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Seneca Army Depot Activity
Romulus, NY



Seneca Army Depot Activity

DRAFT

2013 LONG-TERM MONITORING ANNUAL REPORT

OPEN BURNING GROUNDS

SENECA ARMY DEPOT ACTIVITY

Contract No. W912DY-08-D-0003

Task Order No. 0015

EPA Site ID# NY0213820830

NY Site ID# 8-50-006

PARSONS

March 2014

DRAFT

2013 LONG-TERM MONITORING ANNUAL REPORT

**FOR THE OPEN BURNING GROUNDS
SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK**

Prepared for:

**U.S. ARMY, CORPS OF ENGINEERS, ENGINEERING AND SUPPORT CENTER,
HUNTSVILLE, ALABAMA**

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1.0 INTRODUCTION

This Annual Report has been prepared by Parsons Government Services, Inc. (Parsons) on behalf of the United States Army Corps of Engineers, Engineering and Support Center – Huntsville (USAESCH) and the Seneca Army Depot Activity (SEDA or the Depot) to provide a review of the long-term monitoring (LTM) activities conducted in December 2013 for the Open Burning (OB) Grounds (the Site) located at SEDA in Seneca County, New York; and to provide recommendations for future LTM at the Site.

The Record of Decision (ROD) for the OB Grounds was signed in 1999, and presented the selected remedy for addressing potential exposure to elevated levels of metals (specifically lead and copper) in the Site soils and the sediments of the adjacent Reeder Creek (Parsons, 1999). The remedy specified in the ROD is described in **Section 2.3** of this report.

Presently, quantitative monitoring of sediment quality (i.e., submitting samples for copper and lead analysis as identified in the approved remedy for the Site in the ROD) is not included as part of the LTM activities, and is discussed in further detail in **Section 1.2** of this report. In accordance with the approved remedy as presented in the ROD, the current LTM activities at the Site include the following three components:

- The annual collection and analysis of groundwater samples for analysis of lead and copper concentrations;
- The inspection of the vegetated, compacted soil cover that has been constructed over interred lead-contaminated soil as part of the Site remedial actions in order to assess if erosion or breaching of the protective cover has occurred, which could result in the potential migration of contaminated soil; and
- The inspection of Reeder Creek where the Creek abuts the OB Grounds to evaluate the potential for inward migration and redeposition of soil from the OB Grounds.

This report presents and summarizes the results of the most recent annual LTM event performed in December 2013 and provides recommendations for future LTM at the OB Grounds.

1.1 Long-Term Monitoring Activities

The OB Grounds LTM activities are being performed in accordance with the *Long-Term Monitoring Plan for the Open Burning Grounds, Final* (LTM Plan) (Parsons, 2007). Long-term monitoring activities include the collection of groundwater quality data to monitor the effectiveness of the implemented remedy at the Site for preventing future impacts to groundwater at the OB Grounds and to sediments in Reeder Creek. Additionally, monitoring of the vegetated compacted soil cover placed over the buried soils at the OB Grounds is required to assure the long-term integrity of the soil cover, including the potential mobilization and migration of lead-contaminated soil buried beneath the cover; and to prevent

direct contact with, and incidental ingestion of, soils containing lead at concentrations up to 500 mg/kg by terrestrial wildlife at the Site.

Part of the OB Grounds LTM program includes a qualitative assessment (i.e., visual inspection) of Reeder Creek for evidence of migration of material via surface water flow or groundwater transport of contaminants into the remediated section of Reeder Creek adjacent to and downgradient of the OB Grounds. The visual inspection consists of walking the creek bed (or embankment) to look for evidence of soil erosion or sloughing from the Creek embankment adjacent to the OB Grounds and/or the accumulation of sediment along the stream bed. Additionally, groundwater transport of contaminants is monitored by the annual groundwater sampling of the OB Grounds wells. Presently, quantitative monitoring of sediment quality (i.e., submitting samples for copper and lead analysis as identified in the approved remedy for the Site in the ROD) is not included as part of the LTM activities; the U.S. Army Corps of Engineers (Army), the U.S. Environmental Protection Agency (EPA), and the New York State Department of Environmental Conservation (NYSDEC) agreed that until data indicated that either groundwater transport of contaminants or soil transport from the OB Grounds was occurring, sampling and analysis of Creek sediments would not be required.

When the Army began LTM at the OB Grounds site, it was scheduled to occur on a quarterly basis. The first round (Round 1) of post-remedial action LTM was conducted between November 21, 2007 and November 28, 2007. The OB Grounds cover was first inspected on January 11, 2008. The results of the first LTM round were presented in a technical memo submitted on January 25, 2008. The second round (Round 2) of LTM sampling and cover inspections was completed between February 25, 2008 and February 26, 2008. The results of the second LTM round were presented in a technical memo submitted on May 19, 2008. The third round (Round 3) of LTM sampling and cover inspections was completed between May 20, 2008 and May 21, 2008. The results of the third monitoring round were presented in a technical memo submitted on September 16, 2008. The fourth round (Round 4) of groundwater sampling and cover inspections was completed between August 25, 2008 and August 26, 2008. The results of the fourth monitoring round were presented in a technical memo submitted on November 13, 2008. The fifth round (Round 5) of groundwater sampling and cover inspections was completed between August 2, 2010 and August 3, 2010 and the results were presented in the *Draft Final 2010 Long-term Monitoring Annual Report for the Open Burning grounds, Seneca Army Depot Activity, Romulus, New York* prepared by Parsons (March 2011). A sixth round (Round 6) of groundwater sampling and cover inspections, including an inspection of Reeder Creek, was completed between October 3, 2011 through October 6, 2011 and the results were presented in the *Final 2011 Long-term Monitoring Annual Report for the Open Burning grounds, Seneca Army Depot Activity, Romulus, New York* prepared by Parsons (May 2013). The seventh round (Round 7) of groundwater sampling and cover inspections, including an inspection of Reeder Creek, was completed between October 8, 2012 through October 10, 2012 and the results were presented in the *Final 2012 Long-term Monitoring Annual Report for the Open Burning Grounds, Seneca Army Depot Activity, Romulus, New York* prepared by Parsons (January 2014) The eighth round (Round 8) of groundwater sampling and cover inspections, including an inspection of Reeder Creek, was

completed between December 9, 2013 through December 14, 2013 and the results are documented in this report.

The results of the first four LTM rounds were combined and summarized in the *OB Grounds LTM Annual Report and Year One Review*; this document, initially submitted as a draft in December 2008, recommended changing the frequency of monitoring from quarterly to annually. In February 2009, the Army received preliminary comments from the EPA that indicated monitoring of Reeder Creek was required per terms of the OB Grounds ROD, and questioned why the results of such inspections had not been reported. The EPA also indicated that they did not concur with the Army's recommended change in monitoring frequency, and requesting that monitoring be conducted twice a year, once in the spring and again in the fall. The NYSDEC provided additional comments on the draft report in March 2009, indicating that they also believed that inspection of Reeder Creek was required but that they had no objection to the decrease in monitoring frequency from quarterly to annual.

The Army authorized the performance of an inspection of Reeder Creek as a result of these comments, but this work was delayed until April 2009 when safe access could be gained into the portion of Reeder Creek that is adjacent to the OB Grounds. The observations and conclusions of this inspection were then appended to subsequent versions of the *OB Grounds Report* (i.e., draft final, final). However, resolution of the approved monitoring frequency was not finalized until February 2010, once the final OB Grounds Report was approved by the EPA and NYSDEC and all parties agreed to an annual monitoring event frequency.

2.0 SITE BACKGROUND

2.1 Site Description

The Depot is a 10,587-acre former military facility located in Seneca County in the towns of Varick and Romulus, New York (**Figure 1**), and was owned by the United States Government and operated by the Department of the Army between 1941 and 2000. In 2000, the Army closed the Depot and assumed a caretakers' role of the property, pending the closeout of its continuing environmental obligations and the leasing or transfer of property to other public or private parties for beneficial reuse purposes. Since 2000, more than 8,250 acres of land have been transferred to other parties.

The Depot is located between Seneca Lake and Cayuga Lake and is bordered by sparsely populated farmland and New York State Highway 96 to the east, by New York State Highway 96A to the west, and by sparsely populated farmland to the north and south. The OB Grounds is located in the northwestern portion of the Depot, as shown in **Figure 1**, where the planned future use of the land is currently designated for conservation purposes. As situated, the OB Grounds sits a minimum of 1,780 feet away from the nearest Depot boundary, which is located to the west of the area of concern (AOC). The OB Grounds site sits on gently sloping terrain (**Figure 2**), and is bounded on the east by Reeder Creek, a perennial creek that is generally less than 1 foot deep and which eventually flows into Seneca Lake. The quality of surface water in Reeder Creek has been designated by the State of New York as a Class C water body (best usage of fresh water is fishing; the waters shall be suitable for fish propagation and survival). Seneca Lake is located approximately 10,000 feet west of the OB Grounds site and is used as a source of drinking water for numerous surrounding communities and the Depot.

The OB Grounds is vegetated with grass and brush and there are no permanent structures within the area other than small concrete bunkers and a metal garage structure. The former Open Detonation Area (SEAD-45) is located immediately north of the OB Grounds, and the former Explosive Ordnance Disposal Area (SEAD-57) is located approximately 4,000 to 5,000 feet south of the former OB Grounds. A Site plan of the former OB Grounds prior to the removal of contaminated soil is provided as **Figure 3**. The OB Grounds was historically used for surface burning of explosive trash and propellants.

2.2 Site Geology and Hydrology

The stratigraphy of the OB Grounds generally consists of between 2 and 10 feet of glacial till underlain by a zone of weathered bedrock (shale). The depth to groundwater in the till/weathered shale aquifer varies seasonally between approximately 2 and 7 feet below the ground surface (bgs). Infiltration of precipitation is the sole source of groundwater for the overburden aquifer. The direction of the groundwater flow in the till/weathered shale aquifer at the OB Grounds is generally to the east towards Reeder Creek as shown in **Figure 3**.

Historic groundwater elevation monitoring in wells located at the OB Grounds prior to the remedial action indicated the presence of a groundwater divide near the western edge of the Site. The approximate

location of the apparent groundwater divide found in April 1993 is highlighted on **Figure 3** and represents a high point of the upgradient groundwater flow regime. The divide diverts a portion of the groundwater to the west, or away from Reeder Creek, which lies to the east of the divide. Historic sampling results from wells located west of the identified divide suggest that the quality of groundwater has not been impacted by soils at the OB Grounds.

Pre-remedial action surface water drainage from the OB Grounds was primarily to the east-northeast via a series of man-made drainage ditches, culverts, and spillways to Reeder Creek. During the remedial action, many of the drainage ditches and culverts were destroyed or filled, altering the surface flow patterns. Additionally, the historic surface water spillways connecting the OB Grounds and Reeder Creek were plugged during the remedial action to prevent surface overflow to the creek.

Presently, little of any storm event runoff impacting the former OB Grounds reaches the creek via overland flow because it is captured in one of the numerous, localized topographic lows that are scattered throughout the AOC. The topographic lows result from the soil removal and interment remedial action performed at the AOC. The captured storm water subsequently infiltrates into the soil or evaporates.

2.3 Summary of the Remedial Action

The remedy specified in the ROD for the OB Grounds included:

- Removal of the berms surrounding the historic burn pads;
- Removal of at least 1 foot of all soils;
- Placement of a 9-inch vegetative cover over any soils with lead concentrations greater than 60 mg/kg, but less than or equal to 500 mg/kg;
- Excavation of sediments in Reeder Creek with elevated levels of copper or lead; and
- Implementation of a monitoring program for groundwater, sediment, and the capped areas.

The first four of these required remedial actions were conducted between June 1999 and May 2004 by Weston Solutions Inc. The LTM component of the remedy is currently being implemented by Parsons, with groundwater monitoring at the Site commencing in November 2007, and inspections of the cover commencing in January 2008.

The overall objective of the OB Grounds LTM program is to monitor the effectiveness of the remedial action completed at the Site with respect to preventing future groundwater quality deterioration and the erosion or breaching of the vegetated soil cover. The purpose of the soil cover is to (1) prevent incidental contact and ingestion of contaminated soil left in place at the Site, and (2) prevent the potential mobilization and migration of lead-contaminated soil interred beneath the cover. In addition to assessing the quality of Site groundwater and the integrity of the cover, the results of the periodic monitoring will

be used to assess the need for the design and implementation of any sediment monitoring program that may subsequently be needed to assess potential Site impacts to the sediment quality found in Reeder Creek per the requirements set forth in the ROD.

3.0 LONG-TERM GROUNDWATER MONITORING

The four initial rounds of groundwater monitoring conducted at the OB Grounds from November 2007 to August 2008 were reported in the *Final OB Grounds Long-Term Monitoring Annual Report and One Year Review* (Parsons, 2009). Round 5 was conducted between August 2 and August 3, 2010 and was reported in the *Draft Final 2010 Long-Term Monitoring Annual Report for the Open Burning Grounds, Seneca Army Depot Activity, Romulus, New York* (Parsons, March 2011). Round 6 was completed between October 3 and October 6, 2011, and the results were reported in the *Final Long-Term Monitoring Annual Report 2011, Open Burning (OB) Grounds, Seneca Army Depot Activity* (Parsons, 2013). Round 7 was performed from October 8 to October 10, 2012 and was reported in the *Final Long-Term Monitoring Annual Report 2012, Open Burning (OB) Grounds, Seneca Army Depot Activity* (Parsons, 2014). The most recent LTM event, Round 8, was performed from December 10 to December 11, 2013. Six monitoring wells (MW23-1, MW23-2, MW23-3, MW23-4, MW23-5, and MW23-6), which were installed in 2007 to replace the historic monitoring well network that existed at the Site prior to the remedial action, were gauged and sampled as part of these monitoring events.

Monitoring dates are summarized as follows:

- Round 1 was completed on November 28, 2007;
- Round 2 was completed on February 26, 2008;
- Round 3 was completed on May 21, 2008;
- Round 4 completed on August 26, 2008;
- Round 5 was completed on August 3, 2010;
- Round 6 was completed on October 6, 2011;
- Round 7 was completed on October 10, 2012; and
- Round 8 was completed on December 11, 2013.

The results of this most recent round (Round 8) are presented in this Report.

For each sampling round conducted at the OB Grounds, groundwater samples were collected using low-flow sampling techniques. Sampling procedures, sample handling and custody, holding times, and collection of field parameters were conducted in accordance with the *Final Sampling and Analysis Plan for Seneca Army Depot Activity* (SAP) as well as the Quality Assurance Project Plan (QAPP) which is included within the SAP (Parsons, 2005).

Groundwater samples and groundwater elevation measurements were collected from the six wells located at the OB Grounds during each of the eight monitoring rounds. Groundwater samples for the most recent round were collected and submitted to TestAmerica in Savannah, Georgia for the analysis of total copper and total lead by USEPA SW846 Method 6010C. Analytical results reported for total copper and total lead were compared to Site-specific action levels as defined in **Table 1**.

Groundwater quality parameters listed below were measured and recorded prior to sample collection and the groundwater samples were collected once parameters had stabilized within 10 percent:

- pH
- Dissolved oxygen (DO)
- Temperature
- Oxidation/reduction Potential (ORP)
- Conductivity
- Turbidity

The pH, ORP, conductivity, and temperature of the groundwater were measured with a Horiba U-52 water quality meter; turbidity was measured with a Hach 2020 Turbidity Meter; and DO content was measured with an YSI 85 Dissolved Oxygen Meter. Field parameters were measured approximately every five minutes in order to assess when the well was adequately purged and the groundwater conditions had stabilized prior to sample collection, and to assess macro-groundwater quality.

