271.441	21123.8	ppb	65.2942	0.3	39723.7
K 766.491	1650.21	ppb	3.9734	0.2	66351.0
Mg 279.078	1571.17	ppb	4.4739	0.3	3637.95
Mn 257.610	2732.64	ppb	12.6325	0.5	731016
Mo 202.032	0.9736	ppb	0.4051	41.6	25.7914
Na 330.237	136.266	ppb	43.9418	32.2	64.2362
Ni 231.604	11.4083	ppb	0.7566	6.6	28.2822
Pb 220.353	19.4189	ppb	2.4639	12.7	76.4121
Sb 206.834	-4.2209	ppb	3.5708	84.6	17.2986
Se 196.026	-0.5961	ppb	1.1231	188.4	6.0301
Sn 189.925	12.3932	ppb	1.0915	8.8	0.8239
Sr 216.596	6.1783	ppb	0.2836	4.6	112.813
Ti 334.941	617.486	ppb	2.4119	0.4	195699
Tl 190.794	7.2089	ppb	2.6028	36.1	-15.4007
V 292.401	48.2688	ppb	0.1096	0.2	1430.48
Zn 206.200	78.9175	ppb	0.8628	1.1	429.321

Cont Calib Verif (CCV) 5/1/2013, 4:09:38 PM Rack 1, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.605	500.952	494.069
Al 308.215	4890.05	4893.33	4885.38
As 188.980	504.507	498.884	493.422
B 249.678	490.583	490.484	491.550
Ba 389.178	5079.43	5080.86	5052.62
Be 313.042	514.995	514.974	510.991
Ca 370.602	5012	5003	4981
Cd 226.502	518.299	520.396	516.602
Co 228.615	522.163	524.328	521.534
Cr 267.716	5156.77	5163.01	5127.37
Cu 324.754	5136.59	5140.76	5095.85
Fe 271.441	5000.15	5013.24	4992.44
K 766.491	10109.9	10109.0	10057.2
Mg 279.078	4960.30	4969.76	4945.14
Mn 257.610	5264.13	5243.59	5241.65
Mo 202.032	501.162	499.954	497.269
Na 330.237	7241.11	7329.69	7224.33
Ni 231.604	2579.39	2608.74	2581.43
Pb 220.353	497.144	490.160	490.397
Sb 206.834	943.760	950.749	936.328
Se 196.026	4924.45	4941.46	4887.77
Sn 189.925	4980.77	5054.86	4968.10
Sr 216.596	2520.77	2523.39	2504.49
Ti 334.941	492.868	492.833	489.845
Tl 190.794	4979.04	4992.32	4954.34
V 292.401	4945.33	4952.13	4926.77
Zn 206.200	2600.86	2603.12	2587.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.209	ppb	3.6476	0.7	40075.5	99.64177
Al 308.215	4889.59	ppb	3.9962	0.1	14850.9	97.79178
As 188.980	498.938	ppb	5.5427	1.1	354.762	99.78751
B 249.678	490.872	ppb	0.5894	0.1	6821.51	19.63489Q
Ba 389.178	5070.97	ppb	15.9111	0.3	123382	101.41943
Be 313.042	513.653	ppb	2.3061	0.4	989376	102.73067
Ca 370.602	4999	ppb	15.63	0.3	16467	99.97692
Cd 226.502	518.432	ppb	1.9008	0.4	21111.9	103.68650
Co 228.615	522.675	ppb	1.4660	0.3	7035.47	104.53500
Cr 267.716	5149.05	ppb	19.0359	0.4	272699	102.98103
Cu 324.754	5124.40	ppb	24.8099	0.5	291937	102.48803
Fe 271.441	5001.94	ppb	10.5149	0.2	9626.07	100.03882
K 766.491	10092.0	ppb	30.2051	0.3	404147	100.92024
Mg 279.078	4958.40	ppb	12.4159	0.3	11465.5	99.16799
Mn 257.610	5249.79	ppb	12.4540	0.2	1404225	104.99577
Mo 202.032	499.461	ppb	1.9926	0.4	4093.64	99.89228
Na 330.237	7265.04	ppb	56.6100	0.8	428.635	96.86721
Ni 231.604	2589.85	ppb	16.3868	0.6	7979.31	103.59404
Pb 220.353	492.567	ppb	3.9655	0.8	1065.33	98.51339
Sb 206.834	943.613	ppb	7.2117	0.8	1091.18	94.36125
Se 196.026	4917.89	ppb	27.4425	0.6	2450.15	98.35785
Sn 189.925	5001.24	ppb	46.8649	0.9	5097.51	100.02483
Sr 216.596	2516.22	ppb	10.2421	0.4	32362.1	100.64879
Ti 334.941	491.849	ppb	1.7353	0.4	155893	98.36974
Tl 190.794	4975.23	ppb	19.2740	0.4	5578.70	99.50468
V 292.401	4941.41	ppb	13.1253	0.3	145804	98.82824
Zn 206.200	2597.06	ppb	8.6204	0.3	4177.99	103.88222

**Cont Calib Blank (CCB)                      5/1/2013, 4:15:02 PM                      Rack 1, Tube 38**  
**Weight: 1    Volume: 1    Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1546u	0.0941	-0.2601u
Al 308.215	0.7127	1.5153	-4.7463u
As 188.980	-0.8606u	-1.3779u	-2.6809u
B 249.678	-7.8848u	-9.0302u	-9.6737u
Ba 389.178	-0.1433u	0.3381	-0.0718u
Be 313.042	-0.0348u	-0.0508u	-0.0327u
Ca 370.602	-4.939u	1.130	2.835
Cd 226.502	0.0549	0.1131	0.0750
Co 228.615	-0.2020u	-0.0334u	-0.5064u
Cr 267.716	-0.0014u	0.3021	0.1031
Cu 324.754	0.3422	0.3211	-0.1990u
Fe 271.441	6.4837	3.0915	-0.7936u
K 766.491	-0.7947u	-0.4043u	-0.0501u
Mg 279.078	5.6548	3.0877	3.1938
Mn 257.610	0.0126	0.0128	0.0431
Mo 202.032	0.4352	-0.3643u	-0.3928u
Na 330.237	-24.9698u	-150.318u	21.8705
Ni 231.604	-0.6491u	0.6917	0.8960
Pb 220.353	-0.0408u	-0.3540u	-0.2413u
Sb 206.834	-1.7056u	3.7949	2.1366
Se 196.026	-0.5058u	4.5984	-0.0319u
Sn 189.925	0.9194	-0.0089u	-3.9945u
Sr 216.596	0.2975	-0.0498u	0.0536
Ti 334.941	0.0819	0.0321	0.0754
Tl 190.794	1.8524	0.2800	0.3759
V 292.401	-0.4270u	-0.0141u	-0.0142u
Zn 206.200	0.5439	0.3650	-0.9183u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1069	ppb	0.1819	170.1	-31.7632	-0.10689
Al 308.215	-0.8394	ppb	3.4072	405.9	-6.0463	-0.83943
As 188.980	-1.6398	ppb	0.9380	57.2	-11.0221	-1.63977
B 249.678	-8.8629	ppb	0.9061	10.2	217.613	-8.86291
Ba 389.178	0.0410	ppb	0.2598	633.1	-3.6867	0.04103
Be 313.042	-0.0395	ppb	0.0099	25.1	-390.530	-0.03945
Ca 370.602	-0.3249	ppb	4.086	1257.7	11.21	-0.32486
Cd 226.502	0.0810	ppb	0.0296	36.5	34.8875	0.08098
Co 228.615	-0.2473	ppb	0.2397	96.9	8.8256	-0.24728
Cr 267.716	0.1346	ppb	0.1542	114.5	16.7908	0.13460
Cu 324.754	0.1548	ppb	0.3066	198.1	205.682	0.15477
Fe 271.441	2.9272	ppb	3.6414	124.4	111.170	2.92720
K 766.491	-0.4164	ppb	0.3724	89.4	302.156	-0.41638
Mg 279.078	3.9788	ppb	1.4525	36.5	43.5998	3.97878
Mn 257.610	0.0229	ppb	0.0176	76.9	73.6483	0.02285
Mo 202.032	-0.1073	ppb	0.4700	438.0	18.2439	-0.10732
Na 330.237	-51.1392	ppb	89.0273	174.1	66.3482	-51.13925
Ni 231.604	0.3129	ppb	0.8393	268.3	-6.4522	0.31287
Pb 220.353	-0.2120	ppb	0.1587	74.8	35.0803	-0.21204
Sb 206.834	1.4086	ppb	2.8216	200.3	22.4464	1.40864
Se 196.026	1.3536	ppb	2.8201	208.3	6.1963	1.35357
Sn 189.925	-1.0280	ppb	2.6106	254.0	-12.8870	-1.02799
Sr 216.596	0.1004	ppb	0.1783	177.6	24.4426	0.10043
Ti 334.941	0.0632	ppb	0.0271	42.9	0.2938	0.06315
Tl 190.794	0.8361	ppb	0.8815	105.4	-16.8848	0.83612
V 292.401	-0.1518	ppb	0.2384	157.0	-10.3162	-0.15178
Zn 206.200	-0.0031	ppb	0.7976	25517.0	4.03619	-0.00313

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-c-15-a (Samp) 5/1/2013, 4:20:26 PM Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2613	0.2489	-0.1268
Al 308.215	10336.2	10302.7	10311.6
As 188.980	-5.1041u	2.0833	-3.5066u
B 249.678	-13.9515u	-14.1459u	-14.2457u
Ba 389.178	167.602	165.789	166.835
Be 313.042	1.9099	1.9177	1.9261
Ca 370.602	514.3	508.5	509.1
Cd 226.502	0.6999	0.4898	0.5613
Co 228.615	13.7073	14.2119	13.8459
Cr 267.716	20.6756	20.4793	20.6168
Cu 324.754	12.9403	13.3131	13.5801
Fe 271.441	11691.8	11675.8	11729.2
K 766.491	1119.61	1120.30	1126.31
Mg 279.078	1164.55	1161.98	1171.08
Mn 257.610	5520.52	5509.04	5548.32
Mo 202.032	1.2575	1.0727	1.0332
Na 330.237	198.014	218.876	358.405
Ni 231.604	15.6347	15.7956	16.2092
Pb 220.353	13.2691	15.8563	13.7163
Sb 206.834	-2.4238u	-3.9278u	-5.1201u
Se 196.026	3.3358	-0.5532	2.9467
Sn 189.925	11.3222	8.6339	10.8493
Sr 216.596	6.0048	6.3309	6.7712
Ti 334.941	409.224	408.824	411.571
Tl 190.794	12.4837	6.3124u	9.2542
V 292.401	26.2529	25.8189	26.3898
Zn 206.200	115.054	115.995	117.938

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0464	ppb	0.2644	569.7	0.1507
Al 308.215	10316.8	ppb	17.3298	0.2	31363.2
As 188.980	-2.1758	ppb	3.7739	173.5	-11.5500
B 249.678	-14.1143	ppb	0.1496	1.1	132.763
Ba 389.178	166.742	ppb	0.9102	0.5	4071.85
Be 313.042	1.9179	ppb	0.0081	0.4	3379.85
Ca 370.602	510.6	ppb	3.186	0.6	957.7
Cd 226.502	0.5836	ppb	0.1068	18.3	95.5625
Co 228.615	13.9217	ppb	0.2607	1.9	210.847
Cr 267.716	20.5906	ppb	0.1007	0.5	1130.30
Cu 324.754	13.2778	ppb	0.3214	2.4	956.567
Fe 271.441	11699.0	ppb	27.4126	0.2	22048.6
K 766.491	1122.07	ppb	3.6844	0.3	45218.1
Mg 279.078	1165.87	ppb	4.6874	0.4	2645.61
Mn 257.610	5525.96	ppb	20.1961	0.4	1478084
Mo 202.032	1.1211	ppb	0.1198	10.7	27.5761
Na 330.237	258.432	ppb	87.2058	33.7	74.9769
Ni 231.604	15.8798	ppb	0.2964	1.9	41.8419
Pb 220.353	14.2806	ppb	1.3828	9.7	66.5738
Sb 206.834	-3.8239	ppb	1.3511	35.3	17.3129
Se 196.026	1.9098	ppb	2.1419	112.2	7.9136
Sn 189.925	10.2685	ppb	1.4352	14.0	-1.3464
Sr 216.596	6.3690	ppb	0.3846	6.0	110.573
Ti 334.941	409.873	ppb	1.4840	0.4	129894
Tl 190.794	9.3501	ppb	3.0867	33.0	-17.0685
V 292.401	26.1539	ppb	0.2980	1.1	773.494
Zn 206.200	116.329	ppb	1.4709	1.3	438.742



Cont Calib Verif (CCV) 5/1/2013, 4:25:51 PM Rack 2, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.439	502.699	504.183
Al 308.215	4881.50	4886.01	4871.01
As 188.980	496.261	497.254	494.237
B 249.678	491.413	492.469	494.645
Ba 389.178	5088.56	5076.05	5069.41
Be 313.042	516.182	513.576	514.463
Ca 370.602	5024	5006	4980
Cd 226.502	520.391	518.476	518.149
Co 228.615	522.065	523.049	522.732
Cr 267.716	5169.39	5151.85	5152.59
Cu 324.754	5123.75	5158.67	5177.11
Fe 271.441	4978.27	4974.08	4960.07
K 766.491	10142.8	10143.1	10146.0
Mg 279.078	4976.12	4959.02	4958.30
Mn 257.610	5267.72	5266.26	5249.01
Mo 202.032	500.962	499.012	499.034
Na 330.237	7278.46	7139.64	7261.82
Ni 231.604	2597.98	2592.84	2588.59
Pb 220.353	492.149	487.935	490.402
Sb 206.834	948.592	940.377	940.115
Se 196.026	4917.40	4896.84	4929.05
Sn 189.925	5016.05	4973.77	4996.40
Sr 216.596	2521.61	2516.29	2512.84
Ti 334.941	493.929	492.954	492.697
Tl 190.794	5005.16	4989.51	4983.94
V 292.401	4951.18	4953.95	4943.47
Zn 206.200	2612.75	2587.30	2592.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.773	ppb	2.4244	0.5	40604.9	100.95468
Al 308.215	4879.51	ppb	7.6978	0.2	14820.2	97.59018
As 188.980	495.918	ppb	1.5374	0.3	352.554	99.18350
B 249.678	492.843	ppb	1.6480	0.3	6847.61	19.71371Q
Ba 389.178	5078.01	ppb	9.7222	0.2	123554	101.56012
Be 313.042	514.740	ppb	1.3245	0.3	991471	102.94808
Ca 370.602	5003	ppb	22.11	0.4	16485	100.06543
Cd 226.502	519.005	ppb	1.2113	0.2	21135.1	103.80109
Co 228.615	522.616	ppb	0.5023	0.1	7034.77	104.52313
Cr 267.716	5157.94	ppb	9.9195	0.2	273170	103.15884
Cu 324.754	5153.18	ppb	27.1045	0.5	293575	103.06352
Fe 271.441	4970.81	ppb	9.5305	0.2	9567.76	99.41619
K 766.491	10144.0	ppb	1.7762	0.0	406225	101.43972
Mg 279.078	4964.48	ppb	10.0869	0.2	11479.4	99.28956
Mn 257.610	5261.00	ppb	10.4117	0.2	1407223	105.21996
Mo 202.032	499.669	ppb	1.1196	0.2	4095.32	99.93385
Na 330.237	7226.64	ppb	75.8041	1.0	426.626	96.35518
Ni 231.604	2593.13	ppb	4.7004	0.2	7989.43	103.72535
Pb 220.353	490.162	ppb	2.1169	0.4	1060.31	98.03239
Sb 206.834	943.028	ppb	4.8208	0.5	1090.65	94.30279
Se 196.026	4914.43	ppb	16.3112	0.3	2448.43	98.28857
Sn 189.925	4995.41	ppb	21.1587	0.4	5091.55	99.90813
Sr 216.596	2516.91	ppb	4.4189	0.2	32371.0	100.67648
Ti 334.941	493.193	ppb	0.6497	0.1	156320	98.63868
Tl 190.794	4992.87	ppb	11.0025	0.2	5598.55	99.85742
V 292.401	4949.53	ppb	5.4323	0.1	146044	98.99065
Zn 206.200	2597.43	ppb	13.4974	0.5	4178.57	103.89725

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/1/2013, 4:31:15 PM                      Rack 2, Tube 2  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3071	-0.1099u	-0.1188u
Al 308.215	-0.2538u	-2.6832u	3.4272
As 188.980	-1.0526u	-0.3875u	-2.8815u
B 249.678	-6.9666u	-7.5959u	-8.3607u
Ba 389.178	-0.2137u	0.4908	-0.1229u
Be 313.042	-0.0267u	-0.0468u	-0.0274u
Ca 370.602	4.146	-0.9326u	-2.540u
Cd 226.502	-0.0603u	0.0022	-0.0434u
Co 228.615	0.0094	0.2492	-0.5172u
Cr 267.716	-0.0594u	0.0874	0.2690
Cu 324.754	-0.0713u	0.3691	0.0466
Fe 271.441	4.0765	8.5039	7.8549
K 766.491	0.0440	-0.2074u	-0.7321u
Mg 279.078	-0.0332u	2.1286	1.5747
Mn 257.610	0.0316	0.0591	0.2285
Mo 202.032	-0.3237u	0.0876	-0.2067u
Na 330.237	-129.036u	12.5059	-195.967u
Ni 231.604	0.7300	-0.6442u	-0.1506u
Pb 220.353	-1.8270u	1.0262	-0.7628u
Sb 206.834	1.2200	5.4013	-0.9469u
Se 196.026	6.1944	-2.0342u	5.2264
Sn 189.925	-0.7686u	-0.6539u	-0.6033u
Sr 216.596	-0.4844u	-0.3109u	-0.0445u
Ti 334.941	0.0214	0.0298	0.0208
Tl 190.794	2.1441	-1.9267u	1.7950
V 292.401	0.1216	-0.1680u	-0.0509u
Zn 206.200	0.5514	0.4908	0.5845

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0261	ppb	0.2433	930.7	-21.0231	0.02615
Al 308.215	0.1634	ppb	3.0765	1882.6	-2.9935	0.16341
As 188.980	-1.4405	ppb	1.2915	89.7	-10.8764	-1.44051
B 249.678	-7.6411	ppb	0.6981	9.1	233.773	-7.64108
Ba 389.178	0.0514	ppb	0.3832	745.7	-3.4397	0.05139
Be 313.042	-0.0337	ppb	0.0114	33.9	-379.353	-0.03365
Ca 370.602	0.2242	ppb	3.490	1556.4	12.86	0.22423
Cd 226.502	-0.0338	ppb	0.0323	95.6	30.2300	-0.03383
Co 228.615	-0.0862	ppb	0.3921	454.8	10.9825	-0.08620
Cr 267.716	0.0990	ppb	0.1645	166.2	14.9043	0.09901
Cu 324.754	0.1148	ppb	0.2280	198.5	203.410	0.11483
Fe 271.441	6.8118	ppb	2.3910	35.1	118.480	6.81177
K 766.491	-0.2985	ppb	0.3960	132.7	306.872	-0.29851
Mg 279.078	1.2234	ppb	1.1229	91.8	37.1936	1.22337
Mn 257.610	0.1064	ppb	0.1066	100.2	95.9706	0.10637
Mo 202.032	-0.1476	ppb	0.2119	143.5	17.9137	-0.14763
Na 330.237	-104.166	ppb	106.438	102.2	63.5323	-104.16555
Ni 231.604	-0.0216	ppb	0.6961	3224.1	-7.4835	-0.02159
Pb 220.353	-0.5212	ppb	1.4418	276.6	34.4339	-0.52120
Sb 206.834	1.8915	ppb	3.2269	170.6	22.9655	1.89147
Se 196.026	3.1288	ppb	4.4975	143.7	7.0783	3.12883
Sn 189.925	-0.6752	ppb	0.0847	12.5	-12.5267	-0.67524
Sr 216.596	-0.2799	ppb	0.2215	79.1	19.5281	-0.27995
Ti 334.941	0.0240	ppb	0.0050	21.0	-12.1179	0.02402
Tl 190.794	0.6708	ppb	2.2563	336.4	-17.0711	0.67079
V 292.401	-0.0324	ppb	0.1457	449.0	-6.7974	-0.03244
Zn 206.200	0.5422	ppb	0.0475	8.8	40.5191	0.54221

**mb 680-274728/1-a (Samp)                      5/1/2013, 4:36:40 PM                      Rack 2, Tube 3**  
**Weight: 1    Volume: 1    Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1428u	-0.0537u	0.1433
Al 308.215	14.9882	12.2412	12.0630
As 188.980	-1.1063u	-5.4275u	-2.0368u
B 249.678	-12.3447u	-12.5471u	-12.3941u
Ba 389.178	-0.6141u	-0.0391u	-0.3952u
Be 313.042	-0.0493u	-0.0463u	-0.0527u
Ca 370.602	36.25	38.61	37.55
Cd 226.502	0.0021	0.0066	-0.2222u
Co 228.615	-0.3460u	-0.2234u	-0.6217u
Cr 267.716	0.5497	0.4299	0.5312
Cu 324.754	-0.2369u	0.8295	0.4326
Fe 271.441	6.9800	17.0193	18.8835
K 766.491	9.9119	9.6852	10.0245
Mg 279.078	46.7680	47.8171	49.6555
Mn 257.610	0.1067	0.0998	0.0845
Mo 202.032	-0.1907u	-0.3155u	-0.1039u
Na 330.237	28.9727	-9.9545u	26.3090
Ni 231.604	0.2502	-0.0245u	2.2889
Pb 220.353	-2.7315u	0.3080	-0.2799u
Sb 206.834	5.7661	-0.3093u	2.9483
Se 196.026	11.4062	11.6557	3.9091
Sn 189.925	12.6487	8.8785	13.0405
Sr 216.596	-0.3510u	-0.0751u	-0.3639u
Ti 334.941	0.1884	0.2088	0.2270
Tl 190.794	1.3637	-0.5989u	-0.7589u
V 292.401	-0.1713u	-0.2240u	-0.1348u
Zn 206.200	1.3980	1.1475	1.6171

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0177	ppb	0.1464	826.5	-24.5664
Al 308.215	13.0975	ppb	1.6398	12.5	36.3207
As 188.980	-2.8568	ppb	2.2743	79.6	-11.9115
B 249.678	-12.4287	ppb	0.1055	0.8	170.431
Ba 389.178	-0.3495	ppb	0.2902	83.0	-13.0503
Be 313.042	-0.0494	ppb	0.0032	6.5	-409.685
Ca 370.602	37.47	ppb	1.183	3.2	135.8
Cd 226.502	-0.0711	ppb	0.1308	183.9	28.7415
Co 228.615	-0.3970	ppb	0.2040	51.4	6.8155
Cr 267.716	0.5036	ppb	0.0645	12.8	36.3411
Cu 324.754	0.3417	ppb	0.5390	157.7	216.329
Fe 271.441	14.2942	ppb	6.4026	44.8	132.459
K 766.491	9.8739	ppb	0.1728	1.8	713.915
Mg 279.078	48.0802	ppb	1.4616	3.0	146.097
Mn 257.610	0.0970	ppb	0.0114	11.7	93.8066
Mo 202.032	-0.2034	ppb	0.1064	52.3	17.4578
Na 330.237	15.1091	ppb	21.7465	143.9	69.8433
Ni 231.604	0.8382	ppb	1.2638	150.8	-4.8320
Pb 220.353	-0.9011	ppb	1.6121	178.9	33.6398
Sb 206.834	2.8017	ppb	3.0404	108.5	23.9563
Se 196.026	8.9903	ppb	4.4022	49.0	9.9904
Sn 189.925	11.5226	ppb	2.2982	19.9	-0.0651
Sr 216.596	-0.2633	ppb	0.1631	61.9	19.7470
Ti 334.941	0.2080	ppb	0.0193	9.3	46.4366
Tl 190.794	0.0019	ppb	1.1820	60618.7	-17.8249
V 292.401	-0.1767	ppb	0.0448	25.4	-11.0565
Zn 206.200	1.3876	ppb	0.2350	16.9	43.8839

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

ics 680-274728/2-a (Samp)      5/1/2013, 4:42:05 PM      Rack 2, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.9081	52.0187	52.3912
Al 308.215	5154.06	5106.58	5159.12
As 188.980	102.041	107.075	102.080
B 249.678	182.363	181.339	182.116
Ba 389.178	105.765	106.436	105.612
Be 313.042	54.2539	53.6636	53.9133
Ca 370.602	5084	5040	5071
Cd 226.502	55.0881	54.6607	54.9034
Co 228.615	54.8406	53.4733	53.8289
Cr 267.716	110.016	108.701	109.024
Cu 324.754	108.968	108.071	107.649
Fe 271.441	5166.64	5113.19	5137.79
K 766.491	5221.06	5179.00	5180.23
Mg 279.078	5125.14	5089.77	5122.80
Mn 257.610	560.400	555.851	557.435
Mo 202.032	103.920	103.796	104.954
Na 330.237	4986.82	4978.39	5140.28
Ni 231.604	109.228	108.420	110.140
Pb 220.353	52.4957	47.5363	49.9986
Sb 206.834	50.2882	49.7824	47.0680
Se 196.026	98.9055	101.198	91.5281
Sn 189.925	216.694	219.226	215.594
Sr 216.596	106.232	105.247	105.554
Ti 334.941	103.486	102.297	102.683
Tl 190.794	41.5992	41.2410	39.8438
V 292.401	104.802	103.589	104.057
Zn 206.200	113.149	112.601	115.636

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1060	ppb	0.2531	0.5	4175.49
Al 308.215	5139.92	ppb	28.9805	0.6	15630.0
As 188.980	103.732	ppb	2.8949	2.8	65.9671
B 249.678	181.939	ppb	0.5343	0.3	2734.80
Ba 389.178	105.938	ppb	0.4383	0.4	2594.72
Be 313.042	53.9436	ppb	0.2963	0.5	103631
Ca 370.602	5065	ppb	23.06	0.5	16420
Cd 226.502	54.8841	ppb	0.2143	0.4	2279.18
Co 228.615	54.0476	ppb	0.7094	1.3	736.387
Cr 267.716	109.247	ppb	0.6853	0.6	5798.62
Cu 324.754	108.229	ppb	0.6735	0.6	6363.16
Fe 271.441	5139.21	ppb	26.7546	0.5	9754.11
K 766.491	5193.43	ppb	23.9386	0.5	208132
Mg 279.078	5112.57	ppb	19.7813	0.4	11906.7
Mn 257.610	557.895	ppb	2.3089	0.4	149333
Mo 202.032	104.224	ppb	0.6356	0.6	871.099
Na 330.237	5035.16	ppb	91.1300	1.8	332.590
Ni 231.604	109.262	ppb	0.8604	0.8	329.654
Pb 220.353	50.0102	ppb	2.4797	5.0	139.951
Sb 206.834	49.0462	ppb	1.7317	3.5	74.0761
Se 196.026	97.2105	ppb	5.0528	5.2	53.9885
Sn 189.925	217.172	ppb	1.8625	0.9	210.033
Sr 216.596	105.678	ppb	0.5044	0.5	1380.73
Ti 334.941	102.822	ppb	0.6062	0.6	32595.6
Tl 190.794	40.8947	ppb	0.9275	2.3	27.0473
V 292.401	104.149	ppb	0.6117	0.6	3049.14
Zn 206.200	113.795	ppb	1.6174	1.4	183.643

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-1-a (Samp)**                      **5/1/2013, 4:47:30 PM**                      **Rack 2, Tube 5**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8435u	-0.3183u	-0.2295u
Al 308.215	91440.7	91107.5	90484.7
As 188.980	23.2886	24.4284	18.7815
B 249.678	-12.7632u	-12.3689u	-12.6106u
Ba 389.178	100.499	100.044	99.0612
Be 313.042	0.8807	0.8733	0.8835
Ca 370.602	26922	26867	26808
Cd 226.502	-0.7031	-0.7744	-1.0248
Co 228.615	3.5823	4.5348	3.9135
Cr 267.716	101.583	101.362	101.186
Cu 324.754	11.6672	11.6326	11.1535
Fe 271.441	67839.6	67772.3	67670.5
K 766.491	1762.21	1757.04	1733.63
Mg 279.078	2291.06	2288.37	2280.22
Mn 257.610	121.371	121.108	121.721
Mo 202.032	6.7200	6.7340	6.8564
Na 330.237	174.298u	342.049u	292.606u
Ni 231.604	20.3650	20.8653	21.0327
Pb 220.353	60.7884	58.5346	60.3505
Sb 206.834	-1.0550	3.1611	-6.8992u
Se 196.026	-8.3368u	4.5042	6.7728
Sn 189.925	12.1328	14.4058	10.8598
Sr 216.596	122.813	122.399	122.207
Ti 334.941	376.481	376.104	375.465
Tl 190.794	-0.0346u	1.8120u	1.1488u
V 292.401	161.004	161.330	160.942
Zn 206.200	27.2827	27.7347	29.0784

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4637	ppb	0.3319	71.6	-64.6314
Al 308.215	91010.9	ppb	485.256	0.5	276700
As 188.980	22.1661	ppb	2.9861	13.5	5.8331
B 249.678	-12.5809	ppb	0.1988	1.6	79.2709
Ba 389.178	99.8679	ppb	0.7347	0.7	2531.92
Be 313.042	0.8792	ppb	0.0053	0.6	1389.47
Ca 370.602	26866	ppb	57.20	0.2	83500
Cd 226.502	-0.8341	ppb	0.1690	20.3	230.924
Co 228.615	4.0102	ppb	0.4836	12.1	74.7220
Cr 267.716	101.377	ppb	0.1991	0.2	5397.31
Cu 324.754	11.4844	ppb	0.2871	2.5	871.942
Fe 271.441	67760.8	ppb	85.1356	0.1	127186
K 766.491	1750.96	ppb	15.2280	0.9	70382.7
Mg 279.078	2286.55	ppb	5.6438	0.2	5331.71
Mn 257.610	121.400	ppb	0.3073	0.3	32767.0
Mo 202.032	6.7701	ppb	0.0751	1.1	70.3326
Na 330.237	269.651	ppb	86.1992	32.0	59.2255
Ni 231.604	20.7544	ppb	0.3474	1.7	58.2698
Pb 220.353	59.8912	ppb	1.1951	2.0	160.320
Sb 206.834	-1.5977	ppb	5.0521	316.2	21.8506
Se 196.026	0.9801	ppb	8.1480	831.4	6.4389
Sn 189.925	12.4661	ppb	1.7963	14.4	0.9107
Sr 216.596	122.473	ppb	0.3095	0.3	1636.33
Ti 334.941	376.017	ppb	0.5135	0.1	119181
Tl 190.794	0.9754	ppb	0.9354	95.9	-20.7467
V 292.401	161.092	ppb	0.2085	0.1	4759.60
Zn 206.200	28.0320	ppb	0.9340	3.3	52.1357

**680-89727-b-1-aSD^5 (Samp) 5/1/2013, 4:52:54 PM Rack 2, Tube 6**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4918u	-0.0834u	-0.3199u
Al 308.215	20547.9	20111.0	19807.8
As 188.980	-2.5502u	4.8273	3.1069
B 249.678	-15.4840u	-15.4323u	-15.0009u
Ba 389.178	21.9544	21.0340	21.1998
Be 313.042	0.1574	0.1494	0.1461
Ca 370.602	6048	5923	5863
Cd 226.502	-0.2614	-0.2828	-0.2524
Co 228.615	0.7694	0.5859	0.3467
Cr 267.716	22.6441	22.1738	22.0898
Cu 324.754	2.3708	2.6562	2.5244
Fe 271.441	15298.9	15019.3	14812.4
K 766.491	366.087	360.293	356.487
Mg 279.078	515.890	509.129	501.080
Mn 257.610	26.9631	26.5319	26.0842
Mo 202.032	1.0299	1.3682	1.0993
Na 330.237	102.986	118.004	65.7128u
Ni 231.604	4.9247	6.1156	3.9771
Pb 220.353	9.7192	13.8916	10.8514
Sb 206.834	-4.1316u	-4.1908u	-5.8622u
Se 196.026	-4.8314u	3.9434	3.1181
Sn 189.925	1.3960	2.0049	-0.3510u
Sr 216.596	26.9237	26.4084	26.2960
Ti 334.941	84.4693	82.8852	81.9366
Tl 190.794	-2.3228u	2.6567	0.5235u
V 292.401	35.6124	35.3548	34.5116
Zn 206.200	5.0892	6.4617	7.3646

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2984	ppb	0.2050	68.7	-48.0849
Al 308.215	20155.6	ppb	372.059	1.8	61276.2
As 188.980	1.7947	ppb	3.8599	215.1	-8.6331
B 249.678	-15.3057	ppb	0.2652	1.7	112.599
Ba 389.178	21.3961	ppb	0.4906	2.3	539.583
Be 313.042	0.1510	ppb	0.0058	3.9	-21.3595
Ca 370.602	5945	ppb	94.69	1.6	18482
Cd 226.502	-0.2655	ppb	0.0156	5.9	72.5660
Co 228.615	0.5673	ppb	0.2120	37.4	21.7001
Cr 267.716	22.3025	ppb	0.2987	1.3	1194.96
Cu 324.754	2.5171	ppb	0.1428	5.7	344.885
Fe 271.441	15043.5	ppb	244.118	1.6	28318.6
K 766.491	360.956	ppb	4.8343	1.3	14762.3
Mg 279.078	508.700	ppb	7.4143	1.5	1212.93
Mn 257.610	26.5264	ppb	0.4395	1.7	7213.29
Mo 202.032	1.1658	ppb	0.1787	15.3	27.7339
Na 330.237	95.5675	ppb	26.9233	28.2	68.7713
Ni 231.604	5.0058	ppb	1.0715	21.4	8.3936
Pb 220.353	11.4874	ppb	2.1577	18.8	59.4485
Sb 206.834	-4.7282	ppb	0.9825	20.8	16.4165
Se 196.026	0.7434	ppb	4.8455	651.8	5.9880
Sn 189.925	1.0166	ppb	1.2229	120.3	-10.7956
Sr 216.596	26.5427	ppb	0.3347	1.3	372.937
Ti 334.941	83.0970	ppb	1.2796	1.5	26322.8
Tl 190.794	0.2858	ppb	2.4982	874.1	-18.3959
V 292.401	35.1596	ppb	0.5758	1.6	1034.33
Zn 206.200	6.3052	ppb	1.1457	18.2	41.4295

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-1-aPDS (Samp)**      **5/1/2013, 4:58:19 PM**      **Rack 2, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.1599	49.5976	49.7190
Al 308.215	92060.1	91523.7	91369.6
As 188.980	2107.40	2112.22	2095.42
B 249.678	978.990	982.178	985.524
Ba 389.178	2159.55	2153.34	2155.07
Be 313.042	52.4807	52.3240	52.2693
Ca 370.602	31390	31310	31308
Cd 226.502	51.2442	51.6129	51.0557
Co 228.615	526.264	529.848	530.227
Cr 267.716	306.737	306.852	305.765
Cu 324.754	275.753	277.120	273.977
Fe 271.441	67213.0	67148.6	67021.8
K 766.491	7297.47	7284.75	7299.82
Mg 279.078	7251.45	7239.71	7232.37
Mn 257.610	655.486	655.198	653.388
Mo 202.032	524.404	526.206	526.600
Na 330.237	5185.80	5331.69	5392.88
Ni 231.604	536.562	537.546	534.299
Pb 220.353	551.222	551.648	547.514
Sb 206.834	504.519	499.310	501.141
Se 196.026	1989.20	1995.92	2003.97
Sn 189.925	1032.32	1039.45	1032.66
Sr 216.596	631.649	629.579	630.378
Ti 334.941	1367.83	1369.29	1369.08
Tl 190.794	2037.14	2045.40	2042.11
V 292.401	656.751	654.609	655.866
Zn 206.200	539.012	541.970	539.830

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.8255	ppb	0.2959	0.6	3970.76
Al 308.215	91651.1	ppb	362.447	0.4	278678
As 188.980	2105.01	ppb	8.6491	0.4	1528.41
B 249.678	982.230	ppb	3.2674	0.3	13239.6
Ba 389.178	2155.99	ppb	3.2058	0.1	52563.8
Be 313.042	52.3580	ppb	0.1097	0.2	100502
Ca 370.602	31336	ppb	46.72	0.1	98598
Cd 226.502	51.3043	ppb	0.2834	0.6	2347.07
Co 228.615	528.780	ppb	2.1870	0.4	7125.39
Cr 267.716	306.452	ppb	0.5970	0.2	16257.9
Cu 324.754	275.617	ppb	1.5758	0.6	15921.8
Fe 271.441	67127.8	ppb	97.3157	0.1	126093
K 766.491	7294.01	ppb	8.1068	0.1	292185
Mg 279.078	7241.18	ppb	9.6223	0.1	16837.8
Mn 257.610	654.691	ppb	1.1374	0.2	175432
Mo 202.032	525.737	ppb	1.1706	0.2	4314.17
Na 330.237	5303.46	ppb	106.388	2.0	314.302
Ni 231.604	536.136	ppb	1.6651	0.3	1647.59
Pb 220.353	550.128	ppb	2.2740	0.4	1183.61
Sb 206.834	501.657	ppb	2.6429	0.5	559.780
Se 196.026	1996.36	ppb	7.3971	0.4	997.907
Sn 189.925	1034.81	ppb	4.0225	0.4	1045.36
Sr 216.596	630.535	ppb	1.0436	0.2	8147.80
Ti 334.941	1368.73	ppb	0.7906	0.1	433840
Tl 190.794	2041.55	ppb	4.1546	0.2	2276.65
V 292.401	655.742	ppb	1.0760	0.2	19293.8
Zn 206.200	540.271	ppb	1.5276	0.3	478.650

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-1-b ms (Samp)**      **5/1/2013, 5:03:44 PM**      **Rack 2, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.9111	52.1007	52.0580
Al 308.215	105980	105910	105985
As 188.980	128.160	123.178	126.375
B 249.678	155.865	156.613	155.288
Ba 389.178	207.977	207.311	206.073
Be 313.042	54.5306	54.5467	54.5223
Ca 370.602	40475	40443	40425
Cd 226.502	52.6410	52.5111	52.6212
Co 228.615	57.9611	57.8914	58.2722
Cr 267.716	205.216	205.561	205.427
Cu 324.754	122.454	122.235	121.887
Fe 271.441	71978.2	71970.3	71925.8
K 766.491	7238.12	7218.05	7227.19
Mg 279.078	7610.01	7607.05	7619.23
Mn 257.610	687.786	687.818	687.581
Mo 202.032	108.160	107.185	106.437
Na 330.237	5552.28	5262.71	5214.47
Ni 231.604	128.468	126.143	128.032
Pb 220.353	109.659	108.427	110.524
Sb 206.834	37.0042	41.7031	37.3222
Se 196.026	95.0176	98.4717	105.827
Sn 189.925	209.610	218.045	212.472
Sr 216.596	252.493	253.511	252.706
Ti 334.941	482.991	482.934	483.040
Tl 190.794	41.4312	40.2299	42.2888
V 292.401	260.202	259.951	259.433
Zn 206.200	140.153	139.285	141.210

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.0232	ppb	0.0995	0.2	4163.63
Al 308.215	105958	ppb	42.1801	0.0	322152
As 188.980	125.905	ppb	2.5241	2.0	81.7263
B 249.678	155.922	ppb	0.6644	0.4	2302.76
Ba 389.178	207.120	ppb	0.9659	0.5	5162.41
Be 313.042	54.5332	ppb	0.0124	0.0	104781
Ca 370.602	40448	ppb	25.69	0.1	128251
Cd 226.502	52.5911	ppb	0.0700	0.1	2415.90
Co 228.615	58.0416	ppb	0.2028	0.3	799.063
Cr 267.716	205.401	ppb	0.1740	0.1	10909.6
Cu 324.754	122.192	ppb	0.2860	0.2	7178.96
Fe 271.441	71958.1	ppb	28.2043	0.0	135068
K 766.491	7227.78	ppb	10.0501	0.1	289535
Mg 279.078	7612.10	ppb	6.3535	0.1	17695.8
Mn 257.610	687.728	ppb	0.1286	0.0	184286
Mo 202.032	107.261	ppb	0.8641	0.8	891.846
Na 330.237	5343.15	ppb	182.706	3.4	325.064
Ni 231.604	127.548	ppb	1.2360	1.0	387.708
Pb 220.353	109.537	ppb	1.0538	1.0	263.974
Sb 206.834	38.6765	ppb	2.6259	6.8	65.5151
Se 196.026	99.7720	ppb	5.5206	5.5	55.6856
Sn 189.925	213.375	ppb	4.2895	2.0	206.172
Sr 216.596	252.903	ppb	0.5373	0.2	3313.52
Ti 334.941	482.988	ppb	0.0533	0.0	153113
Tl 190.794	41.3166	ppb	1.0342	2.5	23.5444
V 292.401	259.862	ppb	0.3923	0.2	7656.56
Zn 206.200	140.216	ppb	0.9640	0.7	233.441



E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-1-c msd (Samp)      5/1/2013, 5:09:10 PM      Rack 2, Tube 9**  
**Weight: 1      Volume: 1      Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.5119	51.6267	52.2638
Al 308.215	133190	133804	134167
As 188.980	140.215	143.084	137.909
B 249.678	143.184	144.356	143.377
Ba 389.178	204.537	204.563	205.258
Be 313.042	54.7335	54.6623	54.6848
Ca 370.602	29743	29782	29836
Cd 226.502	52.7414	52.4190	52.1696
Co 228.615	58.7307	58.8914	58.6004
Cr 267.716	229.163	228.811	229.130
Cu 324.754	125.043	122.665	124.729
Fe 271.441	98368.2	98331.7	98301.9
K 766.491	7734.86	7707.27	7696.36
Mg 279.078	7626.62	7616.36	7641.60
Mn 257.610	669.858	669.945	669.575
Mo 202.032	109.535	108.331	110.116
Na 330.237	5251.10	5174.64	5404.12
Ni 231.604	126.277	125.116	126.164
Pb 220.353	119.676	115.101	119.301
Sb 206.834	36.8490	36.8000	35.7282
Se 196.026	99.3741	110.292	91.8999
Sn 189.925	211.550	211.071	211.737
Sr 216.596	243.987	243.308	243.406
Ti 334.941	500.517	498.809	499.277
Tl 190.794	40.9741	40.1849	35.5413
V 292.401	346.995	346.434	345.827
Zn 206.200	143.359	145.560	143.767

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1341	ppb	0.4566	0.9	4173.54
Al 308.215	133720	ppb	493.971	0.4	406556
As 188.980	140.403	ppb	2.5930	1.8	91.8984
B 249.678	143.639	ppb	0.6283	0.4	2105.47
Ba 389.178	204.786	ppb	0.4087	0.2	5145.19
Be 313.042	54.6936	ppb	0.0364	0.1	105085
Ca 370.602	29787	ppb	46.97	0.2	90642
Cd 226.502	52.4434	ppb	0.2867	0.5	2500.95
Co 228.615	58.7408	ppb	0.1458	0.2	807.915
Cr 267.716	229.035	ppb	0.1943	0.1	12167.6
Cu 324.754	124.146	ppb	1.2917	1.0	7298.19
Fe 271.441	98333.9	ppb	33.2065	0.0	184534
K 766.491	7712.83	ppb	19.8413	0.3	308944
Mg 279.078	7628.19	ppb	12.6937	0.2	17729.9
Mn 257.610	669.793	ppb	0.1936	0.0	179573
Mo 202.032	109.327	ppb	0.9104	0.8	907.069
Na 330.237	5276.62	ppb	116.850	2.2	313.215
Ni 231.604	125.853	ppb	0.6401	0.5	383.135
Pb 220.353	118.026	ppb	2.5399	2.2	281.645
Sb 206.834	36.4591	ppb	0.6334	1.7	63.9946
Se 196.026	100.522	ppb	9.2497	9.2	56.2093
Sn 189.925	211.453	ppb	0.3434	0.2	204.201
Sr 216.596	243.567	ppb	0.3673	0.2	3204.81
Ti 334.941	499.534	ppb	0.8827	0.2	158362
Tl 190.794	38.9001	ppb	2.9355	7.5	19.3745
V 292.401	346.419	ppb	0.5841	0.2	10216.4
Zn 206.200	144.229	ppb	1.1797	0.8	242.792

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-2-a (Samp)                      5/1/2013, 5:14:36 PM                      Rack 2, Tube 10  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2338u	-0.9203u	-0.5465u
Al 308.215	33294.4	33071.0	33198.2
As 188.980	4.2363	3.3162	2.5147
B 249.678	-10.2011u	-9.2497u	-9.7909u
Ba 389.178	184.592	184.332	183.488
Be 313.042	0.6880	0.6830	0.6937
Ca 370.602	10487	10441	10453
Cd 226.502	-0.1038	-0.0750	-0.1726
Co 228.615	4.9022	4.0943	4.4319
Cr 267.716	26.9385	26.8409	27.0275
Cu 324.754	7.4807	7.0058	6.9145
Fe 271.441	14567.5	14545.2	14552.9
K 766.491	531.060	530.374	529.562
Mg 279.078	1182.31	1178.28	1175.45
Mn 257.610	556.914	555.678	555.603
Mo 202.032	1.2205	1.3375	0.8393
Na 330.237	51.4538u	-47.7659u	-55.7052u
Ni 231.604	12.1406	11.8867	12.3944
Pb 220.353	30.3639	30.7144	32.5790
Sb 206.834	-3.8650u	-3.3037u	-5.9744u
Se 196.026	-7.4551u	0.6413	-1.0030u
Sn 189.925	14.1717	13.3078	11.1947
Sr 216.596	44.0537	43.6862	43.4910
Ti 334.941	451.353	450.166	448.087
Tl 190.794	3.0412	1.3743u	7.4823
V 292.401	34.3027	34.7042	34.4545
Zn 206.200	18.6445	18.5610	18.4855

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9002	ppb	0.3441	38.2	-94.7885
Al 308.215	33187.8	ppb	112.057	0.3	100899
As 188.980	3.3557	ppb	0.8615	25.7	-7.4402
B 249.678	-9.7472	ppb	0.4772	4.9	186.746
Ba 389.178	184.137	ppb	0.5771	0.3	4499.41
Be 313.042	0.6883	ppb	0.0054	0.8	1016.81
Ca 370.602	10460	ppb	23.59	0.2	33591
Cd 226.502	-0.1171	ppb	0.0501	42.8	76.9912
Co 228.615	4.4761	ppb	0.4058	9.1	85.2335
Cr 267.716	26.9357	ppb	0.0934	0.3	1443.67
Cu 324.754	7.1337	ppb	0.3040	4.3	607.589
Fe 271.441	14555.2	ppb	11.3357	0.1	27403.7
K 766.491	530.332	ppb	0.7500	0.1	21539.8
Mg 279.078	1178.68	ppb	3.4493	0.3	2756.57
Mn 257.610	556.065	ppb	0.7363	0.1	148847
Mo 202.032	1.1324	ppb	0.2605	23.0	27.4885
Na 330.237	-17.3391	ppb	59.7085	344.4	59.9100
Ni 231.604	12.1406	ppb	0.2538	2.1	30.3900
Pb 220.353	31.2191	ppb	1.1907	3.8	100.568
Sb 206.834	-4.3810	ppb	1.4082	32.1	16.8386
Se 196.026	-2.6056	ppb	4.2795	164.2	4.4529
Sn 189.925	12.8914	ppb	1.5316	11.9	1.3382
Sr 216.596	43.7436	ppb	0.2857	0.7	594.689
Ti 334.941	449.869	ppb	1.6529	0.4	142572
Tl 190.794	3.9659	ppb	3.1573	79.6	-15.0959
V 292.401	34.4872	ppb	0.2027	0.6	1020.30
Zn 206.200	18.5637	ppb	0.0795	0.4	311590

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-3-a (Samp)                      5/1/2013, 5:20:01 PM                      Rack 2, Tube 11  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5415u	-0.6350u	-0.7009u
Al 308.215	30127.5	30033.3	29648.9
As 188.980	8.7571	-2.7122u	5.3031
B 249.678	-11.3063u	-11.5443u	-11.6546u
Ba 389.178	159.125	159.628	158.615
Be 313.042	0.7029	0.7010	0.7050
Ca 370.602	45284	45301	44985
Cd 226.502	0.2042	-0.1070	0.0573
Co 228.615	2.4263	1.6962	2.1700
Cr 267.716	39.5356	39.6720	39.2552
Cu 324.754	6.7063	6.8707	7.0165
Fe 271.441	16940.7	16928.4	16821.4
K 766.491	614.370	616.113	614.160
Mg 279.078	2343.94	2350.67	2326.74
Mn 257.610	440.896	440.758	438.803
Mo 202.032	6.6898	6.8208	6.8299
Na 330.237	2343.31	2427.33	2413.41
Ni 231.604	8.8811	11.7930	10.9625
Pb 220.353	32.0150	33.2179	32.6547
Sb 206.834	-0.2826	-4.3358u	-0.3346
Se 196.026	-9.6863u	2.8557	-1.6759u
Sn 189.925	11.9881	12.7979	13.4942
Sr 216.596	186.951	186.542	186.372
Ti 334.941	439.835	440.047	439.010
Tl 190.794	-1.3907u	-0.7285u	-1.2209u
V 292.401	47.5043	48.2335	47.5375
Zn 206.200	19.4737	19.2423	21.6730

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6258	ppb	0.0801	12.8	-80.1704
Al 308.215	29936.6	ppb	253.555	0.8	91014.2
As 188.980	3.7827	ppb	5.8839	155.5	-6.8066
B 249.678	-11.5018	ppb	0.1780	1.5	160.475
Ba 389.178	159.123	ppb	0.5063	0.3	3897.64
Be 313.042	0.7029	ppb	0.0020	0.3	1055.60
Ca 370.602	45190	ppb	178.2	0.4	148626
Cd 226.502	0.0515	ppb	0.1557	302.4	91.8507
Co 228.615	2.0975	ppb	0.3704	17.7	52.7468
Cr 267.716	39.4876	ppb	0.2125	0.5	2108.38
Cu 324.754	6.8645	ppb	0.1551	2.3	593.071
Fe 271.441	16896.8	ppb	65.5898	0.4	31794.9
K 766.491	614.881	ppb	1.0720	0.2	24923.0
Mg 279.078	2340.45	ppb	12.3425	0.5	5460.31
Mn 257.610	440.152	ppb	1.1708	0.3	117860
Mo 202.032	6.7802	ppb	0.0784	1.2	73.5244
Na 330.237	2394.68	ppb	45.0333	1.9	187.079
Ni 231.604	10.5455	ppb	1.5001	14.2	25.5264
Pb 220.353	32.6292	ppb	0.6018	1.8	103.489
Sb 206.834	-1.6510	ppb	2.3253	140.8	19.8897
Se 196.026	-2.8355	ppb	6.3509	224.0	4.3236
Sn 189.925	12.7601	ppb	0.7538	5.9	1.2231
Sr 216.596	186.621	ppb	0.2979	0.2	2440.24
Ti 334.941	439.631	ppb	0.5482	0.1	139333
Tl 190.794	-1.1134	ppb	0.3440	30.9	-20.7554
V 292.401	47.7584	ppb	0.4118	0.9	1410.91
Zn 206.200	20.1296	ppb	1.3415	6.7	33.9073

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-4-a (Samp) 5/1/2013, 5:25:28 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7766u	-0.6646u	-0.6808u
Al 308.215	34947.8	35422.3	34796.6
As 188.980	2.6320	5.4252	5.2990
B 249.678	-14.6681u	-14.7818u	-14.7113u
Ba 389.178	191.910	194.755	190.493
Be 313.042	0.7122	0.7390	0.7061
Ca 370.602	972.8	978.8	970.9
Cd 226.502	-0.3031	-0.3378	-0.0358
Co 228.615	4.1957	3.9504	3.4848
Cr 267.716	25.6208	26.0975	25.5554
Cu 324.754	5.5641	5.7100	5.2506
Fe 271.441	14715.9	14929.5	14630.9
K 766.491	649.530	659.844	647.380
Mg 279.078	1053.22	1069.56	1048.37
Mn 257.610	293.859	297.895	292.600
Mo 202.032	0.9662	1.2537	1.0488
Na 330.237	1380.53	1334.24	1230.66
Ni 231.604	12.6346	12.2305	12.9580
Pb 220.353	30.4764	29.9186	29.2502
Sb 206.834	-0.5469	-9.3589u	2.9069
Se 196.026	-1.0437u	-3.0344u	-4.8936u
Sn 189.925	12.0881	13.0801	13.9872
Sr 216.596	13.5283	13.1652	13.3665
Ti 334.941	466.352	473.715	465.291
Tl 190.794	0.4487u	-0.6661u	-2.1076u
V 292.401	32.3031	32.9903	32.4109
Zn 206.200	15.8078	16.2164	16.4258

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7073	ppb	0.0606	8.6	-79.0218
Al 308.215	35055.6	ppb	326.497	0.9	106577
As 188.980	4.4521	ppb	1.5775	35.4	-6.7371
B 249.678	-14.7204	ppb	0.0574	0.4	120.712
Ba 389.178	192.386	ppb	2.1703	1.1	4700.00
Be 313.042	0.7191	ppb	0.0175	2.4	1072.94
Ca 370.602	974.2	ppb	4.147	0.4	2095
Cd 226.502	-0.2256	ppb	0.1652	73.2	73.2250
Co 228.615	3.8770	ppb	0.3611	9.3	77.7275
Cr 267.716	25.7579	ppb	0.2959	1.1	1380.20
Cu 324.754	5.5082	ppb	0.2347	4.3	515.130
Fe 271.441	14758.8	ppb	153.821	1.0	27785.3
K 766.491	652.252	ppb	6.6626	1.0	26418.4
Mg 279.078	1057.05	ppb	11.1030	1.1	2477.98
Mn 257.610	294.785	ppb	2.7660	0.9	78964.3
Mo 202.032	1.0896	ppb	0.1480	13.6	27.1313
Na 330.237	1315.14	ppb	76.7393	5.8	130.332
Ni 231.604	12.6077	ppb	0.3645	2.9	31.8358
Pb 220.353	29.8817	ppb	0.6139	2.1	97.6847
Sb 206.834	-2.3329	ppb	6.3249	271.1	19.0365
Se 196.026	-2.9906	ppb	1.9254	64.4	4.1979
Sn 189.925	13.0518	ppb	0.9499	7.3	1.4976
Sr 216.596	13.3533	ppb	0.1819	1.4	202.152
Ti 334.941	468.453	ppb	4.5882	1.0	148462
Tl 190.794	-0.7750	ppb	1.2816	165.4	-20.0158
V 292.401	32.5681	ppb	0.3696	1.1	963.825
Zn 206.200	16.1500	ppb	0.3143	314.8	426.2860

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/1/2013, 5:30:53 PM Rack 2, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.718	503.101	504.170
Al 308.215	4874.86	4905.21	4879.60
As 188.980	498.350	501.020	501.958
B 249.678	490.746	494.738	495.592
Ba 389.178	5051.11	5075.66	5057.66
Be 313.042	512.540	516.040	512.317
Ca 370.602	4982	5018	4987
Cd 226.502	519.052	520.309	517.661
Co 228.615	521.794	524.526	519.926
Cr 267.716	5143.32	5165.54	5138.32
Cu 324.754	5144.63	5129.00	5206.29
Fe 271.441	4949.28	4985.59	4951.29
K 766.491	10054.4	10104.4	10089.4
Mg 279.078	4955.49	4971.22	4952.86
Mn 257.610	5240.88	5269.14	5242.00
Mo 202.032	496.594	500.632	497.024
Na 330.237	7013.94	7006.02	7230.21
Ni 231.604	2595.18	2602.57	2591.07
Pb 220.353	490.299	493.636	489.091
Sb 206.834	941.384	945.324	940.055
Se 196.026	4929.39	4920.36	4902.31
Sn 189.925	5025.07	5011.66	4936.36
Sr 216.596	2516.14	2523.34	2511.80
Ti 334.941	489.879	492.686	490.943
Tl 190.794	4964.79	4994.93	4963.32
V 292.401	4923.01	4951.32	4932.17
Zn 206.200	2592.16	2611.81	2590.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.330	ppb	2.3240	0.5	40408.3	100.46598
Al 308.215	4886.56	ppb	16.3304	0.3	14841.6	97.73111
As 188.980	500.442	ppb	1.8723	0.4	355.863	100.08849
B 249.678	493.692	ppb	2.5869	0.5	6858.86	19.74768Q
Ba 389.178	5061.48	ppb	12.7128	0.3	123151	101.22955
Be 313.042	513.632	ppb	2.0882	0.4	989336	102.72646
Ca 370.602	4996	ppb	19.48	0.4	16460	99.91494
Cd 226.502	519.007	ppb	1.3245	0.3	21135.1	103.80145
Co 228.615	522.082	ppb	2.3131	0.4	7027.62	104.41642
Cr 267.716	5149.06	ppb	14.4886	0.3	272700	102.98124
Cu 324.754	5159.97	ppb	40.8630	0.8	293962	103.19942
Fe 271.441	4962.05	ppb	20.4066	0.4	9551.12	99.24108
K 766.491	10082.7	ppb	25.6542	0.3	403773	100.82694
Mg 279.078	4959.86	ppb	9.9314	0.2	11468.9	99.19715
Mn 257.610	5250.68	ppb	16.0026	0.3	1404463	105.01353
Mo 202.032	498.084	ppb	2.2177	0.4	4082.39	99.61674
Na 330.237	7083.39	ppb	127.210	1.8	419.029	94.44520
Ni 231.604	2596.27	ppb	5.8250	0.2	7999.11	103.85088
Pb 220.353	491.009	ppb	2.3538	0.5	1062.08	98.20174
Sb 206.834	942.254	ppb	2.7406	0.3	1089.75	94.22544
Se 196.026	4917.35	ppb	13.7910	0.3	2449.88	98.34710
Sn 189.925	4991.03	ppb	47.8222	1.0	5087.08	99.82063
Sr 216.596	2517.09	ppb	5.8296	0.2	32373.4	100.68370
Ti 334.941	491.170	ppb	1.4171	0.3	155678	98.23396
Tl 190.794	4974.35	ppb	17.8423	0.4	5577.70	99.48695
V 292.401	4935.50	ppb	14.4447	0.3	145629	98.70993
Zn 206.200	2598.21	ppb	11.7998	0.5	4179.85	103.92838