3.1 Groundwater Elevations

Groundwater levels were recorded during the LTM rounds on: November 20, 2007 (Round 1); February 25, 2008 (Round 2); May 20, 2008 (Round 3); August 25, 2008 (Round 4); August 2, 2010 (Round 5); October 3, 2011 (Round 6); October 8, 2012 (Round 7); and on December 9, 2013 (Round 8). **Table 2** presents groundwater elevation data collected during the eight monitoring rounds. Groundwater levels measured prior to the collection of groundwater samples collected during the Round 8 monitoring activities are provided in the field forms included as **Appendix A** to this report.

Although the existing Site groundwater monitoring network does not provide coverage as comprehensive as the pre-remedial action well network, present groundwater flow patterns across the Site can be interpreted via evaluation of the current groundwater elevation data and the historic pre-remedial action groundwater data. **Figure 3** shows the groundwater elevation data collected for Round 8 (December 2013) and also shows the historic groundwater contours developed from groundwater elevation data collected in April 1993. The groundwater data collected during the most recent monitoring round performed on the Site confirms a general east to northeast groundwater flow direction across the Site. The elevations observed at MW23-5 continue to be higher than those recorded at MW23-4 during the eight monitoring events (see **Table 2**). Along the eastern boundary of the OB Grounds, in proximity to Reeder Creek, the groundwater elevations measured at MW23-2 in the center of the boundary continue to appear higher than those measured at MW23-1 (located to the southeast of MW23-2 along the boundary) and MW23-3 (located to the northwest of MW23-2 along the boundary). The data suggest some flow variations to the south and the north along the Site/Reeder Creek boundary. Further, evaluation of the December 2013 groundwater elevation data in addition to evaluation of historic Site groundwater elevation data (refer to **Figure 4**) indicates that the highest groundwater elevations were recorded during

Round 8 (December 2013) monitoring event with five of the six wells (MW23-1, MW23-3, MW23-4, MW23-5, and MW23-6) at historical maximum groundwater elevations. The maximum groundwater elevation at MW23-2 occurred during Round 6 (October 2011). Equivalent maximum groundwater elevations at MW23-6 occurred during Round 2 (February 2008). The lowest groundwater elevations observed in wells MW23-1 and MW23-2 were recorded during Round 4 (August 2008), and in MW23-3 during Round 1 (November 2007). The lowest groundwater elevations observed in MW23-4, MW23-5, and MW23-6 were measured during Round 7 (October 2012).

3.2 Analytical Data

The analytical results from the groundwater samples collected during Round 8 are presented in **Table 3**, and are compared to the groundwater cleanup goals listed in **Table 1**. **Appendix B** presents the analytical results from all eight rounds of monitoring. The laboratory data sheets for Round 8 are provided in **Appendix C**. The data validation for this round of sampling can be found in **Appendix D** of this report. Round 8 groundwater samples were validated according to USEPA Region 2's *ICP-MS Data Validation for Contract Laboratory Program based on SOW ILMO5.3, HW-2b Revision 15* (USEPA, 2012a) and *Mercury and Cyanide Data Validation for Contract Laboratory Program based on SOW ILMO5.3, Revision 15* (USEPA, 2012b). The data validation of Round 8 did not report any non-compliance issues in the data package.

Total lead was not detected above the applicable EPA maximum contaminant limit (MCL) action level of 15 µg/L for groundwater in the samples collected during Round 8. Total copper was not detected above the applicable NYSDEC Class GA Groundwater Standard of 200 µg/L in the samples collected during Round 8. **Figures 5** through **10** present a summary of the groundwater sampling results for monitoring wells MW23-1 through MW23-6 from the eight rounds of monitoring conducted following the completion of the remedial action.

The LTM data supports that groundwater at the Site has not been impacted by residual levels of copper and lead that remain in the soils at the Site. Total copper has not been detected in the groundwater above the action level of 200 µg/L during the eight post remedial action sampling rounds. Total lead has not been detected in the groundwater above the action level of 15 µg/L during the eight post remedial action sampling rounds. Evaluation of the current water quality parameters measured at Site wells during current (and previous) LTM activities indicate generally mild alkaline conditions, which suggest that lead should not be readily mobile in groundwater under current Site conditions.

4.0 SOIL COVER INSPECTION

The cover inspection consisted of documenting observations of the twenty-five (25) 125-foot by 125-foot grids, where soils with residual lead concentrations between 60 mg/kg and 500 mg/kg were interred under a 9 inch-thick soil cover. The locations of the grids are shown on **Figure 11**, which is based on a figure provided by Weston Solutions in the “Completion Report for the Open Burning Grounds Soil and Sediment Remediation” (Weston Solutions, 2005) and a more recent aerial image of the OB Grounds obtained from Bing.com. The cover inspection log for the eighth monitoring inspection (December 2013) and the previous year’s (October 2012) seventh monitoring inspection log are presented in **Table 4**. Inspection forms documenting the Round 8 soil cover inspection at the Site are provided in **Appendix A**. Observations made during the cover inspection completed on December 11, 2013 are provided below.

4.1 December 2013

The soil cover was inspected on December 11, 2013. Surface conditions were frozen with pools of standing water visible across much of the Site. No animal burrowing activity was observed in any of the capped areas. Signs of past minor erosion, as noted in 2011 Annual Report, continue to be observed along the sloped edges of Grid Cell I8 adjacent to the drainage ditch (between Grid Cells J8 and J9) as a result of surface water run-off from the western portion of the Site towards Reeder Creek. The erosion area has not grown in size or depth. The sloped edges of Grid Cell I8 were also observed to have lower vegetation density than the rest of the Cell. Overall, the erosion along the edges of the soil cover in Grid Cell I8 has not changed since the October 2011 inspection and no corrective action is warranted at this time. The condition of this location will be reassessed during the next inspection event to determine if corrective measures are needed.

Signs of minor erosion were observed where the soil cover transitions to the native ground surface at the western edge of the soil cover within Grid Cell I7 and at the northern edge of the soil cover within Grid Cell I6 during the 2012 inspection. These areas where signs of minor erosion had been observed had lower vegetation density than the rest of the respective Grid Cells. The condition of these locations will be reassessed during the next inspection event and no corrective action is warranted at this time.

5.0 REEDER CREEK INSPECTION

Accessible portions of Reeder Creek adjacent to the OB Grounds were inspected on December 14, 2013. The inspection was conducted by walking along the top of the creek embankment and making observations of the creek condition. Access to all portions of the creek was limited due to a new beaver dam located within the creek which created the presence of ice/snow cover on portions of the creek. A section of Reeder Creek's embankments which was previously cleared of vegetation as part of the 2012 OD Grounds Munitions Response Action project had new vegetative growth. Debris from the brush cutting continued to be visible along the embankments and creek bottom in these areas. Observations made during the December 14, 2013 inspection are provided below.

5.1 December 2013

A visual inspection of the Reeder Creek streambed was conducted on December 14, 2013 at locations adjacent, down-gradient, and up-gradient to the OB Grounds. Per the requirements set forth in the Site-Specific Health and Safety Plan, personal protective equipment and any additional health and safety equipment was used as appropriate. Photos of Reeder Creek were taken to document the current condition of the creek and its embankments during the December 2013 inspection. Photo locations are shown on **Figure 12** and Photo #01 through Photo #22 are provided in **Appendix E**.

Overall, the conditions of Reeder Creek at locations down-gradient and adjacent to the OB Grounds were observed to consist of the exposed bedrock streambed and miscellaneous fracture shale pieces with sections containing sediment and other sections covered with thin, brown slime-like material similar to what was observed during previous annual inspections. Based on field observations, the source of the sediment is believed to be from decomposition of leaves that have accumulated within the creek bed and the tree branches that were part of the former beaver dam. Some portions of the Reeder Creek streambed from the OD Grounds to up-gradient of OB Grounds were not accessible due to high water levels ponding behind the new beaver dam. The creek embankments were brush cut in one section (refer to **Figure 12**) as part of the 2012 OD Grounds Munitions Response Action.

The inspection started at the down-gradient section of Reeder Creek within the adjacent OD Grounds and proceeded upstream inspecting the embankments and creek bottom (refer to **Figure 12**). Sediment was observed down-gradient of the OB Grounds in areas that were outside the prior creek bed excavation areas. The thin brown slime-like material measuring only a few millimeters thick was observed (similar to the previous inspections) in locations that were accessible during the December 2013 inspection. A new beaver dam (Photo #06), approximately 2-3 ft in height above the creek bedrock streambed, had backed up the water for nearly half of the creek section to be inspected. Due to this, the inspection was performed from the top of the embankment since it was not safe to navigate the section of the creek.

Portions of the Reeder Creek banks were inspected for evidence of material collapsing from the sidewalls into the creek, but the snow cover limited inspections. No collapsed material was seen in areas where the snow cover did not limit the inspections.

The spillways inspection was performed during the soil cap inspection on December 11, 2013 prior to the snow cover. Examination of the spillways where surface water from the OB Grounds to Reeder Creek found no visible evidence that overland surface water flow had transported soils from the OB Grounds into Reeder Creek. The spillways were free of accumulation of excessive debris and soil. Field observations also noted that the mechanisms that were placed at the OB Grounds to prevent surface water flow from entering the spillways were still evident and working.

5.2 Inspection Observations

As reported above, the groundwater data collected during historic sampling events as well as during the eighth round of the Long-Term Monitoring Program show no evidence of a release of total copper or total lead from the OB Grounds Site. Previous soil cover inspections did reveal that occasional animal burrows and shallow erosion depressions were present in the cover at the contaminated soil burial areas, but none of the past noted burrow holes or depressions were sufficiently sized to allow buried soils to escape their containment (these noted holes and depressions were repaired in August 2008 as part of the Army's continuing maintenance activities). Based on the December 2013 inspection there are no visible signs that OB Grounds site soils are being released via overland flow to Reeder Creek. Soil from the location in the northeast corner of Grid Cell S9 that had collapsed is not located near lead contaminated soil that was interred beneath the soil cover that was constructed during the remedial action, and there is no indication that soils from the west side of the access road have collapsed into the creek. As such, the Army does not see any evidence to suggest that a release of lead or copper above background levels is occurring from the OB Grounds site. The past detections of lead in three wells (MW23-4, MW23-5, and MW23-6) below the action level were located on the western edge of the OB Grounds (MW23-4 and MW23-5) and south of the OB Grounds (MW23-6). The absence of detectable concentrations of lead and copper in the three wells (MW23-1, MW23-2, and MW23-3) immediately adjacent to Reeder Creek supports the observation that Reeder Creek has not been impacted by lead or copper.

Based on these data and this information, the Army has not conducted sediment sampling and analysis of Reeder Creek as part of the LTM at the OB Grounds. The Army will conduct another visual inspection of the creek bed and spillways connecting the OB Grounds to Reeder Creek during the next scheduled annual monitoring event, and if evidence of overland transport of soil or groundwater migration of contaminants from the OB Grounds to Reeder Creek is identified, a plan will be prepared and submitted for approval which will identify a sediment monitoring program that will be conducted.

6.0 LONG-TERM MONITORING CONCLUSIONS AND RECOMMENDATIONS

The following conclusions can be made based on the results of the eighth round of LTM at the OB Grounds:

- Residual lead and copper concentrations remaining in the soils have not impacted groundwater at, or in the immediate vicinity of, the Site above the applicable action levels.
- The integrity of the vegetated soil cover overlying interred contaminated soils at the OB Grounds Site was intact and there was no evidence that terrestrial wildlife are exposed or will be exposed to the lead-contaminated soils interred below the 9-inch soil cover.
- The Army will continue to monitor soil cover erosion, and will note any instance of cover erosion or exposed native or interred soil.
- Based on evaluation of the groundwater data and the results of the cover inspection, there is no evidence to suggest that the OB Grounds may be contributing to the degradation of sediment quality in Reeder Creek.
- The Army will continue to inspect Reeder Creek for evidence of sediment deposition and if it is observed, a sediment sampling and analysis program plan will be prepared, submitted for approval, and implemented for Reeder Creek at locations adjacent to the OB Grounds.

Based on the result of the LTM events conducted at the OB Grounds, the Army recommends continuing the monitoring frequency of once per year. As presented and summarized above, available monitoring data shows no evidence of total lead or total copper in the groundwater above the cleanup goals subsequent to the completion of the remedial action for the Site. These findings are consistent with the groundwater analytical results obtained during the remedial investigation stage (1990s) of work at the Site, indicating that there is no evidence of groundwater quality deterioration over approximately 20 years. Further, the annual inspections of the soil cover have shown minimal evidence of erosion or animal breaching of the protective soil cover. Additionally, the examination of spillways connecting the OB Grounds to Reeder Creek indicate that measures performed to eliminate overland surface water flow the OB Grounds to Reeder Creek continue to exist and have been effective, as there is no indication that soil or debris from the OB Grounds is located in the spillways downgradient of the control measures. Finally, the inspection of Reeder Creek indicates that the bedrock that underlies the watercourse adjacent to the OB Grounds continues to be scoured by the perennial flow within the creek. There is no current indication that sediment is being redeposited at locations from which it was previously excavated. Therefore, due to the absence of any evidence that suggests contaminants of concern have been mobilized from the OB Grounds either via the groundwater or overland flow of storm-event waters, and due to the continued scouring of the creek bed by the perennial flow of water, there is no reason to develop or implement a sediment monitoring plan for Reeder Creek at this time.

The next LTM monitoring event, including groundwater sampling, soil cover inspection, and inspection of Reeder Creek, is scheduled to occur in 2014. Results of the 2014 monitoring efforts at the OB Grounds will be evaluated, and recommendations regarding changes to the frequency or extent of monitoring will be made at that time. Subsequent rounds of LTM for the OB Grounds are expected to continue annually thereafter, unless altered by mutual agreement of all parties.

7.0 REFERENCES

- Parsons, 1994. Final Remedial Investigation Report at the Open Burning (OB) Grounds, Seneca Army Depot Activity (3 Volumes).
- Parsons, 1999. Final Record of Decision, Open Burning (OB) Grounds, Seneca Army Depot Activity.
- Parsons, 2007. Final Long-Term Monitoring Plan for the Open Burning (OB) Grounds.
- Parsons, 2009. Final OB Grounds Long-Term Monitoring Annual Report and One Year Review.
- Parsons, 2011. Draft Final Long-Term Monitoring Annual Report 2010, Open Burning (OB) Grounds, Seneca Army Depot Activity.
- Parsons, 2013. Final Long-Term Monitoring Annual Report 2011, Open Burning (OB) Grounds, Seneca Army Depot Activity.
- Parsons, 2014. Final Long-Term Monitoring Annual Report 2012, Open Burning (OB) Grounds, Seneca Army Depot Activity.
- USEPA, 2012a, ICP-MS Data Validation for Contract Laboratory Program based on SOW ILMO5.3, HW-2b Revision 15, United States Environmental Protection Agency (USEPA), Region 2, December 2012.
- USEPA, 2012b, Mercury and Cyanide Data Validation for Contract Laboratory Program based on SOW ILMO5.3, HW-2c Revision 15, United States Environmental Protection Agency (USEPA), Region 2, December 2012.
- Weston Solutions, 2005. Completion Report, Soil and Sediment Remediation Open Burning Grounds, Seneca Army Depot, Romulus, New York.