Cont Calib Blank (CCB) 5/1/2013, 5:36:18 PM Rack 2, Tube 14  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1934u	-0.2503u	-0.2834u
Al 308.215	-5.0680u	0.9832	-2.9419u
As 188.980	0.3777	-0.4803u	-3.0819u
B 249.678	-7.2922u	-8.3929u	-8.3380u
Ba 389.178	0.4543	0.4892	0.5401
Be 313.042	-0.0360u	-0.0313u	-0.0220u
Ca 370.602	1.951	0.3343	0.4597
Cd 226.502	-0.1882u	-0.0012u	-0.0332u
Co 228.615	-0.8826u	-0.5202u	0.3707
Cr 267.716	-0.1293u	0.2563	0.3280
Cu 324.754	0.5824	0.6115	0.3870
Fe 271.441	-2.4426u	-2.5742u	5.6379
K 766.491	-0.5144u	-0.5183u	-0.7181u
Mg 279.078	2.2255	0.1252	1.9685
Mn 257.610	0.0305	0.0366	0.2313
Mo 202.032	-0.3910u	-0.1656u	0.0231
Na 330.237	-32.2384u	-187.578u	19.9736
Ni 231.604	1.3908	1.0022	0.8896
Pb 220.353	-2.4251u	-1.9311u	-0.0906u
Sb 206.834	-1.3453u	0.3312	-4.3042u
Se 196.026	-2.1821u	-4.2372u	-6.5506u
Sn 189.925	-1.2872u	-1.7274u	0.3191
Sr 216.596	-0.0437u	-0.7915u	-0.2449u
Ti 334.941	0.0918	-0.0230u	0.0486
Tl 190.794	3.2437	0.9211	-0.9108u
V 292.401	0.1093	0.0788	0.3714
Zn 206.200	1.0137	-0.4337u	0.6772

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2424	ppb	0.0455	18.8	-42.6687	-0.24237
Al 308.215	-2.3422	ppb	3.0698	131.1	-10.6277	-2.34220
As 188.980	-1.0615	ppb	1.8015	169.7	-10.5992	-1.06146
B 249.678	-8.0077	ppb	0.6202	7.7	228.930	-8.00767
Ba 389.178	0.4946	ppb	0.0432	8.7	7.3327	0.49456
Be 313.042	-0.0298	ppb	0.0071	23.9	-371.862	-0.02977
Ca 370.602	0.9151	ppb	0.8996	98.3	15.61	0.91512
Cd 226.502	-0.0742	ppb	0.1000	134.8	28.5716	-0.07419
Co 228.615	-0.3440	ppb	0.6449	187.5	7.5321	-0.34403
Cr 267.716	0.1517	ppb	0.2459	162.2	17.6902	0.15166
Cu 324.754	0.5270	ppb	0.1221	23.2	226.867	0.52699
Fe 271.441	0.2070	ppb	4.7038	2272.2	106.053	0.20701
K 766.491	-0.5836	ppb	0.1165	20.0	295.465	-0.58360
Mg 279.078	1.4397	ppb	1.1457	79.6	37.6962	1.43974
Mn 257.610	0.0995	ppb	0.1142	114.8	94.1150	0.09949
Mo 202.032	-0.1778	ppb	0.2073	116.6	17.6666	-0.17782
Na 330.237	-66.6144	ppb	107.962	162.1	65.5260	-66.61439
Ni 231.604	1.0942	ppb	0.2630	24.0	-4.0428	1.09420
Pb 220.353	-1.4823	ppb	1.2303	83.0	32.4250	-1.48229
Sb 206.834	-1.7728	ppb	2.3471	132.4	19.0177	-1.77276
Se 196.026	-4.3233	ppb	2.1855	50.6	3.3759	-4.32329
Sn 189.925	-0.8985	ppb	1.0772	119.9	-12.7548	-0.89852
Sr 216.596	-0.3600	ppb	0.3870	107.5	18.4846	-0.36003
Ti 334.941	0.0391	ppb	0.0580	148.3	-7.3380	0.03911
Tl 190.794	1.0847	ppb	2.0821	192.0	-16.6046	1.08469
V 292.401	0.1865	ppb	0.1608	86.2	-0.2782	0.18652
Zn 206.200	0.4190	ppb	0.7574	180.8	0.3194	0.41903

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-5-a (Samp) 5/1/2013, 5:41:43 PM Rack 2, Tube 15

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5474u	-0.7533u	-0.9231u
Al 308.215	45915.9	46128.3	46362.9
As 188.980	14.4181	11.2088	8.3423
B 249.678	-11.7877u	-11.4522u	-11.6908u
Ba 389.178	133.978	133.430	133.643
Be 313.042	0.8126	0.8056	0.8150
Ca 370.602	44955	45038	45075
Cd 226.502	-0.2356	-0.3442	-0.3974
Co 228.615	2.5397	2.4251	2.5628
Cr 267.716	56.0404	56.2610	56.3734
Cu 324.754	7.7756	8.1847	7.8536
Fe 271.441	32746.8	32816.3	32861.1
K 766.491	958.051	957.848	956.271
Mg 279.078	2310.23	2318.19	2315.20
Mn 257.610	279.852	280.494	280.119
Mo 202.032	5.9022	5.1076	5.2223
Na 330.237	403.655	502.159	278.733
Ni 231.604	13.7870	14.2858	13.7366
Pb 220.353	40.9933	40.2710	38.8299
Sb 206.834	-4.1808u	-4.8924u	-5.2694u
Se 196.026	-5.8850u	10.3227	8.5017
Sn 189.925	13.9475	11.4404	15.4763
Sr 216.596	181.283	182.377	182.324
Ti 334.941	428.553	428.745	427.343
Tl 190.794	0.3669u	-3.0959u	-0.0175u
V 292.401	81.6747	81.5939	81.5978
Zn 206.200	65.6043	65.1223	63.9216

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7413	ppb	0.1881	25.4	-89.7701
Al 308.215	46135.7	ppb	223.573	0.5	140265
As 188.980	11.3230	ppb	3.0395	26.8	-1.4868
B 249.678	-11.6436	ppb	0.1727	1.5	137.614
Ba 389.178	133.684	ppb	0.2759	0.2	3302.52
Be 313.042	0.8111	ppb	0.0049	0.6	1264.47
Ca 370.602	45023	ppb	61.35	0.1	146715
Cd 226.502	-0.3257	ppb	0.0824	25.3	131.419
Co 228.615	2.5092	ppb	0.0738	2.9	57.4034
Cr 267.716	56.2250	ppb	0.1694	0.3	2998.01
Cu 324.754	7.9380	ppb	0.2172	2.7	659.134
Fe 271.441	32808.1	ppb	57.6082	0.2	61635.1
K 766.491	957.390	ppb	0.9742	0.1	38628.3
Mg 279.078	2314.54	ppb	4.0199	0.2	5400.95
Mn 257.610	280.155	ppb	0.3225	0.1	75117.8
Mo 202.032	5.4107	ppb	0.4295	7.9	61.3514
Na 330.237	394.849	ppb	111.973	28.4	75.9319
Ni 231.604	13.9365	ppb	0.3035	2.2	36.3779
Pb 220.353	40.0314	ppb	1.1014	2.8	118.898
Sb 206.834	-4.7809	ppb	0.5528	11.6	17.1012
Se 196.026	4.3131	ppb	8.8786	205.9	7.9291
Sn 189.925	13.6214	ppb	2.0376	15.0	2.1017
Sr 216.596	181.994	ppb	0.6170	0.3	2388.40
Ti 334.941	428.214	ppb	0.7601	0.2	135718
Tl 190.794	-0.9155	ppb	1.8981	207.3	-21.1687
V 292.401	81.6221	ppb	0.0456	0.1	2412.00
Zn 206.200	64.8827	ppb	0.8665	1.3	417.903

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-6-a (Samp) 5/1/2013, 5:47:07 PM Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9162u	-1.1717u	-0.4857u
Al 308.215	29100.8	28622.1	28516.4
As 188.980	4.0474	4.7426	6.1013
B 249.678	-14.8435u	-15.5252u	-14.9429u
Ba 389.178	164.318	163.814	163.811
Be 313.042	0.6650	0.6564	0.6610
Ca 370.602	854.1	850.9	851.8
Cd 226.502	-0.0260	-0.1792	0.0759
Co 228.615	3.8583	3.6906	3.6696
Cr 267.716	24.3735	24.0210	24.1918
Cu 324.754	4.9424	5.2191	5.2373
Fe 271.441	13132.1	12986.7	12974.5
K 766.491	524.374	519.379	519.236
Mg 279.078	894.055	891.450	893.219
Mn 257.610	232.624	230.342	230.948
Mo 202.032	1.2177	1.7942	1.6808
Na 330.237	343.256	333.957	286.991
Ni 231.604	10.1857	9.8175	11.0359
Pb 220.353	30.1088	31.9869	31.2802
Sb 206.834	-3.2726u	-1.0106u	-6.0681u
Se 196.026	2.6356	7.9719	3.3127
Sn 189.925	14.8604	10.5210	11.7568
Sr 216.596	11.7481	11.4539	11.7575
Ti 334.941	404.686	401.866	401.676
Tl 190.794	2.3959	2.3685	2.4020
V 292.401	28.5221	28.2676	28.1873
Zn 206.200	11.9390	13.1989	11.8452

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8579	ppb	0.3467	40.4	-91.4507
Al 308.215	28746.5	ppb	311.381	1.1	87395.6
As 188.980	4.9638	ppb	1.0447	21.0	-6.3436
B 249.678	-15.1039	ppb	0.3683	2.4	117.898
Ba 389.178	163.981	ppb	0.2919	0.2	4006.05
Be 313.042	0.6608	ppb	0.0043	0.6	960.290
Ca 370.602	852.3	ppb	1.674	0.2	1821
Cd 226.502	-0.0431	ppb	0.1284	297.7	74.7344
Co 228.615	3.7395	ppb	0.1034	2.8	73.9538
Cr 267.716	24.1954	ppb	0.1763	0.7	1296.51
Cu 324.754	5.1329	ppb	0.1653	3.2	493.244
Fe 271.441	13031.1	ppb	87.6669	0.7	24545.3
K 766.491	520.996	ppb	2.9265	0.6	21166.2
Mg 279.078	892.908	ppb	1.3300	0.1	2099.18
Mn 257.610	231.305	ppb	1.1821	0.5	61979.4
Mo 202.032	1.5642	ppb	0.3054	19.5	31.1196
Na 330.237	321.401	ppb	30.1608	9.4	78.7581
Ni 231.604	10.3464	ppb	0.6249	6.0	24.8181
Pb 220.353	31.1253	ppb	0.9486	3.0	100.324
Sb 206.834	-3.4504	ppb	2.5334	73.4	17.7669
Se 196.026	4.6401	ppb	2.9052	62.6	7.9631
Sn 189.925	12.3794	ppb	2.2357	18.1	0.8103
Sr 216.596	11.6532	ppb	0.1726	1.5	179.429
Ti 334.941	402.743	ppb	1.6857	0.4	127634
Tl 190.794	2.3888	ppb	0.0178	0.7	-16.2520
V 292.401	28.3257	ppb	0.1748	0.6	837.229
Zn 206.200	12.3277	ppb	0.7559	6.1	20.9271



E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-7-a (Samp)                      5/1/2013, 5:52:32 PM                      Rack 2, Tube 17  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7687u	-1.3111u	-0.9719u
Al 308.215	35148.8	35006.5	34866.3
As 188.980	-1.7778u	1.6199	-0.1934u
B 249.678	-13.5782u	-13.6233u	-13.4346u
Ba 389.178	155.801	155.208	154.888
Be 313.042	0.5493	0.5430	0.5474
Ca 370.602	13533	13492	13440
Cd 226.502	-0.0352	-0.0348	-0.0885
Co 228.615	1.7313	2.4618	2.3201
Cr 267.716	30.0215	30.2516	29.9761
Cu 324.754	6.5616	7.2140	7.0218
Fe 271.441	13500.6	13483.0	13428.7
K 766.491	677.071	677.589	676.379
Mg 279.078	1094.36	1094.21	1087.86
Mn 257.610	351.181	350.490	349.271
Mo 202.032	2.8992	2.7032	2.7358
Na 330.237	155.818	63.6927u	214.427
Ni 231.604	10.5425	10.1495	10.8167
Pb 220.353	37.7251	32.9351	37.2736
Sb 206.834	-4.4590u	-3.2344u	-4.9689u
Se 196.026	-2.5775u	2.0291	-3.0031u
Sn 189.925	14.8368	13.5938	17.0614
Sr 216.596	274.619	273.071	272.933
Ti 334.941	403.515	403.187	401.401
Tl 190.794	3.8529	0.9782u	2.1906
V 292.401	34.1072	33.8704	34.3023
Zn 206.200	23.0642	23.2628	23.5741

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0173	ppb	0.2741	26.9	-116.250
Al 308.215	35007.2	ppb	141.234	0.4	106430
As 188.980	-0.1171	ppb	1.7001	1451.7	-9.9358
B 249.678	-13.5453	ppb	0.0985	0.7	137.955
Ba 389.178	155.299	ppb	0.4635	0.3	3796.04
Be 313.042	0.5466	ppb	0.0032	0.6	744.767
Ca 370.602	13488	ppb	46.58	0.3	43717
Cd 226.502	-0.0529	ppb	0.0309	58.5	75.8057
Co 228.615	2.1710	ppb	0.3874	17.8	52.8578
Cr 267.716	30.0831	ppb	0.1477	0.5	1609.03
Cu 324.754	6.9325	ppb	0.3352	4.8	595.826
Fe 271.441	13470.8	ppb	37.4738	0.3	25369.6
K 766.491	677.013	ppb	0.6070	0.1	27409.2
Mg 279.078	1092.14	ppb	3.7109	0.3	2558.32
Mn 257.610	350.314	ppb	0.9672	0.3	93812.5
Mo 202.032	2.7794	ppb	0.1050	3.8	41.0229
Na 330.237	144.646	ppb	75.9855	52.5	69.1821
Ni 231.604	10.5029	ppb	0.3353	3.2	25.3136
Pb 220.353	35.9779	ppb	2.6448	7.4	110.487
Sb 206.834	-4.2208	ppb	0.8914	21.1	16.9897
Se 196.026	-1.1838	ppb	2.7906	235.7	5.1017
Sn 189.925	15.1640	ppb	1.7568	11.6	3.6616
Sr 216.596	273.541	ppb	0.9358	0.3	3554.37
Ti 334.941	402.701	ppb	1.1378	0.3	127622
Tl 190.794	2.3406	ppb	1.4432	61.7	-16.5256
V 292.401	34.0933	ppb	0.2163	0.6	1007.23
Zn 206.200	23.3004	ppb	0.2570	1.1	38.6759

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-8-a (Samp) 5/1/2013, 5:57:57 PM Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5264u	-0.7797u	-0.2550u
Al 308.215	225407	225627	225461
As 188.980	17.0746	13.7862	18.8447
B 249.678	-17.3789u	-17.8979u	-18.2905u
Ba 389.178	420.039	422.169	420.719
Be 313.042	1.0731	1.0910	1.0988
Ca 370.602	3470	3469	3484
Cd 226.502	-0.5442	-0.6428	-0.3242
Co 228.615	11.2136	11.4745	12.2178
Cr 267.716	182.680	183.828	183.808
Cu 324.754	17.9169	17.8091	17.5972
Fe 271.441	77369.8	77636.4	77652.2
K 766.491	2249.79	2258.81	2258.78
Mg 279.078	3664.34	3680.23	3674.74
Mn 257.610	98.6344	99.2710	99.1966
Mo 202.032	12.5705	12.6536	12.5851
Na 330.237	411.075u	286.829u	255.927u
Ni 231.604	57.7047	58.3847	56.5396
Pb 220.353	108.197	105.591	104.597
Sb 206.834	0.0422	-3.7433u	-0.4440
Se 196.026	7.2812	0.9439	-0.6673
Sn 189.925	17.6691	17.8565	21.0937
Sr 216.596	57.7678	58.0200	58.3952
Ti 334.941	272.331	273.281	273.570
Tl 190.794	0.7067u	-4.2065u	1.9791u
V 292.401	192.967	194.642	194.310
Zn 206.200	71.8109	71.2647	73.1162

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5204	ppb	0.2625	50.4	-65.2793
Al 308.215	225498	ppb	115.026	0.1	685588
As 188.980	16.5685	ppb	2.5670	15.5	1.3833
B 249.678	-17.8558	ppb	0.4573	2.6	-3.4276
Ba 389.178	420.975	ppb	1.0878	0.3	10361.3
Be 313.042	1.0876	ppb	0.0131	1.2	1792.92
Ca 370.602	3474	ppb	8.506	0.2	5034
Cd 226.502	-0.5037	ppb	0.1631	32.4	278.162
Co 228.615	11.6353	ppb	0.5211	4.5	173.614
Cr 267.716	183.439	ppb	0.6572	0.4	9746.98
Cu 324.754	17.7744	ppb	0.1627	0.9	1233.20
Fe 271.441	77552.8	ppb	158.721	0.2	145552
K 766.491	2255.79	ppb	5.1993	0.2	90583.4
Mg 279.078	3673.10	ppb	8.0690	0.2	8514.88
Mn 257.610	99.0340	ppb	0.3481	0.4	26824.9
Mo 202.032	12.6031	ppb	0.0443	0.4	117.419
Na 330.237	317.944	ppb	82.1209	25.8	59.2433
Ni 231.604	57.5430	ppb	0.9331	1.6	172.013
Pb 220.353	106.128	ppb	1.8592	1.8	256.770
Sb 206.834	-1.3817	ppb	2.0596	149.1	23.1109
Se 196.026	2.5193	ppb	4.2019	166.8	7.2557
Sn 189.925	18.8731	ppb	1.9254	10.2	7.4437
Sr 216.596	58.0610	ppb	0.3157	0.5	807.560
Ti 334.941	273.061	ppb	0.6484	0.2	86565.4
Tl 190.794	-0.5069	ppb	3.2665	644.4	-22.9258
V 292.401	193.973	ppb	0.8869	0.5	5723.40
Zn 206.200	72.0639	ppb	0.9513	1.3	436.078

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-9-a (Samp)**                      **5/1/2013, 6:03:22 PM**                      **Rack 2, Tube 19**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8499u	-0.9179u	-0.7948u
Al 308.215	236458	237358	236510
As 188.980	6.9261	5.6737	8.1517
B 249.678	0.0235u	-0.2538u	0.0408u
Ba 389.178	212.864	211.960	212.537
Be 313.042	1.6528	1.6460	1.6592
Ca 370.602	579.0	576.7	577.6
Cd 226.502	0.4803	0.6247	0.3949
Co 228.615	7.6550	7.4100	8.3704
Cr 267.716	139.787	139.403	139.440
Cu 324.754	18.6996	18.1448	18.3338
Fe 271.441	20563.7	20518.9	20460.6
K 766.491	6213.94	6221.58	6207.28
Mg 279.078	3499.52	3485.50	3482.69
Mn 257.610	97.6277	97.4418	97.2404
Mo 202.032	2.4993	2.4270	1.7934
Na 330.237	429.284	324.375	431.422
Ni 231.604	34.6431	33.5192	33.8857
Pb 220.353	105.676	109.462	104.271
Sb 206.834	-0.0785	-13.7335u	-5.0335u
Se 196.026	-2.7521u	-9.3428u	11.6295
Sn 189.925	12.2102	11.9687	15.8544
Sr 216.596	44.6717	44.2685	44.2875
Ti 334.941	629.812	628.336	627.733
Tl 190.794	2.5447	-2.8548u	5.8451
V 292.401	108.054	108.302	107.419
Zn 206.200	60.3908	60.3646	57.7054

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8542	ppb	0.0617	7.2	-91.8250
Al 308.215	236775	ppb	505.671	0.2	719874
As 188.980	6.9172	ppb	1.2390	17.9	-5.0089
B 249.678	-0.0632	ppb	0.1653	261.7	307.045
Ba 389.178	212.454	ppb	0.4577	0.2	5203.47
Be 313.042	1.6527	ppb	0.0066	0.4	2887.64
Ca 370.602	577.8	ppb	1.187	0.2	319.0
Cd 226.502	0.5000	ppb	0.1161	23.2	122.533
Co 228.615	7.8118	ppb	0.4990	6.4	135.508
Cr 267.716	139.543	ppb	0.2117	0.2	7408.97
Cu 324.754	18.3927	ppb	0.2820	1.5	1249.87
Fe 271.441	20514.4	ppb	51.6833	0.3	38581.0
K 766.491	6214.27	ppb	7.1530	0.1	248980
Mg 279.078	3489.23	ppb	9.0145	0.3	8073.02
Mn 257.610	97.4367	ppb	0.1937	0.2	26216.0
Mo 202.032	2.2399	ppb	0.3884	17.3	36.0559
Na 330.237	395.027	ppb	61.1960	15.5	78.2001
Ni 231.604	34.0160	ppb	0.5732	1.7	98.0780
Pb 220.353	106.470	ppb	2.6849	2.5	257.241
Sb 206.834	-6.2818	ppb	6.9126	110.0	16.1151
Se 196.026	-0.1551	ppb	10.7246	6913.4	5.5914
Sn 189.925	13.3444	ppb	2.1771	16.3	1.7958
Sr 216.596	44.4093	ppb	0.2275	0.5	604.445
Ti 334.941	628.627	ppb	1.0694	0.2	199252
Tl 190.794	1.8450	ppb	4.3920	238.0	-17.0272
V 292.401	107.925	ppb	0.4552	0.4	3187.67
Zn 206.200	59.4869	ppb	1.5429	2.6	97.5522

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-11-a (Samp)**                      **5/1/2013, 6:08:47 PM**                      **Rack 2, Tube 20**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7098u	-0.5444u	-0.6686u
Al 308.215	42636.3	43112.4	42919.0
As 188.980	5.8068	4.4750	6.1011
B 249.678	-15.0894u	-15.0661u	-15.0103u
Ba 389.178	172.764	173.634	173.839
Be 313.042	0.7864	0.8022	0.7818
Ca 370.602	1571	1577	1574
Cd 226.502	-0.2844	-0.2516	-0.2482
Co 228.615	3.9625	3.5359	4.8475
Cr 267.716	41.1274	41.5109	41.4291
Cu 324.754	6.1983	6.6567	6.5059
Fe 271.441	23663.8	23815.1	23688.0
K 766.491	690.874	695.628	692.002
Mg 279.078	1162.58	1178.56	1166.63
Mn 257.610	306.434	308.086	306.679
Mo 202.032	2.7930	2.6898	3.2644
Na 330.237	706.885	612.812	614.759
Ni 231.604	13.6077	13.7837	13.1967
Pb 220.353	39.9618	40.9573	39.3809
Sb 206.834	-1.0446u	-0.5498	-7.8874u
Se 196.026	-0.2296	-6.4775u	-3.5783u
Sn 189.925	13.0788	13.5379	13.4803
Sr 216.596	31.7540	31.6865	31.4228
Ti 334.941	427.547	429.919	428.105
Tl 190.794	2.6120	1.7373	1.9015
V 292.401	50.2824	50.3615	50.6547
Zn 206.200	17.7871	16.6566	17.7201

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6409	ppb	0.0861	13.4	-74.3717
Al 308.215	42889.2	ppb	239.404	0.6	130394
As 188.980	5.4610	ppb	0.8665	15.9	-6.1022
B 249.678	-15.0553	ppb	0.0406	0.3	104.467
Ba 389.178	173.412	ppb	0.5707	0.3	4252.15
Be 313.042	0.7901	ppb	0.0107	1.4	1209.83
Ca 370.602	1574	ppb	3.029	0.2	3319
Cd 226.502	-0.2614	ppb	0.0200	7.6	102.677
Co 228.615	4.1153	ppb	0.6690	16.3	79.3641
Cr 267.716	41.3558	ppb	0.2020	0.5	2208.52
Cu 324.754	6.4536	ppb	0.2337	3.6	571.825
Fe 271.441	23722.3	ppb	81.2434	0.3	44595.6
K 766.491	692.834	ppb	2.4840	0.4	28042.3
Mg 279.078	1169.26	ppb	8.3071	0.7	2737.86
Mn 257.610	307.067	ppb	0.8917	0.3	82278.4
Mo 202.032	2.9157	ppb	0.3063	10.5	41.5239
Na 330.237	644.819	ppb	53.7595	8.3	92.3502
Ni 231.604	13.5294	ppb	0.3012	2.2	34.8995
Pb 220.353	40.1000	ppb	0.7972	2.0	119.060
Sb 206.834	-3.1606	ppb	4.1010	129.8	18.5073
Se 196.026	-3.4285	ppb	3.1267	91.2	4.0361
Sn 189.925	13.3657	ppb	0.2501	1.9	1.8181
Sr 216.596	31.6211	ppb	0.1750	0.6	441.825
Ti 334.941	428.524	ppb	1.2401	0.3	135809
Tl 190.794	2.0836	ppb	0.4649	22.3	-17.3256
V 292.401	50.4329	ppb	0.1961	0.4	1490.47
Zn 206.200	17.3880	ppb	0.6342	3.6	30.2354

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-12-a (Samp)**                      **5/1/2013, 6:14:12 PM**                      **Rack 2, Tube 21**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1160u	-0.4193u	-0.2057u
Al 308.215	202298	202356	204837
As 188.980	13.6932	11.1166	12.5045
B 249.678	-18.0846u	-17.7870u	-17.9026u
Ba 389.178	401.809	401.940	403.724
Be 313.042	0.7167	0.7151	0.7260
Ca 370.602	64.50u	62.52u	54.78u
Cd 226.502	-0.1757	-0.1506	-0.1700
Co 228.615	9.5663	9.9708	9.0746
Cr 267.716	125.237	126.357	126.379
Cu 324.754	11.1504	10.8227	11.1255
Fe 271.441	45080.9	45287.8	45346.7
K 766.491	1681.51	1691.46	1684.27
Mg 279.078	2166.31	2182.76	2195.75
Mn 257.610	42.6467	42.8397	42.8975
Mo 202.032	5.5523	5.6958	6.5044
Na 330.237	662.109	577.906	520.702
Ni 231.604	51.8015	55.5587	54.3900
Pb 220.353	101.274	104.067	102.562
Sb 206.834	1.9713	-6.5811u	-3.3688u
Se 196.026	-5.8790u	3.1882	9.5654
Sn 189.925	19.4875	10.2264	14.9549
Sr 216.596	23.0138	22.3105	23.0116
Ti 334.941	228.775	229.646	229.580
Tl 190.794	-0.9125u	-0.0204u	-2.3964u
V 292.401	127.044	127.721	128.119
Zn 206.200	55.3963	56.2250	57.1698

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2470	ppb	0.1558	63.1	-42.2174
Al 308.215	203164	ppb	1449.43	0.7	617685
As 188.980	12.4381	ppb	1.2896	10.4	-1.2786
B 249.678	-17.9247	ppb	0.1501	0.8	38.1380
Ba 389.178	402.491	ppb	1.0695	0.3	9859.48
Be 313.042	0.7193	ppb	0.0059	0.8	1083.93
Ca 370.602	60.60	ppb	5.137	8.5	-3573
Cd 226.502	-0.1655	ppb	0.0131	7.9	180.791
Co 228.615	9.5372	ppb	0.4488	4.7	145.464
Cr 267.716	125.991	ppb	0.6529	0.5	6696.00
Cu 324.754	11.0329	ppb	0.1825	1.7	839.033
Fe 271.441	45238.5	ppb	139.588	0.3	84948.6
K 766.491	1685.74	ppb	5.1362	0.3	67773.1
Mg 279.078	2181.60	ppb	14.7531	0.7	5049.58
Mn 257.610	42.7946	ppb	0.1314	0.3	11671.0
Mo 202.032	5.9175	ppb	0.5133	8.7	64.6969
Na 330.237	586.906	ppb	71.1318	12.1	83.9178
Ni 231.604	53.9167	ppb	1.9228	3.6	160.037
Pb 220.353	102.635	ppb	1.3979	1.4	249.535
Sb 206.834	-2.6596	ppb	4.3201	162.4	20.4266
Se 196.026	2.2915	ppb	7.7612	338.7	6.9390
Sn 189.925	14.8896	ppb	4.6309	31.1	3.3734
Sr 216.596	22.7787	ppb	0.4054	1.8	337.291
Ti 334.941	229.334	ppb	0.4849	0.2	72693.5
Tl 190.794	-1.1098	ppb	1.2002	108.2	-21.6848
V 292.401	127.628	ppb	0.5438	0.4	3764.40
Zn 206.200	56.2637	ppb	0.8871	1.6	95.1497

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-g-13-a (Samp)      5/1/2013, 6:19:38 PM      Rack 2, Tube 22  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.9655u	-2.3523u	-2.6125u
Al 308.215	158890	160286	159306
As 188.980	6.2609	7.9210	10.9740
B 249.678	-4.3500u	-4.9846u	-4.5529u
Ba 389.178	257.494	258.007	258.329
Be 313.042	1.4151	1.4283	1.4328
Ca 370.602	469.5	469.6	471.6
Cd 226.502	0.2539	0.2266	0.0239
Co 228.615	5.2307	4.9989	5.2806
Cr 267.716	122.499	123.088	123.414
Cu 324.754	15.7021	15.9746	15.7419
Fe 271.441	19689.9	19754.6	19763.5
K 766.491	4735.78	4753.75	4755.94
Mg 279.078	3044.38	3058.97	3064.51
Mn 257.610	164.878	165.535	165.675
Mo 202.032	2.3844	2.9242	2.9038
Na 330.237	209.923u	244.338u	326.427
Ni 231.604	19.2511	19.3425	19.7010
Pb 220.353	185.015	181.676	180.068
Sb 206.834	3.1728	-9.0245u	-2.1820u
Se 196.026	-2.2701u	3.7428	2.1103
Sn 189.925	12.5809	15.1523	13.8180
Sr 216.596	139.893	140.698	141.105
Ti 334.941	1116.63	1122.59	1122.42
Tl 190.794	-0.6878u	-0.1301u	4.1139
V 292.401	135.712	136.096	136.268
Zn 206.200	48.5383	48.2937	47.2233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3101	ppb	0.3256	14.1	-213.704
Al 308.215	159494	ppb	716.582	0.4	484912
As 188.980	8.3853	ppb	2.3906	28.5	-3.9274
B 249.678	-4.6292	ppb	0.3241	7.0	247.618
Ba 389.178	257.943	ppb	0.4208	0.2	6307.83
Be 313.042	1.4254	ppb	0.0092	0.6	2441.43
Ca 370.602	470.3	ppb	1.171	0.2	122.0
Cd 226.502	0.1681	ppb	0.1257	74.7	106.494
Co 228.615	5.1700	ppb	0.1503	2.9	114.840
Cr 267.716	123.001	ppb	0.4639	0.4	6532.88
Cu 324.754	15.8062	ppb	0.1472	0.9	1102.03
Fe 271.441	19736.0	ppb	40.2051	0.2	37121.1
K 766.491	4748.49	ppb	11.0588	0.2	190327
Mg 279.078	3055.95	ppb	10.3987	0.3	7088.17
Mn 257.610	165.363	ppb	0.4255	0.3	44378.3
Mo 202.032	2.7375	ppb	0.3060	11.2	40.1068
Na 330.237	260.230	ppb	59.8553	23.0	67.4448
Ni 231.604	19.4315	ppb	0.2378	1.2	53.0529
Pb 220.353	182.253	ppb	2.5237	1.4	415.510
Sb 206.834	-2.6779	ppb	6.1138	228.3	19.8013
Se 196.026	1.1943	ppb	3.1094	260.3	6.2743
Sn 189.925	13.8504	ppb	1.2860	9.3	2.3126
Sr 216.596	140.565	ppb	0.6167	0.4	1842.89
Ti 334.941	1120.55	ppb	3.3922	0.3	355155
Tl 190.794	1.0987	ppb	2.6261	239.0	-17.9219
V 292.401	136.025	ppb	0.2847	0.2	4029.25
Zn 206.200	48.0184	ppb	0.6994	1.5	79.0011

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-15-a (Samp)**      **5/1/2013, 6:25:04 PM**      **Rack 2, Tube 23**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8875u	-0.8640u	-0.8780u
Al 308.215	32403.8	32385.7	32452.2
As 188.980	5.4784	5.2429	-1.5965u
B 249.678	-16.5444u	-16.2176u	-16.8951u
Ba 389.178	171.067	170.304	170.395
Be 313.042	0.7049	0.7010	0.7104
Ca 370.602	1272	1272	1274
Cd 226.502	-0.1774	-0.0611	-0.2955
Co 228.615	3.4249	3.4757	3.4858
Cr 267.716	26.7954	26.8190	26.7145
Cu 324.754	4.8197	4.7964	4.5065
Fe 271.441	13992.8	14034.0	14029.0
K 766.491	471.034	470.281	472.171
Mg 279.078	799.985	805.235	803.115
Mn 257.610	430.718	431.352	431.982
Mo 202.032	1.7283	2.0433	1.9519
Na 330.237	-95.4465u	7.3022u	101.802u
Ni 231.604	11.2798	9.5102	11.5043
Pb 220.353	37.1196	37.6572	37.1507
Sb 206.834	-7.4401u	-2.1472u	-7.4042u
Se 196.026	-3.6371u	-1.4138u	-1.1166u
Sn 189.925	14.2279	10.6168	16.1928
Sr 216.596	18.5545	18.0748	17.7282
Ti 334.941	452.283	453.574	454.651
Tl 190.794	3.5628	0.4005u	-0.8003u
V 292.401	32.6925	32.7735	33.0038
Zn 206.200	14.5396	14.5324	13.3237

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8765	ppb	0.0118	1.3	-92.2248
Al 308.215	32413.9	ppb	34.3686	0.1	98545.8
As 188.980	3.0416	ppb	4.0184	132.1	-7.7563
B 249.678	-16.5524	ppb	0.3388	2.0	97.4652
Ba 389.178	170.589	ppb	0.4165	0.2	4167.97
Be 313.042	0.7054	ppb	0.0047	0.7	1046.53
Ca 370.602	1273	ppb	1.283	0.1	3150
Cd 226.502	-0.1780	ppb	0.1172	65.9	72.5812
Co 228.615	3.4621	ppb	0.0326	0.9	71.7031
Cr 267.716	26.7763	ppb	0.0548	0.2	1434.50
Cu 324.754	4.7075	ppb	0.1745	3.7	469.311
Fe 271.441	14018.6	ppb	22.4741	0.2	26397.1
K 766.491	471.162	ppb	0.9514	0.2	19172.1
Mg 279.078	802.778	ppb	2.6410	0.3	1885.29
Mn 257.610	431.351	ppb	0.6317	0.1	115486
Mo 202.032	1.9078	ppb	0.1620	8.5	33.8661
Na 330.237	4.5525	ppb	98.6529	2167.0	61.2566
Ni 231.604	10.7648	ppb	1.0923	10.1	26.1332
Pb 220.353	37.3092	ppb	0.3018	0.8	113.264
Sb 206.834	-5.6639	ppb	3.0455	53.8	15.4243
Se 196.026	-2.0558	ppb	1.3775	67.0	4.6918
Sn 189.925	13.6792	ppb	2.8282	20.7	2.1382
Sr 216.596	18.1192	ppb	0.4150	2.3	263.207
Ti 334.941	453.503	ppb	1.1858	0.3	143722
Tl 190.794	1.0543	ppb	2.2539	213.8	-18.1384
V 292.401	32.8233	ppb	0.1615	0.5	970.896
Zn 206.200	14.1319	ppb	0.6999	5.0	23.9400

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-16-a (Samp)**                      **5/1/2013, 6:30:31 PM**                      **Rack 2, Tube 24**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1591u	-0.0621u	-0.2556u
Al 308.215	200980	201082	201384
As 188.980	3.1699	9.1301	6.2397
B 249.678	-18.1924u	-18.2933u	-17.4404u
Ba 389.178	291.156	291.881	291.629
Be 313.042	0.6252	0.6176	0.6112
Ca 370.602	287.2u	290.5u	295.9u
Cd 226.502	0.1433	-0.0081	-0.0858
Co 228.615	7.6998	8.8070	7.9225
Cr 267.716	129.978	130.153	130.030
Cu 324.754	9.4175	10.4059	10.3556
Fe 271.441	44358.7	44403.1	44505.7
K 766.491	1560.80	1565.14	1567.88
Mg 279.078	2011.46	2020.10	2015.82
Mn 257.610	36.8023	36.8497	36.8433
Mo 202.032	8.1843	8.3588	8.1513
Na 330.237	121.361u	-64.5636u	141.535u
Ni 231.604	61.7015	63.8752	60.0340
Pb 220.353	96.8689	98.7686	98.4600
Sb 206.834	-2.6570u	-1.8839	-7.3978u
Se 196.026	-6.2986u	5.0152	1.0266
Sn 189.925	14.0794	14.0355	15.5228
Sr 216.596	30.9778	31.2111	31.3689
Ti 334.941	216.493	217.384	217.726
Tl 190.794	3.5576	-0.7402u	-4.4815u
V 292.401	97.4731	97.8422	97.8661
Zn 206.200	35.1118	34.4847	34.0488

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1589	ppb	0.0967	60.9	-35.7447
Al 308.215	201149	ppb	209.673	0.1	611558
As 188.980	6.1799	ppb	2.9806	48.2	-5.8417
B 249.678	-17.9754	ppb	0.4660	2.6	38.6040
Ba 389.178	291.555	ppb	0.3679	0.1	7159.16
Be 313.042	0.6180	ppb	0.0070	1.1	889.499
Ca 370.602	291.2	ppb	4.401	1.5	-2737
Cd 226.502	0.0165	ppb	0.1165	707.1	185.212
Co 228.615	8.1431	ppb	0.5856	7.2	126.359
Cr 267.716	130.054	ppb	0.0899	0.1	6911.17
Cu 324.754	10.0597	ppb	0.5567	5.5	783.737
Fe 271.441	44422.5	ppb	75.3576	0.2	83417.8
K 766.491	1564.61	ppb	3.5684	0.2	62925.9
Mg 279.078	2015.79	ppb	4.3231	0.2	4665.06
Mn 257.610	36.8318	ppb	0.0257	0.1	10072.4
Mo 202.032	8.2315	ppb	0.1115	1.4	83.7367
Na 330.237	66.1110	ppb	113.616	171.9	56.8556
Ni 231.604	61.8702	ppb	1.9261	3.1	184.542
Pb 220.353	98.0325	ppb	1.0195	1.0	239.923
Sb 206.834	-3.9796	ppb	2.9854	75.0	18.9932
Se 196.026	-0.0856	ppb	5.7383	6705.6	5.7514
Sn 189.925	14.5459	ppb	0.8463	5.8	3.0222
Sr 216.596	31.1859	ppb	0.1968	0.6	444.949
Ti 334.941	217.201	ppb	0.6365	0.3	68847.1
Tl 190.794	-0.5547	ppb	4.0227	725.2	-21.0189
V 292.401	97.7271	ppb	0.2203	0.2	2878.55
Zn 206.200	34.5485	ppb	0.5344	1.5	59.9720



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/1/2013, 6:35:56 PM Rack 2, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.842	506.322	492.515
Al 308.215	4891.98	4883.25	4882.36
As 188.980	498.682	494.028	492.580
B 249.678	489.938	493.677	488.530
Ba 389.178	5046.65	5049.43	5021.72
Be 313.042	511.803	512.748	509.371
Ca 370.602	4987	4994	4956
Cd 226.502	519.158	519.687	515.708
Co 228.615	522.741	522.801	519.432
Cr 267.716	5150.01	5153.77	5123.85
Cu 324.754	5119.33	5126.07	5079.92
Fe 271.441	4948.58	4960.92	4920.26
K 766.491	10023.5	10026.6	9988.73
Mg 279.078	4966.08	4970.33	4925.05
Mn 257.610	5246.07	5246.66	5238.18
Mo 202.032	498.242	500.281	497.898
Na 330.237	7186.14	7188.12	7131.63
Ni 231.604	2594.90	2585.51	2579.88
Pb 220.353	490.734	493.007	484.223
Sb 206.834	939.587	947.183	935.542
Se 196.026	4890.91	4892.50	4876.05
Sn 189.925	4966.46	5000.70	4989.12
Sr 216.596	2514.85	2516.55	2503.68
Ti 334.941	489.481	489.925	487.937
Tl 190.794	4971.76	4969.38	4947.42
V 292.401	4929.41	4929.74	4901.57
Zn 206.200	2594.39	2593.99	2575.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.560	ppb	7.1811	1.4	40265.4	100.11198
Al 308.215	4885.87	ppb	5.3156	0.1	14839.6	97.71732
As 188.980	495.097	ppb	3.1880	0.6	351.955	99.01931
B 249.678	490.715	ppb	2.6602	0.5	6819.51	19.62860Q
Ba 389.178	5039.27	ppb	15.2588	0.3	122611	100.78533
Be 313.042	511.307	ppb	1.7425	0.3	984856	102.26143
Ca 370.602	4979	ppb	19.98	0.4	16405	99.57604
Cd 226.502	518.184	ppb	2.1609	0.4	21101.6	103.63686
Co 228.615	521.658	ppb	1.9282	0.4	7021.84	104.33159
Cr 267.716	5142.54	ppb	16.2976	0.3	272354	102.85084
Cu 324.754	5108.44	ppb	24.9321	0.5	291029	102.16885
Fe 271.441	4943.25	ppb	20.8450	0.4	9515.65	98.86508
K 766.491	10012.9	ppb	21.0076	0.2	400981	100.12918
Mg 279.078	4953.82	ppb	25.0074	0.5	11454.9	99.07641
Mn 257.610	5243.64	ppb	4.7385	0.1	1402580	104.87276
Mo 202.032	498.807	ppb	1.2883	0.3	4088.34	99.76143
Na 330.237	7168.63	ppb	32.0588	0.4	423.643	95.58174
Ni 231.604	2586.76	ppb	7.5883	0.3	7969.79	103.47053
Pb 220.353	489.321	ppb	4.5593	0.9	1058.55	97.86427
Sb 206.834	940.771	ppb	5.9102	0.6	1088.07	94.07709
Se 196.026	4886.49	ppb	9.0728	0.2	2434.55	97.72976
Sn 189.925	4985.43	ppb	17.4177	0.3	5081.36	99.70856
Sr 216.596	2511.69	ppb	6.9941	0.3	32303.9	100.46764
Ti 334.941	489.114	ppb	1.0438	0.2	155027	97.82283
Tl 190.794	4962.85	ppb	13.4193	0.3	5564.76	99.25707
V 292.401	4920.24	ppb	16.1688	0.3	145178	98.40476
Zn 206.200	2587.89	ppb	10.9108	0.4	4163.20	103.51558

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB) 5/1/2013, 6:41:21 PM Rack 2, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3500u	0.3317	0.2390
Al 308.215	0.0158	-0.2358u	-3.7624u
As 188.980	-3.7524u	3.6711	-4.0302u
B 249.678	-7.6607u	-8.9288u	-9.2280u
Ba 389.178	0.2790	0.5437	0.1359
Be 313.042	-0.0399u	-0.0320u	-0.0386u
Ca 370.602	-0.7882u	-5.820u	4.240
Cd 226.502	0.0838	-0.0309u	-0.2507u
Co 228.615	-0.8103u	-0.8614u	-0.3456u
Cr 267.716	-0.1135u	-0.1015u	0.0689
Cu 324.754	0.0634	-0.1078u	-0.2250u
Fe 271.441	5.6326	1.6413	-0.2276u
K 766.491	-0.2738u	-0.4499u	-0.4981u
Mg 279.078	2.6251	0.3320	0.8155
Mn 257.610	0.0677	0.0515	0.0848
Mo 202.032	0.1812	0.0210	0.2203
Na 330.237	81.2282	-47.1676u	-50.1717u
Ni 231.604	2.1393	1.2194	1.8185
Pb 220.353	1.5176	-0.7491u	-2.0856u
Sb 206.834	-1.1785u	-0.9658u	-3.3690u
Se 196.026	9.0108	-0.9357u	1.5686
Sn 189.925	0.6526	1.1633	1.4901
Sr 216.596	0.1153	-0.3275u	-0.2603u
Ti 334.941	0.0153	-0.0218u	0.0381
Tl 190.794	1.3912	0.3245	5.1097
V 292.401	-0.1384u	0.0817	0.5803
Zn 206.200	0.9255	-0.1488u	0.0688

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0736	ppb	0.3698	502.7	-17.2074	0.07356
Al 308.215	-1.3274	ppb	2.1125	159.1	-7.5077	-1.32743
As 188.980	-1.3705	ppb	4.3683	318.7	-10.8253	-1.37051
B 249.678	-8.6058	ppb	0.8321	9.7	221.016	-8.60583
Ba 389.178	0.3195	ppb	0.2069	64.8	3.0794	0.31950
Be 313.042	-0.0368	ppb	0.0042	11.5	-385.525	-0.03682
Ca 370.602	-0.7893	ppb	5.030	637.3	9.808	-0.78932
Cd 226.502	-0.0659	ppb	0.1700	257.8	28.9124	-0.06593
Co 228.615	-0.6725	ppb	0.2842	42.3	3.1029	-0.67245
Cr 267.716	-0.0487	ppb	0.1020	209.6	7.0805	-0.04868
Cu 324.754	-0.0898	ppb	0.1450	161.5	191.764	-0.08980
Fe 271.441	2.3488	ppb	2.9935	127.5	110.014	2.34876
K 766.491	-0.4073	ppb	0.1180	29.0	302.520	-0.40728
Mg 279.078	1.2575	ppb	1.2087	96.1	37.2737	1.25752
Mn 257.610	0.0680	ppb	0.0167	24.5	85.7025	0.06802
Mo 202.032	0.1408	ppb	0.1056	75.0	20.2730	0.14084
Na 330.237	-5.3703	ppb	75.0116	1396.8	68.7706	-5.37034
Ni 231.604	1.7257	ppb	0.4669	27.1	-2.0953	1.72572
Pb 220.353	-0.4390	ppb	1.8215	414.9	34.6054	-0.43902
Sb 206.834	-1.8378	ppb	1.3304	72.4	18.9388	-1.83776
Se 196.026	3.2146	ppb	5.1735	160.9	7.1208	3.21457
Sn 189.925	1.1020	ppb	0.4221	38.3	-10.7110	1.10200
Sr 216.596	-0.1575	ppb	0.2386	151.5	21.0543	-0.15750
Ti 334.941	0.0105	ppb	0.0302	287.8	-16.4072	0.01051
Tl 190.794	2.2751	ppb	2.5121	110.4	-15.2645	2.27512
V 292.401	0.1745	ppb	0.3682	211.0	-0.7251	0.17452
Zn 206.200	0.2818	ppb	0.5679	201.5	41.0986	0.28182

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89727-b-17-a (Samp)**      **5/1/2013, 6:46:46 PM**      **Rack 2, Tube 27**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.4300u	-2.6067u	-2.6477u
Al 308.215	255456	255580	256827
As 188.980	14.0003	13.6815	18.2587
B 249.678	-1.4503u	-0.3736u	-0.7849u
Ba 389.178	368.245	367.639	369.335
Be 313.042	2.4987	2.4967	2.4968
Ca 370.602	840.4u	849.3u	834.7u
Cd 226.502	0.0457	-0.1106	-0.1564
Co 228.615	8.3310	8.5099	7.8868
Cr 267.716	228.218	228.338	228.674
Cu 324.754	23.0889	23.4121	22.9313
Fe 271.441	53436.1	53617.5	53744.1
K 766.491	9747.85	9746.60	9730.51
Mg 279.078	5299.60	5317.37	5315.99
Mn 257.610	104.401	104.910	104.918
Mo 202.032	8.7682	7.8701	9.0210
Na 330.237	259.612u	215.480u	199.238u
Ni 231.604	31.3234	32.7668	32.3545
Pb 220.353	273.278	279.577	277.464
Sb 206.834	-1.9119	-3.7843u	1.3950
Se 196.026	5.7362	-7.0994u	7.1430
Sn 189.925	15.5691	15.7701	16.2004
Sr 216.596	159.056	159.256	160.244
Ti 334.941	478.065	479.102	478.321
Tl 190.794	3.3814	-5.9689u	-0.7785u
V 292.401	270.496	271.495	271.686
Zn 206.200	69.2276	69.6266	68.2400

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.5615	ppb	0.1157	4.5	-233.924
Al 308.215	255955	ppb	758.373	0.3	778186
As 188.980	15.3135	ppb	2.5556	16.7	0.7297
B 249.678	-0.8696	ppb	0.5433	62.5	252.743
Ba 389.178	368.406	ppb	0.8597	0.2	9051.72
Be 313.042	2.4974	ppb	0.0011	0.0	4509.76
Ca 370.602	841.4	ppb	7.381	0.9	-1639
Cd 226.502	-0.0738	ppb	0.1060	143.6	213.385
Co 228.615	8.2426	ppb	0.3209	3.9	135.568
Cr 267.716	228.410	ppb	0.2364	0.1	12122.6
Cu 324.754	23.1441	ppb	0.2452	1.1	1529.89
Fe 271.441	53599.2	ppb	154.793	0.3	100629
K 766.491	9741.65	ppb	9.6737	0.1	390127
Mg 279.078	5310.99	ppb	9.8829	0.2	12307.1
Mn 257.610	104.743	ppb	0.2961	0.3	28287.2
Mo 202.032	8.5531	ppb	0.6049	7.1	85.4763
Na 330.237	224.777	ppb	31.2420	13.9	60.0651
Ni 231.604	32.1482	ppb	0.7435	2.3	93.1329
Pb 220.353	276.773	ppb	3.2060	1.2	613.335
Sb 206.834	-1.4337	ppb	2.6226	182.9	23.0175
Se 196.026	1.9266	ppb	7.8484	407.4	6.8223
Sn 189.925	15.8465	ppb	0.3225	2.0	4.3510
Sr 216.596	159.519	ppb	0.6358	0.4	2103.10
Ti 334.941	478.496	ppb	0.5399	0.1	151683
Tl 190.794	-1.1220	ppb	4.6846	417.5	-22.2047
V 292.401	271.226	ppb	0.6391	0.2	8010.98
Zn 206.200	69.0314	ppb	0.7138	1.0	416.377

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-18-a (Samp) 5/1/2013, 6:52:12 PM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.4560u	-3.3374u	-3.6145u
Al 308.215	115108	114822	114052
As 188.980	10.6630	16.8919	17.3780
B 249.678	-9.3970u	-9.4627u	-10.1255u
Ba 389.178	363.156	365.285	363.429
Be 313.042	0.8824	0.8938	0.8895
Ca 370.602	320.6u	322.1u	324.7u
Cd 226.502	-0.0645	0.0494	0.0863
Co 228.615	3.3286	3.7339	3.3681
Cr 267.716	85.5231	85.6686	85.8456
Cu 324.754	10.4780	10.4869	9.8171
Fe 271.441	19640.8	19645.6	19601.4
K 766.491	1985.48	1986.53	1987.67
Mg 279.078	1761.62	1764.27	1758.56
Mn 257.610	125.554	125.532	125.351
Mo 202.032	2.1873	2.9547	1.9475
Na 330.237	124.371u	-60.0955u	-45.8690u
Ni 231.604	18.7915	19.8746	19.0228
Pb 220.353	176.557	181.140	180.359
Sb 206.834	-3.5045u	-4.4966u	-1.7519u
Se 196.026	-2.9691u	-1.0339u	-1.4791u
Sn 189.925	15.6936	15.7808	15.2918
Sr 216.596	305.285	305.217	305.029
Ti 334.941	972.933	974.918	973.886
Tl 190.794	4.8795	0.8371u	-0.3801u
V 292.401	103.088	102.808	103.227
Zn 206.200	31.1919	30.8304	31.4915

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4693	ppb	0.1390	4.0	-315.693
Al 308.215	114661	ppb	546.134	0.5	348604
As 188.980	14.9777	ppb	3.7445	25.0	0.8921
B 249.678	-9.6617	ppb	0.4030	4.2	181.181
Ba 389.178	363.957	ppb	1.1586	0.3	8882.84
Be 313.042	0.8886	ppb	0.0057	0.6	1404.04
Ca 370.602	322.4	ppb	2.067	0.6	-389.1
Cd 226.502	0.0237	ppb	0.0787	331.2	100.246
Co 228.615	3.4769	ppb	0.2235	6.4	87.5761
Cr 267.716	85.6791	ppb	0.1615	0.2	4555.50
Cu 324.754	10.2607	ppb	0.3842	3.7	786.606
Fe 271.441	19629.3	ppb	24.2848	0.1	36920.2
K 766.491	1986.56	ppb	1.0930	0.1	79810.1
Mg 279.078	1761.49	ppb	2.8575	0.2	4094.27
Mn 257.610	125.479	ppb	0.1112	0.1	33702.1
Mo 202.032	2.3631	ppb	0.5261	22.3	37.1214
Na 330.237	6.1356	ppb	102.642	1672.9	55.3148
Ni 231.604	19.2296	ppb	0.5704	3.0	52.4089
Pb 220.353	179.352	ppb	2.4522	1.4	409.623
Sb 206.834	-3.2510	ppb	1.3898	42.7	18.7867
Se 196.026	-1.8273	ppb	1.0135	55.5	4.7626
Sn 189.925	15.5887	ppb	0.2608	1.7	4.0883
Sr 216.596	305.177	ppb	0.1328	0.0	3963.11
Ti 334.941	973.912	ppb	0.9929	0.1	308672
Tl 190.794	1.7789	ppb	2.7533	154.8	-17.1036
V 292.401	103.041	ppb	0.2131	0.2	3053.40
Zn 206.200	31.1712	ppb	0.3310	1.1	51.9003

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-20-a (Samp) 5/1/2013, 6:57:37 PM Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1482u	-0.8381u	-0.7535u
Al 308.215	24855.4	24870.5	24776.0
As 188.980	2.2049	-0.8213	3.7645
B 249.678	-9.3365u	-9.4377u	-8.5408u
Ba 389.178	127.984	128.436	127.661
Be 313.042	0.5255	0.5298	0.5349
Ca 370.602	361366	362990	362496
Cd 226.502	0.4644	0.5030	0.3023
Co 228.615	4.0297	4.5076	4.3773
Cr 267.716	27.4055	27.6444	26.9991
Cu 324.754	7.0082	7.1861	7.0685
Fe 271.441	14472.4	14459.9	14454.3
K 766.491	1618.02	1614.69	1622.72
Mg 279.078	4537.21	4526.14	4525.17
Mn 257.610	643.105	641.952	641.856
Mo 202.032	1.9191	1.9473	2.2620
Na 330.237	437.374	451.218	633.207
Ni 231.604	18.6597	18.0946	18.5248
Pb 220.353	32.3920	32.4380	33.7256
Sb 206.834	0.5924	3.3913	-4.7701u
Se 196.026	-0.4259	-2.0371u	1.7799
Sn 189.925	12.8853	14.0741	10.8759
Sr 216.596	318.936	319.217	319.664
Ti 334.941	341.990	341.909	342.245
Tl 190.794	-0.6919u	0.7593u	1.1933u
V 292.401	31.7412	31.8787	31.9264
Zn 206.200	34.5730	31.6435	32.8855

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5799	ppb	0.3763	64.9	-82.7461
Al 308.215	24834.0	ppb	50.7146	0.2	75500.2
As 188.980	1.7161	ppb	2.3317	135.9	-5.0714
B 249.678	-9.1050	ppb	0.4912	5.4	195.351
Ba 389.178	128.027	ppb	0.3893	0.3	3143.60
Be 313.042	0.5301	ppb	0.0047	0.9	837.573
Ca 370.602	362284	ppb	832.4	0.2	1200968
Cd 226.502	0.4232	ppb	0.1065	25.2	98.7059
Co 228.615	4.3049	ppb	0.2471	5.7	79.6513
Cr 267.716	27.3497	ppb	0.3263	1.2	1465.70
Cu 324.754	7.0876	ppb	0.0905	1.3	604.997
Fe 271.441	14462.2	ppb	9.2886	0.1	27229.2
K 766.491	1618.48	ppb	4.0355	0.2	65081.5
Mg 279.078	4529.50	ppb	6.6908	0.1	10545.7
Mn 257.610	642.304	ppb	0.6951	0.1	171940
Mo 202.032	2.0428	ppb	0.1904	9.3	34.9451
Na 330.237	507.267	ppb	109.287	21.5	88.4880
Ni 231.604	18.4264	ppb	0.2952	1.6	49.7688
Pb 220.353	32.8519	ppb	0.7571	2.3	104.093
Sb 206.834	-0.2621	ppb	4.1473	1582.2	21.2674
Se 196.026	-0.2277	ppb	1.9162	841.6	5.6553
Sn 189.925	12.6118	ppb	1.6165	12.8	1.2368
Sr 216.596	319.273	ppb	0.3668	0.1	4186.94
Ti 334.941	342.048	ppb	0.1753	0.1	108416
Tl 190.794	0.4202	ppb	0.9873	234.9	-19.2286
V 292.401	31.8488	ppb	0.0962	0.3	940.249
Zn 206.200	33.0340	ppb	1.4704	4.5	54.5173

**680-89727-b-21-a (Samp)**                      **5/1/2013, 7:03:02 PM**                      **Rack 2, Tube 30**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4247	-0.1435u	-0.0673u
Al 308.215	228610	227459	226224
As 188.980	0.2140u	-0.3947u	4.8340
B 249.678	-14.5420u	-14.8304u	-15.2295u
Ba 389.178	279.667	278.098	276.659
Be 313.042	0.7454	0.7428	0.7566
Ca 370.602	414.5u	417.9u	418.8u
Cd 226.502	-0.0440	0.3629	0.4833
Co 228.615	8.5896	9.0478	8.1315
Cr 267.716	148.610	147.975	147.315
Cu 324.754	9.6258	9.5563	9.3904
Fe 271.441	28361.8	28269.1	28091.9
K 766.491	2731.51	2718.12	2707.16
Mg 279.078	2940.19	2944.91	2918.14
Mn 257.610	57.7544	57.6486	57.2969
Mo 202.032	8.1513	9.0907	8.6217
Na 330.237	207.201	15.7970u	-40.4664u
Ni 231.604	46.3906	48.7716	46.7341
Pb 220.353	132.762	128.350	135.477
Sb 206.834	-2.6871u	-0.6863	3.2776
Se 196.026	-2.4137u	2.2208	-14.1627u
Sn 189.925	13.3937	18.4921	14.7045
Sr 216.596	31.8749	31.2103	31.3686
Ti 334.941	197.629	197.417	196.407
Tl 190.794	-4.1275u	2.7189	-3.8588u
V 292.401	105.221	104.432	104.273
Zn 206.200	51.5430	48.4628	48.9332

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0713	ppb	0.3084	432.6	-16.8860
Al 308.215	227431	ppb	1193.37	0.5	691465
As 188.980	1.5511	ppb	2.8593	184.3	-9.0290
B 249.678	-14.8673	ppb	0.3452	2.3	101.007
Ba 389.178	278.141	ppb	1.5045	0.5	6811.36
Be 313.042	0.7483	ppb	0.0073	1.0	1143.00
Ca 370.602	417.1	ppb	2.227	0.5	-954.1
Cd 226.502	0.2674	ppb	0.2763	103.3	139.752
Co 228.615	8.5896	ppb	0.4581	5.3	132.427
Cr 267.716	147.967	ppb	0.6479	0.4	7855.99
Cu 324.754	9.5242	ppb	0.1209	1.3	747.749
Fe 271.441	28240.9	ppb	137.148	0.5	53071.2
K 766.491	2718.93	ppb	12.1932	0.4	109116
Mg 279.078	2934.41	ppb	14.2876	0.5	6788.08
Mn 257.610	57.5666	ppb	0.2395	0.4	15573.1
Mo 202.032	8.6212	ppb	0.4697	5.4	87.8219
Na 330.237	60.8437	ppb	129.833	213.4	61.6110
Ni 231.604	47.2988	ppb	1.2870	2.7	139.225
Pb 220.353	132.196	ppb	3.5969	2.7	311.311
Sb 206.834	-0.0320	ppb	3.0358	9499.9	23.0339
Se 196.026	-4.7852	ppb	8.4453	176.5	3.3267
Sn 189.925	15.5301	ppb	2.6476	17.0	4.0283
Sr 216.596	31.4846	ppb	0.3472	1.1	441.182
Ti 334.941	197.151	ppb	0.6526	0.3	62496.4
Tl 190.794	-1.7558	ppb	3.8775	220.8	-21.4686
V 292.401	104.642	ppb	0.5077	0.5	3081.34
Zn 206.200	49.6463	ppb	1.6594	3.3	824965