TABLES

Table 1	Site-Specific Cleanup Goals for Groundwater
Table 2	Groundwater Elevation Data
Table 3	Groundwater COC Results – Round 8
Table 4	Soil Cover Inspection Log

Table 1
Site-Specific Cleanup Goals for Groundwater
OB Grounds LTM 2013 Annual Report
Seneca Army Depot Activity

ANALYTES	Action Level Water ($\mu\text{g/L}$)
Copper	200
Lead	15

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998 through addendum June 2004)
2. Lead action level is from USEPA Maximum Contaminant Limit (MCL):
www.epa.gov/safewater/mcl.html#inorganic.html

Table 2
Groundwater Elevation Data
OB Grounds LTM 2013 Annual Report
Seneca Army Depot Activity

Monitoring Well	Top of Riser Elevation (ft)	Round 1 - November 2007			Round 2 - February 2008			Round 3 - May 2008			Round 4 - August 2008			Round 5 - August 2010		
		Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date	Depth to Groundwater (ft)	Water Level Elevation (ft)
MW23-1	622.64	11/20/2007	12.00	610.64	02/25/2008	11.46	611.18	05/20/2008	11.63	611.01	08/25/2008	12.10	610.54	08/02/2010	12.06	610.58
MW23-2	622.28	11/20/2007	9.60	612.68	02/25/2008	8.78	613.50	05/20/2008	9.17	613.11	08/25/2008	9.84	612.44	08/02/2010	9.40	612.88
MW23-3	619.18	11/20/2007	10.80	608.38	02/25/2008	9.24	609.94	05/20/2008	9.68	609.50	08/25/2008	10.59	608.59	08/02/2010	9.97	609.21
MW23-4	637.11	11/20/2007	8.60	628.51	02/25/2008	3.20	633.91	05/20/2008	4.14	632.97	08/25/2008	7.82	629.29	08/02/2010	5.81	631.30
MW23-5	639.47	11/20/2007	7.00	632.47	02/25/2008	2.85	636.62	05/20/2008	5.19	634.28	08/25/2008	8.33	631.14	08/02/2010	7.51	631.96
MW23-6	632.59	11/20/2007	8.35	624.24	02/25/2008	3.78	628.81	05/20/2008	5.54	627.05	08/25/2008	10.08	622.51	08/02/2010	8.79	623.80

Monitoring Well	Top of Riser Elevation (ft)	Round 6 - October 2011			Round 7 - October 2012			Round 8 - December 2013			Historical Data			
		Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Groundwater Elevation (ft)			Well Depth (ft)
											Maximum	Minimum	Range	
MW23-1	622.64	10/03/2011	11.57	611.07	10/08/2012	11.94	610.70	12/09/2013	11.36	611.28	611.28	610.54	0.74	15.50
MW23-2	622.28	10/03/2011	6.84	615.44	10/08/2012	9.34	612.94	12/09/2013	7.72	614.56	615.44	612.44	3.00	15.50
MW23-3	619.18	10/03/2011	9.31	609.87	10/08/2012	10.65	608.53	12/09/2013	7.93	611.25	611.25	608.38	2.87	15.50
MW23-4	637.11	10/03/2011	4.47	632.64	10/08/2012	9.41	627.70	12/09/2013	3.04	634.07	634.07	627.70	6.37	17.50
MW23-5	639.47	10/03/2011	5.22	634.25	10/08/2012	9.09	630.38	12/09/2013	2.84	636.63	636.63	630.38	6.25	17.50
MW23-6	632.59	10/03/2011	9.48	623.11	10/08/2012	10.73	621.86	12/09/2013	3.79	628.80	628.81	621.86	6.95	17.60

Table 4
Soil Cover Inspection Log
OB Grounds LTM 2013 Annual Report
Seneca Army Depot Activity

Grid #	Round 7 - October 2012	Round 8 - December 2013
S8	No animal holes were observed.	No animal holes were observed.
R8	No animal holes were observed.	No animal holes were observed.
Q8	No animal holes were observed.	No animal holes were observed.
P10	No animal holes were observed.	No animal holes were observed.
L9	No animal holes were observed.	No animal holes were observed.
L8	No animal holes were observed.	No animal holes were observed. Standing water appears higher than past events.
J8	No animal holes were observed.	No animal holes were observed. Standing water surrounding the grid.
I8	No animal holes were observed. Minor surface water erosion along edge of cap. Thin vegetation cover along edge.	No animal holes were observed. Previously observed sporadic vegetation along the western edge of the grid and extending 3-4 feet into the grid. No change in previously observed run off conditions.
I6	No animal holes were observed. Minor surface water erosion along edge of cap. Thin vegetation cover along edge.	No animal holes were observed. Minor surface water erosion along the northern edge of the cap. Thin vegetation cover along edge.
J6	No animal holes were observed. Thin vegetation.	No animal holes were observed. Thin vegetation.
H9	No animal holes were observed. A few patches of sparse vegetation.	No animal holes were observed. A few patches of sparse vegetation.
D7	No animal holes were observed.	No animal holes were observed. Standing water in area of grid.
B3	SEDA OD Ground project dug thru soil cap to remove DGM anomalies on 7/13/12. Holes were filled in completely.	No animal holes were observed. Standing water in multiple locations.
I7	No animal holes were observed. Minor surface water erosion along edge of cap. Thin vegetation cover along edge of grid.	No animal holes were observed. Minor surface water erosion along the western edge of the cap. Thin vegetation cover along edge of grid.

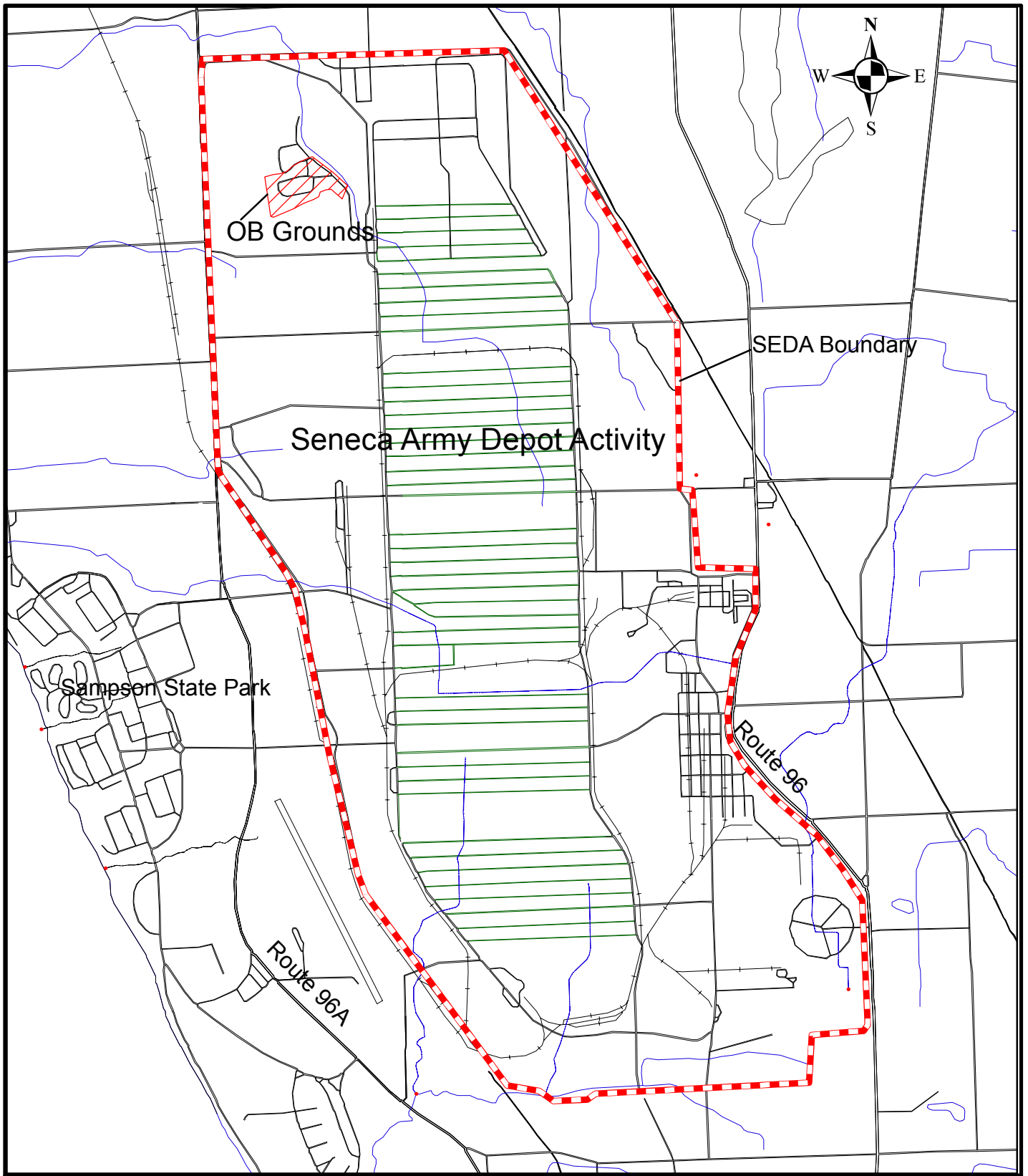
Notes:

1. All grids capped areas were inspected. Grids with no signs of erosion or other disturbances to the cover are not included in this log.

FIGURES

- Figure 1 SEDA Site Map and AOC Location
- Figure 2 Open Burning Grounds Site Map
- Figure 3 Historic Groundwater Contours and December 2013 Groundwater Elevations
- Figure 4 Groundwater Elevation Profiles
- Figure 5 Concentrations of Total Lead and Total Copper at MW23-1
- Figure 6 Concentrations of Total Lead and Total Copper at MW23-2
- Figure 7 Concentrations of Total Lead and Total Copper at MW23-3
- Figure 8 Concentrations of Total Lead and Total Copper at MW23-4
- Figure 9 Concentrations of Total Lead and Total Copper at MW23-5
- Figure 10 Concentrations of Total Lead and Total Copper at MW23-6
- Figure 11 Open Burning Grounds Soil Cover Areas and Well Locations
- Figure 12 Reeder Creek Inspection Photo Locations (December 2013)

Path: O:\Seneca\Depot Survey\SEDA_Site_Map-OB_Grounds.mxd



Approximate Boundary
of SEDA Site



Approximate Boundary
and extent of OB Grounds



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SENECA ARMY DEPOT ACTIVITY
Open Burning (OB) Grounds
LTM 2013 Annual Report

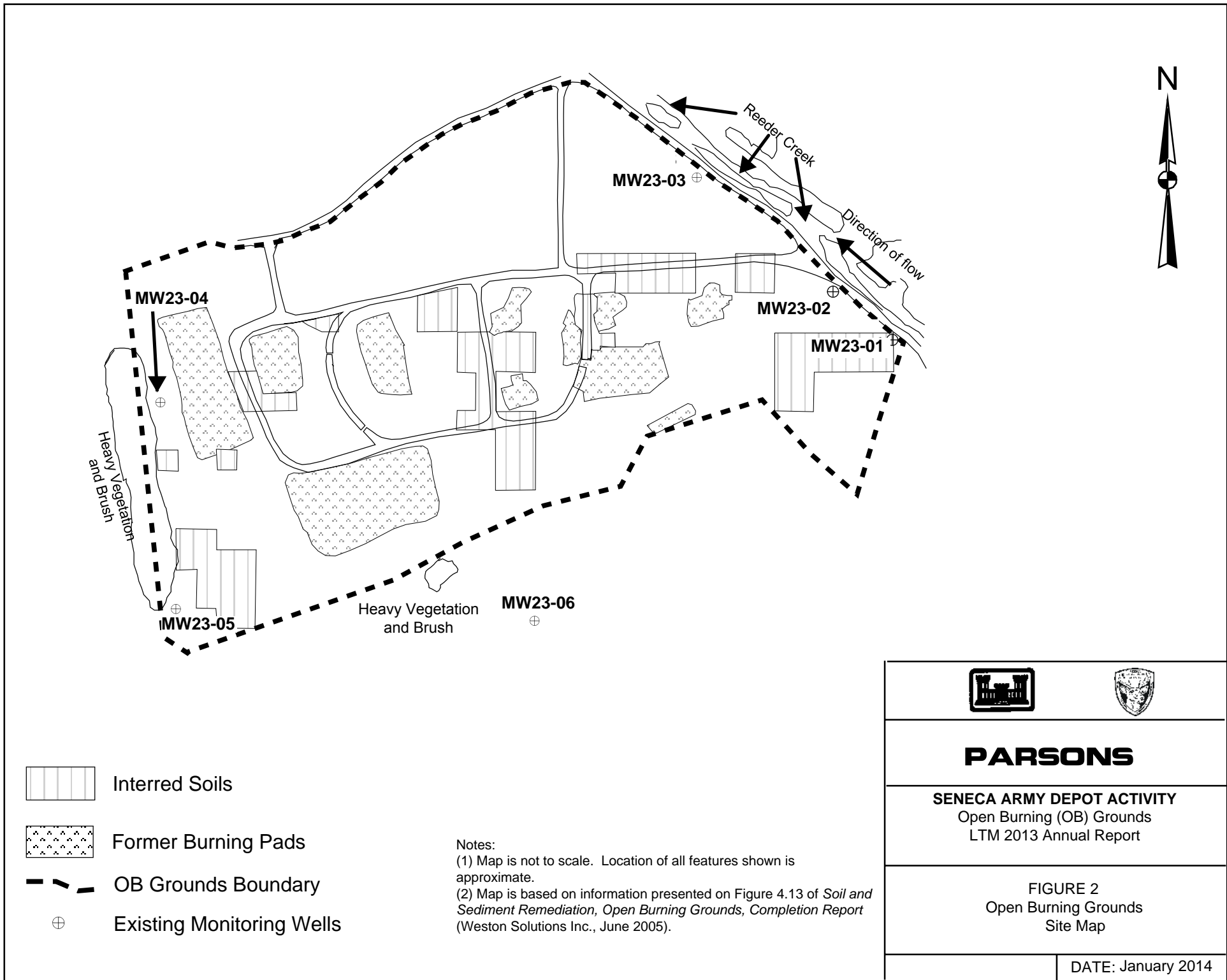
DEPT: ENVIRONMENTAL REMEDIATION

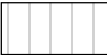
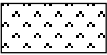


FIGURE 1

SEDA Site Map and AOC Location

EDITED BY TDV

DATE January 2014



-  Interred Soils
-  Former Burning Pads
-  OB Grounds Boundary
-  Existing Monitoring Wells

Notes:
 (1) Map is not to scale. Location of all features shown is approximate.
 (2) Map is based on information presented on Figure 4.13 of *Soil and Sediment Remediation, Open Burning Grounds, Completion Report* (Weston Solutions Inc., June 2005).

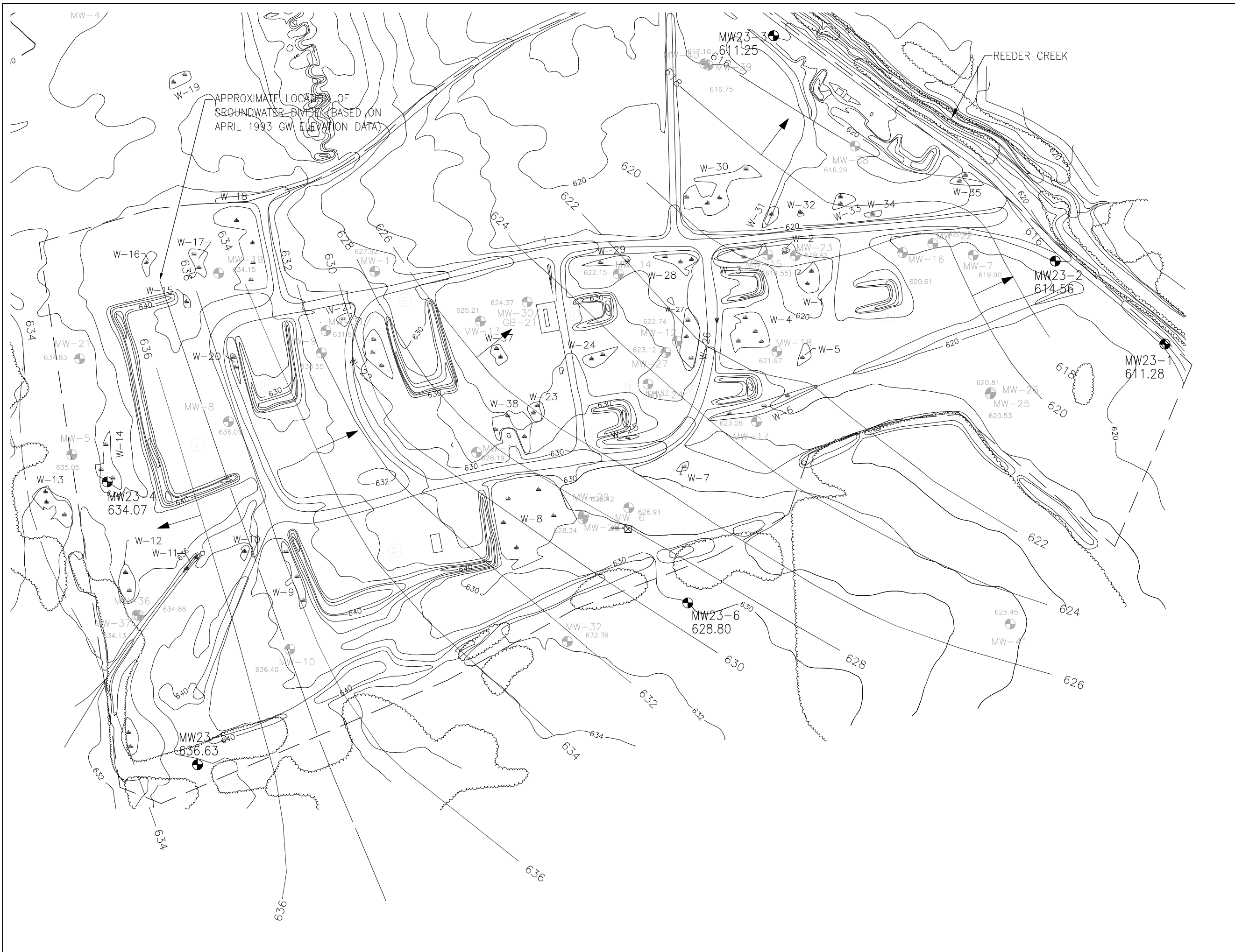


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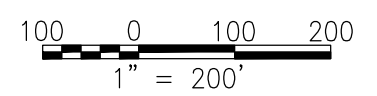
SENECA ARMY DEPOT ACTIVITY
 Open Burning (OB) Grounds
 LTM 2013 Annual Report

FIGURE 2
 Open Burning Grounds
 Site Map

DATE: January 2014



- LEGEND:**
- BURNING PAD DESIGNATION
 - SURVEY MONUMENT
 - TOPOGRAPHICAL CONTOURS
 - W-1 WETLAND & DESIGNATION
 - 611.01 CURRENT MONITORING WELL LOCATION WITH DECEMBER 2013 LTM GAUGING DATA
 - 611.01 HISTORICAL MONITORING WELLS WITH APRIL 1993 DATA
 - 618 HISTORIC GROUNDWATER ELEVATION CONTOUR (APRIL 1993) MSL DATUM
 - GENERAL GROUNDWATER FLOW DIRECTION
 - APPROXIMATE BOUNDARY AND EXTENT OF OB GROUNDS



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PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE
**SENECA ARMY DEPOT ACTIVITY
 OPEN BURNING (OB GROUNDS)
 LTM 2013 ANNUAL REPORT**

DEPT. ENVIRONMENTAL ENGINEERING PROJECT No. 748662-01400

Figure 3
 Historic Groundwater Contours and
 December 2013 Groundwater Elevations

SCALE 1" = 200' DATE JANUARY 2014 REV -

Figure 4
 Groundwater Elevation Profiles
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity

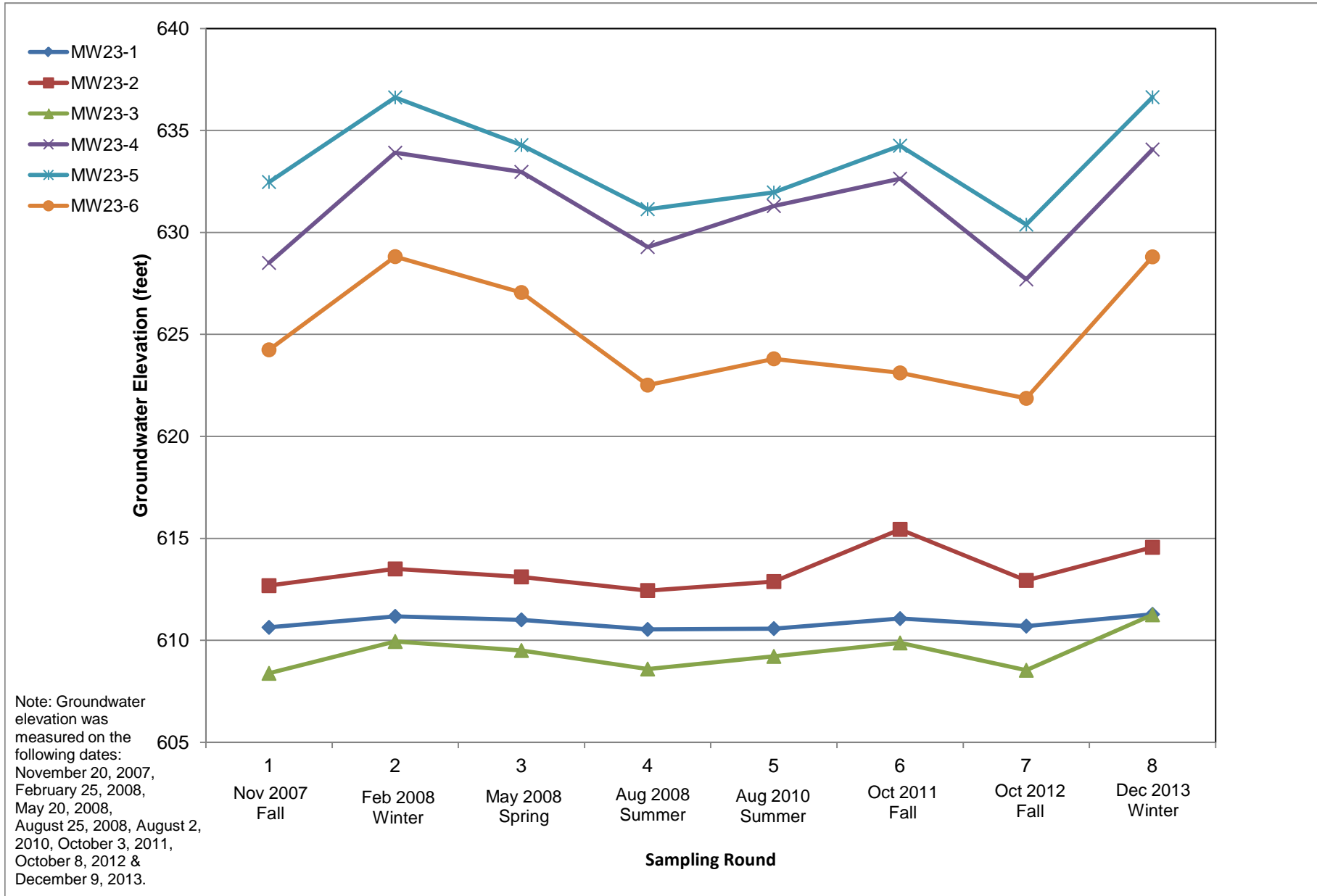
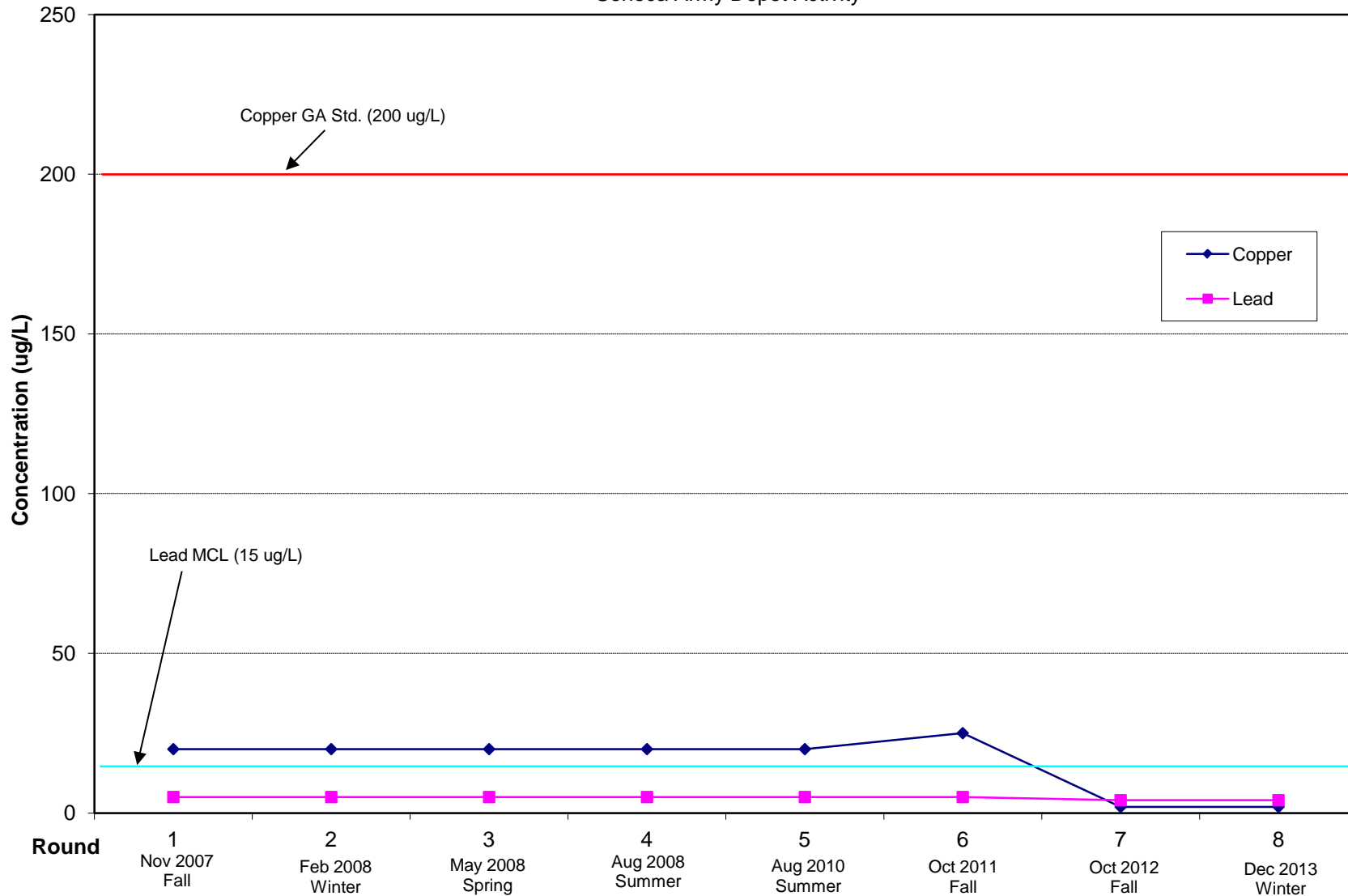


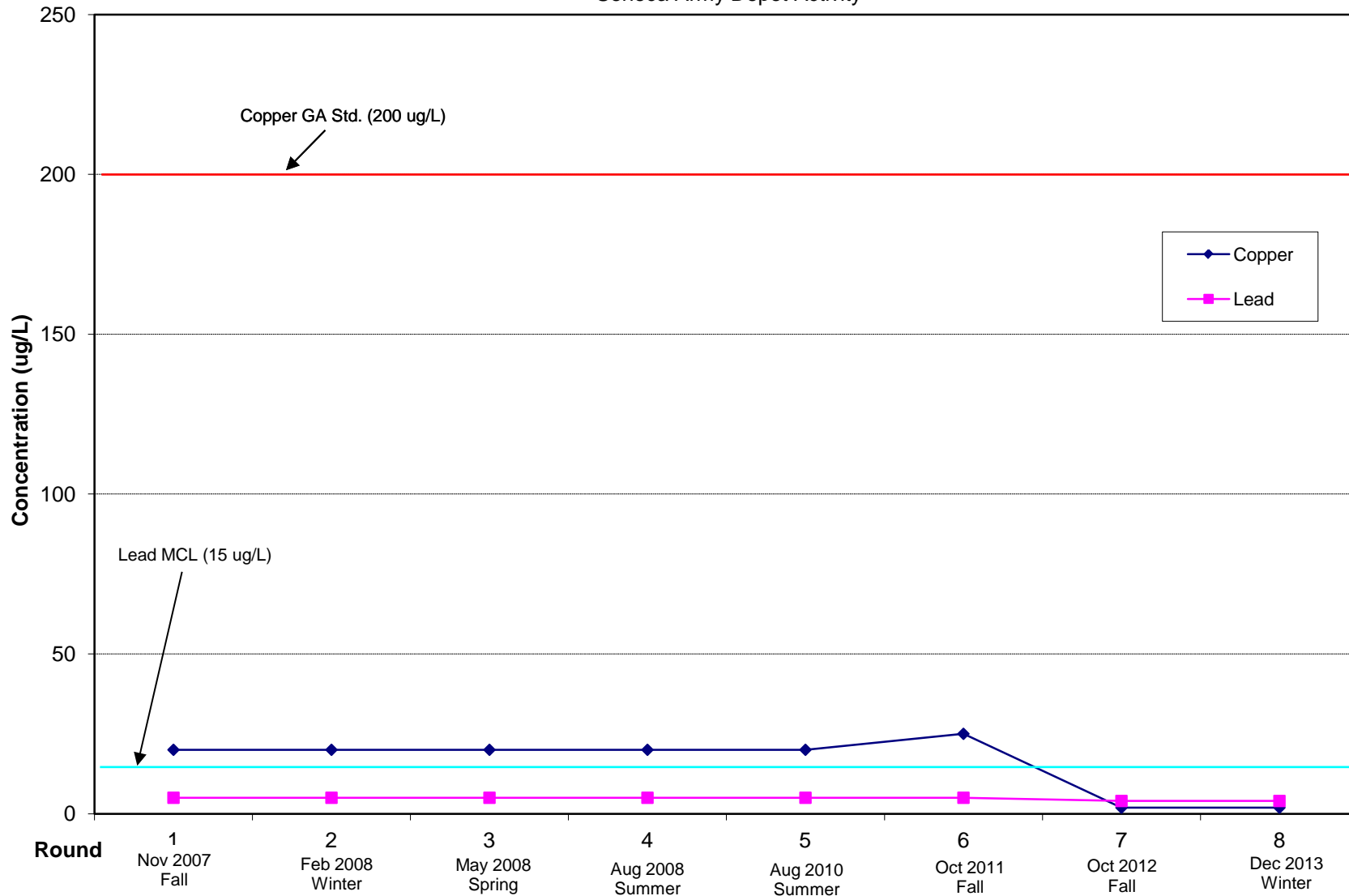
Figure 5
 Concentrations of Total Lead and Total Copper at MW23-1
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity



Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, August 2, 2010, October 3, 2011, October 9, 2012, and December 10, 2013.

Groundwater sampling was performed quarterly through August 2, 2010, and annually thereafter. Total copper and total lead concentrations in groundwater were below detection limits.