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89727-b-22-a (Samp)      5/1/2013, 7:08:27 PM      Rack 2, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1949u	0.0049	-0.1575u
Al 308.215	194274	194098	195397
As 188.980	-2.1182u	-0.5295u	1.1654
B 249.678	-12.7977u	-12.9801u	-12.7375u
Ba 389.178	120.280	121.241	122.373
Be 313.042	0.6010	0.5942	0.6102
Ca 370.602	911.7	909.8	916.2
Cd 226.502	0.3912	0.2816	0.0418
Co 228.615	6.8942	6.7877	6.2181
Cr 267.716	98.4671	98.8262	99.4336
Cu 324.754	7.7925	7.6758	7.7170
Fe 271.441	17626.5	17615.8	17714.9
K 766.491	2076.02	2073.27	2087.15
Mg 279.078	1887.09	1880.45	1899.32
Mn 257.610	41.2578	41.1509	41.3784
Mo 202.032	5.4137	5.5858	4.9909
Na 330.237	54.9997u	221.966	3.6370u
Ni 231.604	33.9797	32.8085	34.0745
Pb 220.353	90.9799	90.1629	89.2933
Sb 206.834	-0.3486	0.8259	-5.3109u
Se 196.026	-3.3754u	15.2938	-6.7677u
Sn 189.925	12.1738	14.7109	12.4260
Sr 216.596	19.5579	19.7830	19.2393
Ti 334.941	237.972	237.696	239.563
Tl 190.794	-4.9290u	-2.4383u	0.1977u
V 292.401	65.0185	64.9214	65.2160
Zn 206.200	37.8899	41.8597	41.0456

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1158	ppb	0.1063	91.7	-31.8485
Al 308.215	194589	ppb	704.767	0.4	591616
As 188.980	-0.4941	ppb	1.6421	332.3	-10.3904
B 249.678	-12.8385	ppb	0.1263	1.0	141.766
Ba 389.178	121.298	ppb	1.0477	0.9	2977.43
Be 313.042	0.6018	ppb	0.0081	1.3	860.173
Ca 370.602	912.5	ppb	3.275	0.4	1592
Cd 226.502	0.2382	ppb	0.1787	75.0	102.136
Co 228.615	6.6333	ppb	0.3635	5.5	107.782
Cr 267.716	98.9090	ppb	0.4885	0.5	5254.99
Cu 324.754	7.7284	ppb	0.0592	0.8	642.292
Fe 271.441	17652.4	ppb	54.4055	0.3	33212.9
K 766.491	2078.81	ppb	7.3484	0.4	83501.6
Mg 279.078	1888.95	ppb	9.5711	0.5	4366.58
Mn 257.610	41.2624	ppb	0.1138	0.3	11172.0
Mo 202.032	5.3301	ppb	0.3061	5.7	61.5834
Na 330.237	93.5345	ppb	114.152	122.0	66.3503
Ni 231.604	33.6209	ppb	0.7051	2.1	96.7740
Pb 220.353	90.1454	ppb	0.8434	0.9	223.437
Sb 206.834	-1.6112	ppb	3.2574	202.2	20.5978
Se 196.026	1.7169	ppb	11.8796	691.9	6.4909
Sn 189.925	13.1036	ppb	1.3977	10.7	1.5499
Sr 216.596	19.5267	ppb	0.2731	1.4	282.473
Ti 334.941	238.410	ppb	1.0075	0.4	75564.8
Tl 190.794	-2.3899	ppb	2.5637	107.3	-21.5671
V 292.401	65.0520	ppb	0.1501	0.2	1914.46
Zn 206.200	40.2651	ppb	2.0968	5.2	66.3238

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

IDOC (Samp) 5/1/2013, 7:13:52 PM Rack 2, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.7784	51.5221	52.2235
Al 308.215	5069.90	5072.70	5110.15
As 188.980	107.130	98.9343	106.916
B 249.678	176.385	176.469	177.731
Ba 389.178	104.846	104.226	104.691
Be 313.042	53.2383	53.1642	53.3296
Ca 370.602	5011	5004	5007
Cd 226.502	54.6885	54.1166	54.9422
Co 228.615	53.6373	53.7317	54.2019
Cr 267.716	108.298	108.089	108.170
Cu 324.754	107.464	107.313	109.662
Fe 271.441	5089.25	5080.39	5086.48
K 766.491	5191.57	5164.07	5181.59
Mg 279.078	5052.58	5052.75	5059.52
Mn 257.610	552.656	551.360	553.733
Mo 202.032	101.697	103.021	102.540
Na 330.237	5040.96	4742.24	4991.65
Ni 231.604	106.862	105.847	108.088
Pb 220.353	49.0948	53.2327	51.2212
Sb 206.834	46.3513	42.9645	50.5396
Se 196.026	105.983	98.9864	107.391
Sn 189.925	209.671	211.530	215.034
Sr 216.596	104.939	104.426	104.178
Ti 334.941	101.998	101.280	101.733
Tl 190.794	39.8642	42.7997	41.9036
V 292.401	103.126	102.411	103.189
Zn 206.200	104.545	110.174	108.432

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.8413	ppb	0.3549	0.7	4154.17
Al 308.215	5084.25	ppb	22.4733	0.4	15460.6
As 188.980	104.327	ppb	4.6712	4.5	66.4027
B 249.678	176.862	ppb	0.7543	0.4	2667.69
Ba 389.178	104.588	ppb	0.3228	0.3	2561.64
Be 313.042	53.2440	ppb	0.0828	0.2	102283
Ca 370.602	5007	ppb	3.441	0.1	16232
Cd 226.502	54.5825	ppb	0.4229	0.8	2266.77
Co 228.615	53.8570	ppb	0.3024	0.6	733.858
Cr 267.716	108.186	ppb	0.1053	0.1	5742.38
Cu 324.754	108.146	ppb	1.3147	1.2	6358.39
Fe 271.441	5085.37	ppb	4.5312	0.1	9653.09
K 766.491	5179.08	ppb	13.9213	0.3	207557
Mg 279.078	5054.95	ppb	3.9546	0.1	11772.8
Mn 257.610	552.583	ppb	1.1884	0.2	147912
Mo 202.032	102.419	ppb	0.6700	0.7	856.347
Na 330.237	4924.95	ppb	160.141	3.3	326.814
Ni 231.604	106.932	ppb	1.1217	1.0	322.468
Pb 220.353	51.1829	ppb	2.0692	4.0	142.405
Sb 206.834	46.6185	ppb	3.7946	8.1	71.4637
Se 196.026	104.120	ppb	4.5013	4.3	57.4197
Sn 189.925	212.078	ppb	2.7230	1.3	204.830
Sr 216.596	104.515	ppb	0.3881	0.4	1365.83
Ti 334.941	101.671	ppb	0.3631	0.4	32230.3
Tl 190.794	41.5225	ppb	1.5044	3.6	27.7656
V 292.401	102.909	ppb	0.4322	0.4	3012.81
Zn 206.200	107.717	ppb	2.8817	2.7	4176.825



**IDOC (Samp)** 5/1/2013, 7:19:17 PM **Rack 2, Tube 33**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.7274	51.9859	51.8686
Al 308.215	5116.19	5074.07	5086.61
As 188.980	105.317	105.695	101.081
B 249.678	178.933	179.628	180.091
Ba 389.178	104.648	104.307	104.228
Be 313.042	53.3716	53.2761	53.1950
Ca 370.602	5006	4998	4994
Cd 226.502	54.0739	54.3250	54.5902
Co 228.615	53.4732	53.8344	53.2476
Cr 267.716	107.934	108.056	107.985
Cu 324.754	108.571	107.518	107.818
Fe 271.441	5052.86	5059.88	5056.11
K 766.491	5203.60	5183.69	5161.31
Mg 279.078	5050.69	5053.18	5047.85
Mn 257.610	551.098	551.901	551.361
Mo 202.032	102.260	101.669	103.194
Na 330.237	4851.90	4726.39	4733.50
Ni 231.604	104.544	106.492	107.904
Pb 220.353	50.7508	51.7130	50.0450
Sb 206.834	48.3689	46.5529	45.9433
Se 196.026	90.6790	100.265	99.7436
Sn 189.925	215.747	213.525	216.132
Sr 216.596	104.088	104.055	104.113
Ti 334.941	101.610	101.720	101.198
Tl 190.794	42.6395	41.7293	43.1336
V 292.401	102.556	102.737	102.790
Zn 206.200	106.945	109.922	105.553

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1940	ppb	0.4657	0.9	4182.64
Al 308.215	5092.29	ppb	21.6295	0.4	15485.0
As 188.980	104.031	ppb	2.5615	2.5	66.1867
B 249.678	179.551	ppb	0.5830	0.3	2703.31
Ba 389.178	104.395	ppb	0.2229	0.2	2556.88
Be 313.042	53.2809	ppb	0.0884	0.2	102354
Ca 370.602	4999	ppb	6.184	0.1	16209
Cd 226.502	54.3297	ppb	0.2582	0.5	2256.39
Co 228.615	53.5184	ppb	0.2960	0.6	729.316
Cr 267.716	107.992	ppb	0.0613	0.1	5732.09
Cu 324.754	107.969	ppb	0.5424	0.5	6348.27
Fe 271.441	5056.28	ppb	3.5086	0.1	9598.48
K 766.491	5182.87	ppb	21.1545	0.4	207709
Mg 279.078	5050.57	ppb	2.6698	0.1	11762.7
Mn 257.610	551.453	ppb	0.4098	0.1	147609
Mo 202.032	102.374	ppb	0.7689	0.8	855.980
Na 330.237	4770.60	ppb	70.4982	1.5	318.652
Ni 231.604	106.313	ppb	1.6870	1.6	320.558
Pb 220.353	50.8363	ppb	0.8373	1.6	141.681
Sb 206.834	46.9550	ppb	1.2618	2.7	71.8266
Se 196.026	96.8960	ppb	5.3904	5.6	53.8301
Sn 189.925	215.135	ppb	1.4076	0.7	207.952
Sr 216.596	104.086	ppb	0.0293	0.0	1360.30
Ti 334.941	101.510	ppb	0.2752	0.3	32179.2
Tl 190.794	42.5008	ppb	0.7123	1.7	28.8710
V 292.401	102.694	ppb	0.1228	0.1	3006.51
Zn 206.200	107.473	ppb	2.2318	2.1	4176.428

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**IDOC (Samp)** 5/1/2013, 7:24:43 PM **Rack 2, Tube 34**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.5573	52.4399	52.4525
Al 308.215	5147.97	5131.68	5077.67
As 188.980	100.256	100.931	106.430
B 249.678	182.057	181.030	181.619
Ba 389.178	105.401	104.380	104.635
Be 313.042	53.7275	53.4962	53.3056
Ca 370.602	5041	5028	4991
Cd 226.502	54.6291	54.4034	54.6553
Co 228.615	53.6632	54.1535	53.8294
Cr 267.716	108.748	108.052	108.025
Cu 324.754	106.927	108.724	106.761
Fe 271.441	5102.36	5076.60	5062.94
K 766.491	5210.98	5198.03	5193.35
Mg 279.078	5090.98	5067.42	5054.87
Mn 257.610	555.107	552.872	551.568
Mo 202.032	103.975	103.285	101.893
Na 330.237	4915.94	5200.17	4963.90
Ni 231.604	108.000	108.575	108.302
Pb 220.353	49.9452	51.8482	52.6400
Sb 206.834	50.0834	44.0185	49.2504
Se 196.026	108.913	103.511	104.104
Sn 189.925	213.651	216.062	213.936
Sr 216.596	105.056	104.582	103.981
Ti 334.941	102.396	101.904	101.680
Tl 190.794	38.4643	39.9032	42.3657
V 292.401	103.708	102.835	102.655
Zn 206.200	107.624	107.649	107.203

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1499	ppb	0.5132	1.0	4179.07
Al 308.215	5119.10	ppb	36.7990	0.7	15566.6
As 188.980	102.539	ppb	3.3863	3.3	65.0957
B 249.678	181.569	ppb	0.5154	0.3	2729.98
Ba 389.178	104.805	ppb	0.5314	0.5	2566.94
Be 313.042	53.5098	ppb	0.2113	0.4	102795
Ca 370.602	5020	ppb	25.97	0.5	16276
Cd 226.502	54.5626	ppb	0.1385	0.3	2265.90
Co 228.615	53.8820	ppb	0.2494	0.5	734.187
Cr 267.716	108.275	ppb	0.4096	0.4	5747.12
Cu 324.754	107.471	ppb	1.0889	1.0	6319.92
Fe 271.441	5080.63	ppb	20.0164	0.4	9644.22
K 766.491	5200.79	ppb	9.1317	0.2	208426
Mg 279.078	5071.09	ppb	18.3309	0.4	11810.3
Mn 257.610	553.182	ppb	1.7898	0.3	148072
Mo 202.032	103.051	ppb	1.0604	1.0	861.515
Na 330.237	5026.67	ppb	152.159	3.0	332.213
Ni 231.604	108.292	ppb	0.2874	0.3	326.661
Pb 220.353	51.4778	ppb	1.3851	2.7	143.021
Sb 206.834	47.7841	ppb	3.2876	6.9	72.7165
Se 196.026	105.509	ppb	2.9622	2.8	58.1099
Sn 189.925	214.550	ppb	1.3176	0.6	207.355
Sr 216.596	104.540	ppb	0.5388	0.5	1366.12
Ti 334.941	101.993	ppb	0.3664	0.4	32332.6
Tl 190.794	40.2444	ppb	1.9730	4.9	26.3264
V 292.401	103.066	ppb	0.5630	0.5	3017.38
Zn 206.200	107.492	ppb	0.2510	0.2	4176.460

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

IDOC (Samp) 5/1/2013, 7:30:09 PM Rack 2, Tube 35  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	52.3133	52.5835	52.3485
Al 308.215	5215.16	5204.49	5206.05
As 188.980	106.788	102.628	105.897
B 249.678	184.355	184.345	184.196
Ba 389.178	106.658	105.793	106.708
Be 313.042	54.3079	54.2890	54.3983
Ca 370.602	5101	5088	5096
Cd 226.502	55.4473	55.2156	55.2410
Co 228.615	54.7206	54.9340	54.3795
Cr 267.716	109.552	109.365	109.840
Cu 324.754	109.320	107.827	108.142
Fe 271.441	5147.06	5140.56	5156.20
K 766.491	5275.81	5269.86	5293.16
Mg 279.078	5146.66	5142.39	5153.05
Mn 257.610	561.478	561.473	562.238
Mo 202.032	104.629	104.018	104.756
Na 330.237	4997.81	4739.62	4949.80
Ni 231.604	109.281	108.752	107.953
Pb 220.353	52.0078	53.9477	51.5428
Sb 206.834	48.3667	55.2908	50.3719
Se 196.026	108.989	103.853	101.853
Sn 189.925	215.621	216.857	212.029
Sr 216.596	106.222	105.927	106.295
Ti 334.941	103.365	103.383	103.636
Tl 190.794	44.4663	46.7696	41.8295
V 292.401	104.763	104.270	104.941
Zn 206.200	109.588	108.627	110.329

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.4151	ppb	0.1469	0.3	4200.42
Al 308.215	5208.57	ppb	5.7620	0.1	15838.7
As 188.980	105.104	ppb	2.1906	2.1	66.9708
B 249.678	184.299	ppb	0.0890	0.0	2766.00
Ba 389.178	106.387	ppb	0.5144	0.5	2605.73
Be 313.042	54.3317	ppb	0.0584	0.1	104379
Ca 370.602	5095	ppb	6.379	0.1	16520
Cd 226.502	55.3013	ppb	0.1271	0.2	2296.15
Co 228.615	54.6780	ppb	0.2797	0.5	744.868
Cr 267.716	109.586	ppb	0.2394	0.2	5816.56
Cu 324.754	108.430	ppb	0.7873	0.7	6374.57
Fe 271.441	5147.94	ppb	7.8548	0.2	9770.59
K 766.491	5279.61	ppb	12.1089	0.2	211580
Mg 279.078	5147.37	ppb	5.3645	0.1	11987.5
Mn 257.610	561.729	ppb	0.4402	0.1	150359
Mo 202.032	104.468	ppb	0.3948	0.4	873.096
Na 330.237	4895.74	ppb	137.321	2.8	325.224
Ni 231.604	108.662	ppb	0.6686	0.6	327.804
Pb 220.353	52.4994	ppb	1.2756	2.4	145.156
Sb 206.834	51.3432	ppb	3.5628	6.9	76.5603
Se 196.026	104.898	ppb	3.6811	3.5	57.8089
Sn 189.925	214.836	ppb	2.5080	1.2	207.647
Sr 216.596	106.148	ppb	0.1949	0.2	1386.80
Ti 334.941	103.461	ppb	0.1516	0.1	32798.3
Tl 190.794	44.3551	ppb	2.4719	5.6	30.9382
V 292.401	104.658	ppb	0.3477	0.3	3064.20
Zn 206.200	109.515	ppb	0.8533	0.8	4176.730

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

mb 680-274985/1-b (Samp) 5/1/2013, 7:35:35 PM Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0214	-0.0200u	0.0089
Al 308.215	5.6282	7.9885	7.8337
As 188.980	-4.5107u	-5.3304u	-2.3252u
B 249.678	-10.1737u	-10.3751u	-10.3472u
Ba 389.178	-0.4002u	-0.0008	-1.0555u
Be 313.042	-0.0392u	-0.0476u	-0.0410u
Ca 370.602	-4.597u	2.397	2.754
Cd 226.502	-0.0865u	-0.1248u	-0.2401u
Co 228.615	-0.1508u	-0.5876u	0.1613
Cr 267.716	0.1085	0.0161	-0.2350u
Cu 324.754	0.5771	-0.0068u	0.1636
Fe 271.441	15.6650	25.0443	21.9127
K 766.491	-0.8114u	-0.1536u	0.2673
Mg 279.078	-0.1039u	1.3603	4.4752
Mn 257.610	-0.0738u	-0.0875u	-0.0870u
Mo 202.032	-0.4829u	-0.1606u	0.1268
Na 330.237	-141.472u	103.839	43.5177
Ni 231.604	0.5862	1.1452	0.5112
Pb 220.353	-0.8058u	-0.7202u	0.0618
Sb 206.834	-3.9161u	-4.4087u	0.0954
Se 196.026	1.5869	-0.3855u	0.5731
Sn 189.925	-1.1070u	-0.1121u	-0.1499u
Sr 216.596	-0.1323u	0.1719	-0.3806u
Ti 334.941	-0.0464u	-0.1297u	-0.0650u
Tl 190.794	-0.7606u	3.0481	3.9004
V 292.401	-0.2391u	-0.0597u	-0.1200u
Zn 206.200	0.6752	0.7148	0.7316

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0034	ppb	0.0213	619.9	-22.8574
Al 308.215	7.1501	ppb	1.3203	18.5	18.2367
As 188.980	-4.0554	ppb	1.5534	38.3	-12.7882
B 249.678	-10.2987	ppb	0.1091	1.1	198.598
Ba 389.178	-0.4855	ppb	0.5325	109.7	-16.4768
Be 313.042	-0.0426	ppb	0.0044	10.4	-396.633
Ca 370.602	0.1846	ppb	4.145	2245.0	11.47
Cd 226.502	-0.1505	ppb	0.0800	53.1	25.5407
Co 228.615	-0.1924	ppb	0.3761	195.5	9.5607
Cr 267.716	-0.0368	ppb	0.1777	483.1	7.7194
Cu 324.754	0.2446	ppb	0.3002	122.7	210.801
Fe 271.441	20.8740	ppb	4.7752	22.9	144.833
K 766.491	-0.2326	ppb	0.5437	233.8	309.511
Mg 279.078	1.9105	ppb	2.3386	122.4	38.7952
Mn 257.610	-0.0827	ppb	0.0078	9.4	45.4437
Mo 202.032	-0.1722	ppb	0.3050	177.1	17.7120
Na 330.237	1.9618	ppb	127.826	6515.6	69.1503
Ni 231.604	0.7475	ppb	0.3464	46.3	-5.1113
Pb 220.353	-0.4881	ppb	0.4781	98.0	34.5035
Sb 206.834	-2.7431	ppb	2.4706	90.1	17.9697
Se 196.026	0.5915	ppb	0.9864	166.8	5.8177
Sn 189.925	-0.4563	ppb	0.5638	123.6	-12.3030
Sr 216.596	-0.1137	ppb	0.2767	243.5	21.6728
Ti 334.941	-0.0804	ppb	0.0437	54.4	-45.2048
Tl 190.794	2.0626	ppb	2.4818	120.3	-15.5043
V 292.401	-0.1396	ppb	0.0913	65.4	-9.9239
Zn 206.200	0.7072	ppb	0.0290	4.1	41.7876

Cont Calib Verif (CCV) 5/1/2013, 7:41:01 PM Rack 2, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.854	498.196	493.267
Al 308.215	4862.22	4786.77	4810.07
As 188.980	502.481	489.265	497.237
B 249.678	493.889	488.959	491.358
Ba 389.178	5046.01	4992.61	5000.18
Be 313.042	510.633	507.540	508.398
Ca 370.602	4976	4914	4920
Cd 226.502	518.809	515.026	513.579
Co 228.615	522.546	516.177	517.940
Cr 267.716	5158.17	5110.04	5112.56
Cu 324.754	5185.82	5140.02	5085.46
Fe 271.441	4948.88	4896.54	4905.36
K 766.491	10086.7	9974.87	10004.4
Mg 279.078	4960.26	4912.62	4916.97
Mn 257.610	5247.48	5193.93	5205.50
Mo 202.032	497.058	493.281	493.409
Na 330.237	7064.56	7137.77	7156.07
Ni 231.604	2591.48	2558.81	2560.66
Pb 220.353	486.050	486.358	488.595
Sb 206.834	943.516	939.092	944.534
Se 196.026	4891.97	4861.52	4880.40
Sn 189.925	5012.68	4981.50	4942.29
Sr 216.596	2516.31	2490.77	2495.61
Ti 334.941	490.772	486.370	486.719
Tl 190.794	4982.68	4928.36	4924.50
V 292.401	4929.43	4889.18	4901.55
Zn 206.200	2593.30	2573.90	2563.20

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.439	ppb	5.2977	1.1	40094.4	99.68779
Al 308.215	4819.68	ppb	38.6341	0.8	14638.4	96.39367
As 188.980	496.328	ppb	6.6546	1.3	352.856	99.26557
B 249.678	491.402	ppb	2.4655	0.5	6828.62	19.65608Q
Ba 389.178	5012.93	ppb	28.8967	0.6	121970	100.25869
Be 313.042	508.857	ppb	1.5966	0.3	980134	101.77137
Ca 370.602	4936	ppb	34.15	0.7	16264	98.72457
Cd 226.502	515.805	ppb	2.7005	0.5	21004.9	103.16100
Co 228.615	518.888	ppb	3.2890	0.6	6984.65	103.77755
Cr 267.716	5126.92	ppb	27.0881	0.5	271527	102.53846
Cu 324.754	5137.10	ppb	50.2441	1.0	292661	102.74207
Fe 271.441	4916.93	ppb	28.0250	0.6	9465.66	98.33853
K 766.491	10022.0	ppb	57.9651	0.6	401344	100.21983
Mg 279.078	4929.95	ppb	26.3390	0.5	11400.0	98.59903
Mn 257.610	5215.63	ppb	28.1756	0.5	1395090	104.31270
Mo 202.032	494.583	ppb	2.1445	0.4	4053.81	98.91655
Na 330.237	7119.47	ppb	48.4223	0.7	421.138	94.92620
Ni 231.604	2570.32	ppb	18.3526	0.7	7919.07	102.81268
Pb 220.353	487.001	ppb	1.3890	0.3	1053.70	97.40018
Sb 206.834	942.381	ppb	2.8931	0.3	1089.65	94.23809
Se 196.026	4877.97	ppb	15.3708	0.3	2430.31	97.55930
Sn 189.925	4978.82	ppb	35.2721	0.7	5074.61	99.57642
Sr 216.596	2500.90	ppb	13.5628	0.5	32165.2	100.03585
Ti 334.941	487.954	ppb	2.4467	0.5	154659	97.59072
Tl 190.794	4945.18	ppb	32.5365	0.7	5544.90	98.90361
V 292.401	4906.72	ppb	20.6169	0.4	144779	98.13437
Zn 206.200	2576.80	ppb	15.2580	0.6	4145.34	103.07195

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/1/2013, 7:46:27 PM                      Rack 2, Tube 38  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2391	-0.3240u	0.0452
Al 308.215	-2.6404u	-8.1491u	-4.2608u
As 188.980	-4.0311u	-2.8414u	-4.8589u
B 249.678	-7.5242u	-7.8552u	-8.7232u
Ba 389.178	0.4835	-0.7128u	0.6202
Be 313.042	-0.0415u	-0.0403u	-0.0331u
Ca 370.602	2.453	5.918	-1.307u
Cd 226.502	-0.0879u	-0.0447u	-0.0095u
Co 228.615	-0.3117u	0.0375	-0.2708u
Cr 267.716	0.1678	0.0850	0.2522
Cu 324.754	0.1375	-0.4827u	0.0652
Fe 271.441	3.0608	3.8740	6.9762
K 766.491	0.2029	-0.6496u	-0.7369u
Mg 279.078	1.3561	-2.5213u	1.0101
Mn 257.610	-0.0641u	-0.0369u	0.0334
Mo 202.032	0.3210	-0.2014u	-0.7185u
Na 330.237	15.0506	157.323	158.123
Ni 231.604	1.8267	1.0100	1.6939
Pb 220.353	-1.4880u	-0.7934u	0.0684
Sb 206.834	-5.9336u	2.6089	1.0537
Se 196.026	-3.8305u	3.9658	10.7181
Sn 189.925	-2.4237u	-0.4526u	-2.9452u
Sr 216.596	-0.8160u	-0.1713u	-0.2323u
Ti 334.941	-0.0059u	0.0216	0.0431
Tl 190.794	1.5640	1.3715	0.4147
V 292.401	0.1824	-0.1783u	0.1741
Zn 206.200	0.3530	-0.1543u	0.2131

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0132	ppb	0.2861	2161.4	-24.1915	-0.01324
Al 308.215	-5.0168	ppb	2.8311	56.4	-18.7613	-5.01679
As 188.980	-3.9105	ppb	1.0142	25.9	-12.6820	-3.91046
B 249.678	-8.0342	ppb	0.6192	7.7	228.575	-8.03422
Ba 389.178	0.1303	ppb	0.7334	562.7	-1.5282	0.13033
Be 313.042	-0.0383	ppb	0.0045	11.8	-388.315	-0.03831
Ca 370.602	2.355	ppb	3.614	153.5	20.15	2.35473
Cd 226.502	-0.0474	ppb	0.0393	82.9	29.6700	-0.04737
Co 228.615	-0.1817	ppb	0.1909	105.1	9.7120	-0.18169
Cr 267.716	0.1683	ppb	0.0836	49.7	18.5768	0.16832
Cu 324.754	-0.0934	ppb	0.3391	363.3	191.546	-0.09336
Fe 271.441	4.6370	ppb	2.0662	44.6	114.384	4.63699
K 766.491	-0.3945	ppb	0.5192	131.6	303.030	-0.39453
Mg 279.078	-0.0517	ppb	2.1457	4149.5	34.2328	-0.05171
Mn 257.610	-0.0225	ppb	0.0503	223.2	61.4788	-0.02252
Mo 202.032	-0.1996	ppb	0.5197	260.3	17.4883	-0.19964
Na 330.237	110.166	ppb	82.3730	74.8	74.8946	110.16568
Ni 231.604	1.5102	ppb	0.4382	29.0	-2.7599	1.51020
Pb 220.353	-0.7377	ppb	0.7797	105.7	33.9817	-0.73766
Sb 206.834	-0.7570	ppb	4.5500	601.1	20.1140	-0.75699
Se 196.026	3.6178	ppb	7.2806	201.2	7.3212	3.61781
Sn 189.925	-1.9405	ppb	1.3147	67.8	-13.8192	-1.94047
Sr 216.596	-0.4065	ppb	0.3559	87.6	17.8840	-0.40653
Ti 334.941	0.0196	ppb	0.0246	125.5	-13.5480	0.01958
Tl 190.794	1.1167	ppb	0.6155	55.1	-16.5684	1.11671
V 292.401	0.0594	ppb	0.2059	346.7	-4.0334	0.05939
Zn 206.200	0.1372	ppb	0.2620	190.8	-0.1354	0.13724

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

ics 680-274985/2-b (Samp)      5/1/2013, 7:51:52 PM      Rack 2, Tube 39  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.5428	51.4512	50.9984
Al 308.215	4949.82	4984.20	4976.79
As 188.980	97.7119	99.0668	96.1264
B 249.678	182.945	184.430	183.352
Ba 389.178	101.548	101.987	100.938
Be 313.042	52.1521	52.2424	52.0420
Ca 370.602	4825	4851	4819
Cd 226.502	52.8451	52.8622	52.7024
Co 228.615	52.1133	51.8049	51.7962
Cr 267.716	104.676	105.158	104.446
Cu 324.754	104.130	105.950	102.049
Fe 271.441	5443.83	5444.32	5432.32
K 766.491	5060.49	5059.73	5023.13
Mg 279.078	4940.51	4950.16	4929.09
Mn 257.610	536.562	537.376	534.876
Mo 202.032	98.9573	99.1035	98.9248
Na 330.237	4669.04	4726.93	4849.38
Ni 231.604	104.379	104.111	104.007
Pb 220.353	46.8458	47.3391	45.8687
Sb 206.834	49.7381	44.4343	44.4466
Se 196.026	102.901	110.288	91.8735
Sn 189.925	194.229	196.595	197.241
Sr 216.596	101.438	100.890	101.165
Ti 334.941	98.0622	98.1880	97.6110
Tl 190.794	41.8144	39.8395	44.8128
V 292.401	100.361	99.8267	99.6342
Zn 206.200	104.275	102.717	103.676

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.3308	ppb	0.2915	0.6	4113.10
Al 308.215	4970.27	ppb	18.0959	0.4	15113.9
As 188.980	97.6350	ppb	1.4717	1.5	61.5057
B 249.678	183.576	ppb	0.7672	0.4	2756.05
Ba 389.178	101.491	ppb	0.5267	0.5	2486.48
Be 313.042	52.1455	ppb	0.1004	0.2	100166
Ca 370.602	4832	ppb	16.82	0.3	15619
Cd 226.502	52.8032	ppb	0.0877	0.2	2195.67
Co 228.615	51.9048	ppb	0.1806	0.3	707.672
Cr 267.716	104.760	ppb	0.3636	0.3	5560.99
Cu 324.754	104.043	ppb	1.9518	1.9	6124.81
Fe 271.441	5440.16	ppb	6.7929	0.1	10318.1
K 766.491	5047.78	ppb	21.3522	0.4	202303
Mg 279.078	4939.92	ppb	10.5495	0.2	11505.9
Mn 257.610	536.272	ppb	1.2750	0.2	143549
Mo 202.032	98.9952	ppb	0.0952	0.1	828.326
Na 330.237	4748.45	ppb	92.0773	1.9	317.423
Ni 231.604	104.166	ppb	0.1917	0.2	313.944
Pb 220.353	46.6846	ppb	0.7483	1.6	133.006
Sb 206.834	46.2063	ppb	3.0586	6.6	71.0280
Se 196.026	101.688	ppb	9.2672	9.1	56.2091
Sn 189.925	196.022	ppb	1.5856	0.8	188.426
Sr 216.596	101.164	ppb	0.2741	0.3	1323.03
Ti 334.941	97.9537	ppb	0.3034	0.3	31051.7
Tl 190.794	42.1555	ppb	2.5041	5.9	28.4844
V 292.401	99.9407	ppb	0.3767	0.4	2925.85
Zn 206.200	103.556	ppb	0.7861	0.8	157.155

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-8-h (Samp) 5/1/2013, 7:57:18 PM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1782	-0.2279u	0.0571
Al 308.215	8.9766	11.8258	6.9171
As 188.980	-2.0473u	-2.4462u	-6.0397u
B 249.678	-6.8762u	-7.0173u	-6.8483u
Ba 389.178	29.4537	29.6417	28.6282
Be 313.042	-0.0062u	0.0068	0.0018
Ca 370.602	6049	6062	6037
Cd 226.502	-0.2366u	0.0449	-0.0842u
Co 228.615	-0.7719u	0.1982	-0.5750u
Cr 267.716	0.1702	0.1402	0.1451
Cu 324.754	0.2170	0.9199	0.6970
Fe 271.441	83.9497	89.1609	89.8623
K 766.491	1483.04	1481.28	1471.09
Mg 279.078	2511.19	2513.98	2513.26
Mn 257.610	1.3426	1.3398	1.3084
Mo 202.032	0.3530	0.8437	0.4462
Na 330.237	5533.41	5557.45	5617.90
Ni 231.604	0.5994	1.9421	-0.0311u
Pb 220.353	-2.3987u	0.6287	-0.3065u
Sb 206.834	-0.2359u	2.2761	-3.5335u
Se 196.026	11.2514	-0.4500u	0.0367
Sn 189.925	-2.0462u	-2.3376u	0.6497
Sr 216.596	45.7376	45.9097	45.6279
Ti 334.941	0.1005	0.1105	0.0918
Tl 190.794	1.0325	-1.7552u	-2.3182u
V 292.401	-0.2337u	-0.0889u	-0.2791u
Zn 206.200	1.4300	1.0965	1.6001

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0024	ppb	0.2085	8526.6	-25.2032
Al 308.215	9.2398	ppb	2.4649	26.7	24.6392
As 188.980	-3.5111	ppb	2.1989	62.6	-12.3299
B 249.678	-6.9139	ppb	0.0906	1.3	243.288
Ba 389.178	29.2412	ppb	0.5391	1.8	713.628
Be 313.042	0.0008	ppb	0.0066	835.9	-311.712
Ca 370.602	6049	ppb	12.65	0.2	20077
Cd 226.502	-0.0919	ppb	0.1409	153.3	28.1502
Co 228.615	-0.3829	ppb	0.5128	133.9	6.9846
Cr 267.716	0.1518	ppb	0.0161	10.6	17.8400
Cu 324.754	0.6113	ppb	0.3592	58.8	231.724
Fe 271.441	87.6577	ppb	3.2302	3.7	270.045
K 766.491	1478.47	ppb	6.4493	0.4	59479.1
Mg 279.078	2512.81	ppb	1.4481	0.1	5874.68
Mn 257.610	1.3302	ppb	0.0190	1.4	440.556
Mo 202.032	0.5476	ppb	0.2606	47.6	23.5963
Na 330.237	5569.59	ppb	43.5307	0.8	364.155
Ni 231.604	0.8368	ppb	1.0078	120.4	-4.8344
Pb 220.353	-0.6922	ppb	1.5501	223.9	34.0759
Sb 206.834	-0.4977	ppb	2.9137	585.4	20.3846
Se 196.026	3.6127	ppb	6.6198	183.2	7.3195
Sn 189.925	-1.2447	ppb	1.6471	132.3	-13.1030
Sr 216.596	45.7584	ppb	0.1420	0.3	613.285
Ti 334.941	0.1009	ppb	0.0094	9.3	24.6235
Tl 190.794	-1.0136	ppb	1.7942	177.0	-18.9752
V 292.401	-0.2006	ppb	0.0994	49.5	-11.8963
Zn 206.200	1.3756	ppb	0.2562	18.6	43.8738



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-9-d (Samp)                      5/1/2013, 8:02:55 PM                      Rack 2, Tube 41  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3474u	-0.0688u	-0.5680u
Al 308.215	67.4821	68.6888	70.4742
As 188.980	-3.9558u	-7.5301u	-7.4963u
B 249.678	-10.9051u	-10.9991u	-9.8307u
Ba 389.178	29.8488	29.7155	30.3143
Be 313.042	-0.0043u	-0.0091u	-0.0009u
Ca 370.602	4106	4067	4093
Cd 226.502	-0.3761u	0.0602	-0.0544u
Co 228.615	0.0746	-0.2942u	-0.0427u
Cr 267.716	0.6198	0.5633	0.3555
Cu 324.754	0.1597	0.4257	0.4495
Fe 271.441	617.547	610.879	616.048
K 766.491	1159.22	1155.09	1154.91
Mg 279.078	1525.41	1511.19	1524.84
Mn 257.610	7.4722	7.3579	7.4532
Mo 202.032	3.4922	4.1373	4.2189
Na 330.237	5732.45	5784.95	5875.31
Ni 231.604	1.3023	1.3470	0.9776
Pb 220.353	0.0013u	-2.4236u	1.3579
Sb 206.834	-4.6209u	-4.8154u	-1.6517u
Se 196.026	7.4652	-2.4756u	7.6746
Sn 189.925	2.4498	-2.0255u	0.7669
Sr 216.596	34.1425	34.0817	34.3773
Ti 334.941	1.3251	1.3655	1.3536
Tl 190.794	-1.6671u	-2.0484u	2.8452
V 292.401	0.9840	1.2102	0.7937
Zn 206.200	2.7895	3.3648	1.8190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3280	ppb	0.2502	76.3	-51.2432
Al 308.215	68.8817	ppb	1.5053	2.2	206.193
As 188.980	-6.3274	ppb	2.0539	32.5	-14.4161
B 249.678	-10.5783	ppb	0.6492	6.1	194.120
Ba 389.178	29.9596	ppb	0.3144	1.0	729.181
Be 313.042	-0.0047	ppb	0.0041	86.8	-323.620
Ca 370.602	4089	ppb	19.99	0.5	13528
Cd 226.502	-0.1234	ppb	0.2262	183.3	28.6711
Co 228.615	-0.0874	ppb	0.1884	215.5	10.8350
Cr 267.716	0.5129	ppb	0.1392	27.1	37.1240
Cu 324.754	0.3450	ppb	0.1609	46.6	216.827
Fe 271.441	614.825	ppb	3.4983	0.6	1258.76
K 766.491	1156.41	ppb	2.4395	0.2	46591.9
Mg 279.078	1520.48	ppb	8.0522	0.5	3568.25
Mn 257.610	7.4278	ppb	0.0612	0.8	2066.35
Mo 202.032	3.9494	ppb	0.3981	10.1	51.3890
Na 330.237	5797.57	ppb	72.2631	1.2	376.052
Ni 231.604	1.2090	ppb	0.2016	16.7	-3.6740
Pb 220.353	-0.3548	ppb	1.9157	539.9	34.7763
Sb 206.834	-3.6960	ppb	1.7731	48.0	16.9040
Se 196.026	4.2214	ppb	5.8008	137.4	7.6265
Sn 189.925	0.3971	ppb	2.2604	569.3	-11.4266
Sr 216.596	34.2005	ppb	0.1561	0.5	464.273
Ti 334.941	1.3481	ppb	0.0208	1.5	414.875
Tl 190.794	-0.2901	ppb	2.7220	938.4	-18.2017
V 292.401	0.9960	ppb	0.2085	20.9	22.7971
Zn 206.200	2.6578	ppb	0.7813	29.4	4.0020

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-10-d (Samp) 5/1/2013, 8:08:21 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1787u	0.0769	-0.4630u
Al 308.215	145.949	142.168	137.523
As 188.980	-0.4363u	1.0959	-4.9029u
B 249.678	-11.9057u	-11.3155u	-11.6762u
Ba 389.178	28.4081	27.9001	28.4154
Be 313.042	0.0131	-0.0007u	0.0023
Ca 370.602	3702	3676	3692
Cd 226.502	-0.0887u	-0.1355u	-0.1264u
Co 228.615	-0.4982u	-0.1887u	-0.0702u
Cr 267.716	0.0883	0.4664	0.3426
Cu 324.754	0.3191	0.3071	-0.0675u
Fe 271.441	135.850	136.881	137.195
K 766.491	1390.97	1386.62	1390.92
Mg 279.078	1541.57	1530.14	1536.78
Mn 257.610	16.9060	16.8798	16.8576
Mo 202.032	10.1795	10.7893	10.9383
Na 330.237	5350.81	5253.88	5510.90
Ni 231.604	1.1360	1.6964	1.8995
Pb 220.353	-1.7203u	0.9547	-0.4996u
Sb 206.834	-2.9589u	-2.9722u	-0.5737u
Se 196.026	-1.0306u	4.7894	0.9735
Sn 189.925	1.6460	-0.5659u	-0.8890u
Sr 216.596	33.4433	33.5086	33.8130
Ti 334.941	2.7000	2.7522	2.7050
Tl 190.794	-0.2715u	-2.1298u	3.1102
V 292.401	4.6295	4.5518	4.6811
Zn 206.200	3.5350	2.2841	4.2655

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1883	ppb	0.2701	143.4	-39.8684
Al 308.215	141.880	ppb	4.2202	3.0	428.576
As 188.980	-1.4144	ppb	3.1168	220.4	-10.8250
B 249.678	-11.6325	ppb	0.2975	2.6	180.804
Ba 389.178	28.2412	ppb	0.2954	1.0	686.758
Be 313.042	0.0049	ppb	0.0073	148.0	-306.300
Ca 370.602	3690	ppb	13.09	0.4	12245
Cd 226.502	-0.1169	ppb	0.0248	21.2	27.2974
Co 228.615	-0.2524	ppb	0.2210	87.6	8.4176
Cr 267.716	0.2991	ppb	0.1928	64.5	25.6796
Cu 324.754	0.1862	ppb	0.2198	118.0	207.801
Fe 271.441	136.642	ppb	0.7035	0.5	361.984
K 766.491	1389.50	ppb	2.4931	0.2	55919.1
Mg 279.078	1536.16	ppb	5.7385	0.4	3604.42
Mn 257.610	16.8811	ppb	0.0242	0.1	4593.33
Mo 202.032	10.6357	ppb	0.4021	3.8	106.098
Na 330.237	5371.86	ppb	129.794	2.4	353.624
Ni 231.604	1.5773	ppb	0.3955	25.1	-2.5495
Pb 220.353	-0.4218	ppb	1.3392	317.5	34.6265
Sb 206.834	-2.1683	ppb	1.3810	63.7	18.4377
Se 196.026	1.5774	ppb	2.9567	187.4	6.3125
Sn 189.925	0.0637	ppb	1.3798	2166.0	-11.7676
Sr 216.596	33.5883	ppb	0.1973	0.6	455.804
Ti 334.941	2.7191	ppb	0.0288	1.1	849.461
Tl 190.794	0.2363	ppb	2.6566	1124.2	-17.5984
V 292.401	4.6208	ppb	0.0651	1.4	128.686
Zn 206.200	3.3615	ppb	1.0920	29.8	5.0861

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-13-d (Samp) 5/1/2013, 8:13:47 PM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3655u	-0.0323u	0.2067
Al 308.215	28.7941	25.3790	28.7623
As 188.980	-5.3241u	-0.4841u	-5.7146u
B 249.678	-8.5818u	-9.0514u	-8.4154u
Ba 389.178	43.2283	42.8571	43.3719
Be 313.042	-0.0347u	-0.0327u	-0.0443u
Ca 370.602	9903	9896	9913
Cd 226.502	-0.0549u	-0.2551u	-0.2678u
Co 228.615	-0.4615u	-0.0129u	-0.3006u
Cr 267.716	0.2589	0.0895	0.1748
Cu 324.754	1.7893	1.5747	1.5061
Fe 271.441	222.734	222.379	223.837
K 766.491	1799.97	1796.86	1798.64
Mg 279.078	4035.24	4024.10	4041.28
Mn 257.610	8.0463	8.0185	8.0869
Mo 202.032	-0.1673u	-0.1402u	-0.1107u
Na 330.237	8402.42	8498.45	8611.33
Ni 231.604	2.2844	1.2893	2.5515
Pb 220.353	-1.4156u	-1.9245u	-1.6059u
Sb 206.834	-4.1672u	-6.6397u	-5.5000u
Se 196.026	7.4699	0.0619	5.9448
Sn 189.925	-0.1162u	0.5847	3.0475
Sr 216.596	61.3339	61.7743	62.0461
Ti 334.941	-0.0896u	-0.0876u	-0.1471u
Tl 190.794	-1.1198u	1.1930	-0.2845u
V 292.401	-0.1099u	0.1024	-0.0476u
Zn 206.200	17.1910	16.1350	16.3874

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0637	ppb	0.2874	451.1	-31.2942
Al 308.215	27.6451	ppb	1.9626	7.1	80.5449
As 188.980	-3.8409	ppb	2.9137	75.9	-12.5337
B 249.678	-8.6829	ppb	0.3298	3.8	219.711
Ba 389.178	43.1524	ppb	0.2657	0.6	1056.38
Be 313.042	-0.0372	ppb	0.0062	16.6	-383.871
Ca 370.602	9904	ppb	8.113	0.1	32856
Cd 226.502	-0.1926	ppb	0.1194	62.0	24.5298
Co 228.615	-0.2583	ppb	0.2273	88.0	8.6710
Cr 267.716	0.1744	ppb	0.0847	48.6	19.1559
Cu 324.754	1.6234	ppb	0.1477	9.1	289.370
Fe 271.441	222.983	ppb	0.7607	0.3	523.858
K 766.491	1798.49	ppb	1.5640	0.1	72284.6
Mg 279.078	4033.54	ppb	8.7156	0.2	9409.09
Mn 257.610	8.0506	ppb	0.0344	0.4	2248.66
Mo 202.032	-0.1394	ppb	0.0283	20.3	17.9688
Na 330.237	8504.07	ppb	104.564	1.2	519.492
Ni 231.604	2.0417	ppb	0.6652	32.6	-1.1154
Pb 220.353	-1.6486	ppb	0.2571	15.6	32.0794
Sb 206.834	-5.4356	ppb	1.2375	22.8	15.0739
Se 196.026	4.4922	ppb	3.9118	87.1	7.7589
Sn 189.925	1.1720	ppb	1.6616	141.8	-10.6307
Sr 216.596	61.7181	ppb	0.3594	0.6	819.402
Ti 334.941	-0.1081	ppb	0.0338	31.3	-34.1105
Tl 190.794	-0.0704	ppb	1.1711	1662.7	-17.9315
V 292.401	-0.0184	ppb	0.1091	593.9	-6.3599
Zn 206.200	16.5712	ppb	0.5515	3.3	264286

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-21-d (Samp) 5/1/2013, 8:19:12 PM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3610u	-0.0572u	-0.5304u
Al 308.215	9.9145	7.2897	9.3703
As 188.980	-3.4399u	-0.5764u	-2.6055u
B 249.678	-9.4692u	-10.3796u	-10.2970u
Ba 389.178	33.6452	33.0205	32.9523
Be 313.042	-0.0227u	-0.0279u	-0.0223u
Ca 370.602	7379	7384	7389
Cd 226.502	0.0765	-0.2536u	-0.0308u
Co 228.615	-0.4351u	-0.4846u	-0.1267u
Cr 267.716	-0.0606u	0.0772	-0.2003u
Cu 324.754	0.6360	0.4956	0.5639
Fe 271.441	174.650	179.237	169.516
K 766.491	1799.44	1804.20	1808.21
Mg 279.078	2625.73	2632.89	2635.34
Mn 257.610	39.2226	39.3136	39.3163
Mo 202.032	0.2664	-0.0811u	-0.3362u
Na 330.237	7954.84	7825.78	7935.66
Ni 231.604	-0.0996u	2.2317	1.3061
Pb 220.353	-0.5363u	1.0275	0.7065
Sb 206.834	-0.4931u	-3.2804u	0.6046
Se 196.026	3.7264	-2.4941u	4.7630
Sn 189.925	0.1756	-0.3924u	0.0992
Sr 216.596	49.1279	49.7749	49.9289
Ti 334.941	0.1318	0.1293	0.0884
Tl 190.794	3.7849	1.3711	2.3608
V 292.401	-0.2656u	-0.2319u	0.0132
Zn 206.200	6.8262	6.0458	5.6493

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3162	ppb	0.2398	75.8	-50.8756
Al 308.215	8.8582	ppb	1.3853	15.6	23.4379
As 188.980	-2.2073	ppb	1.4727	66.7	-11.3644
B 249.678	-10.0486	ppb	0.5035	5.0	201.707
Ba 389.178	33.2060	ppb	0.3819	1.2	810.515
Be 313.042	-0.0243	ppb	0.0031	13.0	-359.742
Ca 370.602	7384	ppb	5.185	0.1	24500
Cd 226.502	-0.0693	ppb	0.1684	243.0	29.3603
Co 228.615	-0.3488	ppb	0.1939	55.6	7.4594
Cr 267.716	-0.0612	ppb	0.1388	226.7	6.8019
Cu 324.754	0.5652	ppb	0.0702	12.4	229.108
Fe 271.441	174.467	ppb	4.8630	2.8	432.854
K 766.491	1803.95	ppb	4.3863	0.2	72503.0
Mg 279.078	2631.32	ppb	4.9942	0.2	6149.46
Mn 257.610	39.2842	ppb	0.0533	0.1	10592.8
Mo 202.032	-0.0503	ppb	0.3025	601.7	18.7008
Na 330.237	7905.43	ppb	69.6387	0.9	487.866
Ni 231.604	1.1461	ppb	1.1739	102.4	-3.8785
Pb 220.353	0.3992	ppb	0.8260	206.9	36.3689
Sb 206.834	-1.0563	ppb	2.0028	189.6	19.7906
Se 196.026	1.9984	ppb	3.9250	196.4	6.5274
Sn 189.925	-0.0392	ppb	0.3082	786.3	-11.8697
Sr 216.596	49.6105	ppb	0.4250	0.9	663.120
Ti 334.941	0.1165	ppb	0.0244	20.9	29.9521
Tl 190.794	2.5056	ppb	1.2134	48.4	-15.0796
V 292.401	-0.1614	ppb	0.1522	94.3	-10.6199
Zn 206.200	6.1738	ppb	0.5988	9.7	9.6330

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-22-d (Samp) 5/1/2013, 8:24:38 PM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0977	-0.2120u	0.0980
Al 308.215	9.4131	4.7271	9.8114
As 188.980	-1.1372u	0.1867	0.1452
B 249.678	-11.1983u	-11.4549u	-12.9539u
Ba 389.178	31.4519	31.5648	26.8994
Be 313.042	-0.0180u	-0.0232u	0.0224
Ca 370.602	6804	6548	5775
Cd 226.502	0.0010	-0.1541u	-0.2712u
Co 228.615	-0.4007u	0.1287	-0.0510u
Cr 267.716	0.1948	0.2005	0.1298
Cu 324.754	0.9960	0.8678	0.1084
Fe 271.441	781.476	750.510	656.288
K 766.491	1569.39	1538.74	1285.49
Mg 279.078	2585.18	2476.36	2180.29
Mn 257.610	27.2648	26.2541	23.2511
Mo 202.032	-0.1517u	0.1537	-0.6697u
Na 330.237	6722.10	6529.50	5116.33
Ni 231.604	-0.2871u	0.1456	1.3040
Pb 220.353	0.4532	-1.4099u	-3.5512u
Sb 206.834	-6.2296u	-3.9759u	-4.5222u
Se 196.026	-1.1783u	3.8883	1.5438
Sn 189.925	0.8648	-2.6038u	2.3484
Sr 216.596	49.9462	48.3762	41.7981
Ti 334.941	0.0202	0.0397	0.0554
Tl 190.794	0.4119	3.8946	3.6688
V 292.401	-0.0112u	-0.2642u	0.2471
Zn 206.200	5.4279	4.9327	4.4567

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0054	ppb	0.1789	3296.8	-25.7557
Al 308.215	7.9838	ppb	2.8275	35.4	20.7723
As 188.980	-0.2684	ppb	0.7526	280.4	-9.9639
B 249.678	-11.8690	ppb	0.9483	8.0	176.895
Ba 389.178	29.9720	ppb	2.6616	8.9	732.074
Be 313.042	-0.0063	ppb	0.0249	396.7	-325.221
Ca 370.602	6375	ppb	535.8	8.4	21106
Cd 226.502	-0.1414	ppb	0.1366	96.5	28.3460
Co 228.615	-0.1077	ppb	0.2692	250.1	10.6742
Cr 267.716	0.1751	ppb	0.0393	22.4	19.3618
Cu 324.754	0.6574	ppb	0.4798	73.0	234.542
Fe 271.441	729.425	ppb	65.2033	8.9	1473.66
K 766.491	1464.54	ppb	155.819	10.6	58921.7
Mg 279.078	2413.94	ppb	209.534	8.7	5644.58
Mn 257.610	25.5900	ppb	2.0876	8.2	6930.40
Mo 202.032	-0.2226	ppb	0.4163	187.0	17.2597
Na 330.237	6122.64	ppb	876.799	14.3	393.235
Ni 231.604	0.3875	ppb	0.8227	212.3	-6.2044
Pb 220.353	-1.5026	ppb	2.0038	133.4	32.3892
Sb 206.834	-4.9092	ppb	1.1756	23.9	15.6540
Se 196.026	1.4179	ppb	2.5356	178.8	6.2389
Sn 189.925	0.2031	ppb	2.5415	1251.1	-11.6234
Sr 216.596	46.7068	ppb	4.3229	9.3	625.881
Ti 334.941	0.0384	ppb	0.0176	45.9	4.3292
Tl 190.794	2.6584	ppb	1.9488	73.3	-14.9166
V 292.401	-0.0094	ppb	0.2556	2715.6	-6.1086
Zn 206.200	4.9391	ppb	0.4856	3479.8	47.7001

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-23-d (Samp) 5/1/2013, 8:30:04 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2375u	-0.0715u	-0.0527u
Al 308.215	8.6788	5.9683	4.7576
As 188.980	-2.3202u	-5.8700u	-7.8319u
B 249.678	-10.8108u	-10.7818u	-10.7184u
Ba 389.178	32.4855	32.6739	32.4514
Be 313.042	-0.0034u	-0.0101u	-0.0096u
Ca 370.602	6662	6640	6668
Cd 226.502	-0.2288u	-0.2060u	-0.1075u
Co 228.615	-0.0471u	-0.1234u	-0.4016u
Cr 267.716	-0.1594u	0.2431	0.0692
Cu 324.754	-0.0211u	0.6355	0.2341
Fe 271.441	91.1114	99.0590	85.4465
K 766.491	1538.14	1537.01	1541.60
Mg 279.078	2602.07	2602.66	2611.15
Mn 257.610	22.1386	22.0065	22.1705
Mo 202.032	0.1942	0.2271	-0.1630u
Na 330.237	6574.05	6715.22	6683.06
Ni 231.604	0.3444	0.1406	1.0348
Pb 220.353	-1.6162u	2.6856	-1.3303u
Sb 206.834	-7.3988u	-6.1566u	1.7869
Se 196.026	-1.2538u	7.2079	5.6646
Sn 189.925	0.0848	-2.6099u	0.0382
Sr 216.596	50.9399	50.6855	50.8269
Ti 334.941	0.0280	0.0147	0.0543
Tl 190.794	0.3740	-0.1050u	1.0478
V 292.401	-0.5467u	-0.2906u	-0.0152u
Zn 206.200	5.6470	3.4007	4.5149

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1205	ppb	0.1017	84.4	-35.2386
Al 308.215	6.4682	ppb	2.0078	31.0	16.1795
As 188.980	-5.3407	ppb	2.7937	52.3	-13.6615
B 249.678	-10.7704	ppb	0.0473	0.4	192.270
Ba 389.178	32.5369	ppb	0.1198	0.4	794.044
Be 313.042	-0.0077	ppb	0.0038	49.0	-327.910
Ca 370.602	6657	ppb	14.77	0.2	22094
Cd 226.502	-0.1808	ppb	0.0644	35.7	24.5495
Co 228.615	-0.1907	ppb	0.1866	97.8	9.5788
Cr 267.716	0.0510	ppb	0.2019	396.2	12.6183
Cu 324.754	0.2828	ppb	0.3310	117.0	213.007
Fe 271.441	91.8723	ppb	6.8380	7.4	277.985
K 766.491	1538.92	ppb	2.3919	0.2	61897.8
Mg 279.078	2605.30	ppb	5.0814	0.2	6089.27
Mn 257.610	22.1052	ppb	0.0870	0.4	5997.64
Mo 202.032	0.0861	ppb	0.2163	251.3	19.8212
Na 330.237	6657.44	ppb	73.9910	1.1	421.774
Ni 231.604	0.5066	ppb	0.4687	92.5	-5.8526
Pb 220.353	-0.0869	ppb	2.4053	2766.5	35.3477
Sb 206.834	-3.9228	ppb	4.9837	127.0	16.6969
Se 196.026	3.8729	ppb	4.5064	116.4	7.4539
Sn 189.925	-0.8290	ppb	1.5425	186.1	-12.6775
Sr 216.596	50.8175	ppb	0.1275	0.3	678.546
Ti 334.941	0.0323	ppb	0.0201	62.2	3.2467
Tl 190.794	0.4389	ppb	0.5792	131.9	-17.3737
V 292.401	-0.2842	ppb	0.2658	93.5	-14.2718
Zn 206.200	4.5209	ppb	1.1232	24.8	6.9540

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-24-d (Samp) 5/1/2013, 8:35:29 PM Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1054u	-0.3354u	-0.0597u
Al 308.215	6.2888	3.4466	6.7594
As 188.980	-7.0491u	-3.8455u	-5.8847u
B 249.678	-10.5812u	-11.6411u	-11.2084u
Ba 389.178	30.3660	29.9526	29.3423
Be 313.042	-0.0137u	-0.0064u	-0.0188u
Ca 370.602	6372	6330	6326
Cd 226.502	-0.0108u	-0.2212u	-0.0392u
Co 228.615	-0.2614u	-0.2690u	-0.2472u
Cr 267.716	0.1080	0.0203	0.0953
Cu 324.754	0.4167	0.4207	0.0429
Fe 271.441	55.0667	53.7802	55.8053
K 766.491	1487.13	1474.62	1471.58
Mg 279.078	2526.28	2508.93	2505.65
Mn 257.610	1.1945	1.2195	1.2152
Mo 202.032	0.5809	-0.1576u	-0.1313u
Na 330.237	5922.42	5784.82	5683.49
Ni 231.604	0.7974	0.5694	0.5758
Pb 220.353	0.6282	-1.5880u	-2.1682u
Sb 206.834	-3.9370u	-0.5819u	-3.2583u
Se 196.026	5.4620	1.0036	0.6129
Sn 189.925	-0.9045u	-0.1881u	-1.6725u
Sr 216.596	47.8741	47.1814	47.1686
Ti 334.941	-0.0245	0.0162	-0.0723u
Tl 190.794	-2.2488u	-0.5035u	-1.9484u
V 292.401	-0.1758u	-0.1895u	-0.1812u
Zn 206.200	1.1263	2.3513	2.3217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1668	ppb	0.1477	88.6	-38.9219
Al 308.215	5.4983	ppb	1.7923	32.6	13.2288
As 188.980	-5.5931	ppb	1.6216	29.0	-13.8487
B 249.678	-11.1436	ppb	0.5329	4.8	187.380
Ba 389.178	29.8870	ppb	0.5150	1.7	729.281
Be 313.042	-0.0129	ppb	0.0063	48.4	-338.028
Ca 370.602	6343	ppb	25.60	0.4	21054
Cd 226.502	-0.0904	ppb	0.1141	126.2	28.0997
Co 228.615	-0.2592	ppb	0.0111	4.3	8.6602
Cr 267.716	0.0745	ppb	0.0474	63.5	13.7409
Cu 324.754	0.2934	ppb	0.2170	73.9	213.598
Fe 271.441	54.8841	ppb	1.0248	1.9	208.603
K 766.491	1477.78	ppb	8.2373	0.6	59451.4
Mg 279.078	2513.62	ppb	11.0881	0.4	5876.56
Mn 257.610	1.2097	ppb	0.0134	1.1	408.217
Mo 202.032	0.0973	ppb	0.4190	430.5	19.9150
Na 330.237	5796.91	ppb	119.923	2.1	376.206
Ni 231.604	0.6476	ppb	0.1298	20.0	-5.4188
Pb 220.353	-1.0427	ppb	1.4758	141.5	33.3440
Sb 206.834	-2.5924	ppb	1.7739	68.4	18.1312
Se 196.026	2.3595	ppb	2.6940	114.2	6.6966
Sn 189.925	-0.9217	ppb	0.7424	80.5	-12.7727
Sr 216.596	47.4081	ppb	0.4037	0.9	634.569
Ti 334.941	-0.0269	ppb	0.0443	164.6	-15.9194
Tl 190.794	-1.5669	ppb	0.9331	59.5	-19.5959
V 292.401	-0.1822	ppb	0.0069	3.8	-11.2468
Zn 206.200	1.9331	ppb	0.6989	36.2	436.7708

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-25-d (Samp) 5/1/2013, 8:40:56 PM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0232u	-0.3791u	-0.0398u
Al 308.215	2.0193	4.7411	4.7127
As 188.980	-2.9757u	-6.4458u	-1.6626u
B 249.678	-7.9220u	-7.8342u	-7.4550u
Ba 389.178	34.4836	34.5686	34.5809
Be 313.042	-0.0430u	-0.0384u	-0.0405u
Ca 370.602	8945	8981	8976
Cd 226.502	-0.1214u	-0.2215u	0.0685
Co 228.615	-0.7782u	-0.0766u	-0.2769u
Cr 267.716	0.0919	0.3206	0.0765
Cu 324.754	0.3058	1.0516	0.9981
Fe 271.441	167.296	167.262	169.061
K 766.491	2035.42	2029.26	2023.23
Mg 279.078	3290.42	3304.50	3307.84
Mn 257.610	0.4389	0.4121	0.4024
Mo 202.032	-0.1568u	-0.8340u	-0.6156u
Na 330.237	9652.38	9752.83	9625.32
Ni 231.604	1.4644	-0.6820u	2.0974
Pb 220.353	-1.1880u	-1.5559u	-1.1738u
Sb 206.834	-5.8540u	-7.5509u	-3.4907u
Se 196.026	-2.1621u	8.9362	1.7038
Sn 189.925	0.3810	1.4368	-0.5079u
Sr 216.596	57.3424	57.2432	57.1304
Ti 334.941	0.0221	-0.0848u	-0.0010
Tl 190.794	-0.2308u	0.3401	0.9762
V 292.401	0.3189	0.0462	0.1652
Zn 206.200	6.4480	7.9376	5.3210

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1319	ppb	0.2164	164.1	-36.6201
Al 308.215	3.8244	ppb	1.5633	40.9	8.0926
As 188.980	-3.6947	ppb	2.4713	66.9	-12.4353
B 249.678	-7.7371	ppb	0.2482	3.2	232.295
Ba 389.178	34.5444	ppb	0.0530	0.2	844.904
Be 313.042	-0.0406	ppb	0.0023	5.6	-390.865
Ca 370.602	8967	ppb	19.27	0.2	29752
Cd 226.502	-0.0915	ppb	0.1473	161.0	28.4304
Co 228.615	-0.3773	ppb	0.3614	95.8	7.0958
Cr 267.716	0.1630	ppb	0.1367	83.9	18.5213
Cu 324.754	0.7852	ppb	0.4160	53.0	241.610
Fe 271.441	167.873	ppb	1.0287	0.6	420.488
K 766.491	2029.30	ppb	6.0974	0.3	81520.5
Mg 279.078	3300.92	ppb	9.2433	0.3	7706.45
Mn 257.610	0.4178	ppb	0.0189	4.5	202.086
Mo 202.032	-0.5355	ppb	0.3456	64.5	14.7317
Na 330.237	9676.85	ppb	67.1821	0.7	581.733
Ni 231.604	0.9599	ppb	1.4568	151.8	-4.4528
Pb 220.353	-1.3059	ppb	0.2166	16.6	32.7946
Sb 206.834	-5.6318	ppb	2.0392	36.2	14.8663
Se 196.026	2.8260	ppb	5.6336	199.3	6.9289
Sn 189.925	0.4366	ppb	0.9735	223.0	-11.3820
Sr 216.596	57.2387	ppb	0.1061	0.2	761.593
Ti 334.941	-0.0212	ppb	0.0562	265.3	-10.3970
Tl 190.794	0.3618	ppb	0.6038	166.9	-17.4287
V 292.401	0.1768	ppb	0.1367	77.3	-0.5201
Zn 206.200	6.5689	ppb	1.3125	20.0	416.2695



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/1/2013, 8:46:22 PM Rack 2, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.098	496.629	503.551
Al 308.215	4810.42	4792.72	4861.04
As 188.980	484.999	492.778	496.028
B 249.678	486.685	491.811	496.290
Ba 389.178	5027.14	5027.64	5048.73
Be 313.042	511.261	511.041	512.329
Ca 370.602	4952	4945	4979
Cd 226.502	515.030	516.307	518.143
Co 228.615	518.382	520.614	520.429
Cr 267.716	5124.14	5130.30	5147.95
Cu 324.754	5050.54	4988.74	5175.54
Fe 271.441	4929.95	4916.73	4947.70
K 766.491	10065.6	10061.6	10054.2
Mg 279.078	4925.76	4920.91	4949.64
Mn 257.610	5221.52	5235.00	5230.52
Mo 202.032	494.268	495.141	498.386
Na 330.237	7274.90	6947.43	7163.91
Ni 231.604	2574.18	2572.15	2586.12
Pb 220.353	487.555	491.051	488.949
Sb 206.834	940.227	947.224	947.882
Se 196.026	4874.39	4923.77	4903.42
Sn 189.925	4921.81	4955.29	4993.55
Sr 216.596	2491.56	2498.94	2511.04
Ti 334.941	489.558	489.365	490.799
Tl 190.794	4940.45	4969.92	4969.63
V 292.401	4915.95	4918.39	4928.79
Zn 206.200	2566.18	2587.85	2597.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.426	ppb	4.5039	0.9	40093.3	99.68520
Al 308.215	4821.39	ppb	35.4563	0.7	14643.5	96.42786
As 188.980	491.268	ppb	5.6671	1.2	349.157	98.25367
B 249.678	491.596	ppb	4.8065	1.0	6831.16	19.66382Q
Ba 389.178	5034.50	ppb	12.3225	0.2	122495	100.69002
Be 313.042	511.543	ppb	0.6889	0.1	985311	102.30865
Ca 370.602	4959	ppb	18.07	0.4	16339	99.17876
Cd 226.502	516.493	ppb	1.5647	0.3	21032.9	103.29866
Co 228.615	519.808	ppb	1.2385	0.2	6997.07	103.96169
Cr 267.716	5134.13	ppb	12.3571	0.2	271909	102.68262
Cu 324.754	5071.61	ppb	95.1667	1.9	288931	101.43212
Fe 271.441	4931.46	ppb	15.5439	0.3	9493.21	98.62920
K 766.491	10060.5	ppb	5.7790	0.1	402886	100.60509
Mg 279.078	4932.10	ppb	15.3782	0.3	11404.7	98.64202
Mn 257.610	5229.02	ppb	6.8657	0.1	1398669	104.58033
Mo 202.032	495.932	ppb	2.1700	0.4	4064.82	99.18637
Na 330.237	7128.75	ppb	166.539	2.3	421.541	95.04994
Ni 231.604	2577.48	ppb	7.5468	0.3	7941.16	103.09926
Pb 220.353	489.185	ppb	1.7599	0.4	1058.26	97.83698
Sb 206.834	945.111	ppb	4.2422	0.4	1092.67	94.51109
Se 196.026	4900.53	ppb	24.8186	0.5	2441.52	98.01057
Sn 189.925	4956.88	ppb	35.8965	0.7	5052.19	99.13765
Sr 216.596	2500.51	ppb	9.8343	0.4	32160.1	100.02039
Ti 334.941	489.908	ppb	0.7781	0.2	155278	97.98151
Tl 190.794	4960.00	ppb	16.9332	0.3	5561.57	99.19995
V 292.401	4921.05	ppb	6.8183	0.1	145203	98.42091
Zn 206.200	2583.86	ppb	16.0595	0.6	4156.72	103.35435

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB) 5/1/2013, 8:51:47 PM Rack 2, Tube 50

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1370u	-0.1508u	0.2997
Al 308.215	0.9009	-0.2409u	-0.2517u
As 188.980	-6.7476u	-4.2259u	-5.0996u
B 249.678	-8.5878u	-8.9886u	-9.3500u
Ba 389.178	-0.2805u	0.7281	0.8487
Be 313.042	-0.0310u	-0.0340u	-0.0317u
Ca 370.602	-1.014u	3.192	0.9709
Cd 226.502	0.0273	-0.0259u	0.0520
Co 228.615	-0.2996u	-0.8087u	-0.2812u
Cr 267.716	-0.0601u	-0.0851u	0.1491
Cu 324.754	0.1189	0.1879	-0.3268u
Fe 271.441	2.7108	-0.9910u	-3.5811u
K 766.491	-0.3853u	-0.4430u	-0.7279u
Mg 279.078	1.5518	1.6278	3.1273
Mn 257.610	0.0341	-0.0213u	0.0707
Mo 202.032	0.0121	-0.2885u	-0.0921u
Na 330.237	-134.998u	-239.815u	21.3438
Ni 231.604	-0.1459u	1.0526	1.0123
Pb 220.353	0.9665	-0.8879u	-1.3290u
Sb 206.834	-3.5663u	1.2404	0.7856
Se 196.026	3.2569	-1.9133u	9.5722
Sn 189.925	-0.1345u	1.7036	-0.6801u
Sr 216.596	-0.3088u	-0.4281u	-0.3569u
Ti 334.941	-0.0715u	-0.0593u	-0.0026u
Tl 190.794	3.7654	0.6337	-0.6454u
V 292.401	-0.1857u	0.0037	0.2015
Zn 206.200	1.0454	-1.2398u	-0.6233u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0040	ppb	0.2562	6461.9	-22.8044	0.00397
Al 308.215	0.1361	ppb	0.6624	486.7	-3.0877	0.13610
As 188.980	-5.3577	ppb	1.2805	23.9	-13.7400	-5.35770
B 249.678	-8.9755	ppb	0.3812	4.2	216.128	-8.97545
Ba 389.178	0.4321	ppb	0.6201	143.5	5.8163	0.43211
Be 313.042	-0.0322	ppb	0.0016	4.9	-376.627	-0.03225
Ca 370.602	1.050	ppb	2.104	200.5	16.04	1.04953
Cd 226.502	0.0178	ppb	0.0398	223.8	32.3091	0.01780
Co 228.615	-0.4631	ppb	0.2994	64.6	5.9280	-0.46313
Cr 267.716	0.0013	ppb	0.1286	9836.9	9.7269	0.00131
Cu 324.754	-0.0067	ppb	0.2794	4190.9	196.485	-0.00667
Fe 271.441	-0.6204	ppb	3.1622	509.7	104.477	-0.62044
K 766.491	-0.5187	ppb	0.1834	35.4	298.060	-0.51875
Mg 279.078	2.1023	ppb	0.8885	42.3	39.2379	2.10229
Mn 257.610	0.0278	ppb	0.0463	166.3	74.9572	0.02783
Mo 202.032	-0.1228	ppb	0.1526	124.3	18.1169	-0.12282
Na 330.237	-117.823	ppb	131.424	111.5	62.8174	-117.82320
Ni 231.604	0.6397	ppb	0.6806	106.4	-5.4445	0.63966
Pb 220.353	-0.4168	ppb	1.2181	292.3	34.6526	-0.41680
Sb 206.834	-0.5134	ppb	2.6536	516.9	20.3739	-0.51340
Se 196.026	3.6386	ppb	5.7522	158.1	7.3315	3.63861
Sn 189.925	0.2964	ppb	1.2489	421.4	-11.5341	0.29636
Sr 216.596	-0.3646	ppb	0.0600	16.5	18.4406	-0.36462
Ti 334.941	-0.0445	ppb	0.0368	82.7	-33.8198	-0.04447
Tl 190.794	1.2512	ppb	2.2693	181.4	-16.4171	1.25124
V 292.401	0.0065	ppb	0.1936	2978.8	-5.6070	0.00650
Zn 206.200	-0.2726	ppb	1.1823	433.8	0.07970	-0.27256

680-89634-f-26-d (Samp) 5/1/2013, 8:57:13 PM Rack 2, Tube 51

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3627u	0.1053	-0.4001u
Al 308.215	2.1098	5.9565	2.6570
As 188.980	-2.6258u	-4.8337u	-0.5306u
B 249.678	-7.0121u	-6.9444u	-7.2600u
Ba 389.178	31.4014	31.3900	31.2478
Be 313.042	-0.0307u	-0.0368u	-0.0352u
Ca 370.602	8206	8194	8182
Cd 226.502	-0.3293u	-0.2140u	-0.1307u
Co 228.615	0.4410	-0.3560u	-0.2290u
Cr 267.716	0.0656	0.2218	0.2157
Cu 324.754	1.2057	0.6208	0.6935
Fe 271.441	124.032	121.311	113.223
K 766.491	1802.06	1798.45	1800.45
Mg 279.078	3187.47	3164.80	3160.77
Mn 257.610	0.2637	0.2531	0.2918
Mo 202.032	0.0083	-0.3170u	-0.3836u
Na 330.237	7896.11	7917.39	7791.57
Ni 231.604	0.4450	1.1702	1.8319
Pb 220.353	-1.0246u	-1.3778u	-2.0015u
Sb 206.834	-4.1798u	-4.7117u	-0.8191u
Se 196.026	-5.1100u	0.6542	5.0247
Sn 189.925	0.6515	-1.2833u	-0.7412u
Sr 216.596	52.6725	52.7507	53.0627
Ti 334.941	0.0010	-0.0136	-0.0212
Tl 190.794	-2.8613u	3.8045	0.0871
V 292.401	0.0166	0.2172	0.1380
Zn 206.200	8.3137	6.2393	6.9239

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2192	ppb	0.2816	128.5	-43.4238
Al 308.215	3.5744	ppb	2.0810	58.2	7.3632
As 188.980	-2.6634	ppb	2.1518	80.8	-11.6888
B 249.678	-7.0722	ppb	0.1661	2.3	241.153
Ba 389.178	31.3464	ppb	0.0856	0.3	766.683
Be 313.042	-0.0342	ppb	0.0031	9.1	-378.642
Ca 370.602	8194	ppb	12.34	0.2	27191
Cd 226.502	-0.2247	ppb	0.0997	44.4	22.8629
Co 228.615	-0.0480	ppb	0.4282	892.2	11.4995
Cr 267.716	0.1677	ppb	0.0885	52.8	18.7239
Cu 324.754	0.8400	ppb	0.3188	38.0	244.730
Fe 271.441	119.522	ppb	5.6220	4.7	329.863
K 766.491	1800.32	ppb	1.8061	0.1	72357.9
Mg 279.078	3171.01	ppb	14.3967	0.5	7404.51
Mn 257.610	0.2695	ppb	0.0200	7.4	161.394
Mo 202.032	-0.2308	ppb	0.2097	90.9	17.2271
Na 330.237	7868.36	ppb	67.3442	0.9	485.911
Ni 231.604	1.1490	ppb	0.6937	60.4	-3.8708
Pb 220.353	-1.4680	ppb	0.4947	33.7	32.4548
Sb 206.834	-3.2369	ppb	2.1107	65.2	17.4415
Se 196.026	0.1896	ppb	5.0833	2680.5	5.6188
Sn 189.925	-0.4577	ppb	0.9981	218.1	-12.2968
Sr 216.596	52.8286	ppb	0.2065	0.4	704.659
Ti 334.941	-0.0113	ppb	0.0113	100.4	-7.7730
Tl 190.794	0.3434	ppb	3.3403	972.6	-17.4465
V 292.401	0.1239	ppb	0.1010	81.5	-2.1608
Zn 206.200	7.1590	ppb	1.0570	14.8	41.2171

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-f-27-d (Samp) 5/1/2013, 9:02:38 PM Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1212u	-0.1418u	0.2570
Al 308.215	2.4163	2.6587	2.7327
As 188.980	-3.7990u	-7.2432u	-5.3109u
B 249.678	-8.5019u	-8.6491u	-8.8054u
Ba 389.178	35.7631	35.5921	35.5767
Be 313.042	-0.0381u	-0.0279u	-0.0348u
Ca 370.602	8944	8977	8972
Cd 226.502	0.1304	-0.0182u	0.1264
Co 228.615	-0.2507u	-0.2224u	-0.5257u
Cr 267.716	0.2057	0.1919	-0.0099u
Cu 324.754	0.9254	0.9754	0.7712
Fe 271.441	70.6025	69.7958	70.5735
K 766.491	1723.38	1756.10	1752.15
Mg 279.078	3397.74	3408.81	3404.72
Mn 257.610	0.7550	0.7983	0.8072
Mo 202.032	-0.3228u	-0.1097u	-0.2828u
Na 330.237	8065.24	8123.85	8180.79
Ni 231.604	0.4125	0.5098	-0.5148u
Pb 220.353	-0.2578u	-2.6774u	0.9368
Sb 206.834	-6.3500u	-5.3142u	-3.5277u
Se 196.026	8.5321	13.8354	-0.4683u
Sn 189.925	-2.2132u	0.9846	-0.8725u
Sr 216.596	60.3483	60.6491	59.9127
Ti 334.941	0.0330	-0.0337	-0.0289
Tl 190.794	0.5677	1.9498	0.4591
V 292.401	-0.0479u	0.0858	0.3013
Zn 206.200	8.2224	8.8789	9.2349

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0020	ppb	0.2245	11062.9	-26.2637
Al 308.215	2.6026	ppb	0.1655	6.4	4.4142
As 188.980	-5.4510	ppb	1.7264	31.7	-13.7185
B 249.678	-8.6521	ppb	0.1518	1.8	220.318
Ba 389.178	35.6439	ppb	0.1035	0.3	871.787
Be 313.042	-0.0336	ppb	0.0052	15.5	-377.142
Ca 370.602	8964	ppb	18.24	0.2	29752
Cd 226.502	0.0795	ppb	0.0847	106.5	35.0529
Co 228.615	-0.3329	ppb	0.1676	50.3	7.6750
Cr 267.716	0.1292	ppb	0.1207	93.4	16.6781
Cu 324.754	0.8907	ppb	0.1064	12.0	247.604
Fe 271.441	70.3239	ppb	0.4576	0.7	237.551
K 766.491	1743.88	ppb	17.8621	1.0	70099.2
Mg 279.078	3403.76	ppb	5.6001	0.2	7945.44
Mn 257.610	0.7868	ppb	0.0279	3.5	301.172
Mo 202.032	-0.2384	ppb	0.1132	47.5	17.1670
Na 330.237	8123.29	ppb	57.7772	0.7	499.423
Ni 231.604	0.1359	ppb	0.5655	416.3	-6.9964
Pb 220.353	-0.6661	ppb	1.8414	276.4	34.1313
Sb 206.834	-5.0640	ppb	1.4277	28.2	15.4684
Se 196.026	7.2997	ppb	7.2311	99.1	9.1510
Sn 189.925	-0.7004	ppb	1.6058	229.3	-12.5442
Sr 216.596	60.3034	ppb	0.3703	0.6	801.020
Ti 334.941	-0.0099	ppb	0.0372	377.5	-6.1639
Tl 190.794	0.9922	ppb	0.8311	83.8	-16.7141
V 292.401	0.1131	ppb	0.1762	155.8	-2.4960
Zn 206.200	8.7787	ppb	0.5136	5.8	13.8275

680-89678-e-6-d (Samp) 5/1/2013, 9:08:04 PM Rack 2, Tube 53

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0143u	-0.2533u	-0.1145u
Al 308.215	5.9938	7.6270	5.6159
As 188.980	-1.0025u	-6.9214u	-6.5401u
B 249.678	-4.0823u	-3.0645u	-3.6731u
Ba 389.178	23.6447	24.3745	24.7823
Be 313.042	-0.0357u	-0.0515u	-0.0430u
Ca 370.602	9789	9842	9855
Cd 226.502	0.0352	-0.1180u	0.0510
Co 228.615	0.2471	-0.2360u	-0.2224u
Cr 267.716	0.0392	0.1654	0.0753
Cu 324.754	0.7262	0.9580	1.1370
Fe 271.441	559.746	569.100	570.229
K 766.491	1440.38	1448.61	1450.13
Mg 279.078	4305.09	4320.53	4319.30
Mn 257.610	97.5091	97.7184	97.9102
Mo 202.032	-0.0290u	0.0508	-0.3170u
Na 330.237	7255.74	7122.85	7113.36
Ni 231.604	2.1921	1.9708	3.7235
Pb 220.353	-1.4721u	-0.7174u	1.4829
Sb 206.834	-9.5313u	-6.3272u	-3.9908u
Se 196.026	-6.1343u	-6.3947u	2.2084
Sn 189.925	-0.4642u	-1.1662u	-1.0881u
Sr 216.596	57.6384	57.9653	58.0726
Ti 334.941	0.1364	0.1249	0.0543
Tl 190.794	-2.6311u	-0.1083u	0.9143
V 292.401	-0.0437u	-0.0884u	0.0174
Zn 206.200	41.2306	42.1834	42.5228

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1274	ppb	0.1200	94.2	-35.8054
Al 308.215	6.4122	ppb	1.0689	16.7	15.9972
As 188.980	-4.8213	ppb	3.3127	68.7	-13.2555
B 249.678	-3.6066	ppb	0.5122	14.2	286.406
Ba 389.178	24.2671	ppb	0.5764	2.4	598.275
Be 313.042	-0.0434	ppb	0.0079	18.2	-395.734
Ca 370.602	9829	ppb	35.09	0.4	32580
Cd 226.502	-0.0106	ppb	0.0933	880.3	33.1205
Co 228.615	-0.0704	ppb	0.2750	390.5	11.1821
Cr 267.716	0.0933	ppb	0.0650	69.6	15.3515
Cu 324.754	0.9404	ppb	0.2059	21.9	250.602
Fe 271.441	566.358	ppb	5.7542	1.0	1167.85
K 766.491	1446.37	ppb	5.2469	0.4	58194.8
Mg 279.078	4314.97	ppb	8.5815	0.2	10061.7
Mn 257.610	97.7125	ppb	0.2006	0.2	26232.6
Mo 202.032	-0.0984	ppb	0.1935	196.6	18.2846
Na 330.237	7163.98	ppb	79.6026	1.1	448.183
Ni 231.604	2.6288	ppb	0.9545	36.3	0.7034
Pb 220.353	-0.2355	ppb	1.5353	651.9	35.0577
Sb 206.834	-6.6164	ppb	2.7816	42.0	13.8063
Se 196.026	-3.4402	ppb	4.8935	142.2	3.8422
Sn 189.925	-0.9062	ppb	0.3847	42.5	-12.7545
Sr 216.596	57.8921	ppb	0.2261	0.4	770.269
Ti 334.941	0.1052	ppb	0.0444	42.3	35.0839
Tl 190.794	-0.6083	ppb	1.8249	300.0	-18.7051
V 292.401	-0.0383	ppb	0.0531	138.8	-6.9475
Zn 206.200	41.9790	ppb	0.6699	1.6	674.993

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-e-7-d (Samp) 5/1/2013, 9:13:29 PM Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1812	-0.3456u	0.2338
Al 308.215	10.7541	11.1927	7.2718
As 188.980	-3.0394u	-2.4096u	-6.4735u
B 249.678	-4.1738u	-4.6302u	-4.1419u
Ba 389.178	25.3640	24.9159	25.5497
Be 313.042	-0.0492u	-0.0434u	-0.0481u
Ca 370.602	9794	9864	9819
Cd 226.502	-0.0478	0.0715	-0.1696u
Co 228.615	0.3128	-0.5279u	-0.1467u
Cr 267.716	0.1491	0.0471	0.0930
Cu 324.754	1.6038	1.0828	1.0585
Fe 271.441	629.340	637.128	635.255
K 766.491	1435.72	1440.81	1438.92
Mg 279.078	4282.81	4318.15	4301.24
Mn 257.610	191.480	192.483	191.713
Mo 202.032	0.2515	-0.5309u	-0.0227u
Na 330.237	7057.23	7013.72	7123.88
Ni 231.604	1.5958	2.2068	2.3843
Pb 220.353	-1.7090u	-1.2780u	-1.3850u
Sb 206.834	-5.1948u	-6.0153u	-1.8288u
Se 196.026	-0.9600u	-9.2725u	-1.7786u
Sn 189.925	1.9323	-0.1852u	-1.3190u
Sr 216.596	57.6730	58.3718	58.0944
Ti 334.941	0.1245	0.1281	0.1419
Tl 190.794	0.8047	0.4961	3.3554
V 292.401	-0.1202u	0.2519	-0.0194u
Zn 206.200	54.3686	55.5917	53.2315

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0231	ppb	0.3204	1387.2	-23.2374
Al 308.215	9.7395	ppb	2.1484	22.1	26.1161
As 188.980	-3.9742	ppb	2.1873	55.0	-12.6370
B 249.678	-4.3153	ppb	0.2732	6.3	276.942
Ba 389.178	25.2765	ppb	0.3258	1.3	622.890
Be 313.042	-0.0469	ppb	0.0031	6.5	-402.510
Ca 370.602	9826	ppb	35.74	0.4	32568
Cd 226.502	-0.0486	ppb	0.1206	247.9	31.8076
Co 228.615	-0.1206	ppb	0.4209	349.0	10.5042
Cr 267.716	0.0964	ppb	0.0511	53.0	15.9776
Cu 324.754	1.2484	ppb	0.3081	24.7	268.161
Fe 271.441	633.907	ppb	4.0647	0.6	1294.53
K 766.491	1438.48	ppb	2.5704	0.2	57879.1
Mg 279.078	4300.73	ppb	17.6756	0.4	10026.9
Mn 257.610	191.892	ppb	0.5250	0.3	51421.9
Mo 202.032	-0.1007	ppb	0.3970	394.2	18.2619
Na 330.237	7064.94	ppb	55.4858	0.8	442.814
Ni 231.604	2.0623	ppb	0.4137	20.1	-1.0420
Pb 220.353	-1.4573	ppb	0.2244	15.4	32.5289
Sb 206.834	-4.3463	ppb	2.2185	51.0	16.2555
Se 196.026	-4.0037	ppb	4.5812	114.4	3.5860
Sn 189.925	0.1427	ppb	1.6503	1156.1	-11.6829
Sr 216.596	58.0464	ppb	0.3518	0.6	772.281
Ti 334.941	0.1315	ppb	0.0092	7.0	43.3566
Tl 190.794	1.5521	ppb	1.5694	101.1	-16.4315
V 292.401	0.0374	ppb	0.1925	514.1	-4.7176
Zn 206.200	54.3972	ppb	1.1804	2.2	87.5615

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-e-9-d (Samp) 5/1/2013, 9:18:55 PM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3599u	-0.2467u	-0.4482u
Al 308.215	42.8884	50.6740	50.2310
As 188.980	0.9179	-6.9171u	-0.2201u
B 249.678	-9.3315u	-9.5673u	-9.0975u
Ba 389.178	18.7469	18.9372	19.1310
Be 313.042	-0.0300u	-0.0309u	-0.0300u
Ca 370.602	3465	3503	3473
Cd 226.502	-0.0923u	0.0115	0.0371
Co 228.615	-0.1527u	-0.2087u	-0.6155u
Cr 267.716	0.6506	0.5932	0.6523
Cu 324.754	1.1557	1.4540	1.3909
Fe 271.441	348.500	360.133	354.071
K 766.491	1460.13	1467.23	1460.06
Mg 279.078	2687.00	2711.47	2683.00
Mn 257.610	1.5964	1.6529	1.6016
Mo 202.032	-0.1647u	-0.3231u	-0.6955u
Na 330.237	4209.50	4210.71	4194.65
Ni 231.604	0.8372	0.8515	1.0941
Pb 220.353	1.5628	-1.8921u	-0.5934u
Sb 206.834	-1.2005u	-0.8504u	-7.1497u
Se 196.026	-1.8648u	2.4154	6.3537
Sn 189.925	-0.7751u	-0.6155u	1.1281
Sr 216.596	23.1566	24.3590	23.3495
Ti 334.941	1.4029	1.4000	1.4599
Tl 190.794	0.3616	0.1927	4.1482
V 292.401	0.2655	0.3125	0.0562
Zn 206.200	2.2708	1.4719	2.6308

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3516	ppb	0.1010	28.7	-52.6648
Al 308.215	47.9311	ppb	4.3728	9.1	142.214
As 188.980	-2.0731	ppb	4.2334	204.2	-11.3078
B 249.678	-9.3321	ppb	0.2349	2.5	210.950
Ba 389.178	18.9384	ppb	0.1920	1.0	463.895
Be 313.042	-0.0303	ppb	0.0005	1.7	-372.304
Ca 370.602	3481	ppb	19.92	0.6	11532
Cd 226.502	-0.0146	ppb	0.0685	470.6	32.2191
Co 228.615	-0.3257	ppb	0.2526	77.6	7.8139
Cr 267.716	0.6321	ppb	0.0336	5.3	43.3161
Cu 324.754	1.3336	ppb	0.1572	11.8	272.908
Fe 271.441	354.235	ppb	5.8182	1.6	769.998
K 766.491	1462.47	ppb	4.1210	0.3	58839.0
Mg 279.078	2693.82	ppb	15.4153	0.6	6295.42
Mn 257.610	1.6170	ppb	0.0312	1.9	519.264
Mo 202.032	-0.3944	ppb	0.2725	69.1	15.8750
Na 330.237	4204.95	ppb	8.9409	0.2	291.743
Ni 231.604	0.9276	ppb	0.1444	15.6	-4.5480
Pb 220.353	-0.3076	ppb	1.7451	567.4	34.8804
Sb 206.834	-3.0669	ppb	3.5402	115.4	17.6374
Se 196.026	2.3014	ppb	4.1105	178.6	6.6696
Sn 189.925	-0.0875	ppb	1.0558	1206.8	-11.9226
Sr 216.596	23.6217	ppb	0.6457	2.7	327.990
Ti 334.941	1.4210	ppb	0.0338	2.4	444.077
Tl 190.794	1.5675	ppb	2.2365	142.7	-16.0838
V 292.401	0.2114	ppb	0.1364	64.5	0.4701
Zn 206.200	2.1245	ppb	0.5932	27.9	3.1113

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-e-10-d (Samp) 5/1/2013, 9:24:20 PM Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1162u	-0.2135u	-0.3940u
Al 308.215	335.299	336.317	342.736
As 188.980	-4.2613u	-7.0560u	-2.7647u
B 249.678	-10.1920u	-10.1312u	-10.4461u
Ba 389.178	16.8065	16.6334	17.9215
Be 313.042	-0.0225u	-0.0258u	-0.0198u
Ca 370.602	2763	2770	2780
Cd 226.502	-0.0936u	-0.0890u	0.0502
Co 228.615	0.0183	-0.3296u	0.0738
Cr 267.716	0.8413	0.6775	0.7083
Cu 324.754	2.2481	2.2130	1.7014
Fe 271.441	500.180	494.140	494.541
K 766.491	1449.57	1444.67	1449.68
Mg 279.078	2207.96	2202.99	2214.74
Mn 257.610	1.8427	1.8105	1.8508
Mo 202.032	0.1052	-0.2797u	-0.0513u
Na 330.237	3598.68	3522.52	3519.93
Ni 231.604	1.9325	1.9059	1.4327
Pb 220.353	0.0983	-2.3830u	0.0298
Sb 206.834	-1.5317u	-2.1414u	-2.1011u
Se 196.026	-3.0960u	5.5674	-5.4225u
Sn 189.925	-0.3911u	-2.3981u	0.2053
Sr 216.596	18.3813	18.6747	18.4541
Ti 334.941	8.7441	8.8053	8.7374
Tl 190.794	-0.2776u	-0.4227u	-0.9005u
V 292.401	0.8708	1.2668	1.1069
Zn 206.200	3.7826	4.2798	4.4897

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2412	ppb	0.1410	58.4	-43.5080
Al 308.215	338.117	ppb	4.0322	1.2	1024.48
As 188.980	-4.6940	ppb	2.1782	46.4	-13.2327
B 249.678	-10.2564	ppb	0.1670	1.6	198.534
Ba 389.178	17.1205	ppb	0.6991	4.1	418.560
Be 313.042	-0.0227	ppb	0.0030	13.3	-357.847
Ca 370.602	2771	ppb	8.744	0.3	9166
Cd 226.502	-0.0441	ppb	0.0818	185.3	31.5088
Co 228.615	-0.0792	ppb	0.2186	276.2	11.3336
Cr 267.716	0.7424	ppb	0.0870	11.7	49.1949
Cu 324.754	2.0542	ppb	0.3060	14.9	313.980
Fe 271.441	496.287	ppb	3.3774	0.7	1036.45
K 766.491	1447.97	ppb	2.8597	0.2	58258.7
Mg 279.078	2208.56	ppb	5.9017	0.3	5167.51
Mn 257.610	1.8347	ppb	0.0213	1.2	574.673
Mo 202.032	-0.0753	ppb	0.1936	257.0	18.4753
Na 330.237	3547.05	ppb	44.7374	1.3	256.760
Ni 231.604	1.7571	ppb	0.2812	16.0	-1.9865
Pb 220.353	-0.7516	ppb	1.4132	188.0	33.9463
Sb 206.834	-1.9247	ppb	0.3409	17.7	18.8722
Se 196.026	-0.9837	ppb	5.7914	588.7	5.0384
Sn 189.925	-0.8613	ppb	1.3639	158.4	-12.7138
Sr 216.596	18.5034	ppb	0.1528	0.8	262.024
Ti 334.941	8.7623	ppb	0.0374	0.4	2768.45
Tl 190.794	-0.5336	ppb	0.3259	61.1	-18.4578
V 292.401	1.0815	ppb	0.1992	18.4	26.3158
Zn 206.200	4.1840	ppb	0.3632	8.7	64.529



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-e-16-h (Samp) 5/1/2013, 9:29:57 PM Rack 2, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1353u	-0.3000u	-0.0712u
Al 308.215	7.9777	10.1115	15.0654
As 188.980	-3.9442u	-2.9299u	-5.4685u
B 249.678	-11.4497u	-12.2414u	-12.2569u
Ba 389.178	32.2644	33.2372	31.4343
Be 313.042	-0.0137u	-0.0170u	-0.0186u
Ca 370.602	4594	4562	4600
Cd 226.502	0.0436	-0.2243u	-0.0294u
Co 228.615	0.4462	0.7202	0.2769
Cr 267.716	0.0070	0.1264	0.0626
Cu 324.754	0.0496	0.3402	0.1407
Fe 271.441	204.987	205.152	205.418
K 766.491	1404.49	1391.01	1398.65
Mg 279.078	1585.12	1571.83	1586.20
Mn 257.610	59.1474	58.6576	58.9197
Mo 202.032	-0.3959u	-0.5325u	-0.8826u
Na 330.237	4931.03	4862.75	4950.52
Ni 231.604	0.5949	0.6588	0.2592
Pb 220.353	1.8370	-4.4909u	0.9686
Sb 206.834	-3.0870u	-5.2987u	-0.3513u
Se 196.026	4.5948	5.0632	2.4965
Sn 189.925	-0.8163u	-1.6110u	-0.2257u
Sr 216.596	34.6096	34.0908	34.4877
Ti 334.941	0.2591	0.2217	0.2296
Tl 190.794	-1.5096u	0.2500	2.1784
V 292.401	0.0515	-0.1789u	-0.1972u
Zn 206.200	4.7406	5.1635	5.4911

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1688	ppb	0.1180	69.9	-38.1728
Al 308.215	11.0516	ppb	3.6362	32.9	30.0767
As 188.980	-4.1142	ppb	1.2778	31.1	-12.7868
B 249.678	-11.9827	ppb	0.4616	3.9	176.082
Ba 389.178	32.3120	ppb	0.9024	2.8	785.935
Be 313.042	-0.0164	ppb	0.0025	15.5	-345.161
Ca 370.602	4585	ppb	20.37	0.4	15211
Cd 226.502	-0.0700	ppb	0.1385	197.7	29.4370
Co 228.615	0.4811	ppb	0.2237	46.5	18.6136
Cr 267.716	0.0653	ppb	0.0597	91.4	13.5502
Cu 324.754	0.1768	ppb	0.1486	84.1	206.993
Fe 271.441	205.186	ppb	0.2178	0.1	490.605
K 766.491	1398.05	ppb	6.7609	0.5	56261.1
Mg 279.078	1581.05	ppb	8.0047	0.5	3708.06
Mn 257.610	58.9082	ppb	0.2451	0.4	15834.4
Mo 202.032	-0.6037	ppb	0.2510	41.6	14.1726
Na 330.237	4914.77	ppb	46.0876	0.9	329.390
Ni 231.604	0.5043	ppb	0.2147	42.6	-5.8569
Pb 220.353	-0.5618	ppb	3.4303	610.6	34.3654
Sb 206.834	-2.9123	ppb	2.4783	85.1	17.7972
Se 196.026	4.0515	ppb	1.3669	33.7	7.5525
Sn 189.925	-0.8844	ppb	0.6952	78.6	-12.7358
Sr 216.596	34.3960	ppb	0.2713	0.8	466.855
Ti 334.941	0.2368	ppb	0.0197	8.3	62.9979
Tl 190.794	0.3063	ppb	1.8447	602.3	-17.5896
V 292.401	-0.1082	ppb	0.1386	128.1	-8.9517
Zn 206.200	5.1318	ppb	0.3763	7.3	7.9532

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-e-17-d (Samp) 5/1/2013, 9:35:24 PM Rack 2, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4330u	-0.4415u	-0.5306u
Al 308.215	73.4695	71.1830	75.9088
As 188.980	-4.5839u	-3.1758u	-5.5519u
B 249.678	-12.2584u	-12.3831u	-11.8904u
Ba 389.178	32.0511	32.6783	32.1306
Be 313.042	-0.0232u	-0.0163u	-0.0135u
Ca 370.602	4458	4458	4449
Cd 226.502	-0.2212u	0.0401	-0.1629u
Co 228.615	-0.0416u	-0.5745u	-0.1592u
Cr 267.716	0.2944	0.4241	0.7301
Cu 324.754	0.3389	0.3216	0.5858
Fe 271.441	153.229	157.861	155.058
K 766.491	1202.92	1202.45	1193.97
Mg 279.078	1644.50	1648.83	1647.60
Mn 257.610	5.7047	5.6344	5.6099
Mo 202.032	2.8501	3.1755	2.7652
Na 330.237	6098.70	5964.69	6051.92
Ni 231.604	1.5533	2.3989	1.4602
Pb 220.353	-1.6853u	-0.8791u	-0.7262u
Sb 206.834	-5.6510u	-8.9186u	2.4066
Se 196.026	8.0578	5.8586	3.8365
Sn 189.925	0.7615	1.3958	-2.1358u
Sr 216.596	38.9992	39.8384	38.7356
Ti 334.941	1.4962	1.5681	1.5439
Tl 190.794	0.9054	-4.9676u	1.6934
V 292.401	0.5678	0.4352	0.5478
Zn 206.200	4.9522	5.2466	3.9530

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4683	ppb	0.0541	11.5	-62.8021
Al 308.215	73.5204	ppb	2.3633	3.2	220.236
As 188.980	-4.4372	ppb	1.1948	26.9	-13.0247
B 249.678	-12.1773	ppb	0.2561	2.1	173.575
Ba 389.178	32.2867	ppb	0.3415	1.1	785.445
Be 313.042	-0.0177	ppb	0.0050	28.4	-348.283
Ca 370.602	4455	ppb	5.147	0.1	14783
Cd 226.502	-0.1147	ppb	0.1371	119.6	27.4407
Co 228.615	-0.2585	ppb	0.2800	108.3	8.6003
Cr 267.716	0.4829	ppb	0.2237	46.3	35.4155
Cu 324.754	0.4154	ppb	0.1478	35.6	220.661
Fe 271.441	155.382	ppb	2.3327	1.5	397.089
K 766.491	1199.78	ppb	5.0327	0.4	48327.4
Mg 279.078	1646.98	ppb	2.2336	0.1	3862.20
Mn 257.610	5.6497	ppb	0.0492	0.9	1590.17
Mo 202.032	2.9303	ppb	0.2166	7.4	43.0798
Na 330.237	6038.44	ppb	68.0178	1.1	388.937
Ni 231.604	1.8041	ppb	0.5172	28.7	-1.8497
Pb 220.353	-1.0968	ppb	0.5153	47.0	33.2259
Sb 206.834	-4.0543	ppb	5.8290	143.8	16.5192
Se 196.026	5.9176	ppb	2.1113	35.7	8.4661
Sn 189.925	0.0072	ppb	1.8828	26231.2	-11.8246
Sr 216.596	39.1911	ppb	0.5759	1.5	528.402
Ti 334.941	1.5361	ppb	0.0366	2.4	475.027
Tl 190.794	-0.7896	ppb	3.6397	461.0	-18.7346
V 292.401	0.5169	ppb	0.0715	13.8	8.8171
Zn 206.200	4.7173	ppb	0.6781	14.4	7.2768

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-e-18-d (Samp) 5/1/2013, 9:40:50 PM Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2134u	0.0280	-0.1534u
Al 308.215	8.9823	5.1550	3.2166
As 188.980	-5.8667u	-4.9002u	0.4253
B 249.678	-11.2520u	-11.6405u	-11.3020u
Ba 389.178	21.7822	20.6531	21.4661
Be 313.042	0.0760	0.0721	0.0654
Ca 370.602	5756	5757	5720
Cd 226.502	-0.2220u	0.0429	-0.0312u
Co 228.615	-0.7166u	-0.1016u	-0.6432u
Cr 267.716	0.2953	0.1815	0.2110
Cu 324.754	0.1204	0.8357	0.6226
Fe 271.441	123.570	131.094	125.118
K 766.491	1506.87	1511.77	1500.67
Mg 279.078	2478.72	2475.81	2472.37
Mn 257.610	3.2900	3.2941	3.2615
Mo 202.032	-0.4485u	-0.5792u	-0.0415u
Na 330.237	4360.38	4296.35	4273.03
Ni 231.604	0.1146	0.2093	1.0152
Pb 220.353	-3.4654u	-0.6133u	-1.6970u
Sb 206.834	-1.6862u	-5.1382u	-7.5437u
Se 196.026	6.6856	1.4499	1.2156
Sn 189.925	-1.3284u	-0.6156u	-2.0905u
Sr 216.596	35.0867	36.4028	36.4703
Ti 334.941	-0.0458u	-0.0899u	-0.0329
Tl 190.794	0.9671	1.0172	-3.0389u
V 292.401	-0.3842u	-0.2084u	0.1779
Zn 206.200	1.3607	3.5877	2.1785

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1129	ppb	0.1257	111.3	-34.0313
Al 308.215	5.7846	ppb	2.9339	50.7	14.0708
As 188.980	-3.4472	ppb	3.3883	98.3	-12.2866
B 249.678	-11.3982	ppb	0.2113	1.9	183.917
Ba 389.178	21.3005	ppb	0.5825	2.7	520.422
Be 313.042	0.0712	ppb	0.0053	7.5	-175.862
Ca 370.602	5744	ppb	21.35	0.4	19063
Cd 226.502	-0.0701	ppb	0.1366	194.9	29.1807
Co 228.615	-0.4871	ppb	0.3359	69.0	5.6144
Cr 267.716	0.2293	ppb	0.0590	25.8	21.9351
Cu 324.754	0.5262	ppb	0.3672	69.8	226.864
Fe 271.441	126.594	ppb	3.9736	3.1	343.049
K 766.491	1506.44	ppb	5.5620	0.4	60598.3
Mg 279.078	2475.63	ppb	3.1785	0.1	5788.24
Mn 257.610	3.2818	ppb	0.0177	0.5	962.409
Mo 202.032	-0.3564	ppb	0.2804	78.7	16.1996
Na 330.237	4309.92	ppb	45.2299	1.0	297.385
Ni 231.604	0.4463	ppb	0.4949	110.9	-6.0376
Pb 220.353	-1.9252	ppb	1.4397	74.8	31.5003
Sb 206.834	-4.7894	ppb	2.9443	61.5	15.7721
Se 196.026	3.1170	ppb	3.0926	99.2	7.0739
Sn 189.925	-1.3449	ppb	0.7376	54.8	-13.2059
Sr 216.596	35.9866	ppb	0.7800	2.2	487.435
Ti 334.941	-0.0562	ppb	0.0299	53.1	-25.2508
Tl 190.794	-0.3515	ppb	2.3275	662.1	-18.2347
V 292.401	-0.1382	ppb	0.2876	208.0	-9.8609
Zn 206.200	2.3757	ppb	1.1265	47.4	34930

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89678-e-19-d (Samp) 5/1/2013, 9:46:16 PM Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0231	-0.1321u	-0.1819u
Al 308.215	2.7597	7.5291	4.5433
As 188.980	-4.6809u	-1.6275u	-5.7938u
B 249.678	-11.4779u	-11.7315u	-11.6583u
Ba 389.178	20.0916	20.3076	20.5345
Be 313.042	0.0454	0.0559	0.0438
Ca 370.602	5678	5628	5629
Cd 226.502	-0.0420u	0.0485	-0.2531u
Co 228.615	-0.7631u	-0.4367u	-0.5922u
Cr 267.716	0.4202	0.4158	0.2046
Cu 324.754	0.4614	0.3042	0.2888
Fe 271.441	247.807	240.357	242.123
K 766.491	1484.73	1474.47	1478.27
Mg 279.078	2438.17	2434.85	2432.81
Mn 257.610	0.6287	0.6542	0.6337
Mo 202.032	-0.2358u	0.0020	-0.0650u
Na 330.237	4383.95	4170.10	4275.73
Ni 231.604	0.9052	2.6013	1.1051
Pb 220.353	2.2403	-2.6904u	0.5960
Sb 206.834	-6.0433u	-0.9254u	-1.9414u
Se 196.026	2.7572	1.0554	-8.0857u
Sn 189.925	-2.0139u	-1.6596u	1.7758
Sr 216.596	36.1911	35.5126	35.7042
Ti 334.941	-0.0527u	-0.0259	0.0283
Tl 190.794	-0.0041u	-0.3206u	1.8207
V 292.401	0.2276	0.0667	-0.0917u
Zn 206.200	1.5775	2.1032	0.7075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0970	ppb	0.1069	110.3	-32.7407
Al 308.215	4.9440	ppb	2.4098	48.7	11.5245
As 188.980	-4.0340	ppb	2.1571	53.5	-12.7180
B 249.678	-11.6226	ppb	0.1305	1.1	180.794
Ba 389.178	20.3112	ppb	0.2215	1.1	496.424
Be 313.042	0.0484	ppb	0.0066	13.6	-219.890
Ca 370.602	5645	ppb	28.30	0.5	18723
Cd 226.502	-0.0822	ppb	0.1548	188.3	29.0948
Co 228.615	-0.5973	ppb	0.1632	27.3	4.1262
Cr 267.716	0.3469	ppb	0.1233	35.5	28.1782
Cu 324.754	0.3514	ppb	0.0955	27.2	216.955
Fe 271.441	243.429	ppb	3.8931	1.6	562.147
K 766.491	1479.16	ppb	5.1859	0.4	59506.6
Mg 279.078	2435.28	ppb	2.7057	0.1	5694.51
Mn 257.610	0.6388	ppb	0.0135	2.1	255.613
Mo 202.032	-0.0996	ppb	0.1226	123.1	18.2929
Na 330.237	4276.59	ppb	106.926	2.5	295.590
Ni 231.604	1.5372	ppb	0.9270	60.3	-2.6708
Pb 220.353	0.0486	ppb	2.5105	5161.7	35.6259
Sb 206.834	-2.9701	ppb	2.7095	91.2	17.7356
Se 196.026	-1.4244	ppb	5.8313	409.4	4.8177
Sn 189.925	-0.6326	ppb	2.0932	330.9	-12.4783
Sr 216.596	35.8026	ppb	0.3498	1.0	485.102
Ti 334.941	-0.0168	ppb	0.0413	246.2	-12.9374
Tl 190.794	0.4987	ppb	1.1558	231.8	-17.2797
V 292.401	0.0675	ppb	0.1597	236.4	-3.8115
Zn 206.200	1.4628	ppb	0.7049	48.2	2.0315

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/1/2013, 9:51:42 PM Rack 3, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.081	499.702	497.843
Al 308.215	4852.13	4871.27	4858.11
As 188.980	496.698	496.421	499.222
B 249.678	487.795	490.755	493.188
Ba 389.178	5053.81	5055.41	5048.51
Be 313.042	512.947	514.090	515.721
Ca 370.602	4959	4965	4970
Cd 226.502	516.145	515.893	517.556
Co 228.615	518.977	519.800	518.995
Cr 267.716	5135.03	5137.32	5147.50
Cu 324.754	5072.87	5154.45	5108.58
Fe 271.441	4936.86	4935.33	4939.59
K 766.491	10036.9	10081.2	10081.0
Mg 279.078	4955.18	4931.92	4938.79
Mn 257.610	5212.82	5235.34	5238.58
Mo 202.032	496.777	497.426	497.928
Na 330.237	7114.96	7211.71	7241.21
Ni 231.604	2576.74	2575.44	2580.65
Pb 220.353	486.032	487.468	488.981
Sb 206.834	938.532	931.095	945.010
Se 196.026	4866.52	4913.19	4897.67
Sn 189.925	4987.82	4984.12	4966.10
Sr 216.596	2501.67	2504.13	2500.01
Ti 334.941	490.481	490.978	492.480
Tl 190.794	4957.87	4949.91	4961.65
V 292.401	4923.42	4941.59	4928.41
Zn 206.200	2588.90	2593.43	2580.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.208	ppb	2.6556	0.5	40237.2	100.04170
Al 308.215	4860.50	ppb	9.7896	0.2	14762.4	97.21009
As 188.980	497.447	ppb	1.5429	0.3	353.674	99.48944
B 249.678	490.579	ppb	2.7008	0.6	6817.71	19.62316Q
Ba 389.178	5052.57	ppb	3.6117	0.1	122935	101.05145
Be 313.042	514.253	ppb	1.3943	0.3	990532	102.85054
Ca 370.602	4965	ppb	5.505	0.1	16358	99.29346
Cd 226.502	516.531	ppb	0.8963	0.2	21034.5	103.30624
Co 228.615	519.257	ppb	0.4703	0.1	6989.69	103.85146
Cr 267.716	5139.95	ppb	6.6405	0.1	272217	102.79900
Cu 324.754	5111.96	ppb	40.8957	0.8	291229	102.23930
Fe 271.441	4937.26	ppb	2.1598	0.0	9504.08	98.74519
K 766.491	10066.4	ppb	25.5068	0.3	403121	100.66397
Mg 279.078	4941.96	ppb	11.9497	0.2	11427.6	98.83929
Mn 257.610	5228.91	ppb	14.0286	0.3	1398642	104.57829
Mo 202.032	497.377	ppb	0.5772	0.1	4076.61	99.47539
Na 330.237	7189.29	ppb	66.0409	0.9	424.740	95.85725
Ni 231.604	2577.61	ppb	2.7151	0.1	7941.56	103.10445
Pb 220.353	487.494	ppb	1.4745	0.3	1054.73	97.49876
Sb 206.834	938.213	ppb	6.9629	0.7	1085.31	93.82128
Se 196.026	4892.46	ppb	23.7676	0.5	2437.51	97.84921
Sn 189.925	4979.35	ppb	11.6177	0.2	5075.14	99.58696
Sr 216.596	2501.93	ppb	2.0725	0.1	32178.4	100.07732
Ti 334.941	491.313	ppb	1.0408	0.2	155724	98.26260
Tl 190.794	4956.47	ppb	5.9922	0.1	5557.61	99.12949
V 292.401	4931.14	ppb	9.3863	0.2	145501	98.62281
Zn 206.200	2587.49	ppb	6.7617	0.3	4162.56	103.49953

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/1/2013, 9:57:09 PM                      Rack 3, Tube 2  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1937u	-0.1219u	-0.1358u
Al 308.215	-2.3195u	-0.0219u	-4.1600u
As 188.980	-0.6599u	-3.0451u	-0.1913u
B 249.678	-8.7121u	-9.7739u	-9.4225u
Ba 389.178	-0.5272u	0.1855	-0.7271u
Be 313.042	-0.0290u	-0.0343u	-0.0393u
Ca 370.602	-0.3546u	0.9770	2.002
Cd 226.502	-0.0953u	-0.0378u	-0.0448u
Co 228.615	-0.4448u	0.1684	-0.3980u
Cr 267.716	0.0694	-0.0681u	0.0702
Cu 324.754	0.1347	-0.3424u	0.3815
Fe 271.441	0.4316	-0.0087u	2.5963
K 766.491	-0.2201u	-0.0225u	-0.1274u
Mg 279.078	3.4289	0.8383	6.2336
Mn 257.610	-0.0272u	-0.0047u	0.1054
Mo 202.032	-0.0365u	-0.0828u	-0.3431u
Na 330.237	-46.9967u	-89.4776u	-134.348u
Ni 231.604	-0.4621u	0.6043	1.0620
Pb 220.353	-1.6785u	-2.8037u	-1.2160u
Sb 206.834	-1.5962u	-0.8552u	-0.5595u
Se 196.026	-6.8536u	7.2206	-6.1165u
Sn 189.925	-1.9820u	0.0374	-2.8620u
Sr 216.596	-0.0597u	-0.3494u	-0.1280u
Ti 334.941	-0.0073u	-0.0415u	-0.0033u
Tl 190.794	-0.7294u	1.5068	1.8664
V 292.401	-0.0791u	-0.2690u	-0.1850u
Zn 206.200	1.6031	-0.1467u	0.5735

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1505	ppb	0.0381	25.3	-35.2565	-0.15046
Al 308.215	-2.1671	ppb	2.0732	95.7	-10.0796	-2.16712
As 188.980	-1.2988	ppb	1.5304	117.8	-10.7728	-1.29875
B 249.678	-9.3028	ppb	0.5409	5.8	211.796	-9.30283
Ba 389.178	-0.3563	ppb	0.4797	134.7	-13.3564	-0.35628
Be 313.042	-0.0342	ppb	0.0052	15.1	-380.405	-0.03420
Ca 370.602	0.8748	ppb	1.182	135.1	15.36	0.87483
Cd 226.502	-0.0593	ppb	0.0314	52.9	29.1820	-0.05926
Co 228.615	-0.2248	ppb	0.3414	151.8	9.1231	-0.22480
Cr 267.716	0.0238	ppb	0.0796	334.0	10.9244	0.02384
Cu 324.754	0.0579	ppb	0.3680	635.0	200.170	0.05794
Fe 271.441	1.0064	ppb	1.3944	138.6	107.569	1.00640
K 766.491	-0.1233	ppb	0.0988	80.1	313.882	-0.12334
Mg 279.078	3.5002	ppb	2.6983	77.1	42.4867	3.50025
Mn 257.610	0.0245	ppb	0.0710	289.9	74.0721	0.02448
Mo 202.032	-0.1541	ppb	0.1653	107.2	17.8611	-0.15413
Na 330.237	-90.2739	ppb	43.6809	48.4	64.2713	-90.27392
Ni 231.604	0.4014	ppb	0.7821	194.8	-6.1792	0.40140
Pb 220.353	-1.8994	ppb	0.8166	43.0	31.5526	-1.89942
Sb 206.834	-1.0036	ppb	0.5341	53.2	19.8432	-1.00362
Se 196.026	-1.9165	ppb	7.9215	413.3	4.5716	-1.91652
Sn 189.925	-1.6022	ppb	1.4866	92.8	-13.4737	-1.60221
Sr 216.596	-0.1790	ppb	0.1514	84.6	20.8195	-0.17903
Ti 334.941	-0.0174	ppb	0.0210	120.7	-25.2287	-0.01737
Tl 190.794	0.8813	ppb	1.4064	159.6	-16.8338	0.88128
V 292.401	-0.1777	ppb	0.0952	53.6	-11.0862	-0.17770
Zn 206.200	0.6767	ppb	0.8794	130.0	40.7360	0.67666

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89681-d-1-d (Samp)**                      **5/1/2013, 10:02:35 PM**                      **Rack 3, Tube 3**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0876u	-0.2360u	-0.1514u
Al 308.215	0.3428	6.5351	2.8569
As 188.980	139.632	136.622	135.172
B 249.678	32.5404	32.9765	33.4030
Ba 389.178	9.6758	10.2164	9.6240
Be 313.042	-0.0575u	-0.0575u	-0.0619u
Ca 370.602	40332	40289	40230
Cd 226.502	-0.1507u	0.0007	-0.1638u
Co 228.615	9.5655	9.8950	10.5629
Cr 267.716	-0.1004u	-0.1397u	-0.1465u
Cu 324.754	-0.1429u	0.3855	-0.1151u
Fe 271.441	412.831	417.364	414.008
K 766.491	1597.81	1598.23	1597.50
Mg 279.078	5752.82	5748.14	5747.73
Mn 257.610	317.470	317.536	317.269
Mo 202.032	1.6385	1.0708	0.8174
Na 330.237	39018.0	38952.1	38868.9
Ni 231.604	6.2236	7.2057	7.5862
Pb 220.353	-0.6331u	-0.3568u	0.7941
Sb 206.834	-1.1846u	-4.5396u	-2.9478u
Se 196.026	5.5839	-2.2572u	-4.1315u
Sn 189.925	-3.2103u	-2.9467u	0.4663
Sr 216.596	130.623	130.682	130.469
Ti 334.941	-0.0935u	-0.0860u	-0.0834u
Tl 190.794	5.8970	-2.1398u	-0.1135u
V 292.401	-0.6675u	-0.2597u	-0.1571u
Zn 206.200	4.5780	3.3959	4.2109