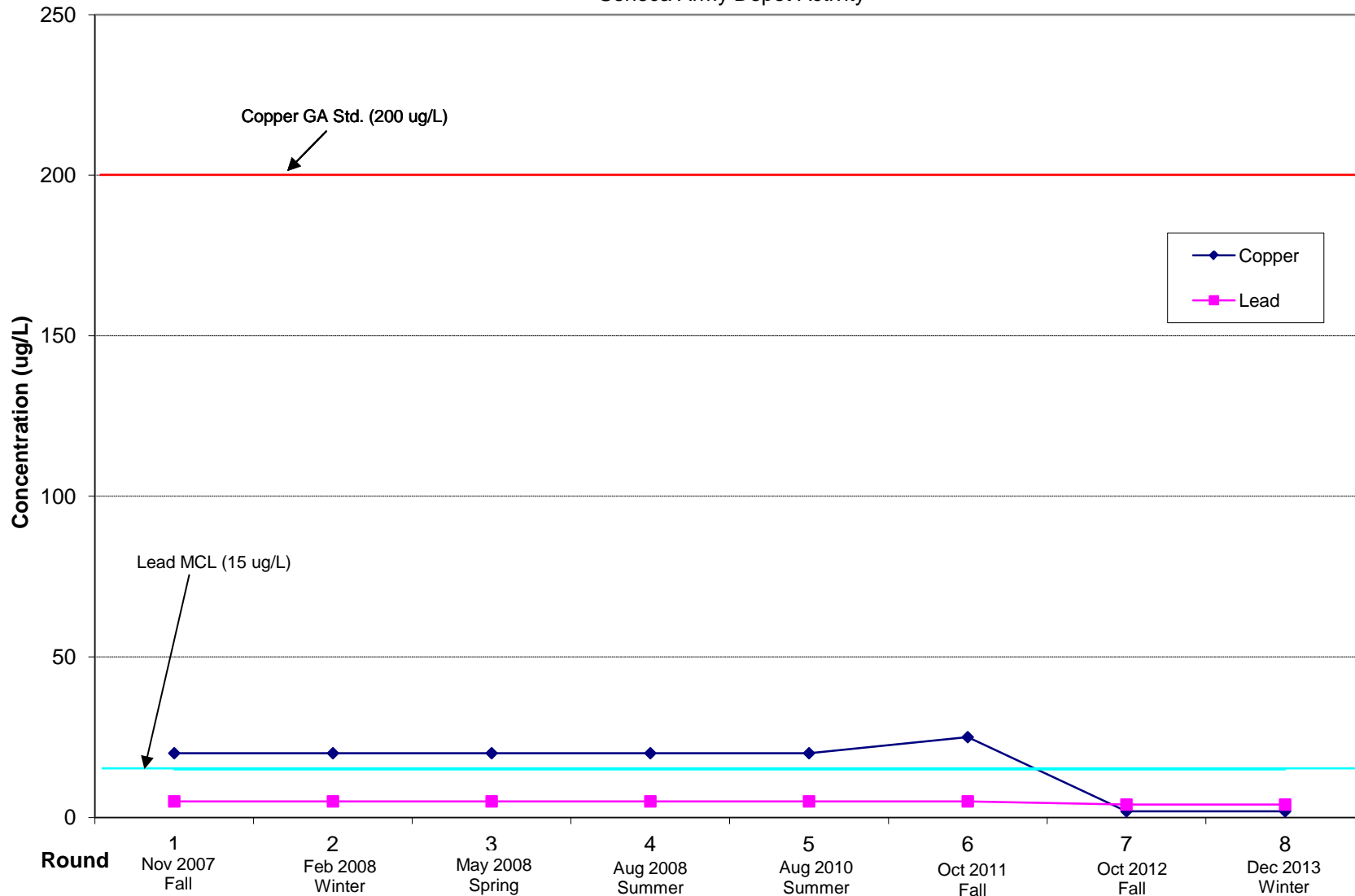
Figure 6
 Concentrations of Total Lead and Total Copper at MW23-2
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity



Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, August 2, 2010, October 3, 2011, October 9, 2012, and December 11, 2013.

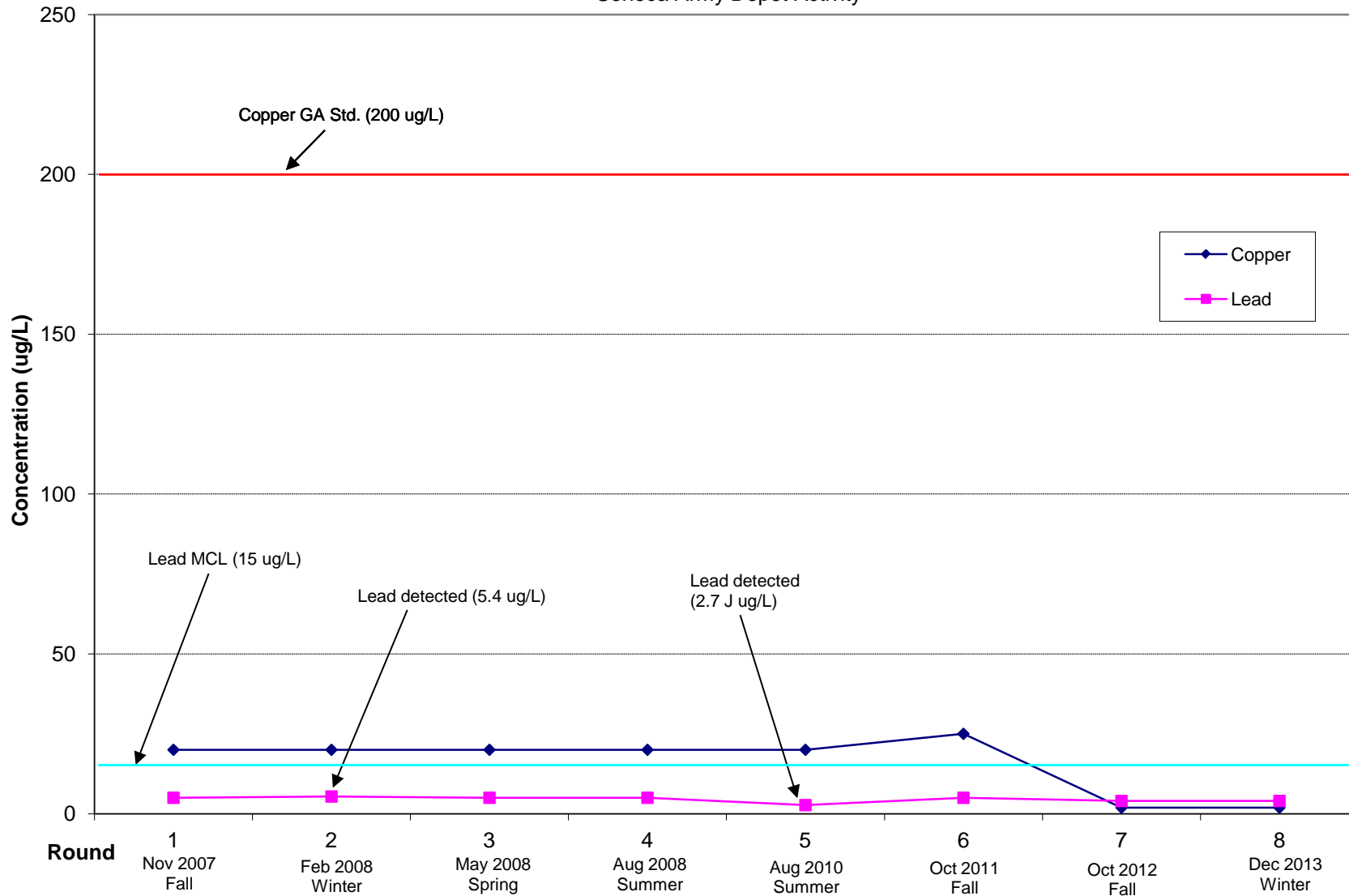
Groundwater sampling was performed quarterly through August 2, 2010, and annually thereafter. Total copper and total lead concentrations in groundwater were below detection limits.

Figure 7
 Concentrations of Total Lead and Total Copper at MW23-3
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity



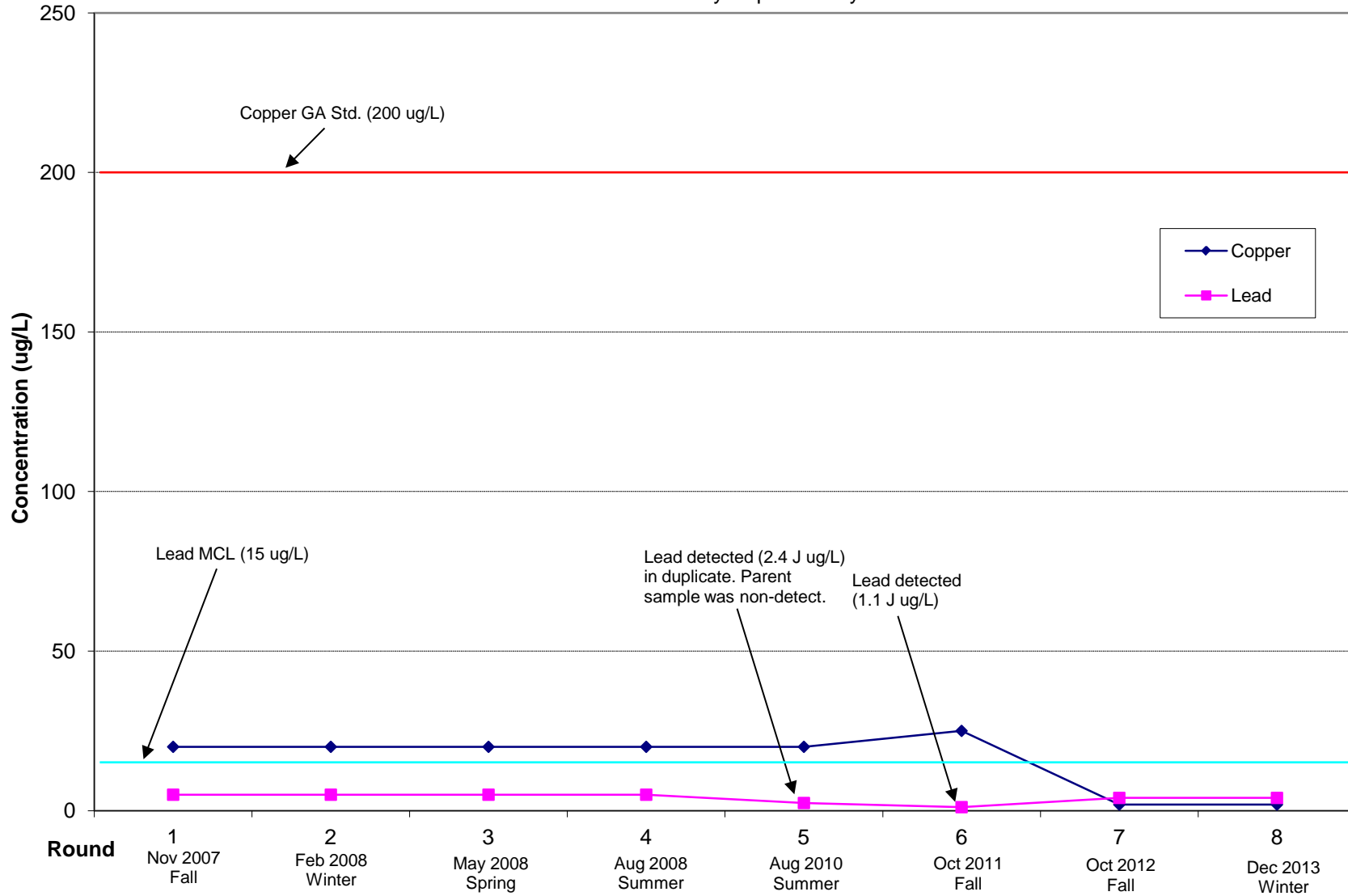
Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, August 2, 2010, October 3, 2011, October 8, 2012, and December 10, 2013. Groundwater sampling was performed quarterly through August 2, 2010, and annually thereafter. Total copper and total lead concentrations in groundwater were below detection limits.

Figure 8
 Concentrations of Total Lead and Total Copper at MW23-4
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity



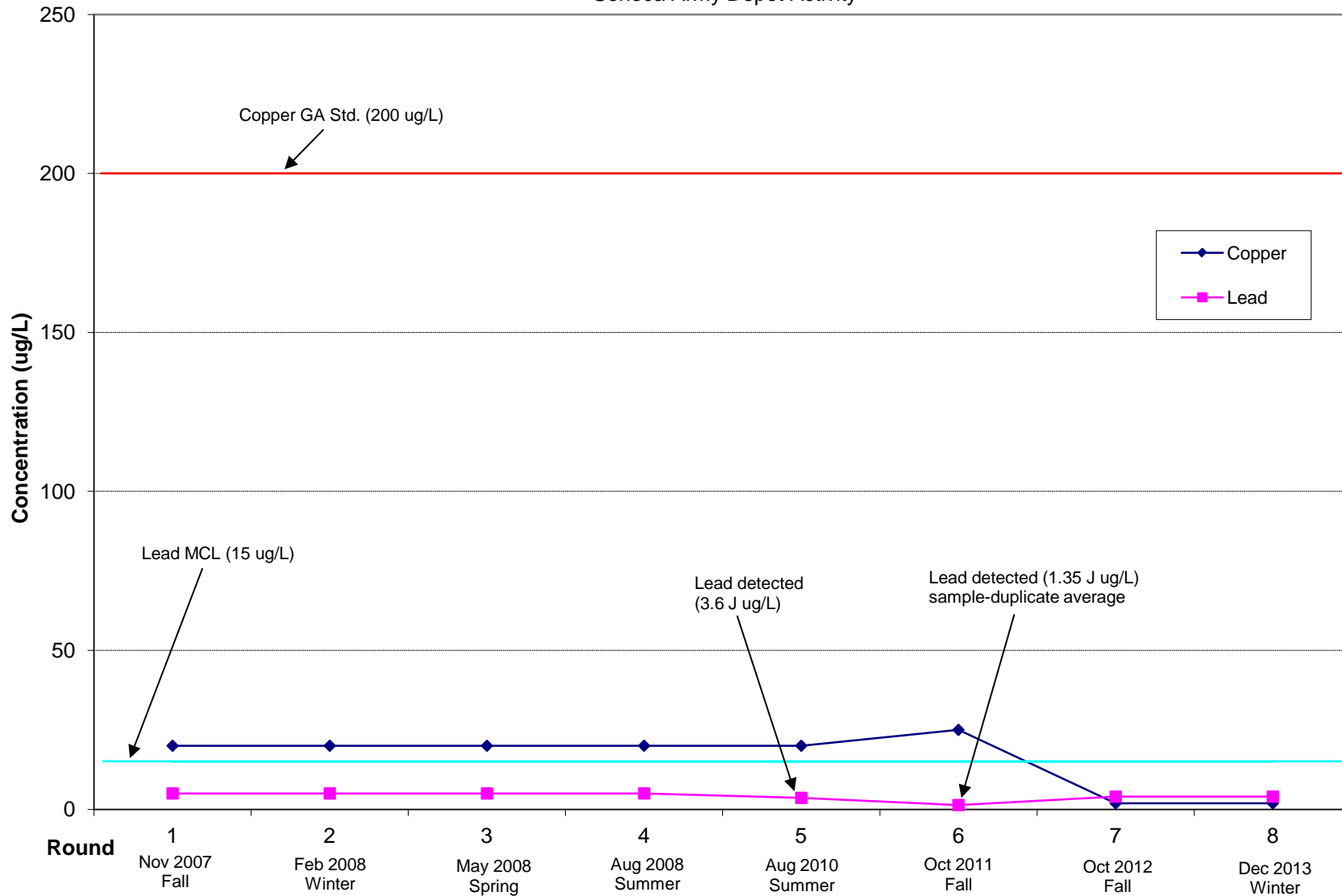
Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, August 2, 2010, October 3, 2011, October 8, 2012, and December 10, 2013. Groundwater sampling was performed quarterly through August 2, 2010, and annually thereafter. Total copper and total lead concentrations in groundwater were below detection limits except where otherwise noted.