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1583	ppb	0.0744	47.0	-40.8262
Al 308.215	3.2449	ppb	3.1143	96.0	6.4659
As 188.980	137.142	ppb	2.2753	1.7	90.8382
B 249.678	32.9733	ppb	0.4313	1.3	770.489
Ba 389.178	9.8387	ppb	0.3281	3.3	251.027
Be 313.042	-0.0590	ppb	0.0025	4.3	-418.712
Ca 370.602	40283	ppb	50.87	0.1	133652
Cd 226.502	-0.1046	ppb	0.0914	87.4	28.6126
Co 228.615	10.0078	ppb	0.5082	5.1	146.351
Cr 267.716	-0.1289	ppb	0.0249	19.3	5.1984
Cu 324.754	0.0425	ppb	0.2974	699.5	199.473
Fe 271.441	414.734	ppb	2.3519	0.6	885.203
K 766.491	1597.85	ppb	0.3665	0.0	64256.0
Mg 279.078	5749.56	ppb	2.8264	0.0	13392.1
Mn 257.610	317.425	ppb	0.1392	0.0	85006.3
Mo 202.032	1.1756	ppb	0.4205	35.8	28.7143
Na 330.237	38946.3	ppb	74.7282	0.2	2132.67
Ni 231.604	7.0051	ppb	0.7031	10.0	14.1955
Pb 220.353	-0.0653	ppb	0.7569	1160.0	35.4671
Sb 206.834	-2.8907	ppb	1.6782	58.1	17.7977
Se 196.026	-0.2683	ppb	5.1540	1921.3	5.4718
Sn 189.925	-1.8969	ppb	2.0508	108.1	-13.7373
Sr 216.596	130.592	ppb	0.1099	0.1	1710.21
Ti 334.941	-0.0876	ppb	0.0052	6.0	-21.4025
Tl 190.794	1.2146	ppb	4.1797	344.1	-17.0011
V 292.401	-0.3614	ppb	0.2700	74.7	-17.0317
Zn 206.200	4.0616	ppb	0.6950	14.9	62488

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89681-d-1-dSD^5 (Samp) 5/1/2013, 10:08:01 PM Rack 3, Tube 4  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3951u	0.0093u	-0.3707u
Al 308.215	-3.9764u	3.3268	-0.7919u
As 188.980	24.8102	23.1471	23.5110
B 249.678	-5.6083u	-6.1647u	-5.9475u
Ba 389.178	0.8443	1.9608	1.7515
Be 313.042	-0.0605u	-0.0487u	-0.0507u
Ca 370.602	8039	8062	8040
Cd 226.502	0.1659	0.1004	-0.0252u
Co 228.615	1.9547	2.0156	2.2518
Cr 267.716	-0.0430u	-0.2347u	0.0175
Cu 324.754	-0.3300u	-0.3644u	0.0777
Fe 271.441	81.1616	89.9993	82.2318
K 766.491	301.637	304.483	302.135
Mg 279.078	1160.91	1171.07	1168.70
Mn 257.610	63.6326	63.8440	63.4873
Mo 202.032	-0.5765u	0.2275	0.1800
Na 330.237	7710.41	7524.76	7591.71
Ni 231.604	2.7944	2.0681	1.5505
Pb 220.353	-0.7945u	-0.3663u	-1.6065u
Sb 206.834	-1.7722u	-3.9857u	-2.2193u
Se 196.026	-1.7298u	-5.8974u	6.0606
Sn 189.925	0.7040	0.7896	-2.9328u
Sr 216.596	26.6440	26.1798	25.6616
Ti 334.941	-0.0851u	-0.0466u	-0.0791u
Tl 190.794	-0.0381u	4.6796	0.0421u
V 292.401	-0.2399u	-0.2051u	-0.1438u
Zn 206.200	1.3604	1.2638	-0.4274u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2522	ppb	0.2268	89.9	-44.4615
Al 308.215	-0.4805	ppb	3.6616	762.0	-4.9571
As 188.980	23.8228	ppb	0.8743	3.7	7.6732
B 249.678	-5.9068	ppb	0.2804	4.7	256.610
Ba 389.178	1.5189	ppb	0.5935	39.1	35.5745
Be 313.042	-0.0533	ppb	0.0063	11.9	-415.309
Ca 370.602	8047	ppb	12.87	0.2	26707
Cd 226.502	0.0804	ppb	0.0971	120.8	35.1113
Co 228.615	2.0741	ppb	0.1569	7.6	39.9654
Cr 267.716	-0.0867	ppb	0.1317	151.8	5.5359
Cu 324.754	-0.2056	ppb	0.2459	119.6	185.192
Fe 271.441	84.4642	ppb	4.8233	5.7	264.474
K 766.491	302.752	ppb	1.5201	0.5	12433.3
Mg 279.078	1166.89	ppb	5.3186	0.5	2745.36
Mn 257.610	63.6546	ppb	0.1794	0.3	17100.8
Mo 202.032	-0.0564	ppb	0.4511	800.5	18.6562
Na 330.237	7608.96	ppb	94.0170	1.2	472.227
Ni 231.604	2.1377	ppb	0.6249	29.2	-0.8228
Pb 220.353	-0.9224	ppb	0.6299	68.3	33.6117
Sb 206.834	-2.6591	ppb	1.1704	44.0	18.0601
Se 196.026	-0.5222	ppb	6.0698	1162.3	5.2806
Sn 189.925	-0.4797	ppb	2.1248	442.9	-12.3195
Sr 216.596	26.1618	ppb	0.4914	1.9	361.114
Ti 334.941	-0.0703	ppb	0.0207	29.4	-36.6921
Tl 190.794	1.5612	ppb	2.7009	173.0	-16.1766
V 292.401	-0.1963	ppb	0.0487	24.8	-11.6617
Zn 206.200	0.7323	ppb	1.0954	137.3	0.8354



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89681-d-1-dPDS (Samp) 5/1/2013, 10:13:28 PM Rack 3, Tube 5****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.8547	49.5222	50.4389
Al 308.215	1982.75	1990.96	2005.81
As 188.980	2256.32	2245.04	2233.18
B 249.678	1042.47	1047.70	1052.84
Ba 389.178	2068.93	2070.88	2072.74
Be 313.042	51.9293	52.0525	52.0928
Ca 370.602	44342	44492	44539
Cd 226.502	52.5751	52.6800	52.5074
Co 228.615	541.228	540.776	539.842
Cr 267.716	208.699	208.651	209.049
Cu 324.754	262.986	259.947	263.118
Fe 271.441	1402.24	1405.03	1408.21
K 766.491	7158.09	7155.71	7141.42
Mg 279.078	10810.6	10797.3	10807.2
Mn 257.610	846.470	847.986	847.598
Mo 202.032	518.126	519.920	519.257
Na 330.237	43742.6	43902.4	44014.1
Ni 231.604	520.194	525.521	524.972
Pb 220.353	497.354	495.221	495.537
Sb 206.834	510.255	505.515	506.878
Se 196.026	2041.56	2017.29	2010.73
Sn 189.925	1026.54	1027.28	1031.78
Sr 216.596	645.502	645.117	642.890
Ti 334.941	998.781	998.630	997.250
Tl 190.794	2054.52	2056.73	2041.38
V 292.401	498.385	498.851	498.671
Zn 206.200	522.472	519.167	520.385

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9386	ppb	0.4641	0.9	3978.57
Al 308.215	1993.17	ppb	11.6908	0.6	6088.18
As 188.980	2244.85	ppb	11.5698	0.5	1631.56
B 249.678	1047.67	ppb	5.1810	0.5	14191.6
Ba 389.178	2070.85	ppb	1.9084	0.1	50404.7
Be 313.042	52.0248	ppb	0.0852	0.2	99859.8
Ca 370.602	44458	ppb	103.2	0.2	147627
Cd 226.502	52.5875	ppb	0.0870	0.2	2173.00
Co 228.615	540.615	ppb	0.7067	0.1	7275.40
Cr 267.716	208.800	ppb	0.2173	0.1	11070.3
Cu 324.754	262.017	ppb	1.7939	0.7	15127.0
Fe 271.441	1405.16	ppb	2.9858	0.2	2837.84
K 766.491	7151.74	ppb	9.0123	0.1	286492
Mg 279.078	10805.0	ppb	6.8913	0.1	25132.4
Mn 257.610	847.352	ppb	0.7877	0.1	226778
Mo 202.032	519.101	ppb	0.9069	0.2	4263.93
Na 330.237	43886.4	ppb	136.457	0.3	2382.18
Ni 231.604	523.562	ppb	2.9296	0.6	1607.18
Pb 220.353	496.037	ppb	1.1511	0.2	1071.01
Sb 206.834	507.549	ppb	2.4406	0.5	563.536
Se 196.026	2023.19	ppb	16.2443	0.8	1010.90
Sn 189.925	1028.53	ppb	2.8377	0.3	1038.97
Sr 216.596	644.503	ppb	1.4100	0.2	8297.69
Ti 334.941	998.220	ppb	0.8439	0.1	316410
Tl 190.794	2050.88	ppb	8.3015	0.4	2290.54
V 292.401	498.636	ppb	0.2352	0.0	14645.2
Zn 206.200	520.675	ppb	1.6713	0.3	840.001

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89681-d-1-e ms (Samp) 5/1/2013, 10:18:54 PM Rack 3, Tube 6****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.0325	51.6388	51.2324
Al 308.215	5026.24	5014.01	5040.56
As 188.980	244.267	249.029	243.497
B 249.678	243.682	245.363	244.942
Ba 389.178	113.025	111.758	111.597
Be 313.042	52.7333	52.7342	52.7149
Ca 370.602	44941	45020	45067
Cd 226.502	52.3626	52.6258	52.4611
Co 228.615	61.8325	61.4857	61.0418
Cr 267.716	104.985	104.456	104.379
Cu 324.754	106.254	105.619	105.676
Fe 271.441	5291.45	5290.59	5282.42
K 766.491	7028.66	6994.56	7008.18
Mg 279.078	10737.9	10761.3	10752.0
Mn 257.610	849.864	848.147	847.820
Mo 202.032	100.712	100.713	101.546
Na 330.237	44567.1	44632.9	44534.4
Ni 231.604	109.253	111.007	109.712
Pb 220.353	49.9743	47.3848	51.8149
Sb 206.834	48.8453	47.0912	47.6740
Se 196.026	99.6305	108.339	103.394
Sn 189.925	197.301	197.767	201.410
Sr 216.596	230.100	229.178	230.486
Ti 334.941	98.0800	97.8964	97.8424
Tl 190.794	40.8153	45.1881	43.0698
V 292.401	100.815	99.8727	100.299
Zn 206.200	107.151	106.999	107.392

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.6346	ppb	0.4001	0.8	4132.66
Al 308.215	5026.94	ppb	13.2872	0.3	15286.3
As 188.980	245.598	ppb	2.9962	1.2	170.085
B 249.678	244.662	ppb	0.8749	0.4	3564.31
Ba 389.178	112.127	ppb	0.7825	0.7	2760.98
Be 313.042	52.7275	ppb	0.0109	0.0	101297
Ca 370.602	45009	ppb	64.08	0.1	148954
Cd 226.502	52.4832	ppb	0.1330	0.3	2182.02
Co 228.615	61.4533	ppb	0.3964	0.6	835.717
Cr 267.716	104.607	ppb	0.3301	0.3	5555.07
Cu 324.754	105.850	ppb	0.3511	0.3	6227.69
Fe 271.441	5288.15	ppb	4.9849	0.1	10034.6
K 766.491	7010.47	ppb	17.1640	0.2	280839
Mg 279.078	10750.4	ppb	11.7739	0.1	25005.1
Mn 257.610	848.610	ppb	1.0982	0.1	227126
Mo 202.032	100.990	ppb	0.4813	0.5	844.652
Na 330.237	44578.1	ppb	50.1671	0.1	2428.02
Ni 231.604	109.990	ppb	0.9094	0.8	331.903
Pb 220.353	49.7246	ppb	2.2256	4.5	139.439
Sb 206.834	47.8702	ppb	0.8934	1.9	72.7947
Se 196.026	103.788	ppb	4.3674	4.2	57.3292
Sn 189.925	198.826	ppb	2.2500	1.1	191.329
Sr 216.596	229.921	ppb	0.6719	0.3	2986.21
Ti 334.941	97.9396	ppb	0.1245	0.1	31073.6
Tl 190.794	43.0244	ppb	2.1868	5.1	28.9602
V 292.401	100.329	ppb	0.4718	0.5	2936.67
Zn 206.200	107.181	ppb	0.1983	0.2	4172.993

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89681-d-1-f msd (Samp)**      **5/1/2013, 10:24:32 PM**      **Rack 3, Tube 7**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.7170	51.7264	51.3636
Al 308.215	5073.91	5079.38	5112.10
As 188.980	248.963	243.755	246.677
B 249.678	240.698	240.835	241.910
Ba 389.178	113.536	112.589	113.818
Be 313.042	53.4660	53.4023	53.4890
Ca 370.602	45653	45642	45718
Cd 226.502	53.2010	53.4769	53.7663
Co 228.615	62.7248	62.3194	62.9955
Cr 267.716	105.655	105.703	105.686
Cu 324.754	106.315	105.466	106.385
Fe 271.441	5454.09	5469.67	5458.11
K 766.491	7110.37	7109.64	7095.99
Mg 279.078	10897.2	10916.2	10908.2
Mn 257.610	858.782	860.568	859.388
Mo 202.032	101.793	102.780	102.403
Na 330.237	45037.7	45294.1	45116.3
Ni 231.604	112.876	108.763	111.812
Pb 220.353	50.3668	49.6938	49.3431
Sb 206.834	44.4083	47.9951	50.8651
Se 196.026	111.698	99.9417	103.422
Sn 189.925	198.164	195.904	202.722
Sr 216.596	232.605	233.711	233.358
Ti 334.941	99.0332	98.8395	98.8058
Tl 190.794	38.6675	42.3308	39.7261
V 292.401	101.485	101.371	101.207
Zn 206.200	107.637	106.026	105.247

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.6023	ppb	0.2068	0.4	4129.99
Al 308.215	5088.46	ppb	20.6547	0.4	15473.5
As 188.980	246.465	ppb	2.6104	1.1	170.722
B 249.678	241.147	ppb	0.6637	0.3	3517.59
Ba 389.178	113.315	ppb	0.6437	0.6	2790.58
Be 313.042	53.4524	ppb	0.0449	0.1	102694
Ca 370.602	45671	ppb	41.06	0.1	151135
Cd 226.502	53.4814	ppb	0.2827	0.5	2223.16
Co 228.615	62.6799	ppb	0.3403	0.5	852.135
Cr 267.716	105.681	ppb	0.0245	0.0	5612.08
Cu 324.754	106.055	ppb	0.5111	0.5	6239.47
Fe 271.441	5460.62	ppb	8.0869	0.1	10358.3
K 766.491	7105.33	ppb	8.0974	0.1	284636
Mg 279.078	10907.2	ppb	9.5114	0.1	25369.4
Mn 257.610	859.580	ppb	0.9084	0.1	230062
Mo 202.032	102.325	ppb	0.4980	0.5	855.560
Na 330.237	45149.4	ppb	131.368	0.3	2458.23
Ni 231.604	111.150	ppb	2.1353	1.9	335.484
Pb 220.353	49.8012	ppb	0.5203	1.0	139.598
Sb 206.834	47.7562	ppb	3.2350	6.8	72.6684
Se 196.026	105.021	ppb	6.0390	5.8	57.9456
Sn 189.925	198.930	ppb	3.4730	1.7	191.436
Sr 216.596	233.225	ppb	0.5646	0.2	3028.79
Ti 334.941	98.8929	ppb	0.1227	0.1	31376.5
Tl 190.794	40.2415	ppb	1.8852	4.7	25.7989
V 292.401	101.354	ppb	0.1396	0.1	2966.61
Zn 206.200	106.304	ppb	1.2190	1.1	4171.592

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**mb 680-274976/1-a (Samp)**      **5/1/2013, 10:29:59 PM**      **Rack 3, Tube 8**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2399u	-0.0075u	-0.0586u
Al 308.215	0.3603	1.9430	3.2752
As 188.980	-8.5472u	2.1236	-3.4045u
B 249.678	-3.7819u	-5.0085u	-5.5993u
Ba 389.178	-0.1774u	0.3996	-0.1232u
Be 313.042	-0.0468u	-0.0419u	-0.0439u
Ca 370.602	1.412	1.990	-1.594u
Cd 226.502	-0.0003u	-0.0121u	-0.0921u
Co 228.615	-0.2706u	-0.3450u	-0.2920u
Cr 267.716	-0.2421u	-0.1784u	-0.1113u
Cu 324.754	-0.3502u	-0.2445u	0.2153
Fe 271.441	2.3365	2.9785	11.2507
K 766.491	1.0593	1.3067	0.7404
Mg 279.078	4.8674	1.5998	0.5943
Mn 257.610	-0.1091u	-0.1474u	-0.1537u
Mo 202.032	-0.5852u	0.0378	0.2199
Na 330.237	134.543	2.2133	-23.0280u
Ni 231.604	0.0893	0.8504	1.1457
Pb 220.353	-0.2563u	-0.7967u	-0.4545u
Sb 206.834	-6.8077u	-1.2617u	-0.5491u
Se 196.026	1.9364	0.4623	1.3820
Sn 189.925	0.7412	-1.4763u	-0.5987u
Sr 216.596	0.1410	0.0441	-0.2973u
Ti 334.941	-0.0607u	-0.0869u	0.0024
Tl 190.794	3.1019	-0.1721u	2.3236
V 292.401	-0.2963u	-0.1325u	-0.2240u
Zn 206.200	-0.3952u	-0.0766u	0.6341

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1020	ppb	0.1222	119.8	-31.3567
Al 308.215	1.8595	ppb	1.4592	78.5	2.1526
As 188.980	-3.2760	ppb	5.3366	162.9	-12.2183
B 249.678	-4.7966	ppb	0.9271	19.3	271.402
Ba 389.178	0.0330	ppb	0.3187	965.7	-3.8866
Be 313.042	-0.0442	ppb	0.0025	5.6	-399.652
Ca 370.602	0.6029	ppb	1.924	319.2	14.22
Cd 226.502	-0.0348	ppb	0.0500	143.4	30.1830
Co 228.615	-0.3025	ppb	0.0383	12.7	8.0831
Cr 267.716	-0.1773	ppb	0.0654	36.9	0.2747
Cu 324.754	-0.1265	ppb	0.3007	237.8	189.668
Fe 271.441	5.5219	ppb	4.9716	90.0	116.023
K 766.491	1.0355	ppb	0.2839	27.4	360.251
Mg 279.078	2.3539	ppb	2.2341	94.9	39.8257
Mn 257.610	-0.1367	ppb	0.0241	17.7	30.9665
Mo 202.032	-0.1092	ppb	0.4222	386.8	18.2289
Na 330.237	37.9096	ppb	84.6337	223.3	71.0667
Ni 231.604	0.6951	ppb	0.5451	78.4	-5.2734
Pb 220.353	-0.5025	ppb	0.2734	54.4	34.4733
Sb 206.834	-2.8728	ppb	3.4263	119.3	17.8279
Se 196.026	1.2602	ppb	0.7446	59.1	6.1498
Sn 189.925	-0.4446	ppb	1.1168	251.2	-12.2910
Sr 216.596	-0.0374	ppb	0.2302	616.3	22.6589
Ti 334.941	-0.0484	ppb	0.0459	94.9	-35.0684
Tl 190.794	1.7512	ppb	1.7104	97.7	-15.8541
V 292.401	-0.2176	ppb	0.0821	37.7	-12.2243
Zn 206.200	0.0541	ppb	0.5270	370.2	41.2685

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

ics 680-274976/2-a (Samp)      5/1/2013, 10:35:25 PM      Rack 3, Tube 9  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.5773	51.5794	50.5838
Al 308.215	4996.94	4974.57	4902.99
As 188.980	98.5508	98.6315	102.983
B 249.678	182.694	183.057	183.078
Ba 389.178	100.590	100.857	100.730
Be 313.042	52.3377	52.2306	52.0002
Ca 370.602	4823	4815	4784
Cd 226.502	52.4949	52.6532	52.2276
Co 228.615	52.0832	51.3081	52.0345
Cr 267.716	103.516	103.872	103.345
Cu 324.754	103.867	104.605	103.274
Fe 271.441	4888.34	4898.29	4864.31
K 766.491	5011.21	5016.33	4986.28
Mg 279.078	4923.12	4908.03	4890.37
Mn 257.610	532.745	532.235	529.691
Mo 202.032	98.6897	99.6370	99.2899
Na 330.237	4716.16	4907.52	4660.99
Ni 231.604	103.490	102.481	101.292
Pb 220.353	47.6423	49.7112	48.8028
Sb 206.834	51.0958	43.0009	47.8687
Se 196.026	97.2645	95.2122	95.0642
Sn 189.925	194.191	193.952	195.060
Sr 216.596	100.804	99.8219	99.6584
Ti 334.941	97.7924	97.9338	97.4424
Tl 190.794	40.6934	39.4193	37.3704
V 292.401	99.9397	99.6682	99.0595
Zn 206.200	102.672	102.750	102.194

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.9135	ppb	0.5767	1.1	4079.48
Al 308.215	4958.17	ppb	49.0736	1.0	15077.1
As 188.980	100.055	ppb	2.5361	2.5	63.2815
B 249.678	182.943	ppb	0.2160	0.1	2748.42
Ba 389.178	100.726	ppb	0.1337	0.1	2466.97
Be 313.042	52.1895	ppb	0.1725	0.3	100251
Ca 370.602	4808	ppb	20.47	0.4	15586
Cd 226.502	52.4585	ppb	0.2151	0.4	2179.75
Co 228.615	51.8086	ppb	0.4341	0.8	706.399
Cr 267.716	103.578	ppb	0.2692	0.3	5498.20
Cu 324.754	103.916	ppb	0.6670	0.6	6117.36
Fe 271.441	4883.65	ppb	17.4690	0.4	9274.39
K 766.491	5004.61	ppb	16.0808	0.3	200576
Mg 279.078	4907.17	ppb	16.3892	0.3	11429.7
Mn 257.610	531.557	ppb	1.6355	0.3	142286
Mo 202.032	99.2055	ppb	0.4793	0.5	830.079
Na 330.237	4761.55	ppb	129.383	2.7	318.296
Ni 231.604	102.421	ppb	1.1005	1.1	308.551
Pb 220.353	48.7188	ppb	1.0370	2.1	137.258
Sb 206.834	47.3218	ppb	4.0751	8.6	72.2057
Se 196.026	95.8470	ppb	1.2298	1.3	53.3030
Sn 189.925	194.401	ppb	0.5831	0.3	186.770
Sr 216.596	100.095	ppb	0.6195	0.6	1309.01
Ti 334.941	97.7229	ppb	0.2530	0.3	30978.4
Tl 190.794	39.1610	ppb	1.6765	4.3	25.1518
V 292.401	99.5558	ppb	0.4507	0.5	2914.55
Zn 206.200	102.539	ppb	0.3008	0.3	165.454

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89652-c-7-a (Samp) 5/1/2013, 10:40:51 PM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5158	0.3305	-0.0000
Al 308.215	73.9533	70.5047	75.2354
As 188.980	10.1471	13.8490	14.2329
B 249.678	-12.6751u	-13.3068u	-12.7724u
Ba 389.178	2433.75	2431.22	2427.81
Be 313.042	-0.0242u	-0.0244u	-0.0333u
Ca 370.602	42181	42150	42091
Cd 226.502	-1.0415	-1.3775	-1.4834
Co 228.615	13.9283	14.3596	14.6557
Cr 267.716	-0.9208	-1.1117	-1.3364
Cu 324.754	-0.3812	-0.1217	-0.3969
Fe 271.441	81503.4	81536.5	81511.8
K 766.491	935.899	936.466	936.613
Mg 279.078	14557.3	14550.0	14522.5
Mn 257.610	15605.0	15603.5	15613.3
Mo 202.032	7.0589	6.8706	6.6718
Na 330.237	11425.1	11396.9	11447.0
Ni 231.604	2.8276	2.3815	2.0288
Pb 220.353	2.2944	5.4676	6.7007
Sb 206.834	-2.6489u	-6.1304u	-3.3949u
Se 196.026	4.1191	0.8606	0.6093
Sn 189.925	3.2938	-2.9791u	-0.1250u
Sr 216.596	225.773	225.430	225.862
Ti 334.941	0.4809	0.4883	0.5343
Tl 190.794	26.8776u	28.5239	29.2170
V 292.401	0.3954	0.0820	-0.1654u
Zn 206.200	-2.2629	-2.7016	-3.6354

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0618	ppb	0.4265	690.2	37.1213
Al 308.215	73.2312	ppb	2.4466	3.3	219.599
As 188.980	12.7430	ppb	2.2563	17.7	-1.0655
B 249.678	-12.9181	ppb	0.3401	2.6	56.6691
Ba 389.178	2430.93	ppb	2.9847	0.1	59288.7
Be 313.042	-0.0273	ppb	0.0052	19.2	-361.991
Ca 370.602	42141	ppb	45.59	0.1	133395
Cd 226.502	-1.3008	ppb	0.2308	17.7	259.502
Co 228.615	14.3145	ppb	0.3658	2.6	200.744
Cr 267.716	-1.1230	ppb	0.2080	18.5	45.9727
Cu 324.754	-0.2999	ppb	0.1545	51.5	207.426
Fe 271.441	81517.2	ppb	17.2020	0.0	152985
K 766.491	936.326	ppb	0.3770	0.0	37785.5
Mg 279.078	14543.3	ppb	18.3569	0.1	33576.8
Mn 257.610	15607.2	ppb	5.2885	0.0	4174731
Mo 202.032	6.8671	ppb	0.1936	2.8	70.6912
Na 330.237	11423.0	ppb	25.1388	0.2	649.220
Ni 231.604	2.4127	ppb	0.4003	16.6	2.0046
Pb 220.353	4.8209	ppb	2.2732	47.2	49.8263
Sb 206.834	-4.0580	ppb	1.8330	45.2	18.4552
Se 196.026	1.8630	ppb	1.9579	105.1	10.8043
Sn 189.925	0.0632	ppb	3.1406	4966.0	-11.7479
Sr 216.596	225.688	ppb	0.2283	0.1	2974.77
Ti 334.941	0.5012	ppb	0.0289	5.8	222.444
Tl 190.794	28.2062	ppb	1.2017	4.3	-16.5225
V 292.401	0.1040	ppb	0.2811	270.3	-4.0257
Zn 206.200	-2.8667	ppb	0.7910	24.5	4.0911

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89652-c-7-aSD^5 (Samp) 5/1/2013, 10:46:18 PM Rack 3, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1542	-0.1898u	-0.0784
Al 308.215	12.1544	18.0511	17.5523
As 188.980	0.7380	1.9408	1.8528
B 249.678	-14.0656u	-15.1199u	-14.8591u
Ba 389.178	487.202	488.959	488.456
Be 313.042	-0.0433u	-0.0466u	-0.0443u
Ca 370.602	8454	8457	8478
Cd 226.502	-0.0995	-0.1793	-0.3262
Co 228.615	2.1848	2.3985	2.5352
Cr 267.716	-0.3096	-0.2241	-0.5389u
Cu 324.754	-0.2279u	-0.1258u	0.2444
Fe 271.441	16515.4	16498.3	16538.8
K 766.491	178.173	178.345	180.305
Mg 279.078	2938.35	2939.34	2939.67
Mn 257.610	3216.25	3215.47	3223.60
Mo 202.032	1.3141	1.1561	1.4788
Na 330.237	2342.64	2246.39	2127.61
Ni 231.604	1.3728	0.1852	0.4311
Pb 220.353	-2.0943u	0.0469	-0.6387u
Sb 206.834	-5.1732u	-6.5841u	-3.5676u
Se 196.026	5.8831	-2.1822u	0.8937
Sn 189.925	-1.5053u	0.0862	-0.2937u
Sr 216.596	45.2629	46.1537	45.7312
Ti 334.941	-0.0078	0.0591	0.0661
Tl 190.794	8.2725	7.9134	4.5236u
V 292.401	-0.2273u	0.0768	-0.1995u
Zn 206.200	0.7069	-0.1816	0.3019

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0380	ppb	0.1755	461.5	-12.7215
Al 308.215	15.9193	ppb	3.2700	20.5	44.9860
As 188.980	1.5105	ppb	0.6705	44.4	-8.8328
B 249.678	-14.6816	ppb	0.5491	3.7	118.903
Ba 389.178	488.205	ppb	0.9047	0.2	11903.5
Be 313.042	-0.0447	ppb	0.0017	3.8	-399.711
Ca 370.602	8463	ppb	13.08	0.2	26791
Cd 226.502	-0.2017	ppb	0.1150	57.0	80.2847
Co 228.615	2.3729	ppb	0.1766	7.4	43.2805
Cr 267.716	-0.3575	ppb	0.1628	45.5	10.3978
Cu 324.754	-0.0364	ppb	0.2485	681.9	200.389
Fe 271.441	16517.5	ppb	20.3497	0.1	31082.9
K 766.491	178.941	ppb	1.1848	0.7	7479.06
Mg 279.078	2939.12	ppb	0.6863	0.0	6811.96
Mn 257.610	3218.44	ppb	4.4866	0.1	860944
Mo 202.032	1.3163	ppb	0.1613	12.3	28.9567
Na 330.237	2238.88	ppb	107.711	4.8	182.599
Ni 231.604	0.6630	ppb	0.6268	94.5	-4.9709
Pb 220.353	-0.8954	ppb	1.0934	122.1	34.5232
Sb 206.834	-5.1083	ppb	1.5093	29.5	15.8041
Se 196.026	1.5315	ppb	4.0703	265.8	7.1809
Sn 189.925	-0.5709	ppb	0.8312	145.6	-12.4152
Sr 216.596	45.7160	ppb	0.4456	1.0	621.024
Ti 334.941	0.0391	ppb	0.0408	104.2	9.5065
Tl 190.794	6.9032	ppb	2.0686	30.0	-16.3165
V 292.401	-0.1167	ppb	0.1681	144.1	-9.4919
Zn 206.200	0.2758	ppb	0.4448	379.3	436.9283

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89652-c-7-aPDS (Samp) 5/1/2013, 10:51:44 PM Rack 3, Tube 12****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.3594	50.2208	49.7886
Al 308.215	2078.01	2075.15	2072.50
As 188.980	2101.21	2099.90	2107.89
B 249.678	987.974	994.841	1001.53
Ba 389.178	4395.78	4396.65	4406.17
Be 313.042	51.9176	51.8576	51.8947
Ca 370.602	46322	46296	46261
Cd 226.502	50.4578	50.4658	50.5924
Co 228.615	532.987	536.295	542.289
Cr 267.716	206.844	207.186	207.349
Cu 324.754	259.438	261.300	264.732
Fe 271.441	80746.5	80687.5	80714.0
K 766.491	6439.81	6440.37	6450.07
Mg 279.078	19446.4	19418.3	19460.0
Mn 257.610	15799.1	15739.0	15795.8
Mo 202.032	525.419	525.600	524.062
Na 330.237	16064.5	16410.1	16334.7
Ni 231.604	519.678	518.804	523.027
Pb 220.353	500.072	493.871	494.191
Sb 206.834	503.039	507.899	509.877
Se 196.026	2001.96	1998.95	2029.99
Sn 189.925	1024.85	1020.70	1027.40
Sr 216.596	734.823	735.841	736.371
Ti 334.941	996.343	997.125	1000.26
Tl 190.794	2067.26	2057.51	2067.27
V 292.401	499.196	498.586	500.450
Zn 206.200	513.279	512.342	512.581

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1229	ppb	0.2978	0.6	4062.14
Al 308.215	2075.22	ppb	2.7597	0.1	6337.90
As 188.980	2103.00	ppb	4.2844	0.2	1526.92
B 249.678	994.783	ppb	6.7807	0.7	13387.7
Ba 389.178	4399.53	ppb	5.7672	0.1	107192
Be 313.042	51.8899	ppb	0.0303	0.1	99595.8
Ca 370.602	46293	ppb	30.45	0.1	147441
Cd 226.502	50.5053	ppb	0.0755	0.1	2361.67
Co 228.615	537.190	ppb	4.7154	0.9	7226.14
Cr 267.716	207.126	ppb	0.2579	0.1	11072.9
Cu 324.754	261.823	ppb	2.6856	1.0	15142.8
Fe 271.441	80716.0	ppb	29.5508	0.0	151576
K 766.491	6443.42	ppb	5.7685	0.1	258149
Mg 279.078	19441.6	ppb	21.2484	0.1	44957.7
Mn 257.610	15778.0	ppb	33.7882	0.2	4220428
Mo 202.032	525.027	ppb	0.8404	0.2	4307.93
Na 330.237	16269.8	ppb	181.703	1.1	894.364
Ni 231.604	520.503	ppb	2.2291	0.4	1599.68
Pb 220.353	496.045	ppb	3.4912	0.7	1075.08
Sb 206.834	506.938	ppb	3.5187	0.7	564.755
Se 196.026	2010.30	ppb	17.1151	0.9	1008.67
Sn 189.925	1024.31	ppb	3.3838	0.3	1034.65
Sr 216.596	735.678	ppb	0.7870	0.1	9510.90
Ti 334.941	997.909	ppb	2.0726	0.2	316368
Tl 190.794	2064.01	ppb	5.6291	0.3	2276.11
V 292.401	499.410	ppb	0.9501	0.2	14667.6
Zn 206.200	512.734	ppb	0.4871	0.1	836.009



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**Cont Calib Verif (CCV)**                      **5/1/2013, 10:57:10 PM**                      **Rack 3, Tube 13**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	503.118	500.000	505.439
Al 308.215	4875.75	4874.69	4897.82
As 188.980	489.507	497.884	507.370
B 249.678	508.332	506.731	512.009
Ba 389.178	5061.01	5052.85	5070.65
Be 313.042	519.087	515.037	520.944
Ca 370.602	4993	4974	5011
Cd 226.502	521.996	519.864	521.395
Co 228.615	526.906	522.167	525.288
Cr 267.716	5194.57	5166.18	5197.69
Cu 324.754	5123.78	5180.27	5137.23
Fe 271.441	4992.97	4979.98	5004.64
K 766.491	10093.5	10073.7	10126.2
Mg 279.078	4991.39	4987.16	4997.21
Mn 257.610	5285.51	5250.56	5297.64
Mo 202.032	501.868	498.772	500.737
Na 330.237	7094.96	7223.23	7241.61
Ni 231.604	2601.91	2594.17	2599.93
Pb 220.353	491.939	492.000	491.423
Sb 206.834	942.835	949.252	946.174
Se 196.026	4913.13	4909.41	4925.90
Sn 189.925	5033.00	5022.48	5030.20
Sr 216.596	2526.99	2515.73	2524.57
Ti 334.941	493.568	492.030	494.356
Tl 190.794	4990.79	4950.37	4980.91
V 292.401	4965.40	4947.17	4984.38
Zn 206.200	2624.38	2621.60	2619.46

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.852	ppb	2.7297	0.5	40449.9	100.57050
Al 308.215	4882.75	ppb	13.0585	0.3	14830.0	97.65507
As 188.980	498.254	ppb	8.9370	1.8	354.262	99.65074
B 249.678	509.024	ppb	2.7060	0.5	7061.63	20.36095Q
Ba 389.178	5061.50	ppb	8.9083	0.2	123152	101.23004
Be 313.042	518.356	ppb	3.0210	0.6	998439	103.67122
Ca 370.602	4993	ppb	18.67	0.4	16450	99.85696
Cd 226.502	521.085	ppb	1.0993	0.2	21219.6	104.21700
Co 228.615	524.787	ppb	2.4089	0.5	7063.94	104.95738
Cr 267.716	5186.15	ppb	17.3599	0.3	274664	103.72295
Cu 324.754	5147.09	ppb	29.5069	0.6	293229	102.94186
Fe 271.441	4992.53	ppb	12.3321	0.2	9609.05	99.85059
K 766.491	10097.8	ppb	26.5121	0.3	404378	100.97816
Mg 279.078	4991.92	ppb	5.0476	0.1	11542.9	99.83835
Mn 257.610	5277.90	ppb	24.4456	0.5	1411744	105.55801
Mo 202.032	500.459	ppb	1.5670	0.3	4101.75	100.09182
Na 330.237	7186.60	ppb	79.8928	1.1	424.293	95.82137
Ni 231.604	2598.67	ppb	4.0186	0.2	8006.51	103.94682
Pb 220.353	491.787	ppb	0.3171	0.1	1063.71	98.35748
Sb 206.834	946.087	ppb	3.2094	0.3	1094.28	94.60870
Se 196.026	4916.15	ppb	8.6485	0.2	2449.29	98.32290
Sn 189.925	5028.56	ppb	5.4468	0.1	5125.42	100.57125
Sr 216.596	2522.43	ppb	5.9241	0.2	32441.8	100.89716
Ti 334.941	493.318	ppb	1.1832	0.2	156359	98.66358
Tl 190.794	4974.02	ppb	21.0702	0.4	5577.31	99.48048
V 292.401	4965.65	ppb	18.6087	0.4	146519	99.31301
Zn 206.200	2621.81	ppb	2.4667	0.1	4217.85	104.87246

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/1/2013, 11:02:37 PM                      Rack 3, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0484u	-0.2055u	-0.3426u
Al 308.215	-1.5120u	1.0049	-0.8418u
As 188.980	-5.0422u	-0.8088u	-7.1472u
B 249.678	-0.8399u	-2.2071u	-2.6857u
Ba 389.178	-0.6960u	0.1601	-0.6365u
Be 313.042	-0.0269u	-0.0241u	-0.0338u
Ca 370.602	-3.968u	0.3140	2.449
Cd 226.502	0.0251	-0.1694u	-0.1155u
Co 228.615	0.2381	-0.3303u	-0.4120u
Cr 267.716	0.0097	0.1110	0.0442
Cu 324.754	0.8247	0.1574	0.0742
Fe 271.441	-3.2081u	1.6518	1.6194
K 766.491	0.1909	0.5130	0.7155
Mg 279.078	3.5517	-1.5120u	-0.4526u
Mn 257.610	0.1692	0.1655	0.2011
Mo 202.032	0.3169	-0.2031u	0.1823
Na 330.237	-193.095u	-36.0188u	-20.9746u
Ni 231.604	-0.0787u	0.3635	0.7983
Pb 220.353	1.4563	-1.8328u	-0.8866u
Sb 206.834	-1.9407u	-5.5965u	-1.5415u
Se 196.026	3.9311	-1.5925u	-1.5397u
Sn 189.925	-0.7255u	-0.5703u	-1.4731u
Sr 216.596	-0.3908u	0.1534	0.1960
Ti 334.941	-0.0160u	0.0313	0.0030
Tl 190.794	0.7450	2.3548	3.3290
V 292.401	0.1294	-0.1477u	0.1146
Zn 206.200	-0.1903u	-0.7656u	0.3264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1989	ppb	0.1472	74.0	-39.1691	-0.19886
Al 308.215	-0.4496	ppb	1.3035	289.9	-4.8368	-0.44961
As 188.980	-4.3327	ppb	3.2282	74.5	-12.9909	-4.33275
B 249.678	-1.9109	ppb	0.9579	50.1	309.578	-1.91092
Ba 389.178	-0.3908	ppb	0.4780	122.3	-14.2030	-0.39081
Be 313.042	-0.0282	ppb	0.0050	17.6	-368.978	-0.02824
Ca 370.602	-0.4018	ppb	3.268	813.3	11.21	-0.40179
Cd 226.502	-0.0866	ppb	0.1004	116.0	28.0682	-0.08661
Co 228.615	-0.1681	ppb	0.3541	210.7	9.8715	-0.16810
Cr 267.716	0.0550	ppb	0.0515	93.7	12.5726	0.05499
Cu 324.754	0.3521	ppb	0.4114	116.8	216.926	0.35208
Fe 271.441	0.0210	ppb	2.7966	13292.0	105.735	0.02104
K 766.491	0.4731	ppb	0.2646	55.9	337.749	0.47312
Mg 279.078	0.5290	ppb	2.6708	504.9	35.5778	0.52902
Mn 257.610	0.1786	ppb	0.0196	11.0	115.272	0.17860
Mo 202.032	0.0987	ppb	0.2699	273.5	19.9286	0.09869
Na 330.237	-83.3629	ppb	95.3283	114.4	64.6419	-83.36295
Ni 231.604	0.3610	ppb	0.4385	121.5	-6.3038	0.36102
Pb 220.353	-0.4210	ppb	1.6932	402.2	34.6428	-0.42104
Sb 206.834	-3.0262	ppb	2.2348	73.8	17.6576	-3.02621
Se 196.026	0.2663	ppb	3.1739	1191.9	5.6561	0.26628
Sn 189.925	-0.9230	ppb	0.4827	52.3	-12.7798	-0.92299
Sr 216.596	-0.0138	ppb	0.3272	2366.4	22.9264	-0.01383
Ti 334.941	0.0061	ppb	0.0238	390.7	-17.8063	0.00609
Tl 190.794	2.1429	ppb	1.3049	60.9	-15.4132	2.14294
V 292.401	0.0321	ppb	0.1559	485.8	-4.9492	0.03209
Zn 206.200	-0.2099	ppb	0.5463	260.3	-0.6959	-0.20985

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89652-c-7-b ms (Samp)**      **5/1/2013, 11:08:03 PM**      **Rack 3, Tube 15****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.9093	52.5546	51.8551
Al 308.215	5117.53	5169.29	5175.28
As 188.980	121.466	118.017	119.244
B 249.678	186.292	187.494	187.914
Ba 389.178	2701.44	2702.33	2702.64
Be 313.042	52.6808	52.8398	52.8525
Ca 370.602	50012	50152	50195
Cd 226.502	51.3393	51.0361	51.2018
Co 228.615	68.4726	68.3053	68.3508
Cr 267.716	103.754	103.761	103.528
Cu 324.754	106.061	106.654	106.319
Fe 271.441	92546.4	92707.6	92800.9
K 766.491	6409.52	6417.18	6410.13
Mg 279.078	20770.8	20787.9	20809.7
Mn 257.610	17219.6	17285.4	17293.5
Mo 202.032	108.196	107.765	107.930
Na 330.237	17524.3	17407.3	17584.4
Ni 231.604	105.186	106.691	105.362
Pb 220.353	51.8701	54.9439	53.8351
Sb 206.834	55.0827	39.2940	49.9757
Se 196.026	113.882	88.0767	108.353
Sn 189.925	204.251	204.020	198.207
Sr 216.596	345.410	347.484	344.992
Ti 334.941	98.8527	98.7677	98.8804
Tl 190.794	70.0106	67.0543	68.5532
V 292.401	101.682	101.527	101.828
Zn 206.200	101.713	99.9172	101.384

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1063	ppb	0.3892	0.7	4245.39
Al 308.215	5154.03	ppb	31.7507	0.6	15673.1
As 188.980	119.575	ppb	1.7485	1.5	76.9517
B 249.678	187.233	ppb	0.8419	0.4	2689.54
Ba 389.178	2702.14	ppb	0.6180	0.0	65920.5
Be 313.042	52.7910	ppb	0.0957	0.2	101415
Ca 370.602	50120	ppb	95.67	0.2	158990
Cd 226.502	51.1924	ppb	0.1518	0.3	2430.86
Co 228.615	68.3762	ppb	0.0865	0.1	924.914
Cr 267.716	103.681	ppb	0.1324	0.1	5606.49
Cu 324.754	106.345	ppb	0.2974	0.3	6285.48
Fe 271.441	92685.0	ppb	128.755	0.1	173939
K 766.491	6412.28	ppb	4.2552	0.1	256903
Mg 279.078	20789.5	ppb	19.4855	0.1	48065.6
Mn 257.610	17266.1	ppb	40.5200	0.2	4618499
Mo 202.032	107.964	ppb	0.2172	0.2	896.754
Na 330.237	17505.3	ppb	90.0976	0.5	966.477
Ni 231.604	105.746	ppb	0.8228	0.8	320.939
Pb 220.353	53.5497	ppb	1.5567	2.9	151.882
Sb 206.834	48.1175	ppb	8.0567	16.7	75.1130
Se 196.026	103.437	ppb	13.5866	13.1	61.7459
Sn 189.925	202.159	ppb	3.4249	1.7	194.723
Sr 216.596	345.962	ppb	1.3349	0.4	4523.98
Ti 334.941	98.8336	ppb	0.0587	0.1	31421.3
Tl 190.794	68.5394	ppb	1.4782	2.2	25.5510
V 292.401	101.679	ppb	0.1508	0.1	2975.56
Zn 206.200	101.005	ppb	0.9562	0.9	4172.754

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89652-c-7-c msd (Samp) 5/1/2013, 11:13:29 PM Rack 3, Tube 16****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.0182	53.0662	51.9139
Al 308.215	5193.15	5197.00	5236.76
As 188.980	117.027	121.942	118.524
B 249.678	188.746	188.092	189.004
Ba 389.178	2596.08	2594.77	2593.05
Be 313.042	53.3060	53.2596	53.2630
Ca 370.602	48087	48110	48198
Cd 226.502	51.6548	51.6864	51.3705
Co 228.615	67.6243	67.9153	66.9048
Cr 267.716	105.021	104.530	104.663
Cu 324.754	106.551	108.268	107.725
Fe 271.441	89064.8	89057.1	88994.5
K 766.491	6426.52	6426.51	6416.97
Mg 279.078	20134.7	20155.7	20159.4
Mn 257.610	16575.1	16597.8	16582.8
Mo 202.032	108.321	109.550	108.863
Na 330.237	17095.2	16907.0	16976.2
Ni 231.604	106.861	106.831	108.197
Pb 220.353	52.5378	49.3583	52.5068
Sb 206.834	46.6204	49.5287	51.8508
Se 196.026	104.886	98.1881	104.580
Sn 189.925	202.617	197.623	198.086
Sr 216.596	337.223	335.247	336.020
Ti 334.941	100.296	100.291	100.042
Tl 190.794	67.1062	68.9428	70.7257
V 292.401	102.126	102.247	102.486
Zn 206.200	102.842	103.812	100.182

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.3328	ppb	0.6373	1.2	4260.75
Al 308.215	5208.97	ppb	24.1409	0.5	15840.2
As 188.980	119.165	ppb	2.5192	2.1	76.6757
B 249.678	188.614	ppb	0.4700	0.2	2712.60
Ba 389.178	2594.63	ppb	1.5202	0.1	63298.3
Be 313.042	53.2762	ppb	0.0259	0.0	102350
Ca 370.602	48132	ppb	58.57	0.1	152683
Cd 226.502	51.5706	ppb	0.1740	0.3	2433.67
Co 228.615	67.4815	ppb	0.5201	0.8	913.063
Cr 267.716	104.738	ppb	0.2537	0.2	5658.27
Cu 324.754	107.514	ppb	0.8777	0.8	6350.88
Fe 271.441	89038.8	ppb	38.5382	0.0	167101
K 766.491	6423.33	ppb	5.5139	0.1	257346
Mg 279.078	20149.9	ppb	13.3142	0.1	46590.4
Mn 257.610	16585.2	ppb	11.5141	0.1	4436364
Mo 202.032	108.911	ppb	0.6155	0.6	904.712
Na 330.237	16992.8	ppb	95.2036	0.6	940.421
Ni 231.604	107.297	ppb	0.7801	0.7	325.632
Pb 220.353	51.4676	ppb	1.8268	3.5	147.342
Sb 206.834	49.3333	ppb	2.6207	5.3	76.3350
Se 196.026	102.551	ppb	3.7817	3.7	61.1154
Sn 189.925	199.442	ppb	2.7596	1.4	191.946
Sr 216.596	336.164	ppb	0.9958	0.3	4395.66
Ti 334.941	100.209	ppb	0.1452	0.1	31853.7
Tl 190.794	68.9249	ppb	1.8098	2.6	27.3182
V 292.401	102.286	ppb	0.1832	0.2	2993.29
Zn 206.200	102.279	ppb	1.8797	1.8	174.402

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-8-d (Samp) 5/1/2013, 11:18:55 PM Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1231	-0.0122u	0.0132u
Al 308.215	71.9298	73.9465	71.9330
As 188.980	-1.6382u	-1.9814u	-0.3780u
B 249.678	-5.1201u	-5.4550u	-5.9567u
Ba 389.178	32.7155	32.7702	32.2566
Be 313.042	0.0546	0.0568	0.0551
Ca 370.602	6175	6166	6123
Cd 226.502	-0.0632u	-0.0662u	0.0552
Co 228.615	0.2409	-0.0875u	-0.2768u
Cr 267.716	0.1381	0.4475	0.2208
Cu 324.754	0.4112	0.3131	0.3940
Fe 271.441	437.672	432.201	433.637
K 766.491	1503.02	1496.71	1488.15
Mg 279.078	2576.25	2565.06	2561.46
Mn 257.610	114.502	114.505	113.693
Mo 202.032	0.7170	0.4618	0.2869
Na 330.237	5913.23	5760.76	5776.49
Ni 231.604	0.1143	1.0868	2.2290
Pb 220.353	0.9618	0.5232	-0.4778u
Sb 206.834	-1.3328u	-2.1866u	-7.8409u
Se 196.026	1.1878	-5.3455u	-3.0170u
Sn 189.925	0.6254	0.1469	-1.7211u
Sr 216.596	46.8193	46.4912	46.3443
Ti 334.941	1.6951	1.6682	1.6119
Tl 190.794	0.8813	3.1442	-3.0475u
V 292.401	0.2779	0.3502	0.3998
Zn 206.200	4.9382	4.6775	3.8946

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0414	ppb	0.0719	173.9	-21.5478
Al 308.215	72.6031	ppb	1.1634	1.6	217.271
As 188.980	-1.3325	ppb	0.8443	63.4	-10.7400
B 249.678	-5.5106	ppb	0.4211	7.6	261.395
Ba 389.178	32.5808	ppb	0.2821	0.9	795.538
Be 313.042	0.0555	ppb	0.0012	2.1	-206.357
Ca 370.602	6155	ppb	27.66	0.4	20402
Cd 226.502	-0.0247	ppb	0.0693	280.3	32.0738
Co 228.615	-0.0411	ppb	0.2619	637.1	11.6078
Cr 267.716	0.2688	ppb	0.1602	59.6	24.6647
Cu 324.754	0.3727	ppb	0.0524	14.1	218.247
Fe 271.441	434.503	ppb	2.8368	0.7	920.582
K 766.491	1495.96	ppb	7.4627	0.5	60178.9
Mg 279.078	2567.59	ppb	7.7090	0.3	6000.05
Mn 257.610	114.233	ppb	0.4680	0.4	30639.0
Mo 202.032	0.4886	ppb	0.2163	44.3	23.0925
Na 330.237	5816.83	ppb	83.8561	1.4	377.113
Ni 231.604	1.1434	ppb	1.0585	92.6	-3.8805
Pb 220.353	0.3357	ppb	0.7379	219.8	36.2545
Sb 206.834	-3.7868	ppb	3.5368	93.4	16.8502
Se 196.026	-2.3916	ppb	3.3113	138.5	4.3665
Sn 189.925	-0.3163	ppb	1.2399	392.0	-12.1543
Sr 216.596	46.5516	ppb	0.2432	0.5	623.685
Ti 334.941	1.6584	ppb	0.0425	2.6	518.588
Tl 190.794	0.3260	ppb	3.1330	961.0	-17.6724
V 292.401	0.3426	ppb	0.0613	17.9	4.2237
Zn 206.200	4.5034	ppb	0.5431	12.1	609633

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-9-b (Samp) 5/1/2013, 11:24:22 PM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3375u	-0.0150u	-0.0585u
Al 308.215	99.8211	98.0849	95.4258
As 188.980	-0.7780u	-1.0846u	-3.9091u
B 249.678	-8.5675u	-9.4089u	-8.7652u
Ba 389.178	30.8845	31.4871	31.6962
Be 313.042	0.0219	0.0240	0.0193
Ca 370.602	4155	4156	4137
Cd 226.502	-0.2036u	0.1350	-0.2461u
Co 228.615	0.5609	-0.0116u	0.2999
Cr 267.716	0.3936	0.5281	0.6100
Cu 324.754	0.0807	0.1214	0.3345
Fe 271.441	268.530	266.441	264.148
K 766.491	1170.79	1174.05	1171.30
Mg 279.078	1546.80	1556.21	1555.14
Mn 257.610	34.8313	34.9190	34.8625
Mo 202.032	3.5716	3.5965	3.9779
Na 330.237	5707.15	5788.81	5786.46
Ni 231.604	3.5411	0.9586	0.9980
Pb 220.353	-0.1541u	-0.3943u	0.6475
Sb 206.834	1.7876	-0.7060u	-1.7056u
Se 196.026	-2.7060u	6.8891	-1.8058u
Sn 189.925	-3.3413u	-1.2170u	-2.5166u
Sr 216.596	35.2614	34.7523	35.0228
Ti 334.941	2.1239	1.9706	1.9601
Tl 190.794	4.0253	1.8847	3.0648
V 292.401	1.6281	1.3881	1.3910
Zn 206.200	3.5738	3.8461	3.0979

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1370	ppb	0.1750	127.7	-35.7341
Al 308.215	97.7773	ppb	2.2137	2.3	294.027
As 188.980	-1.9239	ppb	1.7260	89.7	-11.1918
B 249.678	-8.9139	ppb	0.4400	4.9	216.596
Ba 389.178	31.3559	ppb	0.4214	1.3	762.721
Be 313.042	0.0217	ppb	0.0024	10.9	-272.554
Ca 370.602	4149	ppb	10.96	0.3	13760
Cd 226.502	-0.1049	ppb	0.2088	199.1	28.2261
Co 228.615	0.2831	ppb	0.2866	101.3	15.8502
Cr 267.716	0.5106	ppb	0.1092	21.4	37.0378
Cu 324.754	0.1789	ppb	0.1363	76.2	207.240
Fe 271.441	266.373	ppb	2.1917	0.8	605.337
K 766.491	1172.05	ppb	1.7499	0.1	47217.8
Mg 279.078	1552.72	ppb	5.1524	0.3	3642.62
Mn 257.610	34.8709	ppb	0.0444	0.1	9405.42
Mo 202.032	3.7153	ppb	0.2277	6.1	49.4926
Na 330.237	5760.81	ppb	46.4800	0.8	374.201
Ni 231.604	1.8326	ppb	1.4798	80.7	-1.7593
Pb 220.353	0.0330	ppb	0.5455	1652.0	35.5942
Sb 206.834	-0.2080	ppb	1.7991	864.9	20.6594
Se 196.026	0.7924	ppb	5.2990	668.7	5.9277
Sn 189.925	-2.3583	ppb	1.0710	45.4	-14.2415
Sr 216.596	35.0121	ppb	0.2547	0.7	474.565
Ti 334.941	2.0182	ppb	0.0917	4.5	627.400
Tl 190.794	2.9916	ppb	1.0722	35.8	-14.5308
V 292.401	1.4691	ppb	0.1378	9.4	36.8553
Zn 206.200	3.5059	ppb	0.3787	10.8	5.3329

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-10-b (Samp) 5/1/2013, 11:29:48 PM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0275u	0.1047	-0.1283u
Al 308.215	96.6104	95.0514	91.4170
As 188.980	-5.6270u	-3.8476u	-7.6382u
B 249.678	-10.2529u	-10.8062u	-10.2855u
Ba 389.178	29.7148	30.5486	29.7302
Be 313.042	0.0461	0.0388	0.0403
Ca 370.602	3735	3736	3737
Cd 226.502	0.0129	0.0823	0.0055
Co 228.615	0.7795	0.8474	0.5887
Cr 267.716	0.2428	0.3700	0.2963
Cu 324.754	0.4973	0.3413	0.4749
Fe 271.441	373.827	379.118	376.999
K 766.491	1398.65	1401.40	1403.89
Mg 279.078	1565.64	1565.26	1573.27
Mn 257.610	65.3953	65.3935	65.5750
Mo 202.032	11.3213	10.8514	11.1998
Na 330.237	5468.64	5477.10	5568.68
Ni 231.604	0.8384	1.1612	1.7044
Pb 220.353	-1.4902u	-0.0647u	-1.4263u
Sb 206.834	-4.7280u	-4.2159u	-5.0040u
Se 196.026	-5.7289u	-0.6981u	-0.6949u
Sn 189.925	-0.5201u	-3.7002u	0.0358
Sr 216.596	34.1001	33.6255	33.9322
Ti 334.941	1.6569	1.6779	1.6841
Tl 190.794	1.5731	2.4171	3.2266
V 292.401	7.1111	7.0246	6.9123
Zn 206.200	4.5329	4.8906	4.7501

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0170	ppb	0.1169	686.1	-25.8211
Al 308.215	94.3596	ppb	2.6649	2.8	284.097
As 188.980	-5.7043	ppb	1.8965	33.2	-13.9633
B 249.678	-10.4482	ppb	0.3104	3.0	196.154
Ba 389.178	29.9979	ppb	0.4770	1.6	729.946
Be 313.042	0.0417	ppb	0.0039	9.3	-235.516
Ca 370.602	3736	ppb	1.118	0.0	12379
Cd 226.502	0.0336	ppb	0.0424	126.3	34.2350
Co 228.615	0.7385	ppb	0.1342	18.2	21.6597
Cr 267.716	0.3030	ppb	0.0638	21.1	26.1546
Cu 324.754	0.4379	ppb	0.0843	19.3	222.191
Fe 271.441	376.648	ppb	2.6630	0.7	812.273
K 766.491	1401.31	ppb	2.6207	0.2	56391.8
Mg 279.078	1568.06	ppb	4.5199	0.3	3677.76
Mn 257.610	65.4546	ppb	0.1043	0.2	17585.8
Mo 202.032	11.1242	ppb	0.2439	2.2	110.075
Na 330.237	5504.80	ppb	55.4751	1.0	360.593
Ni 231.604	1.2347	ppb	0.4377	35.4	-3.6004
Pb 220.353	-0.9937	ppb	0.8052	81.0	33.4437
Sb 206.834	-4.6493	ppb	0.3999	8.6	15.7633
Se 196.026	-2.3740	ppb	2.9054	122.4	4.3628
Sn 189.925	-1.3948	ppb	2.0158	144.5	-13.2575
Sr 216.596	33.8859	ppb	0.2407	0.7	459.758
Ti 334.941	1.6730	ppb	0.0143	0.9	518.092
Tl 190.794	2.4056	ppb	0.8268	34.4	-15.2478
V 292.401	7.0160	ppb	0.0997	1.4	199.486
Zn 206.200	4.7245	ppb	0.1892	3.8	7.3139