Figure 9
 Concentrations of Total Lead and Total Copper at MW23-5
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity

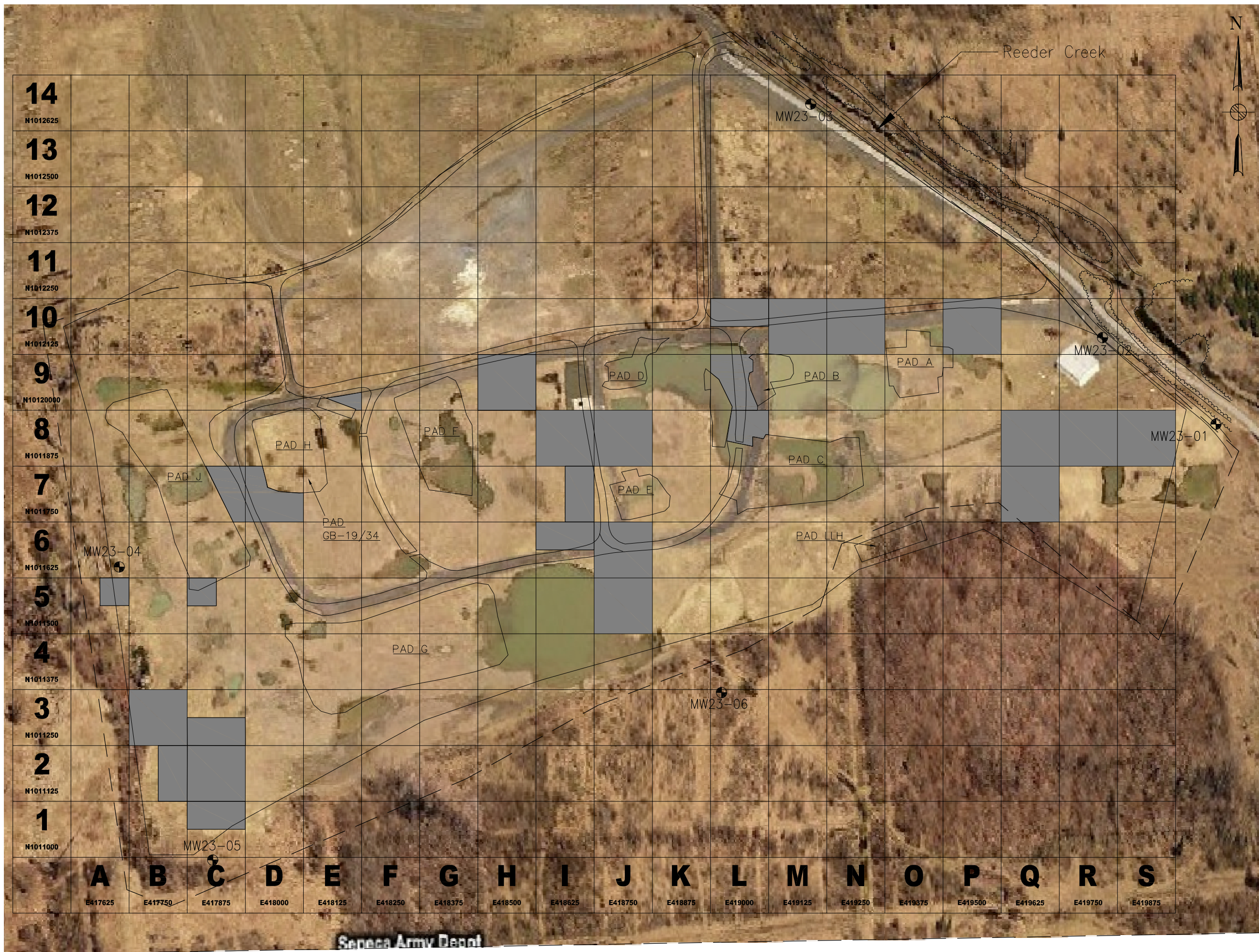


Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, August 2, 2010, October 3, 2011, October 8, 2012, and December 10, 2013.
 Groundwater sampling was performed quarterly through August 2, 2010, and annually thereafter. Total copper and total lead concentrations in groundwater were below detection limits except where otherwise noted.




Figure 10
 Concentrations of Total Lead and Total Copper at MW23-6
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity



Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, August 2, 2010, October 3, 2011, October 8, 2012, and December 10, 2013. Groundwater sampling was performed quarterly through August 2, 2010, and annually thereafter. Total copper and total lead concentrations in groundwater were below detection limits except where otherwise noted.



LEGEND

-  WELLS INSTALLED AUGUST 2007
-  AREA OF 9-INCH SOIL COVER
-  APPROXIMATE BOUNDARY AND EXTENT OF OB GROUNDS

NOTES:

1. THE SOIL COVER AND GRID LOCATIONS WERE PROVIDED BY WESTON SOLUTIONS, INC. (JUNE 2005)
2. THE FIGURE IS NOT TO SCALE. THE AERIAL IMAGE IMPORTED FROM WWW.BING.COM IS ASKEW AND DOES NOT PERFECTLY ALIGN WITH THE BASEMAP.



PARSONS



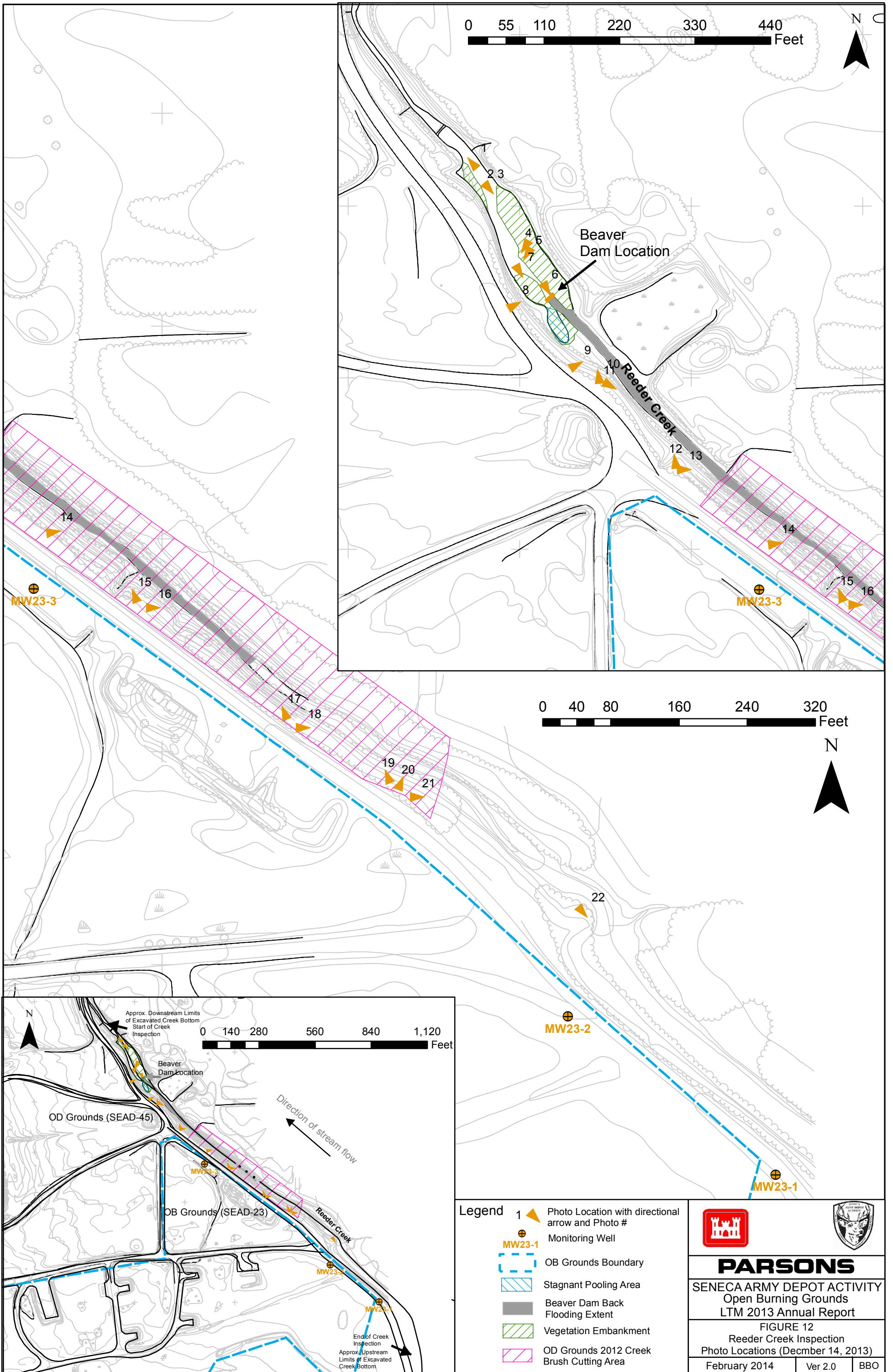
CLIENT/PROJECT TITLE

**SENECA ARMY DEPOT
OPEN BURNING (OB) GROUNDS
LTM 2013 ANNUAL REPORT**

DEPT. ENVIRONMENTAL ENGINEERING Dwg. No. 748662-01400

**Figure 11
Open Burning Grounds
Soil Cover Areas and Well Locations**

SCALE N.T.S. DATE JANUARY 2014 REV -



0 55 110 220 330 440 Feet



Beaver Dam Location

Reeder Creek

MW23-3

MW23-3

0 40 80 160 240 320 Feet



0 140 280 560 840 1,120 Feet

Approx. Downstream Limits of Excavated Creek Bottom Start of Creek Inspection

Beaver Dam Location

OD Grounds (SEAD-45)

OB Grounds (SEAD-23)

Direction of stream flow

Reeder Creek

End of Creek Inspection

Approx. Upstream Limits of Excavated Creek Bottom

- Legend**
- 1 ▲ Photo Location with directional arrow and Photo #
 - ⊕ Monitoring Well
 - MW23-1 OB Grounds Boundary
 - ▭ Stagnant Pooling Area
 - ▭ Beaver Dam Back Flooding Extent
 - ▨ Vegetation Embankment
 - ▨ OD Grounds 2012 Creek Brush Cutting Area



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SENECA ARMY DEPOT ACTIVITY
Open Burning Grounds
LTM 2013 Annual Report

FIGURE 12
Reeder Creek Inspection
Photo Locations (December 14, 2013)

February 2014

Ver 2.0

BBO

APPENDICES

- A Open Burning Grounds Long Term Monitoring Round 8 Field Forms
- B Complete Groundwater Monitoring Results for OB Grounds LTM
- C Laboratory Report
- D Data Validation
- E Reeder Creek Inspection Photos (December 2013)

APPENDIX A

OPEN BURNING GROUNDS LONG TERM MONITORING ROUND 8 FIELD FORMS

GROUNDWATER ELEVATION REPORT

PARSONS		CLIENT:				DATE: 12/9/13		
PROJECT: OB Grands LTM					PROJECT NO:			
LOCATION: SEDA					INSPECTOR: SBO/SB			
MONITORING EQUIPMENT:					WATER LEVEL INDICATOR:			COMMENTS: overcast, overnight dusting of snow
INSTRUMENT	DETECTOR	BGD	TIME	REMARKS	INSTRUMENT	CORRECTION FACTOR		
					Pin # 14047			
WELL	TIME	DEPTH TO		CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC. GRAV.	WELL STATUS / COMMENTS <small>(Lock?, Well #?, Surface Disturbance?, Riser marked?, Condition of riser, concrete, protective casing, etc.)</small>
		WATER	WELL BOTTOM					
23-1	1241	11.36	15.2					locked
23-2	1244	7.72	12.4 15.15	15.15				locked
23-3	1249	7.93	14.91					locked
23-4	1254	3.04	17.81					standing water in immediate area, locked
23-5	1258	2.84	17.63					locked
23-6	1304	3.79	17.60					locked

(ALL DEPTH MEASUREMENTS FROM MARKED LOCATION ON RISER)

SAMPLING RECORD - GROUNDWATER									
SENECA ARMY DEPOT ACTIVITY				PARSONS			WELL #: MW23-1		
PROJECT: OB Grounds LTM Groundwater Sampling - Round 8						DATE: 12/10/13			
LOCATION: ROMULUS, NY						INSPECTORS: BBO			
						PUMP #: Paristhloc			
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						SAMPLE ID #: OBLM20050			
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS	MONITORING		
				VELOCITY (APPRX)	DIRECTION (0 - 360)		INSTRUMENT	DETECTOR	
1409	26	Partly Sunny Smaller snow flurries		5-10	N-75	frozen	OVM-580	PID	
WELL VOLUME CALCULATION FACTORS DIAMETER (INCHES): 0.25 1 2 3 4 6 GALLONS / FOOT: 0.0026 0.041 0.163 0.367 0.654 1.47 LITERS/FOOT: 0.010 0.151 0.617 1.389 2.475 5.564						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]			
HISTORIC DATA		DEPTH TO POINT OF WELL (TOC)		DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC COND	
		15.2'							
DATA COLLECTED AT WELL SITE		PID READING (OPENING WELL)		DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME		
				11.48'					
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)				
MONITORING DATA COLLECTED DURING PURGING OPERATIONS									
TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1415	11.45	YSI Probe in well							
1415		Pump Started							
1425	11.63	~112		2.46	11.9	0.707	7.17	237	7.19
1429	11.63			1.58	12.1	0.720	7.13	233	4.91
1434	11.64			0.25	12.0	0.724	7.11	143	3.47
1439	11.65			0.31	12.0	0.725	7.08	120	2.82
1444	11.65		~0.75 gals	0.12	12.1	0.726	7.06	94	1.77
1449	11.65	~116		0.12	12.1	0.736	7.05	86	1.52
1454	11.65		~1.1 gals	0.11	12.1	0.732	7.04	82	1.46
1459	11.65			0.11	12.1	0.734	7.04	80	1.11
1504	11.65		~1.5 gals	0.11	12.1	0.736	7.04	80	0.82
1509	11.64			0.11	12.1	0.735	7.03	80	0.83
1515	1515	Sample Collected							
		Sample ID OBLM20050							
		Sample Time 1509-1515							
1518		Post-Sample Collection Geo Parsons (Pump Re-Start)							
1523	11.65		~2.0 gals	0.11	12.1	0.737	7.03	77	0.76

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: <u>MWZ MW23-2</u>
PROJECT: <u>OB Grounds LTM Groundwater Sampling - Round 8</u>		DATE: <u>12-11-13</u>
LOCATION: <u>ROMULUS, NY</u>		INSPECTORS: <u>Dillman</u> <u>Perrinella</u>
		PUMP #: <u>2005 # 19002</u>
		SAMPLE ID #: <u>OB LM 20051</u>

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS
				VELOCITY (APPRX)	DIRECTION (0 - 360)	
	23	cloudy, flurries		5-10	West	Frozen, thin snow cover

WELL VOLUME CALCULATION FACTORS						ONE WELL VOLUME (GAL) = ((POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT))	
DIAMETER (INCHES):	0.25	1	2	3	4	6	
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47	
LITERS / FOOT	0.010	0.151	0.617	1.389	2.475	5.564	

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		15.15				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
			8.09 ft			
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)			

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
9:15	8.09	Start Pump		YSE 02FO176	17.6	HORIBA	14.44		MARCH 19 319
9:20	8.93	110		0.30	12.2	0.604	7.33	233	4.65
9:25	9.03	102		0.31	12.2	0.609	7.33	232	4.39
9:30	9.11	102		0.15	12.2	0.619	7.34	230	3.82
9:35	9.13	102		0.07	12.2	0.623	7.34	229	3.46
9:40	9.16	102		0.26	12.2	0.625	7.36	227	3.93
9:45	9.18	102		0.26	12.3	0.631	7.35	225	2.99
9:50	9.19	104		0.07	12.3	0.631	7.37	222	2.42
9:55	9.20	104		0.05	12.3	0.634	7.37	221	2.72
10:00	9.21	102		0.07	12.3	0.636	7.38	218	1.88
10:05	9.22	102		0.05	12.4	0.630	7.38	217	1.78
10:10	9.23	102		0.05	12.3	0.627	7.38	215	1.61
10:15	9.24	102		0.08	12.4	0.627	7.39	211	1.54
10:20	9.26	102	2.05 gal	0.07	12.3	0.625	7.39	209	1.51
10:25	9.28	102		0.07	12.2	0.622	7.40	207	1.35
10:30	9.30	102		0.08	12.2	0.622	7.40	204	1.30
10:35	9.32	102		0.09	12.2	0.620	7.40	202	1.05
10:40	9.34	102		0.08	12.2	0.617	7.40	200	1.14
10:45	9.35	104		0.07	12.3	0.615	7.40	198	0.94
10:50	9.36	104	3 gal	0.07	12.3	0.615	7.41	195	0.97

Collect sample for copper & lead at 10:55
 11:05 9.35 104 0.07 12.3 0.612 7.42 194 1.06

SAMPLING RECORD - GROUNDWATER

MW23-3

Permittac

Q 110900
012488

SENECA ARMY DEPOT ACTIVITY **PARSONS** WELL #: 2463

PROJECT: OB Grounds LTM Groundwater Sampling - Round 8 DATE: 12/10/13
 LOCATION: ROMULUS, NY INSPECTORS: Dillman
 PUMP #: 14444

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						SAMPLE ID #: <u>OBLM 20052</u>		
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS	MONITORING	
				VELOCITY (APPRX)	DIRECTION (0 - 360)		INSTRUMENT	DETECTOR
							OVM-580	PID

WELL VOLUME CALCULATION FACTORS						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]	
DIAMETER (INCHES):	0.25	1	2	3	4	6	
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47	
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564	

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		<u>14.91'</u>				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
		<u>8.06'</u>				

RADIATION SCREENING DATA PUMP PRIOR TO SAMPLING (cps) PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
				<u>451 0.176 mg/L</u>		<u>Horiba 14444</u>			
1:35	8.06	Static	Pre pump	Start pump	12.40				
1:45	8.14	110		1.02	12.2	0.633	7.19	223	10.3
1:50	8.15	110		0.81	12.3	0.631	7.18	214	7.19
1:55	8.15	110		0.61	12.3	0.625	7.15	172	5.82
2:00	8.16	110		0.59	12.3	0.625	7.14	140	4.87
2:05	8.16	110		0.44	12.4	0.615	7.11	86	4.25
2:10	8.18	110		0.44	12.4	0.615	7.11	82	3.98
2:15	8.18	110	1 gal.	0.38	12.4	0.609	7.10	75	2.92
2:20	8.18	110		0.31	12.4	0.600	7.10	74	2.77
2:25	8.19	110		0.27	12.5	0.597	7.09	68	2.07
2:30	8.19	110		0.25	12.5	0.595	7.08	61	2.35
2:35	8.20	110		0.13	12.5	0.594	7.09	62	1.79
2:40	8.20	110		0.14	12.5	0.592	7.08	56	1.54
2:45	8.21	110	2 gal	0.16	12.5	0.589	7.08	54	1.47
2:50	8.21	110		0.14	12.5	0.588	7.08	51	1.48
2:55	8.21	110		0.17	12.5	0.586	7.08	49	1.71
3:00	8.21	110		0.15	12.5	0.585	7.08	48	1.36
3:05	8.21	110		0.12	12.6	0.585	7.07	46	1.32
3:10	8.21	110		0.13	12.5	0.583	7.07	44	1.33
3:15	8.21	110		0.11	12.5	0.583	7.07	44	1.17

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY **PARSONS** WELL #: MW3

MW23-3

PROJECT: OB Grounds LTM Groundwater Sampling - Round 8
 LOCATION: ROMULUS, NY
 DATE: 12/10/13
 INSPECTORS: D. J. Man
 PUMP #: 14444 Per static

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						GROUND / SITE SURFACE CONDITIONS	SAMPLE ID #: <u>OBLM20052</u>
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)		

WELL VOLUME CALCULATION FACTORS						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]	
DIAMETER (INCHES):	0.25	1	2	3	4	6	
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47	
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564	

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		<u>14.91'</u>				

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
			<u>8.06'</u>		

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
3:20	8.2	110		0.12	12.5	0.581	7.07	42	1.27
3:25	8.21	110	3 gal	0.11	12.5	0.580	7.08	42	1.17
3:30	8.21	110		0.08	12.5	0.579	7.07	42	1.06
3:35	8.21	110		0.08	12.6	0.578	7.06	40	0.95
3:40	8.21	110		0.08	12.6	0.576	7.06	40	1.05
3:45	8.21	110		0.08	12.5	0.576	7.07	40	0.99
3:50	8.21	110	3.8 gal	0.08	12.6	0.576	7.06	40	0.96
3:55			collect sample						
4:00	8.4	110		0.08	12.6	0.579	7.07	39	0.96

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY **PARSONS** WELL #: MW23-4

PROJECT: OB Grounds LTM Groundwater Sampling - Round 8 DATE: 12/10/13
 LOCATION: ROMULUS, NY INSPECTORS: B30
PUMP #: Peristaltic

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES) SAMPLE ID #: OBLM20053/54

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS	MONITORING	
				VELOCITY (APPRX)	DIRECTION (0 - 360)		INSTRUMENT	DETECTOR
1207	26	Partly sunny		5-10	N-75	Grass	OVM-580	PID

WELL VOLUME CALCULATION FACTORS						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]	
DIAMETER (INCHES):	0.25	1	2	3	4	6	
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47	
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564	

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		17.81'				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
		3.10'				

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1214	2.94	YSI Probe in well							
1214		Pump started							
1219	3.70	~128		2.80	10.4	0.576	7.98	229	15
1224	4.41	~110		2.39	10.6	0.585	8.05	231	13.2
1229	5.01			2.20	10.9	0.583	8.04	231	11.4
1234	5.30			2.46	10.9	0.581	8.12	229	17
1244	5.92	~104	~0.5 gals	0.93	10.7	0.576	8.06	230	F
1249	6.27			0.48	10.5	0.579	8.05	230	11.6
1254	6.51		~1.0 gals	0.07	10.5	0.579	8.04	230	11.1
1259	6.82			0.13	10.5	0.580	8.03	229	8.18
1304	7.17			0.12	10.6	0.576	8.03	227	8.66
1309	7.48	~110	1.25 gals	0.11	10.7	0.575	8.01	226	8.32
1314	7.79			0.11	10.8	0.578	8.00	226	7.85
1319	8.09		~1.75 gals	0.11	11.0	0.575	8.00	225	7.00
1324	8.40			0.13	10.9	0.574	7.99	217	6.96
1329	8.45	~112		0.10	11.1	0.573	7.97	218	7.02
1334	8.79		~2.15 gals	0.10	11.2	0.572	7.96	219	5.79
1346		Sample Collected		OBLM20053/MS/MSD		True	Sample ID (Dup) 1406 OBLM20054		
1351		Post-Sample Collection Ger Parans							
1356	9.33		~2.4 gals	0.11	11.5	0.577	7.92	220	5.07

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

PARSONS

WELL #: MW5

MW23-5

PROJECT: OB Grounds LTM Groundwater Sampling - Round 8
 LOCATION: ROMULUS, NY

DATE: 12/10/13
 INSPECTORS: SD
 PUMP #: 019002 Peristaltic
 SAMPLE ID #: OBLM 20055

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM)		GROUND / SITE SURFACE CONDITIONS
				VELOCITY (APPRX)	DIRECTION (0 - 360)	

MONITORING	
INSTRUMENT	DETECTOR
OVM-580	PID

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		17.63'				

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
			2.93'		

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (µmhos/cm)	pH	ORP (mV)	TURBIDITY (NTU)
10:44	2.93	static	water level.						
10:58			start pump						
11:05	3.85	180		0.94					
11:09	3.87	95		0.94	8.0	0.585	7.25	232	0.
11:15	3.91	95		0.96	8.2	0.578	7.22	235	3.89
11:20	4.02	106		0.99	8.1	0.572	7.19	238	3.66
11:25	4.07	101		0.94	8.5	0.566	7.20	237	3.76
11:30	4.09	101		0.91	8.5	0.564	7.20	236	3.80
11:35	4.11	103	1 gallons	0.90	8.7	0.563	7.19	235	3.10
11:40	4.14	103		0.89	8.8	0.560	7.19	234	2.85
11:45	4.17	103		0.89	9.0	0.559	7.21	231	3.02
11:50	4.20	103		0.88	9.0	0.559	7.21	230	3.16
11:55	4.25	104		0.89	9.1	0.559	7.21	229	2.36
12:00	4.25	103		0.89	9.1	0.559	7.22	230	2.19
12:05	4.26	105	2 gallons	0.82	9.2	0.559	7.22	230	1.84
12:10	4.28	105		0.82	9.4	0.560	7.22	231	1.75
12:15	4.31	104		0.82	9.4	0.559	7.23	228	1.93
12:20	4.33	104		0.82	9.3	0.559	7.23	228	2.01
12:25	SAMPLE WELL			for copper & lead					
12:35	4.36	104	3 gallons	0.81	9.4	0.558	7.24	227	1.94

POST SAMPLE READINGS

11690C
012488

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY		PARSONS		WELL #: <u>RMW23-6</u>				
PROJECT: <u>OB Grounds LTM Groundwater Sampling - Round 8</u>			DATE: <u>12/10/13</u>					
LOCATION: <u>ROMULUS, NY</u>			INSPECTORS: <u>BT30</u>					
WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)			PUMP #: <u>Peristaltic</u>					
			SAMPLE ID #: <u>OBLM 20056</u>					
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND (FROM) VELOCITY (APPRX)	DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT / DETECTOR	
1034	28	overcast ^{some} Flares		5-10	N-25		OVM-580	PID

WELL VOLUME CALCULATION FACTORS						ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]	
DIAMETER (INCHES):	0.25	1	2	3	4	6	
GALLONS / FOOT:	0.0026	0.041	0.165	0.367	0.654	1.47	
LITERS/FOOT	0.010	0.151	0.617	1.389	2.475	5.564	

HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
	17.60					
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME	
		3.92'				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1037	7.81	YSI Probe in well							
1037		Pump started							
1044	5.05	162		2.58	9.1	0.613	7.37	248	5.98
1049	5.58	~130		2.71	9.1	0.613	7.37	249	6.13
1054	5.93	~114		2.53	9.2	0.612	7.46	251	4.79
1059	6.68	~114		2.62	9.3	0.602	7.52	249	3.99
1104	7.19		~0.25 gals	2.59	9.5	0.608	7.53	251	4.09
1109	7.73	~106	~0.25 gals	2.77	9.7	0.610	7.51	253	4.31
1114	8.37		0.75 gals	2.54	10.6	0.610	7.52	253	4.22
1119	8.68	~108		2.06	10.7	0.611	7.53	252	4.18
1124	9.24		~1.0 gals	1.07	10.9	0.611	7.53	251	3.88
1129	9.70			1.00	11.0	0.614	7.51	248	3.38
1134	10.25		~1.5 gals	0.90	11.2	0.617	7.50	249	3.49
1139	10.70	~104	~1.75 gals	1.03	11.4	0.613	7.50	249	3.83
1150		Sample Collected							
		Sample ID OBLM20056							
		Sample Time 1150							
		Pump Re-Start							
1154		Post-Sample Collection Geo Params							
1159	11.93		~2.0 gals	0.87	11.6	0.616	7.47	250	3.69

ca

OB Grounds
Task Order #15
Round 8 Inspection

Date of Inspection: 12/11/2013

Weather Conditions: Temps ~23 F

Dusting of snow on ground.
Little affect snow all day.

Observations should include assessment of integrity of 9-inch soil cap placed over residual lead contaminated soil in 25 125'x125' grids.

Assessment should be made with respect to caps ability to ensure that indigenous terrestrial wildlife are not exposed via direct dermal contact or incidental ingestion.

Note signs of erosion or animal burrowing to ensure underlying soils are not exposed to the environment.

NA = No Evidence of animal burial or holes

	Grid No.	Observations/Location of Disturbed Soils
1	A5	NA Standing water in multiple locations, See photos
2	C5	NA "
3	B3	NA "
4	B2	NA "
5	C3	NA high ground, no
6	C2	NA "
7	C1	NA, standing water high ground although out surround area 12/11/13
8	C7	NA
9	D7	NA standing water in area of grid
10	E9	NA
11	H9	NA
12	I6	NA
13	I7	NA
14	I8	NA previously observed sporadic vegetation, along the edge of the grid extending 3-4' into grid. Also old run off, no change in condition
15	J5	Standing water on part of grid, also drainage cut would steady stream of flow
16	J6	NA
17	J8	NA standing water surround grid

OB Grounds
Task Order #15
Round 8 Inspection

	Grid No.	Observations/Location of Disturbed Soils
18	L8	NA Standing water appears higher than past events
19	L9	NA
20	L10	VA
21	M10	NA
22	N10	NA NA
23	P10	NA
24	Q7	NA
25	Q8	No Holes seen (NA)
26	R8	"
27	S8	No Holes seen (NA)

APPENDIX B

COMPLETE GROUNDWATER MONITORING RESULTS FOR OB GROUNDS LTM

Appendix B
 Complete Groundwater Monitoring Results for OB Grounds LTM
 OB Grounds LTM 2013 Annual Report
 Seneca Army Depot Activity

Area
 Loc ID
 Matrix
 Sample ID
 Sample Date
 QC Type
 Study ID
 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-1 GW OBLM20001 11/21/2007 SA LTM 1	OB Grounds MW23-1 GW OBLM20008 2/26/2008 SA LTM 2	OB Grounds MW23-1 GW OBLM20009 2/26/2008 DU LTM 2	OB Grounds MW23-1 GW OBLM20015 5/21/2008 SA LTM 3
								Value Qual	Value Qual	Value Qual	Value Qual
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	20 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	5 U	5 U	5 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
 DU = Field Sample Duplicate

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Area
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Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-1 GW OBLM20022 8/26/2008 SA LTM 4	OB Grounds MW23-1 GW OBLM20029 8/3/2010 SA LTM 5	OB Grounds MW23-1 GW OBLM20036 10/5/2011 SA LTM 6	OB Grounds MW23-1 GW OBLM20043 10/9/2012 SA LTM 7
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	25 U	1.9 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	1.87 U	1.07 U	4 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
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Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-1 GW OBLM20050 12/10/2013 SA LTM 8	OB Grounds MW23-2 GW OBLM20002 11/21/2007 SA LTM 1	OB Grounds MW23-2 GW OBLM20010 2/25/2008 SA LTM 2	OB Grounds MW23-2 GW OBLM20016 5/21/2008 SA LTM 3
Copper	UG/L	0	0%	200	0	0	56	1.9 U	20 U	20 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	4 U	5 U	5 U	5 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
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 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-2 GW OBLM20017 5/21/2008 DU LTM 3	OB Grounds MW23-2 GW OBLM20023 8/26/2008 SA LTM 4	OB Grounds MW23-2 GW OBLM20030 8/3/2010 SA LTM 5	OB Grounds MW23-2 GW OBLM20037 10/5/2011 SA LTM 6
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	20 U	25 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	5 U	1.87 U	1.07 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
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 U = compound was not detected
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 Matrix
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 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-2 GW OBLM20044 10/9/2012 SA LTM 7		OB Grounds MW23-2 GW OBLM20051 12/11/2013 SA LTM 8		OB Grounds MW23-3 GW OBLM20003 11/21/2007 SA LTM 1		OB Grounds MW23-3 GW OBLM20004 11/21/2007 DU LTM 1	
								Value	Qual	Value	Qual	Value	Qual	Value	Qual
Copper	UG/L	0	0%	200	0	0	56	1.9	U	1.9	U	20	U	20	U
Lead	UG/L	5.4	13%	15	0	7	56	4	U	4	U	5	U	5	U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
 DU = Field Sample Duplicate