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89634-e-11-b (Samp)**                      **5/1/2013, 11:35:14 PM**                      **Rack 3, Tube 20**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1017u	-0.5722u	-0.0277u
Al 308.215	32.7138	33.8067	30.4914
As 188.980	-4.0015u	-2.8734u	-4.9537u
B 249.678	-6.3194u	-8.6475u	-8.6674u
Ba 389.178	42.4685	37.2100	35.6460
Be 313.042	-0.0477u	-0.0209u	-0.0183u
Ca 370.602	10439	8946	8921
Cd 226.502	-0.0003	-0.1596u	-0.1189u
Co 228.615	0.1013	0.3931	-0.1880u
Cr 267.716	0.7580	0.7184	0.6859
Cu 324.754	3.4795	2.2121	2.1106
Fe 271.441	587.297	488.907	491.452
K 766.491	1967.52	1747.07	1749.31
Mg 279.078	4020.02	3433.55	3421.00
Mn 257.610	47.3422	40.4138	40.4953
Mo 202.032	-0.3428u	-0.6212u	-0.3010u
Na 330.237	9490.82	8185.18	8222.50
Ni 231.604	0.9773	0.6025	1.5727
Pb 220.353	3.8180	-0.6561u	1.9474
Sb 206.834	0.0339	-1.5607u	2.4658
Se 196.026	2.3355	5.1326	-2.6278u
Sn 189.925	-3.5460u	-0.5132u	-1.8503u
Sr 216.596	69.1540	58.9793	58.9554
Ti 334.941	0.8200	0.6353	0.6928
Tl 190.794	-0.1728u	-0.4536u	-0.0529u
V 292.401	0.5019	0.5189	0.1912
Zn 206.200	24.1878	21.4063	21.8170

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2339	ppb	0.2954	126.3	-44.8509
Al 308.215	32.3373	ppb	1.6894	5.2	94.8034
As 188.980	-3.9429	ppb	1.0414	26.4	-12.6157
B 249.678	-7.8781	ppb	1.3499	17.1	229.965
Ba 389.178	38.4415	ppb	3.5741	9.3	941.128
Be 313.042	-0.0290	ppb	0.0163	56.1	-368.185
Ca 370.602	9435	ppb	869.1	9.2	31277
Cd 226.502	-0.0929	ppb	0.0828	89.1	29.5969
Co 228.615	0.1021	ppb	0.2906	284.5	13.5270
Cr 267.716	0.7208	ppb	0.0361	5.0	48.3353
Cu 324.754	2.6007	ppb	0.7628	29.3	345.115
Fe 271.441	522.552	ppb	56.0851	10.7	1085.73
K 766.491	1821.30	ppb	126.636	7.0	73197.2
Mg 279.078	3624.86	ppb	342.279	9.4	8458.67
Mn 257.610	42.7504	ppb	3.9768	9.3	11527.7
Mo 202.032	-0.4217	ppb	0.1741	41.3	15.6423
Na 330.237	8632.83	ppb	743.277	8.6	526.174
Ni 231.604	1.0508	ppb	0.4892	46.6	-4.1639
Pb 220.353	1.7031	ppb	2.2470	131.9	39.0955
Sb 206.834	0.3130	ppb	2.0277	647.9	21.2858
Se 196.026	1.6134	ppb	3.9303	243.6	6.3390
Sn 189.925	-1.9698	ppb	1.5200	77.2	-13.8407
Sr 216.596	62.3629	ppb	5.8812	9.4	827.816
Ti 334.941	0.7161	ppb	0.0945	13.2	225.084
Tl 190.794	-0.2264	ppb	0.2057	90.8	-18.1811
V 292.401	0.4040	ppb	0.1845	45.7	6.1222
Zn 206.200	22.4704	ppb	1.5015	6.7	35.9869



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-12-b (Samp) 5/1/2013, 11:40:41 PM Rack 3, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1625u	-0.1533u	-0.4525u
Al 308.215	24.3901	27.8816	27.4974
As 188.980	-3.8813u	0.9220	-6.7213u
B 249.678	-9.1578u	-9.1854u	-9.0437u
Ba 389.178	26.3921	26.7063	25.7941
Be 313.042	-0.0055u	-0.0011u	-0.0007
Ca 370.602	8423	8415	8413
Cd 226.502	-0.2235u	-0.0695	-0.2720u
Co 228.615	0.1857	-0.2681u	-0.4046u
Cr 267.716	0.9488	0.6165	0.5182
Cu 324.754	0.1316	0.8463	1.0318
Fe 271.441	897.745	895.056	896.448
K 766.491	1600.05	1596.35	1596.06
Mg 279.078	2817.21	2805.92	2802.23
Mn 257.610	59.2082	59.0461	59.0374
Mo 202.032	-0.0316u	-0.2834u	-0.2687u
Na 330.237	8325.04	8480.10	8312.66
Ni 231.604	1.4464	1.9316	2.0937
Pb 220.353	1.5794	1.1995	-1.2352u
Sb 206.834	-4.5211u	0.0369	2.9127
Se 196.026	3.6285	4.6069	7.1350
Sn 189.925	0.5111	0.6244	-0.0257u
Sr 216.596	56.4739	56.4712	57.1337
Ti 334.941	0.6049	0.5883	0.6446
Tl 190.794	-0.3622u	0.2595	3.1635
V 292.401	0.1078	-0.2380u	-0.0143u
Zn 206.200	4.2610	4.4411	5.2683

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2561	ppb	0.1702	66.4	-46.3182
Al 308.215	26.5897	ppb	1.9146	7.2	77.3186
As 188.980	-3.2268	ppb	3.8635	119.7	-12.1069
B 249.678	-9.1290	ppb	0.0751	0.8	212.923
Ba 389.178	26.2975	ppb	0.4634	1.8	644.031
Be 313.042	-0.0024	ppb	0.0027	109.9	-317.259
Ca 370.602	8417	ppb	5.119	0.1	27867
Cd 226.502	-0.1883	ppb	0.1057	56.1	27.0030
Co 228.615	-0.1624	ppb	0.3090	190.3	9.9651
Cr 267.716	0.6945	ppb	0.2256	32.5	47.1215
Cu 324.754	0.6699	ppb	0.4753	71.0	235.299
Fe 271.441	896.416	ppb	1.3451	0.2	1786.83
K 766.491	1597.48	ppb	2.2281	0.1	64241.4
Mg 279.078	2808.46	ppb	7.8062	0.3	6560.95
Mn 257.610	59.0972	ppb	0.0962	0.2	15895.5
Mo 202.032	-0.1946	ppb	0.1414	72.6	17.4795
Na 330.237	8372.60	ppb	93.3039	1.1	512.404
Ni 231.604	1.8239	ppb	0.3368	18.5	-1.7707
Pb 220.353	0.5146	ppb	1.5272	296.8	36.6156
Sb 206.834	-0.5238	ppb	3.7485	715.6	20.3969
Se 196.026	5.1234	ppb	1.8094	35.3	8.0891
Sn 189.925	0.3699	ppb	0.3473	93.9	-11.4510
Sr 216.596	56.6929	ppb	0.3817	0.7	754.852
Ti 334.941	0.6126	ppb	0.0289	4.7	188.180
Tl 190.794	1.0203	ppb	1.8819	184.4	-16.8261
V 292.401	-0.0482	ppb	0.1754	363.9	-7.2266
Zn 206.200	4.6568	ppb	0.5372	11.5	47.2610

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-13-b (Samp) 5/1/2013, 11:46:07 PM Rack 3, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2919u	-0.3202u	-0.0070u
Al 308.215	13.0487	13.1575	15.7049
As 188.980	-5.5246u	-4.4014u	-4.5227u
B 249.678	-7.8144u	-7.5750u	-7.6677u
Ba 389.178	45.0148	45.2274	45.3088
Be 313.042	-0.0229u	-0.0261u	-0.0188u
Ca 370.602	10146	10140	10108
Cd 226.502	-0.0840u	0.2105	-0.0898u
Co 228.615	-0.3777u	-0.0315u	0.3965
Cr 267.716	0.6640	0.6411	0.5763
Cu 324.754	2.6646	2.5495	2.7940
Fe 271.441	230.663	235.784	240.048
K 766.491	1849.64	1845.87	1843.76
Mg 279.078	4176.75	4183.70	4179.28
Mn 257.610	50.9209	50.8545	50.6490
Mo 202.032	-0.0833u	-0.5389u	-0.2243u
Na 330.237	8715.47	8860.72	8643.92
Ni 231.604	1.0443	0.5763	0.7095
Pb 220.353	-1.4041u	0.8246	-2.7316u
Sb 206.834	-1.5133u	-2.8960u	0.3234
Se 196.026	0.1760	-4.5577u	-1.2954u
Sn 189.925	1.4694	-3.5675u	-3.1706u
Sr 216.596	63.5590	62.9124	63.3640
Ti 334.941	0.2744	0.2371	0.2285
Tl 190.794	2.5751	0.8944	-1.0768u
V 292.401	0.1753	0.1983	-0.0835u
Zn 206.200	21.2850	21.8091	22.3061

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2064	ppb	0.1732	83.9	-42.6776
Al 308.215	13.9704	ppb	1.5031	10.8	38.9693
As 188.980	-4.8162	ppb	0.6165	12.8	-13.2434
B 249.678	-7.6857	ppb	0.1207	1.6	232.887
Ba 389.178	45.1837	ppb	0.1518	0.3	1106.23
Be 313.042	-0.0226	ppb	0.0037	16.2	-355.694
Ca 370.602	10131	ppb	20.40	0.2	33611
Cd 226.502	0.0122	ppb	0.1717	1404.0	32.8901
Co 228.615	-0.0042	ppb	0.3878	9164.7	12.0940
Cr 267.716	0.6272	ppb	0.0455	7.3	43.3456
Cu 324.754	2.6694	ppb	0.1223	4.6	348.933
Fe 271.441	235.498	ppb	4.6991	2.0	547.372
K 766.491	1846.42	ppb	2.9783	0.2	74202.5
Mg 279.078	4179.91	ppb	3.5189	0.1	9748.54
Mn 257.610	50.8081	ppb	0.1417	0.3	13685.7
Mo 202.032	-0.2822	ppb	0.2333	82.7	16.8001
Na 330.237	8740.04	ppb	110.466	1.3	531.950
Ni 231.604	0.7767	ppb	0.2411	31.0	-5.0162
Pb 220.353	-1.1037	ppb	1.7970	162.8	33.2300
Sb 206.834	-1.3620	ppb	1.6150	118.6	19.4713
Se 196.026	-1.8924	ppb	2.4226	128.0	4.5976
Sn 189.925	-1.7562	ppb	2.8005	159.5	-13.6220
Sr 216.596	63.2785	ppb	0.3317	0.5	839.561
Ti 334.941	0.2467	ppb	0.0244	9.9	79.0979
Tl 190.794	0.7976	ppb	1.8279	229.2	-17.0251
V 292.401	0.0967	ppb	0.1565	161.8	-2.9823
Zn 206.200	21.8001	ppb	0.5106	2.3	34.8728

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-21-b (Samp) 5/1/2013, 11:51:33 PM Rack 3, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5791u	-0.1712u	-0.2974u
Al 308.215	50.7569	53.9132	51.4879
As 188.980	-4.9242u	-0.8953u	-4.0628u
B 249.678	-8.4887u	-8.9695u	-8.3595u
Ba 389.178	37.5413	36.7835	37.0989
Be 313.042	0.0063	0.0093	0.0098
Ca 370.602	7638	7557	7628
Cd 226.502	0.0812	0.0188	0.0116
Co 228.615	0.7502	0.9725	1.0489
Cr 267.716	0.1027	0.1120	0.1985
Cu 324.754	1.7205	1.2343	1.2316
Fe 271.441	898.022	886.967	888.703
K 766.491	1873.17	1859.66	1865.66
Mg 279.078	2754.86	2739.38	2756.75
Mn 257.610	200.877	199.531	200.218
Mo 202.032	-0.0697u	-0.0464u	0.1525
Na 330.237	8508.78	8315.68	8413.50
Ni 231.604	0.5680	1.3667	-0.4470u
Pb 220.353	-0.0455u	-0.5590u	1.0102
Sb 206.834	-1.7366u	5.4433	2.0394
Se 196.026	4.0394	6.7318	5.9614
Sn 189.925	-4.0489u	2.3682	-1.0157u
Sr 216.596	51.8892	50.7416	51.4125
Ti 334.941	1.5890	1.5080	1.5097
Tl 190.794	-2.2583u	-0.5838u	0.6262
V 292.401	0.1262	0.0584	0.1049
Zn 206.200	10.0031	10.6901	11.4256

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3492	ppb	0.2088	59.8	-52.8545
Al 308.215	52.0527	ppb	1.6522	3.2	154.771
As 188.980	-3.2941	ppb	2.1216	64.4	-12.1644
B 249.678	-8.6059	ppb	0.3215	3.7	219.851
Ba 389.178	37.1412	ppb	0.3807	1.0	907.637
Be 313.042	0.0084	ppb	0.0019	22.7	-296.721
Ca 370.602	7608	ppb	44.14	0.6	25187
Cd 226.502	0.0372	ppb	0.0382	102.9	36.1446
Co 228.615	0.9239	ppb	0.1552	16.8	24.5456
Cr 267.716	0.1378	ppb	0.0528	38.4	18.3024
Cu 324.754	1.3954	ppb	0.2815	20.2	276.624
Fe 271.441	891.231	ppb	5.9454	0.7	1777.29
K 766.491	1866.16	ppb	6.7669	0.4	74992.5
Mg 279.078	2750.33	ppb	9.5300	0.3	6423.35
Mn 257.610	200.209	ppb	0.6732	0.3	53636.7
Mo 202.032	0.0121	ppb	0.1221	1005.9	19.1704
Na 330.237	8412.65	ppb	96.5506	1.1	514.475
Ni 231.604	0.4959	ppb	0.9090	183.3	-5.8662
Pb 220.353	0.1352	ppb	0.8000	591.5	35.8589
Sb 206.834	1.9154	ppb	3.5916	187.5	23.0132
Se 196.026	5.5775	ppb	1.3866	24.9	8.3497
Sn 189.925	-0.8988	ppb	3.2102	357.2	-12.7475
Sr 216.596	51.3478	ppb	0.5766	1.1	685.896
Ti 334.941	1.5356	ppb	0.0463	3.0	480.406
Tl 190.794	-0.7386	ppb	1.4485	196.1	-19.0389
V 292.401	0.0965	ppb	0.0347	35.9	-3.0066
Zn 206.200	10.7063	ppb	0.7114	385.6	436.0317

680-89634-e-22-b (Samp) 5/1/2013, 11:57:00 PM Rack 3, Tube 24  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0418u	-0.2106u	-0.3445u
Al 308.215	48.7374	49.1593	51.4544
As 188.980	-4.9229u	-2.9431u	-1.9077u
B 249.678	-11.0571u	-10.2956u	-10.7199u
Ba 389.178	32.8600	33.8174	34.3029
Be 313.042	0.0183	0.0213	0.0188
Ca 370.602	6613	6667	6617
Cd 226.502	-0.0173	-0.1329u	-0.1160u
Co 228.615	0.3987	0.7987	0.1991
Cr 267.716	0.2366	0.3114	0.4626
Cu 324.754	0.5253	1.1506	0.5076
Fe 271.441	566.796	569.380	560.459
K 766.491	1552.89	1550.93	1543.53
Mg 279.078	2546.66	2562.95	2543.67
Mn 257.610	138.608	139.185	138.517
Mo 202.032	0.1609	0.0147	0.1514
Na 330.237	6513.07	6545.06	6645.49
Ni 231.604	2.4461	1.4627	1.7304
Pb 220.353	-0.1615u	-0.1811u	-1.5419u
Sb 206.834	-2.8328u	-5.0040u	-1.2273u
Se 196.026	3.1168	2.8337	0.6553
Sn 189.925	0.6997	-0.3221u	-0.5959u
Sr 216.596	49.5368	49.2844	49.1059
Ti 334.941	1.2062	1.1732	1.1420
Tl 190.794	-0.5430u	2.6959	1.6261
V 292.401	0.1062	0.0635	-0.0104u
Zn 206.200	9.8977	10.8021	9.5490

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1990	ppb	0.1517	76.2	-40.9443
Al 308.215	49.7837	ppb	1.4622	2.9	147.872
As 188.980	-3.2579	ppb	1.5321	47.0	-12.1437
B 249.678	-10.6909	ppb	0.3816	3.6	192.696
Ba 389.178	33.6601	ppb	0.7342	2.2	821.939
Be 313.042	0.0195	ppb	0.0016	8.2	-275.557
Ca 370.602	6632	ppb	30.43	0.5	21975
Cd 226.502	-0.0887	ppb	0.0625	70.4	29.9227
Co 228.615	0.4655	ppb	0.3053	65.6	18.3988
Cr 267.716	0.3368	ppb	0.1151	34.2	28.4373
Cu 324.754	0.7279	ppb	0.3663	50.3	238.504
Fe 271.441	565.545	ppb	4.5906	0.8	1166.42
K 766.491	1549.12	ppb	4.9398	0.3	62306.0
Mg 279.078	2551.09	ppb	10.3757	0.4	5961.31
Mn 257.610	138.770	ppb	0.3623	0.3	37201.9
Mo 202.032	0.1090	ppb	0.0818	75.1	19.9811
Na 330.237	6567.87	ppb	69.0915	1.1	416.829
Ni 231.604	1.8797	ppb	0.5084	27.0	-1.6066
Pb 220.353	-0.6282	ppb	0.7913	126.0	34.2467
Sb 206.834	-3.0214	ppb	1.8954	62.7	17.6843
Se 196.026	2.2019	ppb	1.3469	61.2	6.6555
Sn 189.925	-0.0728	ppb	0.6828	938.1	-11.9049
Sr 216.596	49.3091	ppb	0.2165	0.4	659.333
Ti 334.941	1.1738	ppb	0.0321	2.7	364.853
Tl 190.794	1.2597	ppb	1.6502	131.0	-16.6688
V 292.401	0.0531	ppb	0.0590	111.1	-4.2934
Zn 206.200	10.0829	ppb	0.6467	6.4	15.9883

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/2/2013, 12:02:26 AM Rack 3, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.368	499.332	500.079
Al 308.215	4821.70	4799.50	4818.80
As 188.980	501.059	507.213	506.705
B 249.678	497.636	501.647	501.639
Ba 389.178	5016.70	5007.59	4996.10
Be 313.042	519.281	519.551	519.754
Ca 370.602	4955	4940	4939
Cd 226.502	521.506	520.620	519.544
Co 228.615	525.375	526.984	524.937
Cr 267.716	5188.80	5188.31	5177.37
Cu 324.754	5163.55	5174.42	5034.66
Fe 271.441	4980.23	4980.53	4971.50
K 766.491	10157.3	10146.2	10092.1
Mg 279.078	5000.97	4997.78	4991.89
Mn 257.610	5283.91	5268.19	5270.25
Mo 202.032	497.332	495.783	497.849
Na 330.237	7142.89	7369.43	7417.12
Ni 231.604	2599.10	2592.80	2590.45
Pb 220.353	489.506	486.439	488.162
Sb 206.834	944.367	941.024	939.685
Se 196.026	4971.19	4973.73	4913.87
Sn 189.925	4980.97	4968.76	5002.20
Sr 216.596	2511.30	2512.86	2507.43
Ti 334.941	494.067	493.544	490.457
Tl 190.794	4961.60	4953.34	4945.09
V 292.401	4972.42	4975.45	4950.75
Zn 206.200	2617.43	2623.49	2615.56

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.260	ppb	2.5321	0.5	40079.7	99.65193
Al 308.215	4813.33	ppb	12.0665	0.3	14618.8	96.26670
As 188.980	504.992	ppb	3.4155	0.7	359.189	100.99845
B 249.678	500.307	ppb	2.3135	0.5	6946.34	20.01229Q
Ba 389.178	5006.80	ppb	10.3212	0.2	121822	100.13599
Be 313.042	519.529	ppb	0.2372	0.0	1000699	103.90576
Ca 370.602	4945	ppb	9.063	0.2	16292	98.89996
Cd 226.502	520.557	ppb	0.9825	0.2	21198.2	104.11137
Co 228.615	525.765	ppb	1.0781	0.2	7077.15	105.15309
Cr 267.716	5184.83	ppb	6.4613	0.1	274594	103.69659
Cu 324.754	5124.21	ppb	77.7391	1.5	291926	102.48416
Fe 271.441	4977.42	ppb	5.1314	0.1	9580.88	99.54843
K 766.491	10131.9	ppb	34.9148	0.3	405741	101.31866
Mg 279.078	4996.88	ppb	4.6029	0.1	11554.5	99.93763
Mn 257.610	5274.12	ppb	8.5430	0.2	1410733	105.48241
Mo 202.032	496.988	ppb	1.0751	0.2	4073.36	99.39756
Na 330.237	7309.81	ppb	146.515	2.0	430.800	97.46415
Ni 231.604	2594.11	ppb	4.4740	0.2	7992.46	103.76458
Pb 220.353	488.036	ppb	1.5373	0.3	1055.86	97.60718
Sb 206.834	941.692	ppb	2.4112	0.3	1089.57	94.16920
Se 196.026	4952.93	ppb	33.8512	0.7	2467.56	99.05856
Sn 189.925	4983.98	ppb	16.9230	0.3	5079.88	99.67957
Sr 216.596	2510.53	ppb	2.7958	0.1	32288.6	100.42112
Ti 334.941	492.689	ppb	1.9513	0.4	156160	98.53789
Tl 190.794	4953.35	ppb	8.2524	0.2	5554.03	99.06693
V 292.401	4966.21	ppb	13.4723	0.3	146536	99.32417
Zn 206.200	2618.82	ppb	4.1440	0.2	4213.03	104.75297

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/2/2013, 12:07:53 AM                      Rack 3, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1925	-0.4645u	-0.1005u
Al 308.215	-0.5627u	-1.1783u	0.5517
As 188.980	-1.0267u	3.0771	2.6235
B 249.678	-8.0039u	-8.6016u	-9.0508u
Ba 389.178	0.2299	-0.0629u	0.0295
Be 313.042	-0.0308u	-0.0396u	-0.0115u
Ca 370.602	1.379	-1.783u	-2.259u
Cd 226.502	-0.1708u	0.0267	-0.1086u
Co 228.615	-0.1421u	-0.6855u	-0.7677u
Cr 267.716	0.0153	0.0102	0.3716
Cu 324.754	0.3318	0.1287	-0.0795u
Fe 271.441	5.2110	1.9900	4.4539
K 766.491	-0.8253u	0.2332	-0.5766u
Mg 279.078	1.7058	0.8654	0.8944
Mn 257.610	-0.0031u	0.0326	0.2134
Mo 202.032	-0.1577u	-0.2862u	0.7410
Na 330.237	39.1581	118.802	78.2923
Ni 231.604	0.7546	-0.0215u	0.9527
Pb 220.353	-0.1199u	-0.3500u	-2.1501u
Sb 206.834	-2.4815u	0.0149	-3.1852u
Se 196.026	4.6257	-4.1631u	8.2268
Sn 189.925	-2.3339u	-1.9893u	3.5918
Sr 216.596	-0.1800u	-0.1429u	-0.6747u
Ti 334.941	0.0185	-0.0374u	-0.0177u
Tl 190.794	1.8036	3.0684	-0.0184u
V 292.401	-0.0859u	0.0399	0.2314
Zn 206.200	0.2186	2.6470	2.0377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1242	ppb	0.3291	265.1	-33.1339	-0.12416
Al 308.215	-0.3964	ppb	0.8769	221.2	-4.7028	-0.39642
As 188.980	1.5580	ppb	2.2498	144.4	-8.6844	1.55797
B 249.678	-8.5521	ppb	0.5252	6.1	221.724	-8.55210
Ba 389.178	0.0655	ppb	0.1497	228.5	-3.0991	0.06550
Be 313.042	-0.0273	ppb	0.0143	52.5	-367.109	-0.02729
Ca 370.602	-0.8877	ppb	1.977	222.7	9.310	-0.88772
Cd 226.502	-0.0842	ppb	0.1010	119.9	28.1761	-0.08422
Co 228.615	-0.5318	ppb	0.3399	63.9	5.0065	-0.53178
Cr 267.716	0.1324	ppb	0.2072	156.6	16.6723	0.13237
Cu 324.754	0.1270	ppb	0.2056	161.9	204.099	0.12701
Fe 271.441	3.8850	ppb	1.6842	43.4	112.917	3.88497
K 766.491	-0.3896	ppb	0.5535	142.1	303.228	-0.38957
Mg 279.078	1.1552	ppb	0.4771	41.3	37.0363	1.15524
Mn 257.610	0.0809	ppb	0.1161	143.4	89.1648	0.08095
Mo 202.032	0.0990	ppb	0.5597	565.2	19.9311	0.09903
Na 330.237	78.7507	ppb	39.8238	50.6	73.2185	78.75072
Ni 231.604	0.5619	ppb	0.5149	91.6	-5.6841	0.56193
Pb 220.353	-0.8734	ppb	1.1117	127.3	33.6980	-0.87336
Sb 206.834	-1.8839	ppb	1.6817	89.3	18.8963	-1.88391
Se 196.026	2.8965	ppb	6.3734	220.0	6.9628	2.89646
Sn 189.925	-0.2438	ppb	3.3262	1364.3	-12.0859	-0.24381
Sr 216.596	-0.3326	ppb	0.2969	89.3	18.8439	-0.33255
Ti 334.941	-0.0122	ppb	0.0283	232.3	-23.6090	-0.01220
Tl 190.794	1.6178	ppb	1.5517	95.9	-16.0046	1.61784
V 292.401	0.0618	ppb	0.1598	258.6	-3.9944	0.06178
Zn 206.200	1.6344	ppb	1.2634	77.3	2.2826	1.63443

680-89634-e-23-b (Samp) 5/2/2013, 12:13:19 AM Rack 3, Tube 27  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2054u	-0.2664u	-0.3280u
Al 308.215	59.1678	59.0900	55.9337
As 188.980	-1.0259u	1.0545	-5.9221u
B 249.678	-6.7864u	-7.5849u	-7.4410u
Ba 389.178	35.8033	36.2906	35.4370
Be 313.042	0.0394	0.0413	0.0425
Ca 370.602	6860	6823	6807
Cd 226.502	-0.0768u	-0.1237u	-0.1030u
Co 228.615	-0.2756u	0.2041	-0.0171u
Cr 267.716	0.4372	0.3692	0.2300
Cu 324.754	1.4709	1.6297	1.4383
Fe 271.441	483.817	489.598	480.661
K 766.491	1595.30	1594.79	1596.86
Mg 279.078	2711.18	2703.90	2707.31
Mn 257.610	123.929	124.188	123.493
Mo 202.032	0.0627	-0.1502u	0.4290
Na 330.237	6882.63	6857.85	6782.44
Ni 231.604	1.2220	1.8838	2.0671
Pb 220.353	0.6121	-0.2002u	3.1200
Sb 206.834	0.2629	-0.7241u	-4.4661u
Se 196.026	-0.0395	4.8081	3.2135
Sn 189.925	-0.1228u	0.4942	0.5755
Sr 216.596	52.7066	52.1625	51.5271
Ti 334.941	1.3271	1.4018	1.3482
Tl 190.794	1.8508	0.4091	2.6244
V 292.401	0.1208	0.1942	0.2764
Zn 206.200	9.6369	8.5587	7.9105

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2666	ppb	0.0613	23.0	-46.6024
Al 308.215	58.0638	ppb	1.8451	3.2	173.052
As 188.980	-1.9645	ppb	3.5818	182.3	-11.1954
B 249.678	-7.2708	ppb	0.4256	5.9	238.044
Ba 389.178	35.8436	ppb	0.4283	1.2	875.357
Be 313.042	0.0411	ppb	0.0015	3.8	-233.873
Ca 370.602	6830	ppb	27.16	0.4	22638
Cd 226.502	-0.1011	ppb	0.0235	23.2	29.1415
Co 228.615	-0.0295	ppb	0.2401	812.7	11.7611
Cr 267.716	0.3455	ppb	0.1056	30.6	28.8060
Cu 324.754	1.5130	ppb	0.1024	6.8	283.182
Fe 271.441	484.692	ppb	4.5318	0.9	1014.71
K 766.491	1595.65	ppb	1.0796	0.1	64168.0
Mg 279.078	2707.46	ppb	3.6419	0.1	6324.99
Mn 257.610	123.870	ppb	0.3509	0.3	33217.5
Mo 202.032	0.1138	ppb	0.2930	257.3	20.0250
Na 330.237	6840.97	ppb	52.1848	0.8	431.336
Ni 231.604	1.7243	ppb	0.4446	25.8	-2.0879
Pb 220.353	1.1773	ppb	1.7307	147.0	38.0171
Sb 206.834	-1.6425	ppb	2.4946	151.9	19.1680
Se 196.026	2.6607	ppb	2.4706	92.9	6.8793
Sn 189.925	0.3156	ppb	0.3819	121.0	-11.5079
Sr 216.596	52.1321	ppb	0.5903	1.1	695.668
Ti 334.941	1.3590	ppb	0.0385	2.8	424.311
Tl 190.794	1.6281	ppb	1.1243	69.1	-16.2249
V 292.401	0.1972	ppb	0.0778	39.5	-0.0482
Zn 206.200	8.7020	ppb	0.8721	10.0	137.492

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-24-b (Samp) 5/2/2013, 12:18:46 AM Rack 3, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1714	-0.1708u	0.2022
Al 308.215	67.7379	68.5810	68.7269
As 188.980	0.4829	0.0423	0.0751
B 249.678	-9.6705u	-9.0273u	-9.3221u
Ba 389.178	33.1323	34.2996	33.5631
Be 313.042	0.0589	0.0487	0.0552
Ca 370.602	6347	6375	6346
Cd 226.502	-0.1658u	-0.2500u	-0.2120u
Co 228.615	0.2734	0.2904	0.2834
Cr 267.716	0.3319	0.2704	-0.0236u
Cu 324.754	0.7449	1.0976	0.8153
Fe 271.441	410.145	408.936	405.318
K 766.491	1501.11	1505.96	1501.09
Mg 279.078	2543.99	2561.69	2543.88
Mn 257.610	121.976	123.008	121.933
Mo 202.032	-0.1485u	0.2729	-0.3929u
Na 330.237	6143.19	5882.66	5970.29
Ni 231.604	-0.4116u	0.1926	2.0650
Pb 220.353	-0.4676u	-1.3610u	0.7830
Sb 206.834	0.7615	-6.6368u	-6.8608u
Se 196.026	0.0551	-9.1642u	0.4457
Sn 189.925	-1.8570u	-1.3659u	-1.3513u
Sr 216.596	47.9382	48.1984	47.5313
Ti 334.941	1.9756	2.0103	2.1110
Tl 190.794	2.6116	-0.3126u	1.2795
V 292.401	0.3046	0.3181	-0.0797u
Zn 206.200	8.0273	6.4106	6.1867

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0676	ppb	0.2070	306.1	-19.4472
Al 308.215	68.3486	ppb	0.5339	0.8	204.318
As 188.980	0.2001	ppb	0.2455	122.7	-9.6168
B 249.678	-9.3399	ppb	0.3220	3.4	210.774
Ba 389.178	33.6650	ppb	0.5902	1.8	821.811
Be 313.042	0.0543	ppb	0.0051	9.4	-208.538
Ca 370.602	6356	ppb	16.29	0.3	21071
Cd 226.502	-0.2093	ppb	0.0421	20.1	24.4838
Co 228.615	0.2824	ppb	0.0086	3.0	15.9723
Cr 267.716	0.1929	ppb	0.1900	98.5	20.6840
Cu 324.754	0.8859	ppb	0.1866	21.1	247.451
Fe 271.441	408.133	ppb	2.5118	0.6	871.179
K 766.491	1502.72	ppb	2.8040	0.2	60449.5
Mg 279.078	2549.85	ppb	10.2485	0.4	5958.68
Mn 257.610	122.306	ppb	0.6089	0.5	32797.9
Mo 202.032	-0.0895	ppb	0.3368	376.3	18.3660
Na 330.237	5998.71	ppb	132.569	2.2	386.735
Ni 231.604	0.6153	ppb	1.2913	209.9	-5.5096
Pb 220.353	-0.3485	ppb	1.0769	309.0	34.8262
Sb 206.834	-4.2454	ppb	4.3375	102.2	16.3578
Se 196.026	-2.8878	ppb	5.4390	188.3	4.1218
Sn 189.925	-1.5248	ppb	0.2878	18.9	-13.3886
Sr 216.596	47.8893	ppb	0.3362	0.7	640.952
Ti 334.941	2.0323	ppb	0.0703	3.5	636.945
Tl 190.794	1.1928	ppb	1.4640	122.7	-16.7079
V 292.401	0.1810	ppb	0.2258	124.8	-0.4917
Zn 206.200	6.8749	ppb	1.0943	15.6	416.7903



E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-25-b (Samp) 5/2/2013, 12:24:13 AM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6867u	-0.3319u	0.1694
Al 308.215	25.0310	27.7390	22.7646
As 188.980	0.2040	-6.1986u	-1.5344u
B 249.678	-6.3919u	-6.1412u	-6.4274u
Ba 389.178	37.7117	37.7616	36.3324
Be 313.042	-0.0286u	-0.0274u	-0.0258u
Ca 370.602	9203	9187	9162
Cd 226.502	-0.0615u	-0.2147u	-0.1797u
Co 228.615	0.7566	0.2985	0.3766
Cr 267.716	0.4770	0.3427	0.4782
Cu 324.754	1.1059	1.8901	1.3199
Fe 271.441	517.273	526.594	522.418
K 766.491	2320.92	2327.36	2319.48
Mg 279.078	3455.01	3448.80	3440.09
Mn 257.610	70.0438	69.8218	69.7247
Mo 202.032	-0.3133u	-0.0656u	-0.4821u
Na 330.237	9890.05	9913.29	10172.3
Ni 231.604	1.0709	0.5273	1.2877
Pb 220.353	-1.4110u	-0.4121u	-1.5137u
Sb 206.834	-5.1686u	-1.4094u	-7.1760u
Se 196.026	0.1304	7.8556	-0.5891u
Sn 189.925	0.0913	-0.8867u	0.2627
Sr 216.596	58.8782	58.3382	58.6186
Ti 334.941	0.5871	0.5263	0.5511
Tl 190.794	0.0213u	-0.5034u	1.6212
V 292.401	0.6749	0.2025	0.2873
Zn 206.200	12.5155	12.0942	12.6934

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2831	ppb	0.4301	151.9	-48.5203
Al 308.215	25.1782	ppb	2.4904	9.9	73.0442
As 188.980	-2.5097	ppb	3.3108	131.9	-11.5702
B 249.678	-6.3202	ppb	0.1560	2.5	250.572
Ba 389.178	37.2686	ppb	0.8111	2.2	912.106
Be 313.042	-0.0273	ppb	0.0014	5.3	-365.120
Ca 370.602	9184	ppb	20.59	0.2	30443
Cd 226.502	-0.1520	ppb	0.0803	52.8	27.1941
Co 228.615	0.4772	ppb	0.2451	51.4	18.5491
Cr 267.716	0.4326	ppb	0.0779	18.0	33.2300
Cu 324.754	1.4386	ppb	0.4054	28.2	278.950
Fe 271.441	522.095	ppb	4.6692	0.9	1084.94
K 766.491	2322.59	ppb	4.1966	0.2	93256.1
Mg 279.078	3447.97	ppb	7.4944	0.2	8047.06
Mn 257.610	69.8635	ppb	0.1636	0.2	18778.1
Mo 202.032	-0.2870	ppb	0.2095	73.0	16.7435
Na 330.237	9991.87	ppb	156.670	1.6	598.267
Ni 231.604	0.9620	ppb	0.3917	40.7	-4.4379
Pb 220.353	-1.1122	ppb	0.6086	54.7	33.2168
Sb 206.834	-4.5847	ppb	2.9273	63.9	16.0010
Se 196.026	2.4656	ppb	4.6817	189.9	6.7692
Sn 189.925	-0.1776	ppb	0.6201	349.2	-12.0092
Sr 216.596	58.6117	ppb	0.2700	0.5	779.480
Ti 334.941	0.5548	ppb	0.0305	5.5	172.955
Tl 190.794	0.3797	ppb	1.1067	291.5	-17.5432
V 292.401	0.3882	ppb	0.2519	64.9	5.6381
Zn 206.200	12.4344	ppb	0.3977	2.5	197805

680-89634-e-26-b (Samp) 5/2/2013, 12:29:39 AM Rack 3, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4511u	-0.2797u	-0.3951u
Al 308.215	22.5586	21.8841	23.7847
As 188.980	-3.9994u	-6.0571u	-4.1966u
B 249.678	-8.5522u	-7.6858u	-8.6868u
Ba 389.178	34.6035	34.3848	35.2149
Be 313.042	-0.0238u	-0.0329u	-0.0283u
Ca 370.602	8584	8580	8572
Cd 226.502	-0.0835u	-0.0391u	-0.1558u
Co 228.615	0.1415	-0.2144u	0.1605
Cr 267.716	0.2949	0.4404	0.5777
Cu 324.754	1.7011	0.6709	0.9895
Fe 271.441	386.442	384.460	388.906
K 766.491	1911.02	1906.18	1907.79
Mg 279.078	3393.87	3385.61	3379.79
Mn 257.610	51.7281	51.6833	51.6896
Mo 202.032	-0.3200u	-0.1267u	-0.0215u
Na 330.237	8552.50	8431.52	8339.20
Ni 231.604	0.9409	1.3364	0.8779
Pb 220.353	-0.0303u	-1.4253u	0.0054
Sb 206.834	-7.8958u	2.4057	-2.7271u
Se 196.026	0.0537	-1.8497u	0.8822
Sn 189.925	-1.8270u	-0.6293u	-0.3945u
Sr 216.596	55.8913	55.3195	56.3491
Ti 334.941	0.3553	0.4920	0.3795
Tl 190.794	0.9872	-0.7460u	2.2865
V 292.401	0.2044	0.4705	0.1552
Zn 206.200	11.1622	12.1049	12.1810

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3753	ppb	0.0874	23.3	-55.8914
Al 308.215	22.7425	ppb	0.9635	4.2	65.6411
As 188.980	-4.7510	ppb	1.1354	23.9	-13.2132
B 249.678	-8.3083	ppb	0.5433	6.5	224.451
Ba 389.178	34.7344	ppb	0.4303	1.2	850.096
Be 313.042	-0.0283	ppb	0.0045	16.0	-367.165
Ca 370.602	8578	ppb	6.189	0.1	28446
Cd 226.502	-0.0928	ppb	0.0589	63.4	29.1393
Co 228.615	0.0292	ppb	0.2112	723.5	12.5377
Cr 267.716	0.4377	ppb	0.1414	32.3	33.3472
Cu 324.754	1.1205	ppb	0.5274	47.1	260.791
Fe 271.441	386.603	ppb	2.2274	0.6	830.759
K 766.491	1908.33	ppb	2.4646	0.1	76679.9
Mg 279.078	3386.42	ppb	7.0751	0.2	7904.30
Mn 257.610	51.7003	ppb	0.0242	0.0	13919.4
Mo 202.032	-0.1561	ppb	0.1514	97.0	17.8225
Na 330.237	8441.08	ppb	106.968	1.3	516.139
Ni 231.604	1.0517	ppb	0.2486	23.6	-4.1645
Pb 220.353	-0.4834	ppb	0.8159	168.8	34.5268
Sb 206.834	-2.7391	ppb	5.1508	188.0	17.9875
Se 196.026	-0.3046	ppb	1.4007	459.9	5.3876
Sn 189.925	-0.9503	ppb	0.7683	80.8	-12.7995
Sr 216.596	55.8533	ppb	0.5158	0.9	743.797
Ti 334.941	0.4089	ppb	0.0729	17.8	126.511
Tl 190.794	0.8426	ppb	1.5214	180.6	-16.9845
V 292.401	0.2767	ppb	0.1696	61.3	2.3424
Zn 206.200	11.8160	ppb	0.5675	4.8	187.669

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89634-e-27-b (Samp) 5/2/2013, 12:35:06 AM Rack 3, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0081u	-0.3661u	0.2155
Al 308.215	20.6836	24.7667	24.0659
As 188.980	-2.2786u	-3.4711u	0.6154
B 249.678	-9.0782u	-9.5202u	-9.1497u
Ba 389.178	36.8824	37.1011	37.8958
Be 313.042	-0.0215u	-0.0178u	-0.0209u
Ca 370.602	9179	9202	9209
Cd 226.502	-0.0435u	-0.0313u	0.0209
Co 228.615	-0.5439u	-0.1116u	-0.1157u
Cr 267.716	0.3342	0.3922	0.3184
Cu 324.754	1.3297	1.1977	1.2777
Fe 271.441	288.616	289.966	290.379
K 766.491	1781.75	1786.10	1786.87
Mg 279.078	3555.04	3556.89	3565.16
Mn 257.610	37.5725	37.6387	37.7804
Mo 202.032	-0.8413u	-0.4051u	-0.0647u
Na 330.237	8644.96	8782.77	8647.97
Ni 231.604	1.7605	2.3987	1.2562
Pb 220.353	0.7490	0.9273	0.1766
Sb 206.834	-1.3041u	-9.5263u	-4.4773u
Se 196.026	1.6343	-3.5457u	2.5099
Sn 189.925	-3.7353u	-1.0781u	0.7909
Sr 216.596	62.7415	62.0318	61.9963
Ti 334.941	0.3989	0.3423	0.4228
Tl 190.794	-0.4672u	-0.9494u	1.9249
V 292.401	0.3274	0.1981	0.2542
Zn 206.200	11.8866	14.3869	13.1027

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0475	ppb	0.2948	620.7	-29.8719
Al 308.215	23.1720	ppb	2.1834	9.4	66.9403
As 188.980	-1.7114	ppb	2.1015	122.8	-10.9836
B 249.678	-9.2494	ppb	0.2373	2.6	212.130
Ba 389.178	37.2931	ppb	0.5333	1.4	912.656
Be 313.042	-0.0201	ppb	0.0020	10.1	-351.085
Ca 370.602	9197	ppb	15.76	0.2	30505
Cd 226.502	-0.0180	ppb	0.0342	190.2	31.8442
Co 228.615	-0.2571	ppb	0.2484	96.6	8.7042
Cr 267.716	0.3483	ppb	0.0388	11.1	28.5227
Cu 324.754	1.2684	ppb	0.0665	5.2	269.176
Fe 271.441	289.654	ppb	0.9223	0.3	648.894
K 766.491	1784.91	ppb	2.7646	0.2	71741.1
Mg 279.078	3559.03	ppb	5.3872	0.2	8305.71
Mn 257.610	37.6639	ppb	0.1062	0.3	10166.0
Mo 202.032	-0.4370	ppb	0.3893	89.1	15.5299
Na 330.237	8691.90	ppb	78.7100	0.9	529.453
Ni 231.604	1.8051	ppb	0.5725	31.7	-1.8434
Pb 220.353	0.6176	ppb	0.3922	63.5	36.8251
Sb 206.834	-5.1026	ppb	4.1466	81.3	15.4369
Se 196.026	0.1995	ppb	3.2728	1640.4	5.6339
Sn 189.925	-1.3408	ppb	2.2745	169.6	-13.1982
Sr 216.596	62.2565	ppb	0.4204	0.7	826.297
Ti 334.941	0.3880	ppb	0.0414	10.7	120.705
Tl 190.794	0.1694	ppb	1.5392	908.4	-17.7139
V 292.401	0.2599	ppb	0.0649	25.0	1.8723
Zn 206.200	13.1254	ppb	1.2593	9.5	20.8708

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89657-f-2-b (Samp) 5/2/2013, 12:40:32 AM Rack 3, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2988u	-0.2244u	-0.4524u
Al 308.215	119.788	131.160	129.883
As 188.980	-4.8546u	-3.4152u	-3.1128u
B 249.678	218.659	219.520	219.460
Ba 389.178	52.1924	52.6659	52.8562
Be 313.042	-0.0404u	-0.0348u	-0.0378u
Ca 370.602	92194	92429	92275
Cd 226.502	0.1054	0.0357	-0.0223
Co 228.615	3.8376	3.3816	2.6445
Cr 267.716	0.7251	0.7752	0.5910
Cu 324.754	6.1968	6.1937	6.2200
Fe 271.441	1920.78	1914.49	1906.34
K 766.491	6973.95	6976.56	6955.57
Mg 279.078	11390.7	11375.3	11374.3
Mn 257.610	363.237	363.115	363.082
Mo 202.032	-0.0573u	-0.2303u	-0.6592u
Na 330.237	35581.2	35710.0	35671.3
Ni 231.604	7.8447	6.2867	6.7993
Pb 220.353	16.9517	17.0848	16.1167
Sb 206.834	0.8625	1.5522	-0.6490u
Se 196.026	-5.6402u	-0.1835	2.8714
Sn 189.925	-1.7960u	-0.0279	-2.8178u
Sr 216.596	422.086	420.921	420.592
Ti 334.941	1.8574	1.9903	2.0315
Tl 190.794	0.0670u	0.4135u	1.2156
V 292.401	0.7124	0.7055	0.8619
Zn 206.200	25.1995	24.5252	22.4916

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3252	ppb	0.1163	35.8	-68.3205
Al 308.215	126.944	ppb	6.2301	4.9	382.435
As 188.980	-3.7942	ppb	0.9307	24.5	-11.6719
B 249.678	219.213	ppb	0.4812	0.2	3232.13
Ba 389.178	52.5715	ppb	0.3418	0.7	1308.21
Be 313.042	-0.0377	ppb	0.0028	7.4	-358.444
Ca 370.602	92300	ppb	119.3	0.1	306121
Cd 226.502	0.0396	ppb	0.0639	161.5	39.7277
Co 228.615	3.2879	ppb	0.6021	18.3	56.2604
Cr 267.716	0.6971	ppb	0.0952	13.7	49.4825
Cu 324.754	6.2035	ppb	0.0144	0.2	550.720
Fe 271.441	1913.87	ppb	7.2395	0.4	3695.54
K 766.491	6968.69	ppb	11.4385	0.2	279168
Mg 279.078	11380.1	ppb	9.1651	0.1	26478.1
Mn 257.610	363.145	ppb	0.0819	0.0	97278.1
Mo 202.032	-0.3156	ppb	0.3099	98.2	16.4303
Na 330.237	35654.2	ppb	66.0920	0.2	1957.58
Ni 231.604	6.9769	ppb	0.7941	11.4	14.1448
Pb 220.353	16.7177	ppb	0.5247	3.1	70.5703
Sb 206.834	0.5886	ppb	1.1259	191.3	21.6178
Se 196.026	-0.9841	ppb	4.3119	438.2	5.1363
Sn 189.925	-1.5472	ppb	1.4115	91.2	-13.3536
Sr 216.596	421.200	ppb	0.7847	0.2	5460.76
Ti 334.941	1.9597	ppb	0.0910	4.6	656.766
Tl 190.794	0.5654	ppb	0.5892	104.2	-17.8969
V 292.401	0.7599	ppb	0.0883	11.6	16.5572
Zn 206.200	24.0721	ppb	1.4097	5.9	387288

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**490-25015-c-4-a (Samp)**      **5/2/2013, 12:45:59 AM**      **Rack 3, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3088u	-0.1909u	-0.1677u
Al 308.215	4.9710	4.9086	2.8915
As 188.980	-4.7341u	-3.1681u	1.7640
B 249.678	254.840	256.978	256.182
Ba 389.178	-0.2832	-0.3925	0.2413
Be 313.042	-0.0624u	-0.0539u	-0.0470u
Ca 370.602	13001	13070	12993
Cd 226.502	-0.0127u	-0.0928u	-0.1828u
Co 228.615	-0.3317u	-0.4337u	-0.3138u
Cr 267.716	0.2609	0.0853	0.2127
Cu 324.754	0.6056	0.6776	0.7590
Fe 271.441	24.8603	22.5981	16.5013
K 766.491	5392.54	5379.29	5343.25
Mg 279.078	9264.72	9298.64	9269.90
Mn 257.610	-0.0988	-0.1394	-0.1224
Mo 202.032	2.0759	2.2513	2.6110
Na 330.237	77712.7	77679.1	77315.4
Ni 231.604	2.6865	0.7657	0.6446
Pb 220.353	0.0759	0.1019	2.0370
Sb 206.834	-5.1999u	-6.2890u	-0.9368u
Se 196.026	-0.0160u	-2.9275u	3.3248
Sn 189.925	-5.2791u	1.3637	-3.4349u
Sr 216.596	747.749	750.968	746.007
Ti 334.941	-0.1999u	-0.2219u	-0.2037u
Tl 190.794	-2.2901u	2.7276	-1.3990u
V 292.401	-0.0879u	-0.2162u	-0.4978u
Zn 206.200	4.1859	4.8551	5.1742

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2225	ppb	0.0756	34.0	-77.4776
Al 308.215	4.2570	ppb	1.1830	27.8	9.6315
As 188.980	-2.0460	ppb	3.3912	165.7	-11.1862
B 249.678	256.000	ppb	1.0802	0.4	3721.24
Ba 389.178	-0.1448	ppb	0.3388	234.0	17.3118
Be 313.042	-0.0544	ppb	0.0077	14.2	-424.519
Ca 370.602	13021	ppb	42.15	0.3	43217
Cd 226.502	-0.0961	ppb	0.0851	88.6	27.4240
Co 228.615	-0.3597	ppb	0.0647	18.0	7.2167
Cr 267.716	0.1863	ppb	0.0907	48.7	21.0050
Cu 324.754	0.6808	ppb	0.0767	11.3	235.720
Fe 271.441	21.3199	ppb	4.3236	20.3	145.644
K 766.491	5371.69	ppb	25.5057	0.5	215265
Mg 279.078	9277.76	ppb	18.2734	0.2	21597.9
Mn 257.610	-0.1202	ppb	0.0204	17.0	97.7146
Mo 202.032	2.3128	ppb	0.2728	11.8	38.0381
Na 330.237	77569.1	ppb	220.337	0.3	4179.40
Ni 231.604	1.3656	ppb	1.1455	83.9	-3.2054
Pb 220.353	0.7383	ppb	1.1248	152.4	37.0629
Sb 206.834	-4.1419	ppb	2.8286	68.3	16.4234
Se 196.026	0.1271	ppb	3.1286	2460.9	5.5871
Sn 189.925	-2.4501	ppb	3.4291	140.0	-14.3004
Sr 216.596	748.242	ppb	2.5168	0.3	9662.35
Ti 334.941	-0.2085	ppb	0.0117	5.6	-44.9825
Tl 190.794	-0.3205	ppb	2.6771	835.3	-18.1898
V 292.401	-0.2673	ppb	0.2097	78.4	-14.8086
Zn 206.200	4.7384	ppb	0.5044	10.6	47.2970

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**490-25015-c-5-a (Samp)**      **5/2/2013, 12:51:26 AM**      **Rack 3, Tube 34****Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0734u	-0.4010u	-0.3594u
Al 308.215	48.1112	49.5632	48.8025
As 188.980	-5.4931u	-4.4365u	-2.3231u
B 249.678	203.369	204.452	203.098
Ba 389.178	8.2648	8.6261	8.2024
Be 313.042	-0.0486u	-0.0511u	-0.0471u
Ca 370.602	16654	16622	16571
Cd 226.502	-0.1212u	-0.0387u	0.0289
Co 228.615	-0.6979u	-0.3612u	-0.0853u
Cr 267.716	0.5255	0.3717	0.4810
Cu 324.754	25.7557	26.1339	25.7883
Fe 271.441	96.2182	91.1883	90.8512
K 766.491	10975.0	10929.7	10858.4
Mg 279.078	4645.47	4656.15	4638.12
Mn 257.610	38.9138	38.8508	38.7594
Mo 202.032	0.0135	-0.0547u	-0.0818u
Na 330.237	67416.5	67406.3	66822.4
Ni 231.604	1.7178	1.0359	2.6521
Pb 220.353	0.9918	-0.6344u	0.9249
Sb 206.834	0.5613	0.0203	-2.3413u
Se 196.026	8.7579	-2.5837u	5.4943
Sn 189.925	-1.7955u	-0.4145u	1.8183
Sr 216.596	224.196	225.416	223.855
Ti 334.941	0.2969	0.3196	0.3558
Tl 190.794	-2.2259u	1.6321	-1.4505u
V 292.401	-0.1187u	0.2623	0.5730
Zn 206.200	13.7472	13.7355	13.6444

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2779	ppb	0.1784	64.2	-56.3320
Al 308.215	48.8256	ppb	0.7263	1.5	144.962
As 188.980	-4.0843	ppb	1.6141	39.5	-12.6394
B 249.678	203.640	ppb	0.7164	0.4	3028.53
Ba 389.178	8.3645	ppb	0.2288	2.7	211.673
Be 313.042	-0.0489	ppb	0.0021	4.2	-411.175
Ca 370.602	16616	ppb	41.89	0.3	55139
Cd 226.502	-0.0436	ppb	0.0752	172.2	29.7992
Co 228.615	-0.3815	ppb	0.3068	80.4	7.0336
Cr 267.716	0.4594	ppb	0.0791	17.2	35.4725
Cu 324.754	25.8926	ppb	0.2096	0.8	1671.21
Fe 271.441	92.7525	ppb	3.0061	3.2	279.606
K 766.491	10921.0	ppb	58.7968	0.5	437319
Mg 279.078	4646.58	ppb	9.0663	0.2	10833.4
Mn 257.610	38.8413	ppb	0.0776	0.2	10487.5
Mo 202.032	-0.0410	ppb	0.0491	119.8	18.7804
Na 330.237	67215.0	ppb	340.084	0.5	3630.65
Ni 231.604	1.8019	ppb	0.8114	45.0	-1.8581
Pb 220.353	0.4274	ppb	0.9202	215.3	36.4273
Sb 206.834	-0.5866	ppb	1.5435	263.1	20.2979
Se 196.026	3.8895	ppb	5.8386	150.1	7.4664
Sn 189.925	-0.1306	ppb	1.8235	1396.5	-11.9331
Sr 216.596	224.489	ppb	0.8204	0.4	2916.74
Ti 334.941	0.3241	ppb	0.0297	9.2	101.037
Tl 190.794	-0.6814	ppb	2.0408	299.5	-18.6630
V 292.401	0.2389	ppb	0.3465	145.1	0.6967
Zn 206.200	13.7090	ppb	0.0563	0.4	416.7911

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

**680-89678-f-16-b (Samp)**      **5/2/2013, 12:56:52 AM**      **Rack 3, Tube 35****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0107u	0.1718	-0.2652u
Al 308.215	40.8344	41.7159	39.4583
As 188.980	-5.9754u	-5.4523u	-1.9806u
B 249.678	-5.7186u	-6.3962u	-7.0875u
Ba 389.178	33.5650	33.7038	33.6072
Be 313.042	0.0050	-0.0010u	-0.0012u
Ca 370.602	4721	4708	4708
Cd 226.502	-0.1596u	-0.1176u	-0.0383
Co 228.615	2.8305	2.8530	1.7699
Cr 267.716	0.2364	0.1206	0.3436
Cu 324.754	0.2568	0.0739	0.9466
Fe 271.441	703.977	698.031	704.616
K 766.491	1451.45	1453.26	1453.01
Mg 279.078	1656.68	1644.37	1652.71
Mn 257.610	103.804	103.208	103.599
Mo 202.032	-0.3580u	-0.3078u	-0.5365u
Na 330.237	5287.43	4963.35	4895.41
Ni 231.604	1.5292	1.6037	2.3600
Pb 220.353	-2.1631u	-0.5940u	3.3199
Sb 206.834	-5.5660u	2.1239	-0.6803u
Se 196.026	7.2317	3.8765	2.7917
Sn 189.925	-2.5558u	2.8613	-1.2341u
Sr 216.596	35.6539	34.9973	35.5360
Ti 334.941	0.8007	0.8823	0.8333
Tl 190.794	0.7703	-1.1510u	-0.5256u
V 292.401	-0.0976u	-0.1339u	-0.0355u
Zn 206.200	5.6110	4.9596	6.2652

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0347	ppb	0.2195	632.5	-27.1714
Al 308.215	40.6695	ppb	1.1378	2.8	120.135
As 188.980	-4.4694	ppb	2.1712	48.6	-13.0507
B 249.678	-6.4008	ppb	0.6845	10.7	249.267
Ba 389.178	33.6253	ppb	0.0712	0.2	818.811
Be 313.042	0.0009	ppb	0.0035	375.5	-311.685
Ca 370.602	4712	ppb	7.627	0.2	15592
Cd 226.502	-0.1052	ppb	0.0616	58.6	29.7177
Co 228.615	2.4845	ppb	0.6190	24.9	45.4862
Cr 267.716	0.2335	ppb	0.1115	47.8	22.8047
Cu 324.754	0.4258	ppb	0.4602	108.1	221.339
Fe 271.441	702.208	ppb	3.6313	0.5	1423.06
K 766.491	1452.57	ppb	0.9792	0.1	58442.8
Mg 279.078	1651.25	ppb	6.2869	0.4	3870.53
Mn 257.610	103.537	ppb	0.3027	0.3	27772.9
Mo 202.032	-0.4008	ppb	0.1202	30.0	15.8042
Na 330.237	5048.73	ppb	209.496	4.1	336.325
Ni 231.604	1.8310	ppb	0.4596	25.1	-1.7537
Pb 220.353	0.1876	ppb	2.8238	1505.3	35.9426
Sb 206.834	-1.3741	ppb	3.8916	283.2	19.4682
Se 196.026	4.6333	ppb	2.3147	50.0	7.8555
Sn 189.925	-0.3095	ppb	2.8244	912.4	-12.1485
Sr 216.596	35.3958	ppb	0.3500	1.0	479.975
Ti 334.941	0.8388	ppb	0.0411	4.9	254.195
Tl 190.794	-0.3021	ppb	0.9799	324.4	-18.3758
V 292.401	-0.0890	ppb	0.0498	55.9	-8.4153
Zn 206.200	5.6119	ppb	0.6528	397.8	87833

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

**CRI (Samp)** 5/2/2013, 1:02:19 AM **Rack 3, Tube 36****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.0655	10.2224	10.2238
Al 308.215	207.473	207.533	205.606
As 188.980	18.7379	18.2052	22.4235
B 249.678	84.5362	85.6655	84.5159
Ba 389.178	10.2602	9.9248	9.6682
Be 313.042	4.2379	4.2816	4.2399
Ca 370.602	493.1	494.7	491.8
Cd 226.502	5.4437	5.3344	5.4402
Co 228.615	10.0888	10.8087	10.7395
Cr 267.716	10.2111	10.1547	10.4519
Cu 324.754	21.6082	21.0961	20.7281
Fe 271.441	54.3973	48.3509	50.8490
K 766.491	1007.59	1013.55	1007.83
Mg 279.078	515.096	516.999	508.301
Mn 257.610	11.2098	11.2452	11.2197
Mo 202.032	9.9671	10.0748	9.6662
Na 330.237	906.730	862.731	978.233
Ni 231.604	40.8086	42.0948	40.0311
Pb 220.353	11.5485	6.5677	9.0110
Sb 206.834	17.5709	18.7341	14.8403
Se 196.026	20.1614	19.9382	13.1068
Sn 189.925	48.8399	48.1856	48.4036
Sr 216.596	9.8797	10.0989	10.5060
Ti 334.941	9.8595	9.8939	9.8490
Tl 190.794	25.0928	27.4868	28.7543
V 292.401	9.7800	9.8079	10.1060
Zn 206.200	20.7965	23.2550	22.9537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.1705	ppb	0.0910	0.9	796.365
Al 308.215	206.871	ppb	1.0959	0.5	626.058
As 188.980	19.7889	ppb	2.2971	11.6	4.6448
B 249.678	84.9059	ppb	0.6579	0.8	1457.93
Ba 389.178	9.9511	ppb	0.2968	3.0	238.921
Be 313.042	4.2531	ppb	0.0247	0.6	7880.56
Ca 370.602	493.2	ppb	1.484	0.3	1647
Cd 226.502	5.4061	ppb	0.0622	1.1	251.404
Co 228.615	10.5457	ppb	0.3972	3.8	153.547
Cr 267.716	10.2726	ppb	0.1578	1.5	553.691
Cu 324.754	21.1441	ppb	0.4420	2.1	1401.01
Fe 271.441	51.1991	ppb	3.0384	5.9	203.642
K 766.491	1009.66	ppb	3.3725	0.3	40719.7
Mg 279.078	513.465	ppb	4.5723	0.9	1227.51
Mn 257.610	11.2249	ppb	0.0182	0.2	3073.34
Mo 202.032	9.9027	ppb	0.2118	2.1	100.096
Na 330.237	915.898	ppb	58.2944	6.4	117.324
Ni 231.604	40.9782	ppb	1.0423	2.5	118.953
Pb 220.353	9.0424	ppb	2.4906	27.5	54.4031
Sb 206.834	17.0484	ppb	1.9988	11.7	39.3234
Se 196.026	17.7355	ppb	4.0101	22.6	14.3381
Sn 189.925	48.4764	ppb	0.3332	0.7	37.6880
Sr 216.596	10.1615	ppb	0.3178	3.1	152.849
Ti 334.941	9.8675	ppb	0.0235	0.2	3110.24
Tl 190.794	27.1113	ppb	1.8594	6.9	12.6898
V 292.401	9.8980	ppb	0.1807	1.8	284.541
Zn 206.200	22.3350	ppb	1.3409	6.0	35.6861



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/2/2013, 1:07:46 AM Rack 3, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	498.108	502.116	507.939
Al 308.215	4873.38	4877.97	4905.90
As 188.980	487.474	493.520	496.653
B 249.678	498.908	502.543	507.986
Ba 389.178	5003.70	5003.66	5050.53
Be 313.042	521.759	521.966	525.432
Ca 370.602	4963	4954	4992
Cd 226.502	519.021	518.019	522.658
Co 228.615	524.525	524.056	527.074
Cr 267.716	5179.08	5173.50	5216.86
Cu 324.754	5098.63	5031.18	5179.62
Fe 271.441	4985.78	5000.84	5024.27
K 766.491	10059.8	10076.0	10163.5
Mg 279.078	5008.83	5007.25	5026.64
Mn 257.610	5286.50	5299.52	5322.75
Mo 202.032	496.588	498.664	500.407
Na 330.237	7328.15	7359.21	7385.26
Ni 231.604	2599.68	2594.00	2614.59
Pb 220.353	487.522	488.260	490.004
Sb 206.834	930.306	937.003	952.368
Se 196.026	4896.88	4920.88	4974.31
Sn 189.925	5020.11	5016.00	5055.36
Sr 216.596	2515.66	2512.47	2527.91
Ti 334.941	490.216	491.621	495.284
Tl 190.794	4932.43	4943.53	4977.73
V 292.401	4950.03	4967.60	4998.83
Zn 206.200	2630.15	2615.99	2624.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.721	ppb	4.9437	1.0	40440.3	100.54421
Al 308.215	4885.75	ppb	17.6024	0.4	14838.8	97.71498
As 188.980	492.549	ppb	4.6659	0.9	350.093	98.50987
B 249.678	503.146	ppb	4.5686	0.9	6983.87	20.12582Q
Ba 389.178	5019.30	ppb	27.0509	0.5	122126	100.38596
Be 313.042	523.052	ppb	2.0633	0.4	1007491	104.61049
Ca 370.602	4970	ppb	19.98	0.4	16373	99.39529
Cd 226.502	519.899	ppb	2.4412	0.5	21171.5	103.97984
Co 228.615	525.218	ppb	1.6243	0.3	7069.84	105.04364
Cr 267.716	5189.81	ppb	23.5882	0.5	274858	103.79620
Cu 324.754	5103.14	ppb	74.3241	1.5	290726	102.06285
Fe 271.441	5003.63	ppb	19.3949	0.4	9629.99	100.07261
K 766.491	10099.7	ppb	55.8203	0.6	404455	100.99742
Mg 279.078	5014.24	ppb	10.7650	0.2	11594.3	100.28478
Mn 257.610	5302.92	ppb	18.3647	0.3	1418436	106.05841
Mo 202.032	498.553	ppb	1.9118	0.4	4086.16	99.71066
Na 330.237	7357.54	ppb	28.5902	0.4	433.319	98.10056
Ni 231.604	2602.76	ppb	10.6332	0.4	8019.11	104.11028
Pb 220.353	488.595	ppb	1.2745	0.3	1057.05	97.71907
Sb 206.834	939.892	ppb	11.3111	1.2	1087.73	93.98920
Se 196.026	4930.69	ppb	39.6377	0.8	2456.52	98.61382
Sn 189.925	5030.49	ppb	21.6382	0.4	5127.39	100.60975
Sr 216.596	2518.68	ppb	8.1535	0.3	32393.6	100.74727
Ti 334.941	492.374	ppb	2.6161	0.5	156060	98.47475
Tl 190.794	4951.23	ppb	23.6093	0.5	5551.60	99.02461
V 292.401	4972.15	ppb	24.7186	0.5	146712	99.44301
Zn 206.200	2623.66	ppb	7.1524	0.3	4220.82	104.94640

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB)                      5/2/2013, 1:13:13 AM                      Rack 3, Tube 38  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0079	-0.4231u	-0.2131u
Al 308.215	-2.9266u	-2.8600u	0.8290
As 188.980	-1.8502u	4.8054	-2.1946u
B 249.678	-6.6547u	-6.6359u	-7.9127u
Ba 389.178	-0.9682u	-0.5728u	0.6845
Be 313.042	-0.0379u	-0.0438u	-0.0386u
Ca 370.602	0.6654	4.107	-0.5161u
Cd 226.502	0.0880	0.2341	0.0542
Co 228.615	0.5175	0.3316	-0.0911u
Cr 267.716	-0.0199u	-0.0001u	-0.1238u
Cu 324.754	0.1391	0.5382	-0.0385u
Fe 271.441	2.8029	7.0713	0.4252
K 766.491	-0.4064u	-0.6187u	0.0783
Mg 279.078	1.2437	3.0498	2.2770
Mn 257.610	-0.0332u	0.0094	0.0022
Mo 202.032	0.1401	-0.1528u	-0.2125u
Na 330.237	-29.6886u	-2.3167u	30.7756
Ni 231.604	-0.3641u	-0.0863u	0.6313
Pb 220.353	0.5010	0.7261	-1.6793u
Sb 206.834	-1.2302u	3.3907	5.7061
Se 196.026	0.8905	-4.1011u	3.9949
Sn 189.925	-0.0541u	1.5195	-0.6601u
Sr 216.596	-0.3330u	-0.2449u	0.2437
Ti 334.941	-0.0644u	-0.0036u	-0.0267u
Tl 190.794	4.3530	2.8870	3.7514
V 292.401	0.0152	-0.1041u	0.0279
Zn 206.200	0.9512	0.8173	0.3513

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2094	ppb	0.2155	102.9	-40.0160	-0.20943
Al 308.215	-1.6525	ppb	2.1493	130.1	-8.5062	-1.65255
As 188.980	0.2535	ppb	3.9458	1556.3	-9.6380	0.25353
B 249.678	-7.0678	ppb	0.7318	10.4	241.360	-7.06777
Ba 389.178	-0.2855	ppb	0.8630	302.3	-11.6355	-0.28552
Be 313.042	-0.0401	ppb	0.0032	8.0	-391.788	-0.04009
Ca 370.602	1.419	ppb	2.402	169.3	17.05	1.41894
Cd 226.502	0.1254	ppb	0.0956	76.2	36.6903	0.12543
Co 228.615	0.2527	ppb	0.3119	123.5	15.5212	0.25266
Cr 267.716	-0.0479	ppb	0.0665	138.7	7.1202	-0.04793
Cu 324.754	0.2129	ppb	0.2953	138.7	208.998	0.21292
Fe 271.441	3.4331	ppb	3.3676	98.1	112.201	3.43314
K 766.491	-0.3156	ppb	0.3572	113.2	306.189	-0.31559
Mg 279.078	2.1902	ppb	0.9062	41.4	39.4425	2.19020
Mn 257.610	-0.0072	ppb	0.0228	316.8	65.5965	-0.00719
Mo 202.032	-0.0751	ppb	0.1887	251.5	18.5075	-0.07506
Na 330.237	-0.4100	ppb	30.2772	7385.1	69.0313	-0.40998
Ni 231.604	0.0603	ppb	0.5136	851.6	-7.2310	0.06031
Pb 220.353	-0.1507	ppb	1.3285	881.4	35.2081	-0.15072
Sb 206.834	2.6222	ppb	3.5314	134.7	23.7505	2.62221
Se 196.026	0.2615	ppb	4.0845	1562.2	5.6537	0.26145
Sn 189.925	0.2684	ppb	1.1251	419.1	-11.5626	0.26843
Sr 216.596	-0.1114	ppb	0.3107	278.9	21.6870	-0.11139
Ti 334.941	-0.0316	ppb	0.0307	97.1	-29.7382	-0.03157
Tl 190.794	3.6638	ppb	0.7369	20.1	-13.7001	3.66381
V 292.401	-0.0203	ppb	0.0728	358.1	-6.4566	-0.02034
Zn 206.200	0.7066	ppb	0.3149	44.8	436.7847	0.70660

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89670-a-1-a^10 (Samp) 5/2/2013, 1:18:40 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2198	0.0187	-0.2616u
Al 308.215	1.0719	-0.4293u	2.7326
As 188.980	4.5646	1.7613	0.4250
B 249.678	-11.6641u	-11.8881u	-12.6046u
Ba 389.178	-1.3282u	0.0354	-0.6119u
Be 313.042	-0.0422u	-0.0523u	-0.0507u
Ca 370.602	329.5	328.6	322.5
Cd 226.502	0.1452	-0.0697u	0.0940
Co 228.615	-0.2550u	0.4153	-0.1092u
Cr 267.716	0.0477	-0.0464u	0.2330
Cu 324.754	0.2994	0.4700	0.2042
Fe 271.441	18.8650	15.0408	12.1103
K 766.491	36.8533	36.6921	36.8209
Mg 279.078	157.915	158.026	156.894
Mn 257.610	0.5304	0.5514	0.5694
Mo 202.032	-0.0828u	0.0991	-0.0619u
Na 330.237	7398.84	7367.60	7080.68
Ni 231.604	0.9436	1.6884	-0.6911u
Pb 220.353	0.2649	-0.1487u	2.3183
Sb 206.834	-2.1578u	-2.4380u	-1.8774u
Se 196.026	7.8099	6.4310	4.1068
Sn 189.925	-1.1622u	2.2320	1.3040
Sr 216.596	1.8645	1.5384	1.7076
Ti 334.941	-0.0882u	-0.0315u	-0.0155u
Tl 190.794	2.9096	0.8691	0.9552
V 292.401	0.0986	-0.2604u	-0.2000u
Zn 206.200	2.3133	0.6727	1.3128

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0077	ppb	0.2418	3132.4	-23.8458
Al 308.215	1.1251	ppb	1.5816	140.6	-0.0753
As 188.980	2.2503	ppb	2.1127	93.9	-8.1750
B 249.678	-12.0523	ppb	0.4913	4.1	175.410
Ba 389.178	-0.6349	ppb	0.6821	107.4	-19.6928
Be 313.042	-0.0484	ppb	0.0055	11.3	-408.475
Ca 370.602	326.8	ppb	3.781	1.2	1096
Cd 226.502	0.0565	ppb	0.1122	198.6	33.8860
Co 228.615	0.0171	ppb	0.3525	2067.1	12.3674
Cr 267.716	0.0781	ppb	0.1422	182.0	13.9406
Cu 324.754	0.3245	ppb	0.1347	41.5	215.351
Fe 271.441	15.3387	ppb	3.3872	22.1	134.490
K 766.491	36.7888	ppb	0.0853	0.2	1790.90
Mg 279.078	157.611	ppb	0.6240	0.4	400.668
Mn 257.610	0.5504	ppb	0.0195	3.5	215.769
Mo 202.032	-0.0152	ppb	0.0995	655.1	18.9967
Na 330.237	7282.37	ppb	175.369	2.4	454.940
Ni 231.604	0.6470	ppb	1.2172	188.1	-5.4216
Pb 220.353	0.8115	ppb	1.3212	162.8	37.2203
Sb 206.834	-2.1577	ppb	0.2803	13.0	18.6006
Se 196.026	6.1159	ppb	1.8716	30.6	8.5625
Sn 189.925	0.7913	ppb	1.7542	221.7	-11.0252
Sr 216.596	1.7035	ppb	0.1631	9.6	45.1149
Ti 334.941	-0.0451	ppb	0.0382	84.8	-33.8427
Tl 190.794	1.5780	ppb	1.1541	73.1	-16.0506
V 292.401	-0.1206	ppb	0.1922	159.4	-9.4466
Zn 206.200	1.4329	ppb	0.8269	57.7	1.9585

680-89670-a-2-a^10 (Samp) 5/2/2013, 1:24:07 AM Rack 3, Tube 40  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0303u	-0.3803u	0.2294
Al 308.215	1.2105	-4.1291u	-1.8950u
As 188.980	0.6625	-1.2249u	-2.8670u
B 249.678	-14.6217u	-14.1003u	-14.7319u
Ba 389.178	-0.2816u	0.0552	0.3507
Be 313.042	-0.0577u	-0.0513u	-0.0545u
Ca 370.602	305.5	308.8	308.4
Cd 226.502	0.0121	0.1027	0.0350
Co 228.615	0.0359	-0.6611u	-0.4249u
Cr 267.716	-0.0855u	0.0899	0.1735
Cu 324.754	-0.2735u	-0.0938u	0.2616
Fe 271.441	6.3059	19.0704	8.7351
K 766.491	33.7985	35.2875	35.0961
Mg 279.078	146.943	150.423	150.030
Mn 257.610	0.5393	0.5177	0.5458
Mo 202.032	0.0035	-0.2609u	-0.2442u
Na 330.237	6947.73	7020.77	6924.27
Ni 231.604	0.3592	1.1018	1.9480
Pb 220.353	-2.0863u	-0.3093u	2.7210
Sb 206.834	-0.2033u	3.6832	0.1916
Se 196.026	3.0782	7.6402	-1.4945u
Sn 189.925	5.7865	-1.1905u	0.1433
Sr 216.596	1.8959	1.6385	1.8276
Ti 334.941	-0.1781u	-0.1107u	-0.0903u
Tl 190.794	2.5303	1.5134	-0.4330u
V 292.401	-0.3234u	-0.1056u	-0.0943u
Zn 206.200	1.7780	1.7114	2.2991

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0604	ppb	0.3060	506.9	-28.0834
Al 308.215	-1.6045	ppb	2.6817	167.1	-8.3723
As 188.980	-1.1431	ppb	1.7662	154.5	-10.6559
B 249.678	-14.4846	ppb	0.3373	2.3	143.239
Ba 389.178	0.0414	ppb	0.3164	763.4	-3.2691
Be 313.042	-0.0545	ppb	0.0032	5.9	-420.179
Ca 370.602	307.5	ppb	1.815	0.6	1032
Cd 226.502	0.0499	ppb	0.0471	94.4	33.6098
Co 228.615	-0.3501	ppb	0.3545	101.3	7.4383
Cr 267.716	0.0593	ppb	0.1322	223.0	12.9377
Cu 324.754	-0.0352	ppb	0.2723	773.3	194.868
Fe 271.441	11.3704	ppb	6.7780	59.6	126.985
K 766.491	34.7274	ppb	0.8101	2.3	1708.42
Mg 279.078	149.132	ppb	1.9056	1.3	380.959
Mn 257.610	0.5343	ppb	0.0147	2.8	211.391
Mo 202.032	-0.1672	ppb	0.1481	88.6	17.7537
Na 330.237	6964.26	ppb	50.3284	0.7	438.081
Ni 231.604	1.1363	ppb	0.7949	70.0	-3.9126
Pb 220.353	0.1085	ppb	2.4307	2241.1	35.7507
Sb 206.834	1.2238	ppb	2.1390	174.8	22.2466
Se 196.026	3.0746	ppb	4.5674	148.6	7.0515
Sn 189.925	1.5798	ppb	3.7037	234.4	-10.2199
Sr 216.596	1.7873	ppb	0.1334	7.5	46.1776
Ti 334.941	-0.1264	ppb	0.0459	36.3	-59.6218
Tl 190.794	1.2036	ppb	1.5058	125.1	-16.4723
V 292.401	-0.1744	ppb	0.1291	74.0	-11.0410
Zn 206.200	1.9295	ppb	0.3218	16.7	436.7601

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

X (Samp)	5/2/2013, 1:29:34 AM	Rack 3, Tube 41	
Weight: 1	Volume: 1	Dilution: 1	
Label	Replicates Concentration		
Ag 328.068	-0.2659u	-0.4215u	-0.3045u
Al 308.215	-2.6594u	-2.9340u	-1.9902u
As 188.980	-2.5948u	-0.5036u	-1.3208u
B 249.678	-16.7780u	-15.9006u	-16.6664u
Ba 389.178	-0.2788u	-0.3448u	-1.1737u
Be 313.042	-0.0471u	-0.0456u	-0.0455u
Ca 370.602	-2.815u	2.110	0.4669
Cd 226.502	-0.0648u	-0.0332u	0.0999
Co 228.615	-0.2685u	-0.2406u	-0.3221u
Cr 267.716	-0.2303u	-0.1833u	0.0841
Cu 324.754	0.3068	-0.2337u	0.0711
Fe 271.441	5.3041	-1.9002u	6.8324
K 766.491	-0.4295u	-1.0896u	-0.9891u
Mg 279.078	1.2010	4.0402	1.5059
Mn 257.610	-0.0484u	-0.0827u	-0.0740u
Mo 202.032	-0.5697u	-0.3636u	-0.4085u
Na 330.237	-122.112u	-29.6748u	130.801
Ni 231.604	0.6819	1.3121	2.4587
Pb 220.353	0.8444	2.2893	3.5084
Sb 206.834	3.3138	-3.1946u	-4.2013u
Se 196.026	3.0308	5.0303	3.6102
Sn 189.925	-1.9516u	-0.3966u	-0.5090u
Sr 216.596	-0.3102u	-0.1271u	-0.6835u
Ti 334.941	-0.1393u	-0.0560u	-0.0875u
Tl 190.794	3.9214	2.1271	1.8905
V 292.401	-0.0319u	0.1347	-0.3575u
Zn 206.200	-0.3787u	0.4152	2.2818

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3306	ppb	0.0810	24.5	-49.7731
Al 308.215	-2.5279	ppb	0.4854	19.2	-11.1955
As 188.980	-1.4731	ppb	1.0539	71.5	-10.9002
B 249.678	-16.4484	ppb	0.4776	2.9	117.273
Ba 389.178	-0.5991	ppb	0.4987	83.2	-19.2663
Be 313.042	-0.0461	ppb	0.0009	2.0	-403.252
Ca 370.602	-0.0795	ppb	2.507	3155.2	12.07
Cd 226.502	0.0006	ppb	0.0874	13678.5	31.6202
Co 228.615	-0.2771	ppb	0.0414	14.9	8.4287
Cr 267.716	-0.1098	ppb	0.1696	154.4	3.8437
Cu 324.754	0.0481	ppb	0.2710	563.7	199.600
Fe 271.441	3.4121	ppb	4.6636	136.7	112.073
K 766.491	-0.8361	ppb	0.3557	42.5	285.362
Mg 279.078	2.2490	ppb	1.5587	69.3	39.5804
Mn 257.610	-0.0684	ppb	0.0178	26.1	49.2275
Mo 202.032	-0.4473	ppb	0.1084	24.2	15.4631
Na 330.237	-6.9952	ppb	127.973	1829.4	68.6862
Ni 231.604	1.4842	ppb	0.9008	60.7	-2.8400
Pb 220.353	2.2140	ppb	1.3336	60.2	40.1528
Sb 206.834	-1.3607	ppb	4.0794	299.8	19.4605
Se 196.026	3.8904	ppb	1.0288	26.4	7.4566
Sn 189.925	-0.9524	ppb	0.8671	91.0	-12.8098
Sr 216.596	-0.3736	ppb	0.2836	75.9	18.3111
Ti 334.941	-0.0943	ppb	0.0421	44.6	-49.6093
Tl 190.794	2.6463	ppb	1.1106	42.0	-14.8459
V 292.401	-0.0849	ppb	0.2503	294.9	-8.2781
Zn 206.200	0.7728	ppb	1.3658	176.7	0.8918

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

CCV (Samp) 5/2/2013, 1:35:01 AM Rack 3, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.152	502.242	497.649
Al 308.215	4836.64	4810.14	4857.37
As 188.980	501.553	507.657	503.513
B 249.678	500.740	502.923	507.802
Ba 389.178	5019.22	5006.69	5020.66
Be 313.042	521.633	518.298	521.673
Ca 370.602	4960	4951	4965
Cd 226.502	523.655	521.070	523.481
Co 228.615	526.901	525.482	526.852
Cr 267.716	5213.68	5197.97	5199.78
Cu 324.754	5065.23	5112.55	5096.88
Fe 271.441	5019.04	4971.89	5001.41
K 766.491	10141.7	10105.6	10093.3
Mg 279.078	5031.39	5006.06	5031.71
Mn 257.610	5301.95	5290.90	5308.90
Mo 202.032	501.027	499.525	501.205
Na 330.237	7560.98	7270.33	7239.08
Ni 231.604	2602.91	2599.45	2612.34
Pb 220.353	493.817	487.638	494.006
Sb 206.834	954.550	954.442	959.483
Se 196.026	4981.63	4967.67	4977.07
Sn 189.925	5049.57	5019.08	5010.23
Sr 216.596	2530.06	2540.57	2525.36
Ti 334.941	494.788	491.900	492.415
Tl 190.794	4964.39	4947.60	4955.99
V 292.401	4991.93	4970.58	4975.31
Zn 206.200	2629.55	2617.96	2646.95

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	500.348	ppb	2.3997	0.5	40248.1
Al 308.215	4834.72	ppb	23.6707	0.5	14683.8
As 188.980	504.241	ppb	3.1163	0.6	358.639
B 249.678	503.822	ppb	3.6156	0.7	6992.81
Ba 389.178	5015.52	ppb	7.6841	0.2	122034
Be 313.042	520.535	ppb	1.9369	0.4	1002638
Ca 370.602	4959	ppb	7.262	0.1	16336
Cd 226.502	522.735	ppb	1.4448	0.3	21286.7
Co 228.615	526.412	ppb	0.8053	0.2	7085.78
Cr 267.716	5203.81	ppb	8.5952	0.2	275599
Cu 324.754	5091.55	ppb	24.1036	0.5	290066
Fe 271.441	4997.44	ppb	23.8231	0.5	9618.69
K 766.491	10113.5	ppb	25.1454	0.2	405007
Mg 279.078	5023.06	ppb	14.7174	0.3	11614.9
Mn 257.610	5300.58	ppb	9.0793	0.2	1417811
Mo 202.032	500.586	ppb	0.9232	0.2	4102.77
Na 330.237	7356.80	ppb	177.515	2.4	433.181
Ni 231.604	2604.90	ppb	6.6739	0.3	8025.72
Pb 220.353	491.820	ppb	3.6231	0.7	1063.78
Sb 206.834	956.159	ppb	2.8798	0.3	1105.36
Se 196.026	4975.46	ppb	7.1163	0.1	2478.76
Sn 189.925	5026.29	ppb	20.6374	0.4	5123.11
Sr 216.596	2532.00	ppb	7.7846	0.3	32564.8
Ti 334.941	493.034	ppb	1.5399	0.3	156270
Tl 190.794	4956.00	ppb	8.3943	0.2	5556.97
V 292.401	4979.27	ppb	11.2104	0.2	146921
Zn 206.200	2631.49	ppb	14.5901	0.6	4223.42

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

CCB (Samp) 5/2/2013, 1:40:28 AM Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1398	-0.0920u	-0.0305u
Al 308.215	-3.5665u	-2.2048u	-1.1498u
As 188.980	0.0115	-2.1961u	-6.2000u
B 249.678	-7.7724u	-8.0309u	-9.1427u
Ba 389.178	0.2756	-0.1267u	0.2903
Be 313.042	-0.0425u	-0.0379u	-0.0375u
Ca 370.602	-0.8854u	0.6801	-2.013u
Cd 226.502	0.0680	0.0534	0.1241
Co 228.615	0.2649	-0.3284u	-0.2183u
Cr 267.716	0.1886	0.0037	-0.0913u
Cu 324.754	-0.2527u	0.0257	-0.2536u
Fe 271.441	3.6819	5.2177	7.3092
K 766.491	-0.4055u	0.3542	-1.7182u
Mg 279.078	0.7885	3.3908	-0.0372u
Mn 257.610	-0.0220u	0.0203	0.0145
Mo 202.032	0.1524	0.0405	0.4543
Na 330.237	81.7140	-15.1199u	138.257
Ni 231.604	2.0952	-0.0285u	0.6591
Pb 220.353	-0.0488u	2.0386	3.4090
Sb 206.834	3.5626	10.7700	7.5647
Se 196.026	2.6066	-1.0814u	5.3947
Sn 189.925	2.0096	1.7895	-1.0606u
Sr 216.596	-0.5993u	-0.1986u	-0.3517u
Ti 334.941	-0.0289u	0.0591	-0.0014u
Tl 190.794	2.9857	1.1730	0.1968
V 292.401	-0.0652u	0.0123	0.0731
Zn 206.200	0.1923	0.1987	0.4983

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0058	ppb	0.1201	2086.9	-22.6635
Al 308.215	-2.3070	ppb	1.2116	52.5	-10.4844
As 188.980	-2.7949	ppb	3.1488	112.7	-11.8667
B 249.678	-8.3153	ppb	0.7281	8.8	224.853
Ba 389.178	0.1464	ppb	0.2366	161.6	-1.1240
Be 313.042	-0.0393	ppb	0.0028	7.1	-390.317
Ca 370.602	-0.7394	ppb	1.352	182.9	9.618
Cd 226.502	0.0818	ppb	0.0373	45.6	34.9297
Co 228.615	-0.0939	ppb	0.3156	336.0	10.8653
Cr 267.716	0.0337	ppb	0.1423	422.8	11.4441
Cu 324.754	-0.1602	ppb	0.1610	100.5	187.759
Fe 271.441	5.4029	ppb	1.8207	33.7	115.839
K 766.491	-0.5898	ppb	1.0484	177.8	295.216
Mg 279.078	1.3807	ppb	1.7891	129.6	37.5614
Mn 257.610	0.0043	ppb	0.0229	537.1	68.6709
Mo 202.032	0.2157	ppb	0.2140	99.2	20.8856
Na 330.237	68.2836	ppb	77.5654	113.6	72.6717
Ni 231.604	0.9086	ppb	1.0836	119.3	-4.6150
Pb 220.353	1.7996	ppb	1.7412	96.8	39.2853
Sb 206.834	7.2991	ppb	3.6110	49.5	28.7925
Se 196.026	2.3066	ppb	3.2485	140.8	6.6698
Sn 189.925	0.9128	ppb	1.7126	187.6	-10.9043
Sr 216.596	-0.3832	ppb	0.2022	52.8	18.1633
Ti 334.941	0.0096	ppb	0.0450	469.0	-16.6992
Tl 190.794	1.4518	ppb	1.4152	97.5	-16.1915
V 292.401	0.0067	ppb	0.0693	1028.0	-5.6958
Zn 206.200	0.2964	ppb	0.1748	59.0	0.1224

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

680-89670-a-1-a (Samp) 5/2/2013, 1:45:55 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1749u	-0.3324u	-0.1057u
Al 308.215	2.8104	1.2244	6.9811
As 188.980	44.6102	48.6542	41.8110
B 249.678	-8.4317u	-8.4610u	-8.6093u
Ba 389.178	-0.3528u	-1.1933u	-0.0429
Be 313.042	-0.0518u	-0.0439u	-0.0472u
Ca 370.602	3333	3331	3316
Cd 226.502	0.1001	0.0382	0.1293
Co 228.615	2.0299	2.3048	1.8612
Cr 267.716	1.4629	1.5837	1.7025
Cu 324.754	1.8347	1.6747	2.1673
Fe 271.441	56.7025	60.4695	61.4545
K 766.491	375.220	375.305	374.231
Mg 279.078	1427.62	1431.18	1421.18
Mn 257.610	6.2699	6.2830	6.2423
Mo 202.032	-0.4784u	-0.8505u	-1.1314u
Na 330.237	68645.4	68487.2	68242.6
Ni 231.604	-0.0704u	-0.2309u	1.1368
Pb 220.353	0.0101	-0.3083u	-2.7751u
Sb 206.834	4.6650	1.9153	2.0828
Se 196.026	48.4049	57.3249	52.4290
Sn 189.925	30.9279	29.9362	27.6014
Sr 216.596	18.8701	19.7134	19.5177
Ti 334.941	-0.0543u	-0.0806u	-0.1108u
Tl 190.794	8.6512	6.6693	9.8750
V 292.401	0.1593	0.0390	0.3106
Zn 206.200	2.6529	4.5149	5.5727

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2043	ppb	0.1162	56.9	-40.5479
Al 308.215	3.6719	ppb	2.9735	81.0	7.5782
As 188.980	45.0251	ppb	3.4404	7.6	23.1265
B 249.678	-8.5007	ppb	0.0952	1.1	222.333
Ba 389.178	-0.5297	ppb	0.5952	112.4	-13.5912
Be 313.042	-0.0477	ppb	0.0040	8.3	-412.858
Ca 370.602	3327	ppb	9.466	0.3	11046
Cd 226.502	0.0892	ppb	0.0465	52.1	35.0278
Co 228.615	2.0653	ppb	0.2239	10.8	39.8769
Cr 267.716	1.5830	ppb	0.1198	7.6	94.8448
Cu 324.754	1.8922	ppb	0.2513	13.3	304.588
Fe 271.441	59.5422	ppb	2.5081	4.2	217.748
K 766.491	374.919	ppb	0.5972	0.2	15321.0
Mg 279.078	1426.66	ppb	5.0660	0.4	3350.13
Mn 257.610	6.2651	ppb	0.0208	0.3	1752.58
Mo 202.032	-0.8201	ppb	0.3276	39.9	12.4100
Na 330.237	68458.4	ppb	202.945	0.3	3696.62
Ni 231.604	0.2785	ppb	0.7476	268.4	-6.5568
Pb 220.353	-1.0245	ppb	1.5244	148.8	33.3848
Sb 206.834	2.8877	ppb	1.5414	53.4	24.0827
Se 196.026	52.7196	ppb	4.4671	8.5	31.7177
Sn 189.925	29.4885	ppb	1.7078	5.8	18.3196
Sr 216.596	19.3671	ppb	0.4413	2.3	273.077
Ti 334.941	-0.0819	ppb	0.0283	34.5	-44.2354
Tl 190.794	8.3985	ppb	1.6177	19.3	-8.3801
V 292.401	0.1696	ppb	0.1361	80.2	-1.1822
Zn 206.200	4.2468	ppb	1.4783	34.8	6.5030



E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

680-89670-a-2-a (Samp) 5/2/2013, 1:51:22 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0985	-0.2603u	-0.1554u
Al 308.215	2.8001	4.8748	3.7011
As 188.980	35.2162	39.5714	37.5955
B 249.678	-11.0304u	-10.6618u	-11.4276u
Ba 389.178	-1.0093u	-0.6185u	-0.9361u
Be 313.042	-0.0475u	-0.0414u	-0.0479u
Ca 370.602	3059	3052	3033
Cd 226.502	0.2331	0.0561	0.0895
Co 228.615	1.7829	2.0662	1.9917
Cr 267.716	1.3640	1.4480	1.3065
Cu 324.754	2.0211	2.0584	2.1246
Fe 271.441	58.3898	59.2102	53.7381
K 766.491	350.335	350.880	349.879
Mg 279.078	1310.96	1306.96	1298.86
Mn 257.610	5.8664	5.7826	5.7802
Mo 202.032	-0.8157u	0.1769	-1.3007u
Na 330.237	62999.9	63267.8	63073.1
Ni 231.604	1.6998	0.0645	0.5490
Pb 220.353	0.4947	-0.6530u	2.0246
Sb 206.834	-7.0038u	4.0542	3.4787
Se 196.026	39.7582	48.4407	41.9916
Sn 189.925	24.9492	25.3087	28.5401
Sr 216.596	16.9898	17.2930	16.9822
Ti 334.941	-0.0556u	-0.0738u	-0.0531u
Tl 190.794	13.9396	6.7303	8.0460
V 292.401	0.0848	0.0343	0.2885
Zn 206.200	10.6974	10.1447	10.0989

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1057	ppb	0.1845	174.4	-32.4865
Al 308.215	3.7920	ppb	1.0403	27.4	7.9565
As 188.980	37.4611	ppb	2.1807	5.8	17.5938
B 249.678	-11.0399	ppb	0.3830	3.5	188.746
Ba 389.178	-0.8546	ppb	0.2077	24.3	-21.8322
Be 313.042	-0.0456	ppb	0.0036	8.0	-408.403
Ca 370.602	3048	ppb	13.83	0.5	10121
Cd 226.502	0.1262	ppb	0.0940	74.5	36.5534
Co 228.615	1.9469	ppb	0.1469	7.5	38.2846
Cr 267.716	1.3728	ppb	0.0712	5.2	83.6096
Cu 324.754	2.0680	ppb	0.0524	2.5	314.603
Fe 271.441	57.1127	ppb	2.9512	5.2	213.170
K 766.491	350.365	ppb	0.5012	0.1	14338.5
Mg 279.078	1305.59	ppb	6.1682	0.5	3068.75
Mn 257.610	5.8098	ppb	0.0491	0.8	1630.00
Mo 202.032	-0.6465	ppb	0.7532	116.5	13.8300
Na 330.237	63113.6	ppb	138.482	0.2	3413.35
Ni 231.604	0.7711	ppb	0.8400	108.9	-5.0378
Pb 220.353	0.6221	ppb	1.3434	215.9	36.8267
Sb 206.834	0.1764	ppb	6.2248	3529.4	21.1530
Se 196.026	43.3968	ppb	4.5086	10.4	27.0858
Sn 189.925	26.2660	ppb	1.9776	7.5	15.0251
Sr 216.596	17.0883	ppb	0.1773	1.0	243.680
Ti 334.941	-0.0608	ppb	0.0113	18.6	-37.7251
Tl 190.794	9.5720	ppb	3.8392	40.1	-7.0579
V 292.401	0.1359	ppb	0.1346	99.0	-2.1645
Zn 206.200	10.3137	ppb	0.3331	3.2	16.3009

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

X (Samp) 5/2/2013, 1:57:00 AM Rack 3, Tube 46

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1698u	-0.3980u	-0.0296u
Al 308.215	0.8535	0.2711	-2.6823u
As 188.980	-6.7999u	1.0069	-3.3455u
B 249.678	-16.3634u	-16.6079u	-16.9452u
Ba 389.178	1.2468	-0.0567u	-0.1919u
Be 313.042	-0.0484u	-0.0399u	-0.0398u
Ca 370.602	4.408	2.748	2.378
Cd 226.502	-0.1504u	-0.0327u	-0.1099u
Co 228.615	-0.1628u	0.1475	-0.1867u
Cr 267.716	-0.1612u	-0.1606u	-0.0582u
Cu 324.754	-0.2665u	-0.0531u	0.1515
Fe 271.441	-2.5971u	7.5974	-2.8587u
K 766.491	-1.2577u	-1.0916u	-1.6090u
Mg 279.078	2.5133	5.1381	3.4347
Mn 257.610	-0.0706u	-0.1049u	-0.0824u
Mo 202.032	-0.7384u	-0.3473u	0.1802
Na 330.237	51.5365	40.5206	-275.297u
Ni 231.604	-0.0694u	1.0027	1.4589
Pb 220.353	-0.3288u	1.3565	-1.4169u
Sb 206.834	4.1356	-1.3046u	0.4018
Se 196.026	-5.3347u	-0.0709u	2.8553
Sn 189.925	-2.5711u	-2.9453u	-1.9289u
Sr 216.596	-0.5121u	-0.3388u	-0.3059u
Ti 334.941	-0.0956u	-0.0646u	-0.1497u
Tl 190.794	1.4787	4.6223	-2.2721u
V 292.401	-0.6132u	-0.2306u	-0.1436u
Zn 206.200	0.0211	0.1632	-0.3678u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1991	ppb	0.1859	93.4	-39.1804
Al 308.215	-0.5192	ppb	1.8958	365.1	-5.0750
As 188.980	-3.0462	ppb	3.9120	128.4	-12.0501
B 249.678	-16.6389	ppb	0.2921	1.8	114.757
Ba 389.178	0.3327	ppb	0.7945	238.8	3.4014
Be 313.042	-0.0427	ppb	0.0049	11.5	-396.746
Ca 370.602	3.178	ppb	1.081	34.0	23.12
Cd 226.502	-0.0977	ppb	0.0598	61.2	27.6164
Co 228.615	-0.0674	ppb	0.1864	276.8	11.2375
Cr 267.716	-0.1267	ppb	0.0593	46.8	2.9533
Cu 324.754	-0.0560	ppb	0.2090	373.1	193.679
Fe 271.441	0.7139	ppb	5.9627	835.3	107.044
K 766.491	-1.3194	ppb	0.2641	20.0	266.021
Mg 279.078	3.6954	ppb	1.3317	36.0	42.9417
Mn 257.610	-0.0860	ppb	0.0174	20.3	44.5277
Mo 202.032	-0.3018	ppb	0.4610	152.7	16.6534
Na 330.237	-61.0799	ppb	185.599	303.9	65.8232
Ni 231.604	0.7974	ppb	0.7846	98.4	-4.9581
Pb 220.353	-0.1297	ppb	1.3973	1077.0	35.2525
Sb 206.834	1.0776	ppb	2.7824	258.2	22.0869
Se 196.026	-0.8501	ppb	4.1502	488.2	5.1014
Sn 189.925	-2.4818	ppb	0.5140	20.7	-14.3723
Sr 216.596	-0.3856	ppb	0.1108	28.7	18.1661
Ti 334.941	-0.1033	ppb	0.0431	41.7	-52.4615
Tl 190.794	1.2763	ppb	3.4517	270.4	-16.3887
V 292.401	-0.3292	ppb	0.2499	75.9	-15.5395
Zn 206.200	-0.0612	ppb	0.2749	449.2	-0.4553

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

X (Samp) 5/2/2013, 2:02:28 AM Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3823u	-0.1764u	-0.2205u
Al 308.215	-0.5021u	-3.5219u	1.1188
As 188.980	-3.0225u	-1.2665u	-5.9049u
B 249.678	-16.3582u	-16.6470u	-17.1023u
Ba 389.178	-0.6510u	0.9343	-0.2947u
Be 313.042	-0.0486u	-0.0437u	-0.0374u
Ca 370.602	-1.153u	-1.142u	-1.144u
Cd 226.502	-0.1666u	0.0483	-0.0542u
Co 228.615	-0.6485u	-0.3830u	0.1654
Cr 267.716	-0.1230u	-0.0569u	0.0605
Cu 324.754	0.2032	0.2339	0.1759
Fe 271.441	0.8661	-4.0841u	1.1848
K 766.491	-0.2886u	-1.1291u	-0.4300u
Mg 279.078	3.0969	2.3019	5.2949
Mn 257.610	-0.0720u	-0.0817u	-0.0104u
Mo 202.032	-0.7169u	0.0141	-0.0379u
Na 330.237	-154.709u	81.4111	-14.1894u
Ni 231.604	0.9624	0.6921	0.5405
Pb 220.353	0.9468	-1.1066u	1.0824
Sb 206.834	5.6180	3.7704	2.5432
Se 196.026	0.3285	-7.4151u	3.3578
Sn 189.925	-2.5777u	1.2096	-0.7300u
Sr 216.596	0.4056	-0.5664u	0.0921
Ti 334.941	-0.1046u	-0.0878u	-0.1255u
Tl 190.794	2.5942	1.5406	3.9437
V 292.401	-0.1364u	-0.0633u	-0.1437u
Zn 206.200	0.1709	1.2055	-0.1880u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2597	ppb	0.1084	41.7	-44.0742
Al 308.215	-0.9684	ppb	2.3552	243.2	-6.4494
As 188.980	-3.3980	ppb	2.3418	68.9	-12.3073
B 249.678	-16.7025	ppb	0.3752	2.2	113.915
Ba 389.178	-0.0038	ppb	0.8317	21883.9	-4.7856
Be 313.042	-0.0432	ppb	0.0057	13.1	-397.807
Ca 370.602	-1.146	ppb	0.0062	0.5	8.792
Cd 226.502	-0.0575	ppb	0.1075	186.9	29.2469
Co 228.615	-0.2887	ppb	0.4151	143.8	8.2695
Cr 267.716	-0.0398	ppb	0.0929	233.7	7.5534
Cu 324.754	0.2043	ppb	0.0290	14.2	208.497
Fe 271.441	-0.6777	ppb	2.9543	435.9	104.399
K 766.491	-0.6159	ppb	0.4500	73.1	294.173
Mg 279.078	3.5646	ppb	1.5504	43.5	42.6368
Mn 257.610	-0.0547	ppb	0.0387	70.7	52.8981
Mo 202.032	-0.2469	ppb	0.4079	165.2	17.1023
Na 330.237	-29.1625	ppb	118.770	407.3	67.5112
Ni 231.604	0.7317	ppb	0.2138	29.2	-5.1608
Pb 220.353	0.3075	ppb	1.2266	398.8	36.1669
Sb 206.834	3.9772	ppb	1.5478	38.9	25.2167
Se 196.026	-1.2429	ppb	5.5557	447.0	4.9062
Sn 189.925	-0.6994	ppb	1.8938	270.8	-12.5513
Sr 216.596	-0.0229	ppb	0.4961	2165.6	22.8402
Ti 334.941	-0.1060	ppb	0.0189	17.9	-53.3064
Tl 190.794	2.6928	ppb	1.2046	44.7	-14.7935
V 292.401	-0.1145	ppb	0.0445	38.9	-9.1716
Zn 206.200	0.3961	ppb	0.7235	182.6	43.2829

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

X (Samp) 5/2/2013, 2:07:55 AM Rack 3, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0733u	0.3544	-0.2352u
Al 308.215	1.4095	0.1176	2.3251
As 188.980	0.1395	-5.6080u	-0.0384u
B 249.678	-17.4857u	-17.7003u	-17.1370u
Ba 389.178	-0.2473u	-0.5452u	-0.5673u
Be 313.042	-0.0423u	-0.0490u	-0.0442u
Ca 370.602	2.510	1.925	3.030
Cd 226.502	0.1632	-0.0636u	0.1883
Co 228.615	0.1606	-0.1067u	-0.1027u
Cr 267.716	0.0192	-0.1273u	-0.0356u
Cu 324.754	0.1833	-0.1922u	0.0117
Fe 271.441	1.4649	4.1511	2.5673
K 766.491	-0.2201u	-0.9046u	-0.2865u
Mg 279.078	1.1962	3.6831	0.9741
Mn 257.610	-0.0795u	-0.1333u	-0.0543u
Mo 202.032	-0.1649u	-0.3038u	-0.1137u
Na 330.237	26.4074	-3.2224u	147.527
Ni 231.604	0.3221	0.3611	0.2463
Pb 220.353	0.4833	-1.9946u	1.0993
Sb 206.834	1.5816	4.2123	2.2400
Se 196.026	-3.6710u	-0.9137u	1.1444
Sn 189.925	3.3432	0.2025	0.0656
Sr 216.596	-1.0627u	-0.2371u	-0.0508u
Ti 334.941	-0.0938u	-0.0784u	-0.0603u
Tl 190.794	1.2532	0.2024	1.7087
V 292.401	-0.3504u	-0.3645u	-0.1724u
Zn 206.200	-1.3277u	0.6973	0.1352

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0153	ppb	0.3046	1987.9	-21.8868
Al 308.215	1.2841	ppb	1.1091	86.4	0.4066
As 188.980	-1.8357	ppb	3.2682	178.0	-11.1652
B 249.678	-17.4410	ppb	0.2843	1.6	104.144
Ba 389.178	-0.4533	ppb	0.1787	39.4	-15.7204
Be 313.042	-0.0452	ppb	0.0035	7.7	-401.559
Ca 370.602	2.489	ppb	0.5530	22.2	20.73
Cd 226.502	0.0960	ppb	0.1388	144.6	35.4875
Co 228.615	-0.0163	ppb	0.1532	941.0	11.9211
Cr 267.716	-0.0479	ppb	0.0741	154.6	7.1244
Cu 324.754	0.0009	ppb	0.1880	20633.2	196.920
Fe 271.441	2.7277	ppb	1.3503	49.5	110.830
K 766.491	-0.4704	ppb	0.3775	80.2	299.994
Mg 279.078	1.9511	ppb	1.5040	77.1	38.8876
Mn 257.610	-0.0890	ppb	0.0403	45.3	43.7061
Mo 202.032	-0.1941	ppb	0.0984	50.7	17.5341
Na 330.237	56.9041	ppb	79.8679	140.4	72.0739
Ni 231.604	0.3098	ppb	0.0584	18.8	-6.4617
Pb 220.353	-0.1373	ppb	1.6377	1192.7	35.2367
Sb 206.834	2.6779	ppb	1.3689	51.1	23.8143
Se 196.026	-1.1467	ppb	2.4161	210.7	4.9540
Sn 189.925	1.2038	ppb	1.8541	154.0	-10.6070
Sr 216.596	-0.4502	ppb	0.5385	119.6	17.3310
Ti 334.941	-0.0775	ppb	0.0168	21.7	-44.2963
Tl 190.794	1.0547	ppb	0.7725	73.2	-16.6381
V 292.401	-0.2958	ppb	0.1071	36.2	-14.5563
Zn 206.200	-0.1651	ppb	1.0454	633.4	-0.6232

E05012013.wvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Verif (CCV) 5/2/2013, 2:13:22 AM Rack 3, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.290	501.544	508.205
Al 308.215	4877.45	4882.49	4862.21
As 188.980	499.435	508.679	506.368
B 249.678	498.660	503.292	504.800
Ba 389.178	4994.03	5024.00	5008.54
Be 313.042	519.980	521.201	520.966
Ca 370.602	4945	4982	4965
Cd 226.502	520.881	523.782	521.390
Co 228.615	528.055	529.680	527.039
Cr 267.716	5188.02	5220.20	5193.67
Cu 324.754	5164.11	5137.76	5194.40
Fe 271.441	5003.95	5017.02	4982.70
K 766.491	10031.0	10052.7	10047.5
Mg 279.078	5013.53	5044.86	5020.81
Mn 257.610	5301.12	5323.06	5308.92
Mo 202.032	498.966	501.347	499.369
Na 330.237	7281.60	7155.33	6986.35
Ni 231.604	2602.15	2621.94	2608.22
Pb 220.353	493.568	491.432	489.519
Sb 206.834	934.227	944.150	943.432
Se 196.026	4986.94	4959.00	4985.56
Sn 189.925	5023.86	5058.54	5004.30
Sr 216.596	2523.83	2538.49	2528.22
Ti 334.941	489.606	493.098	491.049
Tl 190.794	4945.60	4980.22	4954.66
V 292.401	4962.82	4970.70	4962.23
Zn 206.200	2623.60	2643.58	2628.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.680	ppb	6.4587	1.3	40356.0	100.33594
Al 308.215	4874.05	ppb	10.5622	0.2	14803.3	97.48100
As 188.980	504.827	ppb	4.8110	1.0	359.069	100.96543
B 249.678	502.251	ppb	3.1995	0.6	6972.04	20.09003Q
Ba 389.178	5008.85	ppb	14.9871	0.3	121872	100.17709
Be 313.042	520.716	ppb	0.6481	0.1	1002988	104.14317
Ca 370.602	4964	ppb	18.58	0.4	16355	99.28791
Cd 226.502	522.018	ppb	1.5492	0.3	21257.6	104.40356
Co 228.615	528.258	ppb	1.3323	0.3	7110.61	105.65160
Cr 267.716	5200.63	ppb	17.1796	0.3	275431	104.01263
Cu 324.754	5165.43	ppb	28.3417	0.5	294273	103.30852
Fe 271.441	5001.22	ppb	17.3235	0.3	9625.96	100.02444
K 766.491	10043.7	ppb	11.3018	0.1	402214	100.43739
Mg 279.078	5026.40	ppb	16.3944	0.3	11622.5	100.52803
Mn 257.610	5311.03	ppb	11.1184	0.2	1420606	106.22066
Mo 202.032	499.894	ppb	1.2742	0.3	4097.14	99.97884
Na 330.237	7141.09	ppb	148.136	2.1	421.779	95.21458
Ni 231.604	2610.77	ppb	10.1398	0.4	8043.82	104.43077
Pb 220.353	491.506	ppb	2.0256	0.4	1063.13	98.30122
Sb 206.834	940.603	ppb	5.5336	0.6	1088.60	94.06026
Se 196.026	4977.17	ppb	15.7504	0.3	2479.61	99.54330
Sn 189.925	5028.90	ppb	27.4712	0.5	5125.77	100.57801
Sr 216.596	2530.18	ppb	7.5234	0.3	32541.5	101.20721
Ti 334.941	491.251	ppb	1.7548	0.4	155704	98.25021
Tl 190.794	4960.16	ppb	17.9570	0.4	5561.64	99.20320
V 292.401	4965.25	ppb	4.7266	0.1	146506	99.30500
Zn 206.200	2631.81	ppb	10.4519	0.4	4223.95	105.27249

E05012013.vvq. All Data Report 5/2/2013, 9:28:15 AM

Cont Calib Blank (CCB) 5/2/2013, 2:18:49 AM Rack 3, Tube 50

Weight: 1 Volume: 1 Dilution: 1

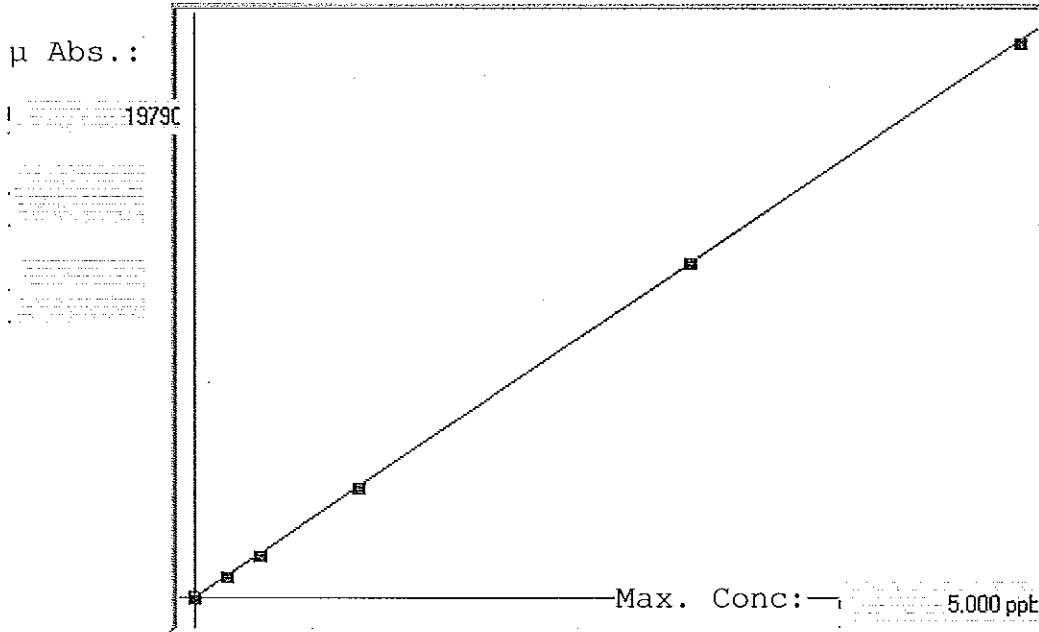
Label	Replicates Concentration		
Ag 328.068	0.0198	0.2190	0.0191
Al 308.215	0.4160	-2.1503u	0.0690
As 188.980	6.1842	-3.4189u	4.1916
B 249.678	-7.1372u	-7.5934u	-8.5582u
Ba 389.178	0.2402	-0.3117u	-0.4308u
Be 313.042	-0.0350u	-0.0431u	-0.0416u
Ca 370.602	2.110	-1.398u	-0.6153u
Cd 226.502	-0.0592u	-0.1161u	0.0878
Co 228.615	0.0397	-0.0827u	-0.0664u
Cr 267.716	-0.0586u	0.1388	0.1148
Cu 324.754	-0.0543u	0.2078	0.2401
Fe 271.441	3.3060	1.6039	2.1567
K 766.491	-0.8577u	-0.6060u	-0.2307u
Mg 279.078	0.0162	6.6588	3.7443
Mn 257.610	0.0205	-0.0225u	-0.0033u
Mo 202.032	0.2507	0.1480	0.1521
Na 330.237	-20.8225u	-19.6093u	83.5003
Ni 231.604	0.6828	-0.2600u	0.1976
Pb 220.353	1.2688	1.4432	-1.5405u
Sb 206.834	12.0194	14.8214	13.0115
Se 196.026	-3.1491u	5.2643	-1.3356u
Sn 189.925	1.2259	0.1412	-2.4528u
Sr 216.596	0.0580	0.1488	0.2012
Ti 334.941	-0.0170u	-0.0302u	0.0098
Tl 190.794	3.0893	3.0500	-0.4753u
V 292.401	0.2547	0.1910	-0.0190u
Zn 206.200	-1.4478u	1.2357	0.4045

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0859	ppb	0.1152	134.1	-16.2238	0.08593
Al 308.215	-0.5551	ppb	1.3924	250.8	-5.1606	-0.55512
As 188.980	2.3190	ppb	5.0681	218.5	-8.1281	2.31897
B 249.678	-7.7629	ppb	0.7255	9.3	232.165	-7.76294
Ba 389.178	-0.1674	ppb	0.3580	213.8	-8.7592	-0.16744
Be 313.042	-0.0399	ppb	0.0043	10.8	-391.480	-0.03991
Ca 370.602	0.0323	ppb	1.842	5697.3	12.50	0.03232
Cd 226.502	-0.0292	ppb	0.1052	360.3	30.4058	-0.02919
Co 228.615	-0.0364	ppb	0.0665	182.4	11.6387	-0.03645
Cr 267.716	0.0650	ppb	0.1077	165.7	13.1021	0.06500
Cu 324.754	0.1312	ppb	0.1615	123.1	204.347	0.13119
Fe 271.441	2.3555	ppb	0.8683	36.9	110.135	2.35554
K 766.491	-0.5648	ppb	0.3155	55.9	296.217	-0.56480
Mg 279.078	3.4731	ppb	3.3296	95.9	42.4240	3.47307
Mn 257.610	-0.0018	ppb	0.0215	1192.0	67.0431	-0.00181
Mo 202.032	0.1836	ppb	0.0581	31.7	20.6227	0.18358
Na 330.237	14.3562	ppb	59.8837	417.1	69.8213	14.35623
Ni 231.604	0.2068	ppb	0.4715	228.0	-6.7793	0.20680
Pb 220.353	0.3905	ppb	1.6746	428.9	36.3394	0.39048
Sb 206.834	13.2841	ppb	1.4207	10.7	35.2466	13.28408Z
Se 196.026	0.2599	ppb	4.4278	1703.9	5.6529	0.25986
Sn 189.925	-0.3619	ppb	1.8903	522.3	-12.2065	-0.36190
Sr 216.596	0.1360	ppb	0.0725	53.3	24.8622	0.13602
Ti 334.941	-0.0125	ppb	0.0204	163.7	-23.6784	-0.01246
Tl 190.794	1.8880	ppb	2.0468	108.4	-15.7000	1.88800
V 292.401	0.1422	ppb	0.1432	100.7	-1.6842	0.14223
Zn 206.200	0.0641	ppb	1.3738	2142.6	40.2533	0.06412



Hg Norm2

Linear



A= 0.0000e+000  
 B= 2.5209e-004  
 C= 3.1767e-003  
 Rho= 0.9999871  
 Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.001	-0.001	-15	1.414	-17	-14	-14		
0.2	0.200	0.208	0.008	813	1.0 %	824	813	804		
0.4	0.400	0.390	-0.010	1535	0.4 %	1535	1529	1543		
1.0	1.000	0.994	-0.006	3931	0.7 %	3897	3929	3967		
3.0	3.000	3.016	0.016	11950	0.4 %	11894	11944	12014		
5.0	5.000	4.992	-0.008	19789	1.1 %	19517	19800	20052		



## C04302013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 30 Apr 2013 11:28:18

Sample ID	Extended ID	Mean	RSD	Date
blank		-15	-9.4281	30 Apr 2013 11:41:42
0.2		814	1.0051	30 Apr 2013 11:44:08
0.4		1536	0.3734	30 Apr 2013 11:46:37
1.0		3931	0.7279	30 Apr 2013 11:49:05
3.0		11951	0.4118	30 Apr 2013 11:51:33
5.0		19790	1.1043	30 Apr 2013 11:54:00
ICV		3.1199	0.9213	30 Apr 2013 11:56:26
ICB		-0.0009	-33.4187	30 Apr 2013 11:58:52
CRA		0.2128	1.2585	30 Apr 2013 12:01:20
CCV		2.5823	0.8665	30 Apr 2013 12:03:48
CCB		0.0023	35.6050	30 Apr 2013 12:06:15
mb 680-274699/1-a	(BCB)	0.0291	2.1640	30 Apr 2013 12:08:41
lb 680-274623/13-b	(BCB)	0.0548	1.0848	30 Apr 2013 12:11:08
lcs 680-274699/3-a	(BCB)	2.6003	0.5648	30 Apr 2013 12:13:34
680-89738-a-2-b	(BCB)	0.0034	10.3977	30 Apr 2013 12:16:01
680-89738-a-2-c ms	(BCB)	0.7787	0.8196	30 Apr 2013 12:18:28
680-89738-a-2-d msd	(BCB)	0.8136	0.1830	30 Apr 2013 12:20:55
89738-1	(BCB)	0.0138	6.8527	30 Apr 2013 12:23:21
680-89720-a-4-b	(BCB)	0.0042	4.9183	30 Apr 2013 12:25:48
lb 680-274576/12-b	(BCB)	0.0121	5.4755	30 Apr 2013 12:28:15
lb2 680-274576/13-b	(BCB)	0.0066	3.5892	30 Apr 2013 12:30:42
CCV		2.5419	1.1598	30 Apr 2013 12:33:09
CCB		0.0018	51.8889	30 Apr 2013 12:35:36
680-89720-a-1-b	(BCB)	0.0109	1.0895	30 Apr 2013 12:38:04
680-89720-a-1-c ms	(BCB)	0.8199	0.0632	30 Apr 2013 12:40:31
680-89720-a-1-d msd	(BCB)	0.8483	0.8280	30 Apr 2013 12:43:00
680-89720-a-3-b	(BCB)	0.0094	5.0596	30 Apr 2013 12:45:29
680-89719-a-1-b	(BCB)	0.0030	19.7495	30 Apr 2013 12:47:57
680-89719-a-2-b	(BCB)	0.1110	0.9148	30 Apr 2013 12:50:23
680-89748-b-1-c	(BCB)	0.0220	2.1607	30 Apr 2013 12:52:51
680-89748-c-2-b	(BCB)	0.0059	6.9191	30 Apr 2013 12:55:18
680-89748-b-3-b	(BCB)	0.0101	6.5724	30 Apr 2013 12:57:44
680-89748-b-6-c	(BCB)	0.0101	7.7407	30 Apr 2013 13:00:11
CCV		2.5723	1.4848	30 Apr 2013 13:02:39
CCB		0.0023	5.2762	30 Apr 2013 13:05:07
680-89748-b-7-b	(BCB)	0.0108	2.1959	30 Apr 2013 13:07:33
mb 680-274711/1-a	(BCB)	0.0080	9.3158	30 Apr 2013 13:10:00
lb 680-274429/21-d	(BCB)	0.0109	13.9098	30 Apr 2013 13:12:28
lcs 680-274711/3-a	(BCB)	2.4566	0.1174	30 Apr 2013 13:14:55
lb2 680-274429/22-b	(BCB)	0.0098	8.4753	30 Apr 2013 13:17:25
680-89654-a-1-b	(BCB)	0.0123	3.4734	30 Apr 2013 13:19:52
680-89654-a-1-c ms	(BCB)	0.7725	0.3478	30 Apr 2013 13:22:19
680-89654-a-1-d msd	(BCB)	0.8683	0.3751	30 Apr 2013 13:24:45
680-89660-a-1-m	(BCB)	0.0096	9.6211	30 Apr 2013 13:27:13
680-89666-a-2-b	(BCB)	0.0044	8.0347	30 Apr 2013 13:29:40
CCV		2.6253	0.5658	30 Apr 2013 13:32:08
CCB		0.0017	56.6812	30 Apr 2013 13:34:36
lb 680-274304/13-b	(BCB)	0.0081	3.9055	30 Apr 2013 13:37:02
680-89596-a-1-c	(BCB)	0.0035	6.7660	30 Apr 2013 13:39:30
680-89596-a-2-c	(BCB)	0.0026	18.3642	30 Apr 2013 13:41:57
680-89596-a-2-d ms	(BCB)	0.6598	0.3156	30 Apr 2013 13:44:25
680-89596-a-2-e msd	(BCB)	0.4980	0.9204	30 Apr 2013 13:46:52
680-89605-b-1-b	(BCB)	0.0076	6.7887	30 Apr 2013 13:49:19
mb 680-274733/1-a	(BCB)	0.0070	6.0845	30 Apr 2013 13:51:48
lcs 680-274733/2-a	(BCB)	1.4675	0.1809	30 Apr 2013 13:54:16
llcs 680-274733/3-a	(BCB)	0.1917	1.6121	30 Apr 2013 13:56:43
680-89700-g-1-a	(BCB)	0.0044	4.6389	30 Apr 2013 13:59:10
CCV		2.5168	0.1708	30 Apr 2013 14:01:36
CCB		0.0012	58.1093	30 Apr 2013 14:04:05
680-89700-g-1-b MS	(BCB)	1.0147	0.7925	30 Apr 2013 14:06:30

## C04302013

Method: Hg Norm2

Operator: Adm'n

Date of Analysis: 30 Apr 2013 11:28:18

Sample ID	Extended ID	Mean	RSD	Date
680-89700-g-1-c MSD	(BCB)	0.9676	0.5536	30 Apr 2013 14:08:57
500-56318-k-1-a	(BCB)	0.0044	10.9198	30 Apr 2013 14:11:24
680-89528-b-1-h	(BCB)	0.1404	0.6928	30 Apr 2013 14:13:51
680-89528-b-2-d	(BCB)	0.2583	0.2761	30 Apr 2013 14:16:19
680-89703-f-1-a	(BCB)	-0.0064	-8.5053	30 Apr 2013 14:18:46
680-89640-c-5-a	(BCB)	0.0054	7.9917	30 Apr 2013 14:21:14
680-89655-b-1-a	(BCB)	0.0302	1.8062	30 Apr 2013 14:23:42
680-89695-c-35-a	(BCB)	0.0044	12.2733	30 Apr 2013 14:26:10
680-89761-a-3-a	(BCB)	0.0757	0.6843	30 Apr 2013 14:28:38
CCV		2.5269	0.7818	30 Apr 2013 14:31:05
CCB		0.0011	22.0907	30 Apr 2013 14:33:32
680-89761-a-5-a	(BCB)	0.1939	1.2210	30 Apr 2013 14:35:59
680-89761-b-1-a	(BCB)	0.2052	0.0579	30 Apr 2013 14:38:26
680-89761-b-1-b ms	(BCB)	1.1748	0.1243	30 Apr 2013 14:40:53
680-89761-b-1-c msd	(BCB)	1.0901	1.0483	30 Apr 2013 14:43:22
mb 680-274764/1-a	(BCB)	0.0029	32.2522	30 Apr 2013 14:45:51
lcs 680-274764/2-a	(BCB)	2.7086	1.1278	30 Apr 2013 14:48:18
640-43317-a-15-a	(BCB)	0.0134	3.5399	30 Apr 2013 14:50:45
640-43317-a-17-a	(BCB)	0.1659	0.5015	30 Apr 2013 14:53:13
640-43317-a-19-a	(BCB)	0.0059	10.7205	30 Apr 2013 14:55:40
640-43317-a-21-a	(BCB)	0.0025	26.4196	30 Apr 2013 14:58:08
CCV		2.5185	0.7368	30 Apr 2013 15:00:37
CCB		0.0033	7.1059	30 Apr 2013 15:03:05
640-43317-a-24-a	(BCB)	0.0025	18.9804	30 Apr 2013 15:05:31
640-43317-a-24-b ms	(BCB)	0.9585	0.4475	30 Apr 2013 15:08:00
640-43317-a-24-c msd	(BCB)	0.9590	1.2974	30 Apr 2013 15:10:28
640-43317-i-25-a	(BCB)	0.0207	1.5222	30 Apr 2013 15:12:55
640-43317-i-26-a	(BCB)	0.1467	0.1620	30 Apr 2013 15:15:23
640-43317-a-31-a	(BCB)	0.0453	0.7874	30 Apr 2013 15:17:50
680-89692-n-1-a	(BCB)	5.2212	0.6539	30 Apr 2013 15:20:19
680-89736-f-13-a	(BCB)	-0.0150	-2.7492	30 Apr 2013 15:22:47
680-89736-f-14-a	(BCB)	0.0118	1.0044	30 Apr 2013 15:25:15
680-89736-f-15-a	(BCB)	0.0023	13.9595	30 Apr 2013 15:27:43
CCV		2.5461	2.0174	30 Apr 2013 15:30:10
CCB		0.0037	11.1839	30 Apr 2013 15:32:38
680-89736-f-16-a	(BCB)	0.0034	10.3977	30 Apr 2013 15:35:05
680-89736-f-17-a	(BCB)	0.0055	2.1491	30 Apr 2013 15:37:33
680-89736-f-18-a	(BCB)	0.0045	9.4771	30 Apr 2013 15:40:02
680-89736-f-19-a	(BCB)	0.0073	4.3105	30 Apr 2013 15:42:30
680-89736-f-20-a	(BCB)	0.0096	10.0832	30 Apr 2013 15:44:58
680-89736-f-21-a	(BCB)	0.0085	7.2899	30 Apr 2013 15:47:26
680-89736-f-22-a	(BCB)	0.0074	11.6146	30 Apr 2013 15:49:55
680-89736-b-23-a	(BCB)	0.0055	2.1491	30 Apr 2013 15:52:22
mb 680-274772/1-a	(BCB)	0.0570	0.7512	30 Apr 2013 15:54:50
lcs 680-274772/2-a	(BCB)	2.5872	0.1623	30 Apr 2013 15:57:18
CCV		2.5701	1.3391	30 Apr 2013 15:59:46
CCB		0.0055	9.3679	30 Apr 2013 16:02:13
680-89775-f-2-a	(BCB)	0.0079	7.9776	30 Apr 2013 16:04:40
680-89775-f-2-b ms	(BCB)	1.0065	1.1944	30 Apr 2013 16:07:08
680-89775-f-2-c msd	(BCB)	1.0221	0.8867	30 Apr 2013 16:09:37
680-89775-f-3-a	(BCB)	0.0083	3.7870	30 Apr 2013 16:12:05
680-89775-f-4-a	(BCB)	0.0094	1.2649	30 Apr 2013 16:14:34
680-89775-f-5-a	(BCB)	0.0040	26.2946	30 Apr 2013 16:17:02
680-89775-f-6-a	(BCB)	0.0057	9.5581	30 Apr 2013 16:19:30
680-89775-f-7-a	(BCB)	0.0056	18.4553	30 Apr 2013 16:21:57
680-89775-f-8-a	(BCB)	0.0094	4.5607	30 Apr 2013 16:24:25
680-89775-f-9-a	(BCB)	0.0020	46.4019	30 Apr 2013 16:26:55
CCV		2.5042	0.6712	30 Apr 2013 16:29:24
CCB		0.0021	15.0851	30 Apr 2013 16:31:52
680-89775-f-10-a	(BCB)	0.0055	15.0440	30 Apr 2013 16:34:19

C04302013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 30 Apr 2013 11:28:18

Sample ID	Extended ID	Mean	RSD	Date
mb 680-274767/1-b	(BCB)	0.0070	6.0845	30 Apr 2013 16:36:48
lcs 680-274767/2-b	(BCB)	2.5291	0.2569	30 Apr 2013 16:39:17
680-89775-e-2-b	(BCB)	0.0062	8.7811	30 Apr 2013 16:41:46
680-89775-e-3-d	(BCB)	0.0066	1.7946	30 Apr 2013 16:44:15
680-89775-e-3-e ms	(BCB)	0.9759	1.5944	30 Apr 2013 16:46:43
680-89775-e-3-f msd	(BCB)	0.9669	0.5668	30 Apr 2013 16:49:13
680-89775-e-4-b	(BCB)	0.0059	7.3048	30 Apr 2013 16:51:42
680-89775-e-5-b	(BCB)	0.0043	18.2538	30 Apr 2013 16:54:11
680-89775-e-6-b	(BCB)	0.0075	6.2991	30 Apr 2013 16:56:40
CCV		2.5444	0.4097	30 Apr 2013 16:59:09
CCB		0.0070	9.3958	30 Apr 2013 17:01:38
680-89775-e-7-b	(BCB)	0.0066	21.8323	30 Apr 2013 17:04:06
680-89775-e-8-b	(BCB)	0.0091	5.6656	30 Apr 2013 17:06:36
680-89775-e-9-b	(BCB)	0.0055	14.0929	30 Apr 2013 17:09:05
680-89775-e-10-b	(BCB)	0.0051	2.3259	30 Apr 2013 17:11:33
mb 680-274753/1-b	(BCB)	0.0050	31.2828	30 Apr 2013 17:14:00
lcs 680-274753/2-b	(BCB)	2.5495	0.4583	30 Apr 2013 17:16:28
llcs 680-274753/3-b	(BCB)	0.1908	1.4243	30 Apr 2013 17:18:56
680-89774-d-1-d	(BCB)	0.0030	10.4505	30 Apr 2013 17:21:24
680-89774-d-1-e ms	(BCB)	0.9921	0.6931	30 Apr 2013 17:23:52
680-89774-d-1-f msd	(BCB)	0.9721	0.8587	30 Apr 2013 17:26:20
CCV		2.5379	1.0531	30 Apr 2013 17:28:47
CCB		0.0019	37.2101	30 Apr 2013 17:31:15
680-89774-d-2-b	(BCB)	0.0054	6.5469	30 Apr 2013 17:33:41
680-89774-d-3-b	(BCB)	0.0077	5.3364	30 Apr 2013 17:36:09
680-89774-d-4-b	(BCB)	0.0096	4.4415	30 Apr 2013 17:38:38
680-89774-d-5-b	(BCB)	0.0125	0.0000	30 Apr 2013 17:41:06
mb 680-274748/1-a	(BCB)	0.0035	12.1975	30 Apr 2013 17:43:34
lcs 680-274748/2-a	(BCB)	2.4581	0.5367	30 Apr 2013 17:46:02
llcs 680-274748/3-a	(BCB)	0.1928	0.2825	30 Apr 2013 17:48:30
680-89774-a-1-a	(BCB)	0.0069	6.2332	30 Apr 2013 17:50:58
680-89774-a-1-b ms	(BCB)	0.9946	0.5366	30 Apr 2013 17:53:26
680-89774-a-1-c msd	(BCB)	0.9510	1.2256	30 Apr 2013 17:55:55
CCV		2.4765	0.7340	30 Apr 2013 17:58:22
CCB		0.0062	11.9666	30 Apr 2013 18:00:49
680-89774-a-2-a	(BCB)	0.0103	7.5516	30 Apr 2013 18:03:16
680-89774-a-3-a	(BCB)	0.0103	1.1516	30 Apr 2013 18:05:44
680-89774-a-4-a	(BCB)	0.0089	1.3366	30 Apr 2013 18:08:13
680-89774-a-5-a	(BCB)	0.0249	1.9059	30 Apr 2013 18:10:41
CCV		2.5154	0.5786	30 Apr 2013 18:13:10
CCB		0.0054	2.2165	30 Apr 2013 18:15:37
CCV		2.3435	0.1449	01 May 2013 09:55:53
CCB		0.0021	11.4032	01 May 2013 09:58:21
IDL-1	(BCB)	0.0517	1.3992	01 May 2013 10:00:49
IDL-2	(BCB)	0.0517	0.2300	01 May 2013 10:03:16
IDL-3	(BCB)	0.0505	1.9267	01 May 2013 10:05:44
IDL-4	(BCB)	0.0531	2.5423	01 May 2013 10:08:11
IDL-5	(BCB)	0.0549	0.9928	01 May 2013 10:10:39
IDL-6	(BCB)	0.0045	11.4572	01 May 2013 10:13:06
IDL-7	(BCB)	0.0076	6.7887	01 May 2013 10:15:34
IDL-8	(BCB)	0.0060	5.2110	01 May 2013 10:18:02
IDL-9	(BCB)	0.0065	10.1204	01 May 2013 10:20:30
lcs 680-274733/2-a <i>FOL 10</i>	(BCB)	0.0068	6.3104	01 May 2013 10:22:58
CCV		2.3793	2.0161	01 May 2013 10:25:27
CCB		0.0175	3.1037	01 May 2013 10:27:55
680-89692-n-1-a <i>LCS 274733</i>	2(BCB)	2.2603	2.2154	01 May 2013 10:30:23
CCV		2.3207	1.2659	01 May 2013 10:32:52
CCB <i>B.0h.J</i>		0.0212	2.0250	01 May 2013 10:35:21
CCV <i>5/1/13</i>		(L)1.8053	4.1754	01 May 2013 11:05:29
CCB		0.0165	2.1558	01 May 2013 11:07:56

## C04302013

Method: Hg Norm2

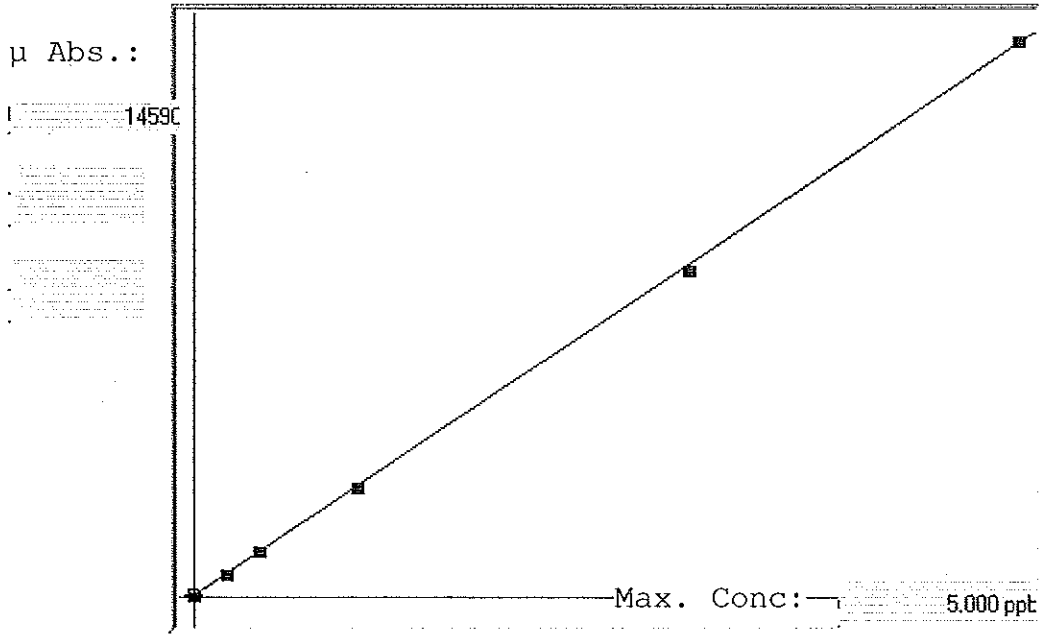
Operator: Admin

Date of Analysis: 30 Apr 2013 11:28:18

Sample ID	Extended ID	Mean	RSD	Date
lcs 680-274733/2-a	(BCB)	2.2141	1.5744	01 May 2013 11:10:22
680-89692-n-1-a	^2(BCB)	2.3596	1.2104	01 May 2013 11:12:49
CCV		2.1734	1.4157	01 May 2013 11:15:17
CCB		0.0185	3.2170	01 May 2013 11:17:44
CCV		2.1691	2.0380	01 May 2013 11:51:54
CCB		0.0210	4.8370	01 May 2013 11:54:22
lcs 680-274733/2-a		2.2071	0.6126	01 May 2013 11:56:49
680-89692-n-1-a	^2	2.3022	2.8417	01 May 2013 11:59:17
CCV		2.1509	2.1803	01 May 2013 12:01:46
CCB		0.0226	3.1567	01 May 2013 12:04:14

Hg Norm2

Linear



A= 0.0000e+000  
 B= 3.4524e-004  
 C= -1.4212e-002  
 Rho= 0.9999444  
 Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.011	0.011	72	6.600	64	74	80		
0.2	0.200	0.207	0.007	640	1.6 %	627	644	651		
0.4	0.400	0.407	0.007	1218	1.0 %	1203	1219	1234		
1.0	1.000	0.990	-0.010	2907	0.6 %	2885	2915	2922		
3.0	3.000	2.963	-0.037	8624	0.4 %	8579	8630	8663		
5.0	5.000	5.023	0.023	14590	1.0 %	14394	14611	14766		

## C05012013B

Method: Hg Norm2

Operator: Admin

Date of Analysis: 01 May 2013 15:44:48

Sample ID	Extended ID	Mean	RSD	Date
blank		73	9.0821	01 May 2013 15:45:12
0.2		641	1.5730	01 May 2013 15:47:38
0.4		1219	1.0387	01 May 2013 15:50:06
1.0		2907	0.5520	01 May 2013 15:52:33
3.0		8624	0.4007	01 May 2013 15:55:00
5.0		14590	1.0457	01 May 2013 15:57:28
ICV		3.0924	0.0211	01 May 2013 15:59:55
ICB		-0.0006	-51.4468	01 May 2013 16:02:22
CRA		0.2028	0.6856	01 May 2013 16:04:49
CCV		2.5273	1.7294	01 May 2013 16:07:17
CCB		0.0052	21.7561	01 May 2013 16:09:44
mb 680-274941/1-a	(BCB)	0.0020	13.9953	01 May 2013 16:12:11
lcs 680-274941/2-a	(BCB)	2.4961	0.5172	01 May 2013 16:14:37
680-89695-b-4-d	(BCB)	1.3832	0.6918	01 May 2013 16:17:04
680-89695-b-4-e ms	(BCB)	2.9612	0.3429	01 May 2013 16:19:30
680-89695-b-4-f msd	(BCB)	3.2115	0.2094	01 May 2013 16:21:57
680-89695-b-14-b	(BCB)	1.5023	0.4586	01 May 2013 16:24:23
680-89695-b-18-b	(BCB)	4.3235	0.8672	01 May 2013 16:26:49
680-89695-a-32-b	(BCB)	1.8515	0.4608	01 May 2013 16:29:15
680-89695-a-33-b	(BCB)	5.4889	0.6943	01 May 2013 16:31:42
680-89695-a-34-b	(BCB)	1.4883	0.1002	01 May 2013 16:34:09
CCV		2.4240	0.4840	01 May 2013 16:36:36
CCB		0.0030	55.4555	01 May 2013 16:39:04
680-89748-a-1-a	(BCB)	0.1650	0.7448	01 May 2013 16:41:30
680-89748-a-2-a	(BCB)	0.3216	1.5979	01 May 2013 16:43:59
680-89748-a-3-a	(BCB)	0.4134	0.2395	01 May 2013 16:46:27
680-89748-a-6-a	(BCB)	0.1325	0.7670	01 May 2013 16:48:55
680-89748-a-7-a	(BCB)	0.3475	0.4163	01 May 2013 16:51:22
lb 680-274623/13-d	(BCB)	-0.0012	-71.2848	01 May 2013 16:53:49
680-89621-a-10-h	(BCB)	-0.0041	-14.3643	01 May 2013 16:56:15
680-89621-a-10-i ms	(BCB)	0.8882	0.8569	01 May 2013 16:58:42
680-89621-a-10-j msd	(BCB)	0.8015	0.8023	01 May 2013 17:01:08
680-89621-a-11-d	(BCB)	-0.0013	-44.3479	01 May 2013 17:03:36
CCV		2.3912	1.8759	01 May 2013 17:06:03
CCB		0.0012	48.5518	01 May 2013 17:08:30
680-89621-a-12-d	(BCB)	0.0024	11.9474	01 May 2013 17:10:57
680-89621-a-13-d	(BCB)	0.0057	11.4275	01 May 2013 17:13:24
680-89621-a-14-d	(BCB)	-0.0044	-19.4383	01 May 2013 17:15:55
680-89621-a-15-d	(BCB)	0.0017	276.5083	01 May 2013 17:18:22
680-89621-a-16-d	(BCB)	0.0033	49.6176	01 May 2013 17:20:50
680-89621-a-17-d	(BCB)	0.0147	7.9983	01 May 2013 17:23:17
680-89621-a-18-d	(BCB)	-0.0021	-13.2421	01 May 2013 17:25:43
mb 680-274939/1-a	(BCB)	-0.0041	-10.5405	01 May 2013 17:28:10
lcs 680-274939/2-a	(BCB)	2.2647	0.8116	01 May 2013 17:30:37
680-89667-a-1-b	(BCB)	0.8291	0.4824	01 May 2013 17:33:04
CCV		2.3790	0.9955	01 May 2013 17:35:32
CCB		0.0013	92.8261	01 May 2013 17:37:58
680-88732-a-29-f	(BCB)	0.1865	0.7608	01 May 2013 17:40:25
680-89678-a-14-a	(BCB)	0.0002	339.4290	01 May 2013 17:42:52
680-89678-a-15-a	(BCB)	0.0096	2.9334	01 May 2013 17:45:18
680-89736-b-2-a	(BCB)	0.1768	0.9341	01 May 2013 17:47:45
680-89736-b-3-a	(BCB)	0.0105	5.5726	01 May 2013 17:50:13
680-89736-b-4-a	(BCB)	0.0227	2.1481	01 May 2013 17:52:42
680-89736-b-5-a	(BCB)	0.0154	2.1186	01 May 2013 17:55:09
680-89736-b-6-a	(BCB)	0.0479	1.7643	01 May 2013 17:57:36
680-89736-b-7-a	(BCB)	0.0451	1.3024	01 May 2013 18:00:03
680-89736-b-8-a	(BCB)	0.0269	0.0000	01 May 2013 18:02:31
CCV		2.4019	0.4343	01 May 2013 18:04:58
CCB		0.0063	9.3556	01 May 2013 18:07:24
680-89736-b-9-a	(BCB)	0.0150	4.3347	01 May 2013 18:09:51

## C05012013B

Method: Hg Norm2

Operator: Admin

Date of Analysis: 01 May 2013 15:44:48

Sample ID	Extended ID	Mean	RSD	Date
680-89736-b-10-a	(BCB)	0.0461	1.8685	01 May 2013 18:12:18
680-89736-b-11-a	(BCB)	0.0503	1.4813	01 May 2013 18:14:45
680-89755-b-1-a	(BCB)	0.3264	0.4260	01 May 2013 18:17:11
680-89755-b-2-a	(BCB)	2.7997	0.6618	01 May 2013 18:19:38
680-89755-b-3-a	(BCB)	1.0879	2.1651	01 May 2013 18:22:05
680-89755-b-4-a	(BCB)	0.0395	4.3571	01 May 2013 18:24:32
680-89755-b-4-b ms	(BCB)	0.8540	0.7059	01 May 2013 18:27:00
680-89755-b-4-c msd	(BCB)	0.8838	1.7365	01 May 2013 18:29:29
CCV		2.4339	0.7136	01 May 2013 18:31:57
CCB		0.0071	2.2995	01 May 2013 18:34:25
CCV		(L)1.9877	0.8013	02 May 2013 09:18:19
CCB		-0.0165	-5.2149	02 May 2013 09:20:46
680-89695-a-33-b	^2(BCB)	2.4442	0.9551	02 May 2013 09:23:12
CCV		2.1397	1.0298	02 May 2013 09:25:38
CCB		-0.0115	-7.3856	02 May 2013 09:28:05

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274866 Batch Start Date: 04/30/13 08:28 Batch Analyst: Boyuk, Brian

Batch Method: 200.7 Batch End Date: 04/30/13 13:09

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00001	MS_LCS1_WK 00003	MS_LCS2_wk 00144
MB 680-274866/1		200.7, 200.7 Rev 4.4			50 mL	50 mL			
LCS 680-274866/2		200.7, 200.7 Rev 4.4			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-89693-A-1 MS		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-89693-A-1 MSD		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-89695-C-35	042313-RB-Sieve	200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL			

Batch Notes	
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	L10022
Hood ID or number	FH7
Hot Block ID number	5
Oven, Bath or Block Temperature 1	93 Degrees C
Pipette ID	ME 8
ID number of the thermometer	MEPREP 11
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.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274586 Batch Start Date: 04/26/13 15:13 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/29/13 12:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00001	MS_LCS1_WK 00003	MS_LCS2_wk 00144
MB 680-274586/1		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	100 mL			
LCS 680-274586/2		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL	1 mL	1 mL	1 mL
680-89695-B-4	CV1329A-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-89695-B-4 MS	CV1329A-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL	1 mL	1 mL	1 mL
680-89695-B-4 MSD	CV1329A-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL	1 mL	1 mL	1 mL
680-89695-B-14	CV0427B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			
680-89695-B-18	CV0575A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			
680-89695-A-32	CV1329A-CS (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-89695-A-33	CV0575A-CS-SP (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.12 g	100 mL			
680-89695-A-34	CV0427B-CS-SP (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.06 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.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274586 Batch Start Date: 04/26/13 15:13 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/29/13 12:48

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	52223236
Lot # of hydrochloric acid	3053719
Lot # of Nitric Acid	3053707
Hood ID or number	FH-8
Hot Block ID number	10
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	93 Degrees C
ID number of the thermometer	MEPREP15
Digestion Tube/Cup Lot #	J157274-263-100

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.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274733 Batch Start Date: 04/29/13 10:18 Batch Analyst: Umbehr, Uli

Batch Method: 245.1 Batch End Date: 04/29/13 13:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	hg_icvint 00085	Hg_Int_Cal 00091	AnalysisComment
MB 680-274733/1		245.1, 245.1			50 mL	50 mL			
LCS 680-274733/2		245.1, 245.1			50 mL	50 mL		0.25 mL	
680-89700-G-1 MS		245.1, 245.1	T	<2	50 mL	50 mL		0.1 mL	
680-89700-G-1 MSD		245.1, 245.1	T	<2	50 mL	50 mL		0.1 mL	
680-89695-C-35	042313-RB-Sieve	245.1, 245.1	T	<2	50 mL	50 mL			
CCV 680-274733/26		245.1, 245.1			50 mL	50 mL		0.25 mL	
CCB 680-274733/27		245.1, 245.1			50 mL	50 mL			
ICV 680-274733/29		245.1, 245.1			50 mL	50 mL	0.15 mL		
ICB 680-274733/30		245.1, 245.1			50 mL	50 mL			
CRA 680-274733/31		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.

245.1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274733 Batch Start Date: 04/29/13 10:18 Batch Analyst: Umbeh, Uli

Batch Method: 245.1 Batch End Date: 04/29/13 13:40

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046699
Hydroxylamine Hydrochloride Lot	3046705
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	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	04/13/13
Stannous Chloride Lot Number	3038842
SOP Number	ME028
Temperature	95 Degrees C
ID number of the thermometer	ME10
Digestion Tube/Cup Lot #	J157274-263-100
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.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274939 Batch Start Date: 04/30/13 12:22 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 04/30/13 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00085	Hg_Int_Cal 00091	AnalysisComment	
CCV 680-274939/30		7471A, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-274939/31		7471A, 7471B		50 mL	50 mL				
ICV 680-274939/33		7471A, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-274939/34		7471A, 7471B		50 mL	50 mL				
CRA 680-274939/35		7471A, 7471B		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.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274939 Batch Start Date: 04/30/13 12:22 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 04/30/13 19:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046699
Hydroxylamine Hydrochloride Lot	3046705
Aqua Regia Lot Number	3065406
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	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	04/05/13
Stannous Chloride Lot Number	3038842
SOP Number	ME028
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J157274-263-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 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.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274941 Batch Start Date: 04/30/13 12:32 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/30/13 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Hg_Int_Cal 00091			
MB 680-274941/1		7471B, 7471B		0.55 g	50 mL				
LCS 680-274941/2		7471B, 7471B		0.53 g	50 mL	0.25 mL			
680-89695-B-4	CV1329A-CS	7471B, 7471B	T	0.51 g	50 mL				
680-89695-B-4 MS	CV1329A-CS	7471B, 7471B	T	0.59 g	50 mL	0.1 mL			
680-89695-B-4 MSD	CV1329A-CS	7471B, 7471B	T	0.58 g	50 mL	0.1 mL			
680-89695-B-14	CV0427B-CS-SP	7471B, 7471B	T	0.57 g	50 mL				
680-89695-B-18	CV0575A-CS-SP	7471B, 7471B	T	0.52 g	50 mL				
680-89695-A-32	CV1329A-CS (sieve)	7471B, 7471B	T	0.54 g	50 mL				
680-89695-A-33	CV0575A-CS-SP (sieve)	7471B, 7471B	T	0.59 g	50 mL				
680-89695-A-34	CV0427B-CS-SP (sieve)	7471B, 7471B	T	0.53 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.: 680-89695-3

SDG No.: 68089695-3

Batch Number: 274941 Batch Start Date: 04/30/13 12:32 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/30/13 19:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046699
Hydroxylamine Hydrochloride Lot	3046705
Aqua Regia Lot Number	3065406
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	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	04/05/13
Stannous Chloride Lot Number	3038842
SOP Number	ME028
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J157274-263-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 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

Serial Number 64688

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:

PROJECT REFERENCE <b>3544 Ave Removal</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>1</b>	OF <b>3</b>
--	------------------------------------	---------------------------------------	-------------	-------------------	------------------	----------------

**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

**LL PAH**  
**PCEA8 Metals**

**PRESERVATIVE**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
**10 day TAT**  
DATE DUE \_\_\_\_\_  
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS				
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED														
4-22-13	1330	FM 0323A - CS	C	X			X															
	1330	FM 0323A - CSD	C	X			X															
	1340	FM 0323B - CS	C	X			X															
	1455	CV 1329A - CS	C	X			X	X														
4-23-13	0925	CV 0773A - CS	C	X			X															
	0935	CV 0773B - CS	C	X			X															
	0845	CV 0809A - CS	C	X			X															
	0845	CV 0809A - CSD	C	X			X															
	1010	CV 1202A - CS	C	X			X															
	1020	CV 1202B - CS	C	X			X															
	1020	CV 1202B - CSD	C	X			X															
	1033	CV 0147A - CS-SP	C	X			X															

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>4-24-13</b>	TIME <b>1330</b>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>4-25-13</b>	TIME <b>0840</b>	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES: <input type="radio"/> NO: <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>080-89695</b>	LABORATORY REMARKS <b>5.8 CV-07</b>
---	------	------	---	------------------	-----------------------------------	--

Serial Number 64615

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:

PROJECT REFERENCE <b>35th Ave Removal</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>2</b> OF <b>3</b>
<div style="font-size: 48px; color: red; font-weight: bold;">(b) (6)</div>				STANDARD REPORT DELIVERY <input type="radio"/> DATE DUE _____  EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/> <b>10 DAY TAT</b> DATE DUE _____	
				PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS					
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12			
4-23-13	0853	CN0427A-CS-SP	C	X			X																
	0903	CN0427B-CS-SP	C	X			X	X															
	0931	CN0718A-CS-SP	C	X			X																
	0944	CN0718B-CS-SP	C	X			X																
	1246	HP0157A-CS-SP	C	X			X																
	1322	CN0575A-CS-SP	C	X			X	X															
	1351	CN0927A-CS-SP	C	X			X																
	1403	CN0927B-CS-SP	C	X			X																
	1445	CV1158A-CS	C	X			X																
	1500	CV1158B-CS	C	X			X																
	1310	CV1235A-CS	C	X			X																
	1320	CV1235B-CS	C	X			X																

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-89695</b>	LABORATORY REMARKS
---	------	------	---	------------------	-----------------------------------	--------------------

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:

PROJECT REFERENCE <b>35th Ave Removal</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>FL</b>	MATRIX TYPE:	REQUIRED ANALYSIS	PAGE <b>3</b> OF <b>3</b>
<div style="font-size: 48px; color: red; font-weight: bold;">(b) (6)</div>				COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) LL PAH RCRA 8 Metals	STANDARD REPORT DELIVERY <input type="radio"/> DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/> 10 day TAT DATE DUE _____
				PRESERVATIVE	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	6	7	8	9	10	
4-23-13	1330	CV1235C-CS	C	X			X											
	1340	CV1235D-CS	C	X			X											
	1340	CV1235D-CSD	C	X			X											
	1420	CV1324A-CS	C	X			X											
	1459	CV0686A-CS-SP	C	X			X											
	1503	CV0686B-CS-SP	C	X			X											
	1522	CV0686C-GS-SP	G	X			X											
4-22-13	1455	CV1329A-CS (sieve)	C	X										X				
4-23-13	1322	CV0575A-CS-SP (sieve)	C	X										X				
	0903	CV0427B-CS-SP (sieve)	C	X										X				
4-23-13	1000	042313-RB-Sieve		X										X				

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-89695</b>	LABORATORY REMARKS
---	------	------	---	------------------	-----------------------------------	--------------------

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-3

SDG Number: 68089695-3

**Login Number: 89695**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Daughtry, Beth**

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?	N/A	
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.	True	
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: 680-89695-3

SDG Number: 68089695-3

**Login Number: 89695**  
**List Number: 1**  
**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**  
**List Creation: 04/25/13 01:52 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.	False	

# 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: 680-89695-3

TestAmerica Sample Delivery Group: 68089695-3

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:

5/7/2013 5:30:55 PM

Bernard Kirkland, Project Manager I

[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

Review your project  
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.*

1

2

3

4

5

6

7

8

9

10

11

12

## Case Narrative

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

TestAmerica Job ID: 680-89695-3  
SDG: 68089695-3

**Job ID: 680-89695-3**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89695-3**

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 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

#### METALS (ICP)-Water

Sample 042313-RB-Sieve (680-89695-35) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

#### TOTAL MERCURY-Water

Sample 042313-RB-Sieve (680-89695-35) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/29/2013 and analyzed on 04/30/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

#### METALS (ICP)

Samples CV1329A-CS (680-89695-4), CV0427B-CS-SP (680-89695-14), CV0575A-CS-SP (680-89695-18), CV1329A-CS (sieve) (680-89695-32), CV0575A-CS-SP (sieve) (680-89695-33) and CV0427B-CS-SP (sieve) (680-89695-34) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/26/2013 and analyzed on 05/01/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 680-275202. Also, Barium and Chromium exceeded the rpd limit.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

#### TOTAL MERCURY

Samples CV1329A-CS (680-89695-4), CV0427B-CS-SP (680-89695-14), CV0575A-CS-SP (680-89695-18), CV1329A-CS (sieve)



## Case Narrative

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

TestAmerica Job ID: 680-89695-3  
SDG: 68089695-3

---

### Job ID: 680-89695-3 (Continued)

---

#### Laboratory: TestAmerica Savannah (Continued)

(680-89695-32), CV0575A-CS-SP (sieve) (680-89695-33) and CV0427B-CS-SP (sieve) (680-89695-34) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013 and 05/02/2013.

Sample CV0575A-CS-SP (sieve) (680-89695-33)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV1329A-CS (680-89695-4) in batch 680-275207.

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 analyses.

All other quality control parameters were within the acceptance limits.

1

2

3

4

5

6

7

8

9

10

11

12

# Sample Summary

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

TestAmerica Job ID: 680-89695-3  
SDG: 68089695-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89695-4	CV1329A-CS	Solid	04/22/13 14:55	04/25/13 08:40
680-89695-14	CV0427B-CS-SP	Solid	04/23/13 09:03	04/25/13 08:40
680-89695-18	CV0575A-CS-SP	Solid	04/23/13 13:22	04/25/13 08:40
680-89695-32	CV1329A-CS (sieve)	Solid	04/22/13 14:55	04/25/13 08:40
680-89695-33	CV0575A-CS-SP (sieve)	Solid	04/23/13 13:22	04/25/13 08:40
680-89695-34	CV0427B-CS-SP (sieve)	Solid	04/23/13 09:03	04/25/13 08:40
680-89695-35	042313-RB-Sieve	Water	04/23/13 10:00	04/25/13 08:40

# Method Summary

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

TestAmerica Job ID: 680-89695-3  
SDG: 68089695-3

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: 680-89695-3  
SDG: 68089695-3

### Qualifiers

#### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
F	MS or MSD exceeds the control limits
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: 680-89695-3  
 SDG: 68089695-3

## Client Sample ID: CV1329A-CS

Lab Sample ID: 680-89695-4

Date Collected: 04/22/13 14:55

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		2.3	0.68	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Barium	260		1.2	0.35	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Cadmium	1.5		0.58	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Chromium	120		1.2	0.58	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Lead	310		1.2	0.61	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	1
Silver	1.2	U	1.2	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 14:20	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		0.023	0.0096	mg/Kg	☼	04/30/13 12:32	05/01/13 16:17	1

## Client Sample ID: CV0427B-CS-SP

Lab Sample ID: 680-89695-14

Date Collected: 04/23/13 09:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	32		2.6	0.76	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Barium	340		1.3	0.39	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Cadmium	1.7		0.64	0.13	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Chromium	51		1.3	0.64	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Lead	430		1.3	0.68	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	1
Silver	0.46	J	1.3	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:47	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	0.17		0.023	0.0095	mg/Kg	☼	04/30/13 12:32	05/01/13 16:24	1

## Client Sample ID: CV0575A-CS-SP

Lab Sample ID: 680-89695-18

Date Collected: 04/23/13 13:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.5	0.73	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Barium	290		1.2	0.37	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Cadmium	2.9		0.62	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Chromium	55		1.2	0.62	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Lead	440		1.2	0.66	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	1
Silver	0.38	J	1.2	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 14:53	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	0.52		0.024	0.0099	mg/Kg	☼	04/30/13 12:32	05/01/13 16:26	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

## Client Sample ID: CV1329A-CS (sieve)

## Lab Sample ID: 680-89695-32

Date Collected: 04/22/13 14:55

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	24		2.3	0.66	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Barium	280		1.1	0.34	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Cadmium	1.3		0.56	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Chromium	87		1.1	0.56	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Lead	330		1.1	0.60	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	1
Silver	1.1	U	1.1	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 14:58	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	0.21		0.023	0.0093	mg/Kg	☼	04/30/13 12:32	05/01/13 16:29	1

## Client Sample ID: CV0575A-CS-SP (sieve)

## Lab Sample ID: 680-89695-33

Date Collected: 04/23/13 13:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	24		2.3	0.68	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Barium	300		1.2	0.35	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Cadmium	3.4		0.58	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Chromium	46		1.2	0.58	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Lead	480		1.2	0.61	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	1
Silver	0.43	J	1.2	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 15:14	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	0.54		0.044	0.018	mg/Kg	☼	04/30/13 12:32	05/02/13 09:23	2

## Client Sample ID: CV0427B-CS-SP (sieve)

## Lab Sample ID: 680-89695-34

Date Collected: 04/23/13 09:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		2.3	0.69	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Barium	340		1.2	0.35	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Cadmium	1.9		0.59	0.12	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Chromium	52		1.2	0.59	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Lead	480		1.2	0.62	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	1
Silver	0.49	J	1.2	0.11	mg/Kg	☼	04/26/13 15:13	05/01/13 15:20	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	0.17		0.023	0.0096	mg/Kg	☼	04/30/13 12:32	05/01/13 16:34	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

**Client Sample ID: 042313-RB-Sieve**

**Lab Sample ID: 680-89695-35**

**Date Collected: 04/23/13 10:00**

**Matrix: Water**

**Date Received: 04/25/13 08:40**

**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		04/30/13 08:28	05/01/13 06:11	1
Barium	10	U	10	2.3	ug/L		04/30/13 08:28	05/01/13 06:11	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/30/13 08:28	05/01/13 06:11	1
Chromium	10	U	10	1.2	ug/L		04/30/13 08:28	05/01/13 06:11	1
<b>Lead</b>	<b>120</b>		10	4.0	ug/L		04/30/13 08:28	05/01/13 06:11	1
Selenium	20	U	20	6.4	ug/L		04/30/13 08:28	05/01/13 06:11	1
Silver	10	U	10	0.89	ug/L		04/30/13 08:28	05/01/13 06:11	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		04/29/13 10:18	04/30/13 14:26	1

# QC Sample Results

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

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

Lab Sample ID: MB 680-274866/1-A  
 Matrix: Water  
 Analysis Batch: 275065

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 274866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20	4.6	ug/L		04/30/13 08:28	05/01/13 05:10	1
Barium	10	U	10	2.3	ug/L		04/30/13 08:28	05/01/13 05:10	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/30/13 08:28	05/01/13 05:10	1
Chromium	10	U	10	1.2	ug/L		04/30/13 08:28	05/01/13 05:10	1
Lead	10	U	10	4.0	ug/L		04/30/13 08:28	05/01/13 05:10	1
Selenium	20	U	20	6.4	ug/L		04/30/13 08:28	05/01/13 05:10	1
Silver	10	U	10	0.89	ug/L		04/30/13 08:28	05/01/13 05:10	1

Lab Sample ID: LCS 680-274866/2-A  
 Matrix: Water  
 Analysis Batch: 275065

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 274866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	110		ug/L		110	85 - 115
Barium	100	106		ug/L		106	85 - 115
Cadmium	50.0	54.5		ug/L		109	85 - 115
Chromium	100	110		ug/L		110	85 - 115
Lead	50.0	52.5		ug/L		105	85 - 115
Selenium	100	101		ug/L		101	85 - 115
Silver	50.0	52.4		ug/L		105	85 - 115

## Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-274733/1-A  
 Matrix: Water  
 Analysis Batch: 275100

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 274733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/29/13 10:18	04/30/13 13:51	1

Lab Sample ID: LCS 680-274733/2-A  
 Matrix: Water  
 Analysis Batch: 275100

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 274733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.26		ug/L		90	85 - 115

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-274586/1-A  
 Matrix: Solid  
 Analysis Batch: 275202

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 274586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.58	mg/Kg		04/26/13 15:13	05/01/13 14:09	1
Barium	0.98	U	0.98	0.29	mg/Kg		04/26/13 15:13	05/01/13 14:09	1
Cadmium	0.49	U	0.49	0.098	mg/Kg		04/26/13 15:13	05/01/13 14:09	1
Chromium	0.98	U	0.98	0.49	mg/Kg		04/26/13 15:13	05/01/13 14:09	1

TestAmerica Savannah



# QC Sample Results

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

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

**Lab Sample ID: MB 680-274586/1-A**  
**Matrix: Solid**  
**Analysis Batch: 275202**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 274586**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	0.98	U	0.98	0.52	mg/Kg		04/26/13 15:13	05/01/13 14:09	1
Selenium	2.5	U	2.5	0.98	mg/Kg		04/26/13 15:13	05/01/13 14:09	1
Silver	0.98	U	0.98	0.094	mg/Kg		04/26/13 15:13	05/01/13 14:09	1

**Lab Sample ID: LCS 680-274586/2-A**  
**Matrix: Solid**  
**Analysis Batch: 275202**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 274586**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	9.90	10.5		mg/Kg		106	75 - 125
Cadmium	4.95	5.38		mg/Kg		109	75 - 125
Chromium	9.90	10.8		mg/Kg		109	75 - 125
Lead	4.95	5.09		mg/Kg		103	75 - 125
Selenium	9.90	10.4		mg/Kg		105	75 - 125
Silver	4.95	5.21		mg/Kg		105	75 - 125

**Lab Sample ID: 680-89695-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 275202**

**Client Sample ID: CV1329A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 274586**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	260		11.7	236	4	mg/Kg	☼	-220	75 - 125
Cadmium	1.5		5.85	7.03		mg/Kg	☼	94	75 - 125
Chromium	120		11.7	195	4	mg/Kg	☼	628	75 - 125
Lead	310		5.85	287	4	mg/Kg	☼	-380	75 - 125
Selenium	2.9	U	11.7	9.43		mg/Kg	☼	81	75 - 125
Silver	1.2	U	5.85	6.30		mg/Kg	☼	108	75 - 125

**Lab Sample ID: 680-89695-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 275202**

**Client Sample ID: CV1329A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 274586**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
Arsenic	23		11.7	37.1		mg/Kg	☼	124	75 - 125	7	20
Barium	260		11.7	310	4 F	mg/Kg	☼	415	75 - 125	27	20
Cadmium	1.5		5.85	8.59		mg/Kg	☼	120	75 - 125	20	20
Chromium	120		11.7	117	4 F	mg/Kg	☼	-43	75 - 125	50	20
Lead	310		5.85	337	4	mg/Kg	☼	480	75 - 125	16	20
Selenium	2.9	U	11.7	9.60		mg/Kg	☼	82	75 - 125	2	20
Silver	1.2	U	5.85	6.32		mg/Kg	☼	108	75 - 125	0	20

# QC Sample Results

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

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

**Lab Sample ID: MB 680-274941/1-A**  
**Matrix: Solid**  
**Analysis Batch: 275207**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 274941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.0075	mg/Kg		04/30/13 12:32	05/01/13 16:12	1

**Lab Sample ID: LCS 680-274941/2-A**  
**Matrix: Solid**  
**Analysis Batch: 275207**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 274941**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.236	0.235		mg/Kg		100	80 - 120

**Lab Sample ID: 680-89695-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 275207**

**Client Sample ID: CV1329A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 274941**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.16		0.101	0.300	F	mg/Kg	☼	136	80 - 120

**Lab Sample ID: 680-89695-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 275207**

**Client Sample ID: CV1329A-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 274941**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16		0.103	0.330	F	mg/Kg	☼	164	80 - 120	10	20

# QC Association Summary

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

## Metals

### Prep Batch: 274586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4	CV1329A-CS	Total/NA	Solid	3050B	
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	3050B	
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	3050B	
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	3050B	
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	3050B	
680-89695-32	CV1329A-CS (sieve)	Total/NA	Solid	3050B	
680-89695-33	CV0575A-CS-SP (sieve)	Total/NA	Solid	3050B	
680-89695-34	CV0427B-CS-SP (sieve)	Total/NA	Solid	3050B	
LCS 680-274586/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-274586/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 274733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-35	042313-RB-Sieve	Total/NA	Water	245.1	
LCS 680-274733/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 680-274733/1-A	Method Blank	Total/NA	Water	245.1	

### Prep Batch: 274866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-35	042313-RB-Sieve	Total/NA	Water	200.7	
LCS 680-274866/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 680-274866/1-A	Method Blank	Total/NA	Water	200.7	

### Prep Batch: 274941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4	CV1329A-CS	Total/NA	Solid	7471B	
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	7471B	
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	7471B	
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	7471B	
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	7471B	
680-89695-32	CV1329A-CS (sieve)	Total/NA	Solid	7471B	
680-89695-33	CV0575A-CS-SP (sieve)	Total/NA	Solid	7471B	
680-89695-34	CV0427B-CS-SP (sieve)	Total/NA	Solid	7471B	
LCS 680-274941/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-274941/1-A	Method Blank	Total/NA	Solid	7471B	

### Analysis Batch: 275065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-35	042313-RB-Sieve	Total/NA	Water	200.7 Rev 4.4	274866
LCS 680-274866/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	274866
MB 680-274866/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	274866

### Analysis Batch: 275100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-35	042313-RB-Sieve	Total/NA	Water	245.1	274733
LCS 680-274733/2-A	Lab Control Sample	Total/NA	Water	245.1	274733
MB 680-274733/1-A	Method Blank	Total/NA	Water	245.1	274733

### Analysis Batch: 275202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4	CV1329A-CS	Total/NA	Solid	6010C	274586

TestAmerica Savannah

# QC Association Summary

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

## Metals (Continued)

### Analysis Batch: 275202 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	6010C	274586
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	6010C	274586
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	6010C	274586
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	6010C	274586
680-89695-32	CV1329A-CS (sieve)	Total/NA	Solid	6010C	274586
680-89695-33	CV0575A-CS-SP (sieve)	Total/NA	Solid	6010C	274586
680-89695-34	CV0427B-CS-SP (sieve)	Total/NA	Solid	6010C	274586
LCS 680-274586/2-A	Lab Control Sample	Total/NA	Solid	6010C	274586
MB 680-274586/1-A	Method Blank	Total/NA	Solid	6010C	274586

### Analysis Batch: 275207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4	CV1329A-CS	Total/NA	Solid	7471B	274941
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	7471B	274941
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	7471B	274941
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	7471B	274941
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	7471B	274941
680-89695-32	CV1329A-CS (sieve)	Total/NA	Solid	7471B	274941
680-89695-33	CV0575A-CS-SP (sieve)	Total/NA	Solid	7471B	274941
680-89695-34	CV0427B-CS-SP (sieve)	Total/NA	Solid	7471B	274941
LCS 680-274941/2-A	Lab Control Sample	Total/NA	Solid	7471B	274941
MB 680-274941/1-A	Method Blank	Total/NA	Solid	7471B	274941

## General Chemistry

### Analysis Batch: 136902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-4	CV1329A-CS	Total/NA	Solid	Moisture	
680-89695-4 MS	CV1329A-CS	Total/NA	Solid	Moisture	
680-89695-4 MSD	CV1329A-CS	Total/NA	Solid	Moisture	
680-89695-14	CV0427B-CS-SP	Total/NA	Solid	Moisture	
680-89695-18	CV0575A-CS-SP	Total/NA	Solid	Moisture	

### Analysis Batch: 274509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-32	CV1329A-CS (sieve)	Total/NA	Solid	Moisture	
680-89695-33	CV0575A-CS-SP (sieve)	Total/NA	Solid	Moisture	
680-89695-34	CV0427B-CS-SP (sieve)	Total/NA	Solid	Moisture	

# Lab Chronicle

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

## Client Sample ID: CV1329A-CS

Lab Sample ID: 680-89695-4

Date Collected: 04/22/13 14:55

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			274586	04/26/13 15:13	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275202	05/01/13 14:20	BCB	TAL SAV
Total/NA	Prep	7471B			274941	04/30/13 12:32	UU	TAL SAV
Total/NA	Analysis	7471B		1	275207	05/01/13 16:17	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

## Client Sample ID: CV0427B-CS-SP

Lab Sample ID: 680-89695-14

Date Collected: 04/23/13 09:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			274586	04/26/13 15:13	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275202	05/01/13 14:47	BCB	TAL SAV
Total/NA	Prep	7471B			274941	04/30/13 12:32	UU	TAL SAV
Total/NA	Analysis	7471B		1	275207	05/01/13 16:24	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

## Client Sample ID: CV0575A-CS-SP

Lab Sample ID: 680-89695-18

Date Collected: 04/23/13 13:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			274586	04/26/13 15:13	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275202	05/01/13 14:53	BCB	TAL SAV
Total/NA	Prep	7471B			274941	04/30/13 12:32	UU	TAL SAV
Total/NA	Analysis	7471B		1	275207	05/01/13 16:26	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

## Client Sample ID: CV1329A-CS (sieve)

Lab Sample ID: 680-89695-32

Date Collected: 04/22/13 14:55

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			274586	04/26/13 15:13	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275202	05/01/13 14:58	BCB	TAL SAV
Total/NA	Prep	7471B			274941	04/30/13 12:32	UU	TAL SAV
Total/NA	Analysis	7471B		1	275207	05/01/13 16:29	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	274509	04/26/13 09:28	FS	TAL SAV

# Lab Chronicle

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

TestAmerica Job ID: 680-89695-3  
SDG: 68089695-3

## Client Sample ID: CV0575A-CS-SP (sieve)

Lab Sample ID: 680-89695-33

Date Collected: 04/23/13 13:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			274586	04/26/13 15:13	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275202	05/01/13 15:14	BCB	TAL SAV
Total/NA	Prep	7471B			274941	04/30/13 12:32	UU	TAL SAV
Total/NA	Analysis	7471B		2	275207	05/02/13 09:23	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	274509	04/26/13 09:28	FS	TAL SAV

## Client Sample ID: CV0427B-CS-SP (sieve)

Lab Sample ID: 680-89695-34

Date Collected: 04/23/13 09:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			274586	04/26/13 15:13	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275202	05/01/13 15:20	BCB	TAL SAV
Total/NA	Prep	7471B			274941	04/30/13 12:32	UU	TAL SAV
Total/NA	Analysis	7471B		1	275207	05/01/13 16:34	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	274509	04/26/13 09:28	FS	TAL SAV

## Client Sample ID: 042313-RB-Sieve

Lab Sample ID: 680-89695-35

Date Collected: 04/23/13 10:00

Matrix: Water

Date Received: 04/25/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			274866	04/30/13 08:28	BB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	275065	05/01/13 06:11	BCB	TAL SAV
Total/NA	Prep	245.1			274733	04/29/13 10:18	UU	TAL SAV
Total/NA	Analysis	245.1		1	275100	04/30/13 14:26	BCB	TAL SAV

### 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

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE 3544 Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1 OF 3
---------------------------------------	-----------------------------	--------------------------------	-------------	-------------------	-------------

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAV  
RCEA 8 Metals  
**PRESERVATIVE**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
DATE DUE 10 day TAT  
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS		
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED												
4-22-13	1330	FM 0323A - CS	C	X			X													
	1330	FM 0323A - CSD	C	X			X													
	1340	FM 0323B - CS	C	X			X													
	1455	CV 1329A - CS	C	X			X	X												
4-23-13	0925	CV 0773A - CS	C	X			X													
	0935	CV 0773B - CS	C	X			X													
	0845	CV 0809A - CS	C	X			X													
	0845	CV 0809A - CSD	C	X			X													
	1010	CV 1202A - CS	C	X			X													
	1020	CV 1202B - CS	C	X			X													
	1020	CV 1202B - CSD	C	X			X													
	1033	CV 0147A - CS-SP	C	X			X													

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 080-89695	LABORATORY REMARKS 5.8 CV-07		

Page 1 of 23

5/17/2013



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:

PROJECT REFERENCE: **35th Ave Removal** PROJECT NO.: **2005148-1356** PROJECT LOCATION (STATE): **AL** MATRIX TYPE: **---** REQUIRED ANALYSIS: **---** PAGE **2** OF **3**

**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

**LL PAH**  
**RODA8 Metals**  
**PRESERVATIVE**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
**10 DAY TAT**  
DATE DUE \_\_\_\_\_  
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: \_\_\_\_\_

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
4-23-13	0853	CW0427A-CS-SP	C	X			X														
	0903	CW0427B-CS-SP	C	X			X	X													
	0931	CW0718A-CS-SP	C	X			X														
	0944	CW0718B-CS-SP	C	X			X														
	1246	HPO157A-CS-SP	C	X			X														
	1322	CW0575A-CS-SP	C	X			X	X													
	1351	CW0927A-CS-SP	C	X			X														
	1403	CW0927B-CS-SP	C	X			X														
	1445	CW1158A-CS	C	X			X														
	1500	CW1158B-CS	C	X			X														
	1310	CW1235A-CS	C	X			X														
	1320	CW1235B-CS	C	X			X														

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ CUSTODY INTACT YES  NO  SAVANNAH SEAL NO. **680-89695** LABORATORY REMARKS \_\_\_\_\_

Page 18 of 23

5/7/2013





Serial Number 64689

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:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 3	OF 3
---------------------------------------	-----------------------------	--------------------------------	-------------	-------------------	-----------	---------

**(b) (6)**

COMPANY CONTRACTING THIS WORK (if applicable)

**PRESERVATIVE**

STANDARD REPORT DELIVERY	<input type="radio"/>
DATE DUE	
EXPEDITED REPORT DELIVERY (SURCHARGE)	<input type="radio"/>
10 day TAT DATE DUE	
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS						
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12				
4-23-13	1330	CV1235C-CS	C	X			X																	
	1340	CV1235D-CS	C	X			X																	
	1340	CV1235D-CSD	C	X			X																	
	1420	CV1324A-CS	C	X			X																	
	1459	CV0686A-CS-SP	C	X			X																	
	1503	CV0686B-CS-SP	C	X			X																	
	1522	CV0686C-GS-SP	G	X			X																	
4-23-13	1455	CV1329A-CS (sieve)	C	X																				
4-23-13	1322	CV0575A-CS-SP (sieve)	C	X																				
	0903	CV0427B-CS-SP (sieve)	C	X																				
4-23-13	1000	0423.13-RB-Sieve				X																		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-3

SDG Number: 68089695-3

**Login Number: 89695**

**List Number: 1**

**Creator: Daughtry, Beth**

**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?	N/A	
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.	True	
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: 680-89695-3

SDG Number: 68089695-3

**Login Number: 89695**

**List Number: 1**

**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**

**List Creation: 04/25/13 01:52 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.	False	

# Certification Summary

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

TestAmerica Job ID: 680-89695-3  
 SDG: 68089695-3

## 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		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
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
Georgia	State Program	4	905	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: 680-89695-3  
SDG: 68089695-3

## 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
USDA	Federal		P330-11-00177	04-20-14

1

2

3

4

5

6

7

8

9

10

11

12