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Area
 Loc ID
 Matrix
 Sample ID
 Sample Date
 QC Type
 Study ID
 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-3 GW OBLM20011 2/25/2008 SA LTM 2	OB Grounds MW23-3 GW OBLM20018 5/21/2008 SA LTM 3	OB Grounds MW23-3 GW OBLM20024 8/26/2008 SA LTM 4	OB Grounds MW23-3 GW OBLM20031 8/2/2010 SA LTM 5
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	20 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	5 U	5 U	1.87 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
 DU = Field Sample Duplicate

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 Matrix
 Sample ID
 Sample Date
 QC Type
 Study ID
 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-3 GW OBLM20038 10/4/2011 SA LTM 6	OB Grounds MW23-3 GW OBLM20045 10/8/2012 SA LTM 7	OB Grounds MW23-3 GW OBLM20046 10/8/2012 DU LTM 7	OB Grounds MW23-3 GW OBLM20052 12/10/2013 SA LTM 8
Copper	UG/L	0	0%	200	0	0	56	25 U	1.9 U	1.9 U	1.9 U
Lead	UG/L	5.4	13%	15	0	7	56	1.07 U	4 U	4 U	4 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
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Area
 Loc ID
 Matrix
 Sample ID
 Sample Date
 QC Type
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 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-4 GW OBLM20005 11/21/2007 SA LTM 1	OB Grounds MW23-4 GW OBLM20012 3/3/2008 SA LTM 2	OB Grounds MW23-4 GW OBLM20019 5/21/2008 SA LTM 3	OB Grounds MW23-4 GW OBLM20025 8/25/2008 SA LTM 4
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	20 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	5.4	5 U	5 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
 DU = Field Sample Duplicate

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Area
 Loc ID
 Matrix
 Sample ID
 Sample Date
 QC Type
 Study ID
 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-4 GW OBLM20026 8/25/2008 DU LTM 4	OB Grounds MW23-4 GW OBLM20032 8/2/2010 SA LTM 5	OB Grounds MW23-4 GW OBLM20039 10/5/2011 SA LTM 6	OB Grounds MW23-4 GW OBLM20047 10/8/2012 SA LTM 7
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	0.63 U	1.9 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	2.7 J	1.07 U	4 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
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Area
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 Matrix
 Sample ID
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 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-4 GW OBLM20053 12/10/2013 SA DU LTM 8	OB Grounds MW23-4 GW OBLM20054 12/10/2013 DU LTM 8	OB Grounds MW23-5 GW OBLM20006 11/21/2007 SA LTM 1	OB Grounds MW23-5 GW OBLM20013 2/26/2008 SA LTM 2
Copper	UG/L	0	0%	200	0	0	56	1.9 U	1.9 U	20 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	4 U	4 U	5 U	5 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
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Area
 Loc ID
 Matrix
 Sample ID
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 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-5 GW OBLM20020 5/21/2008 SA LTM 3	OB Grounds MW23-5 GW OBLM20027 8/25/2008 SA LTM 4	OB Grounds MW23-5 GW OBLM20033 8/2/2010 SA LTM 5	OB Grounds MW23-5 GW OBLM20034 8/2/2010 DU LTM 5
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	1.62 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	5 U	1.87 U	2.4 J

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
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Area
 Loc ID
 Matrix
 Sample ID
 Sample Date
 QC Type
 Study ID
 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-5 GW OBLM20040 10/4/2011 SA LTM 6	OB Grounds MW23-5 GW OBLM20048 10/8/2012 SA LTM 7	OB Grounds MW23-5 GW OBLM20055 12/10/2013 SA LTM 8	OB Grounds MW23-6 GW OBLM20007 11/28/2007 SA LTM 1
Copper	UG/L	0	0%	200	0	0	56	25 U	1.9 U	1.9 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	1.1 J	4 U	4 U	5 U

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
 DU = Field Sample Duplicate

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Area
 Loc ID
 Matrix
 Sample ID
 Sample Date
 QC Type
 Study ID
 Sample Round

Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-6 GW OBLM20014 2/26/2008 SA LTM 2	OB Grounds MW23-6 GW OBLM20021 5/20/2008 SA LTM 3	OB Grounds MW23-6 GW OBLM20028 8/26/2008 SA LTM 4	OB Grounds MW23-6 GW OBLM20035 8/3/2010 SA LTM 5
Copper	UG/L	0	0%	200	0	0	56	20 U	20 U	20 U	20 U
Lead	UG/L	5.4	13%	15	0	7	56	5 U	5 U	5 U	3.6 J

Notes:

1. Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 2. Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 3. Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
 DU = Field Sample Duplicate

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Parameter	Unit	Maximum Value	Frequency of Detection	Action Level	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	OB Grounds MW23-6 GW OBLM20041 10/5/2011 SA LTM 6		OB Grounds MW23-6 GW OBLM20042 10/5/2011 DU LTM 6		OB Grounds MW23-6 GW OBLM20049 10/8/2012 SA LTM 7		OB Grounds MW23-6 GW OBLM20056 12/10/2013 SA LTM 8	
								Value	Qual	Value	Qual	Value	Qual	Value	Qual
Copper	UG/L	0	0%	200	0	0	56	25	U	25	U	1.9	U	1.9	U
Lead	UG/L	5.4	13%	15	0	7	56	1.2	J	1.5	J	4	U	4	U

Notes:

- Copper action level is from NYSDEC Class GA Groundwater Standard (TOGS 1.1.1, June 1998).
 - Lead action level is from US EPA Maximum Contaminant Limit (MCL),
 Source <http://www.epa.gov/safewater/mcl.html#inorganic.html>
 - Round 6, 7 & 8 samples were analyzed by SW846-6010C. Rounds 1 through 5 were analyzed using SW846-6010B.
- Qual = Qualifier
 U = compound was not detected
 J = the reported value is an estimated concentration
 SA = Field Sample
 DU = Field Sample Duplicate

APPENDIX C
LABORATORY REPORT

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: 680-97147-1

Client Project/Site: Open Burning (OB) Grounds LTM

For:

Parsons Corporation

100 High Street

4th Floor

Boston, Massachusetts 02110-1713

Attn: Cris Grill

Linda A. Wolfe

Authorized for release by:

12/23/2013 5:12:17 PM

Linda Wolfe, Project Manager II

(912)354-7858 e.3005

linda.wolfe@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Job ID: 680-97147-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Parsons Corporation

Project: Open Burning (OB) Grounds LTM

Report Number: 680-97147-1

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 the event of interference or analytes present at high concentrations, samples may be 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 12/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.0 C.

METALS (ICP)

Samples OBLM20050 (680-97147-1), OBLM20051 (680-97147-2), OBLM20052 (680-97147-3), OBLM20053 (680-97147-4), OBLM20054 (680-97147-5), OBLM20055 (680-97147-6) and OBLM20056 (680-97147-7) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/17/2013 and analyzed on 12/19/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.



Sample Summary

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-97147-1	OBLM20050	Water	12/10/13 15:15	12/14/13 10:34
680-97147-2	OBLM20051	Water	12/11/13 10:55	12/14/13 10:34
680-97147-3	OBLM20052	Water	12/10/13 15:55	12/14/13 10:34
680-97147-4	OBLM20053	Water	12/10/13 13:46	12/14/13 10:34
680-97147-5	OBLM20054	Water	12/10/13 14:06	12/14/13 10:34
680-97147-6	OBLM20055	Water	12/10/13 12:25	12/14/13 10:34
680-97147-7	OBLM20056	Water	12/10/13 11:50	12/14/13 10:34



Method Summary

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SAV

Protocol References:

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



Definitions/Glossary

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Detection Summary

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Client Sample ID: OBLM20050

Lab Sample ID: 680-97147-1

No Detections.

Client Sample ID: OBLM20051

Lab Sample ID: 680-97147-2

No Detections.

Client Sample ID: OBLM20052

Lab Sample ID: 680-97147-3

No Detections.

Client Sample ID: OBLM20053

Lab Sample ID: 680-97147-4

No Detections.

Client Sample ID: OBLM20054

Lab Sample ID: 680-97147-5

No Detections.

Client Sample ID: OBLM20055

Lab Sample ID: 680-97147-6

No Detections.

Client Sample ID: OBLM20056

Lab Sample ID: 680-97147-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah



Client Sample Results

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Client Sample ID: OBLM20050

Lab Sample ID: 680-97147-1

Date Collected: 12/10/13 15:15

Matrix: Water

Date Received: 12/14/13 10:34

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 09:10	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 09:10	1

Client Sample ID: OBLM20051

Lab Sample ID: 680-97147-2

Date Collected: 12/11/13 10:55

Matrix: Water

Date Received: 12/14/13 10:34

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 09:15	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 09:15	1

Client Sample ID: OBLM20052

Lab Sample ID: 680-97147-3

Date Collected: 12/10/13 15:55

Matrix: Water

Date Received: 12/14/13 10:34

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 09:19	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 09:19	1

Client Sample ID: OBLM20053

Lab Sample ID: 680-97147-4

Date Collected: 12/10/13 13:46

Matrix: Water

Date Received: 12/14/13 10:34

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 09:24	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 09:24	1

Client Sample ID: OBLM20054

Lab Sample ID: 680-97147-5

Date Collected: 12/10/13 14:06

Matrix: Water

Date Received: 12/14/13 10:34

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 09:55	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 09:55	1

Client Sample ID: OBLM20055

Lab Sample ID: 680-97147-6

Date Collected: 12/10/13 12:25

Matrix: Water

Date Received: 12/14/13 10:34

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 10:16	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 10:16	1

TestAmerica Savannah

Client Sample Results

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Client Sample ID: OBLM20056

Lab Sample ID: 680-97147-7

Date Collected: 12/10/13 11:50

Matrix: Water

Date Received: 12/14/13 10:34

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 10:30	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 10:30	1

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QC Sample Results

Client: Parsons Corporation
 Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-308037/1-A
Matrix: Water
Analysis Batch: 308417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		20	1.9	ug/L		12/17/13 14:59	12/19/13 08:51	1
Lead	ND		10	4.0	ug/L		12/17/13 14:59	12/19/13 08:51	1

Lab Sample ID: LCS 680-308037/2-A
Matrix: Water
Analysis Batch: 308417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	100	97.4		ug/L		97	75 - 125
Lead	50.0	49.4		ug/L		99	75 - 125

Lab Sample ID: 680-97147-4 MS
Matrix: Water
Analysis Batch: 308417

Client Sample ID: OBLM20053
Prep Type: Total/NA
Prep Batch: 308037

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	ND		100	94.6		ug/L		95	75 - 125
Lead	ND		50.0	45.2		ug/L		90	75 - 125

Lab Sample ID: 680-97147-4 MSD
Matrix: Water
Analysis Batch: 308417

Client Sample ID: OBLM20053
Prep Type: Total/NA
Prep Batch: 308037

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Copper	ND		100	95.6		ug/L		96	75 - 125	1	20
Lead	ND		50.0	44.5		ug/L		89	75 - 125	2	20

QC Association Summary

Client: Parsons Corporation
 Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Metals

Prep Batch: 308037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97147-1	OBLM20050	Total/NA	Water	3010A	
680-97147-2	OBLM20051	Total/NA	Water	3010A	
680-97147-3	OBLM20052	Total/NA	Water	3010A	
680-97147-4	OBLM20053	Total/NA	Water	3010A	
680-97147-4 MS	OBLM20053	Total/NA	Water	3010A	
680-97147-4 MSD	OBLM20053	Total/NA	Water	3010A	
680-97147-5	OBLM20054	Total/NA	Water	3010A	
680-97147-6	OBLM20055	Total/NA	Water	3010A	
680-97147-7	OBLM20056	Total/NA	Water	3010A	
LCS 680-308037/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-308037/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 308417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-97147-1	OBLM20050	Total/NA	Water	6010C	308037
680-97147-2	OBLM20051	Total/NA	Water	6010C	308037
680-97147-3	OBLM20052	Total/NA	Water	6010C	308037
680-97147-4	OBLM20053	Total/NA	Water	6010C	308037
680-97147-4 MS	OBLM20053	Total/NA	Water	6010C	308037
680-97147-4 MSD	OBLM20053	Total/NA	Water	6010C	308037
680-97147-5	OBLM20054	Total/NA	Water	6010C	308037
680-97147-6	OBLM20055	Total/NA	Water	6010C	308037
680-97147-7	OBLM20056	Total/NA	Water	6010C	308037
LCS 680-308037/2-A	Lab Control Sample	Total/NA	Water	6010C	308037
MB 680-308037/1-A	Method Blank	Total/NA	Water	6010C	308037

Lab Chronicle

Client: Parsons Corporation
 Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Client Sample ID: OBLM20050

Lab Sample ID: 680-97147-1

Date Collected: 12/10/13 15:15

Matrix: Water

Date Received: 12/14/13 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			308037	12/17/13 14:59	BJB	TAL SAV
Total/NA	Analysis	6010C		1	308417	12/19/13 09:10	BCB	TAL SAV

Client Sample ID: OBLM20051

Lab Sample ID: 680-97147-2

Date Collected: 12/11/13 10:55

Matrix: Water

Date Received: 12/14/13 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			308037	12/17/13 14:59	BJB	TAL SAV
Total/NA	Analysis	6010C		1	308417	12/19/13 09:15	BCB	TAL SAV

Client Sample ID: OBLM20052

Lab Sample ID: 680-97147-3

Date Collected: 12/10/13 15:55

Matrix: Water

Date Received: 12/14/13 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			308037	12/17/13 14:59	BJB	TAL SAV
Total/NA	Analysis	6010C		1	308417	12/19/13 09:19	BCB	TAL SAV

Client Sample ID: OBLM20053

Lab Sample ID: 680-97147-4

Date Collected: 12/10/13 13:46

Matrix: Water

Date Received: 12/14/13 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			308037	12/17/13 14:59	BJB	TAL SAV
Total/NA	Analysis	6010C		1	308417	12/19/13 09:24	BCB	TAL SAV

Client Sample ID: OBLM20054

Lab Sample ID: 680-97147-5

Date Collected: 12/10/13 14:06

Matrix: Water

Date Received: 12/14/13 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			308037	12/17/13 14:59	BJB	TAL SAV
Total/NA	Analysis	6010C		1	308417	12/19/13 09:55	BCB	TAL SAV

Client Sample ID: OBLM20055

Lab Sample ID: 680-97147-6

Date Collected: 12/10/13 12:25

Matrix: Water

Date Received: 12/14/13 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			308037	12/17/13 14:59	BJB	TAL SAV
Total/NA	Analysis	6010C		1	308417	12/19/13 10:16	BCB	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Parsons Corporation
Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

Client Sample ID: OBLM20056

Lab Sample ID: 680-97147-7

Date Collected: 12/10/13 11:50

Matrix: Water

Date Received: 12/14/13 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			308037	12/17/13 14:59	BJB	TAL SAV
Total/NA	Analysis	6010C		1	308417	12/19/13 10:30	BCB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Inc.
 5102 LaRoche Avenue
 Savannah, GA 31404
 Ph: 912-354-7858
 Fax:
 Website: www.testamerica.com

Serial or COC #: 13-12-13_2
 Possible Hazards: Unknown
 Sample Disposal: Lab Disposal

PROJECT & CLIENT INFORMATION		Project State	
PROJECT NO. 748652-01400	CONTRACT/QUOTE NO. 748652-01400	NY	
CLIENT NAME Linda Wolfe	CLIENT PHONE 617-286-8821 (BBO) 617-449-1553 (CG)	CLIENT FAX 617-948-8777	
CLIENT ADDRESS 100 High Street, Boston, MA 02110	CLIENT EMAIL Brendan.Baranek-Olmstead@parsons.com Chris.Gill@parsons.com	CLIENT FAX 617-948-8777	
Samplers Signature & Initials:			

LABORATORY SAMPLE ID	SAMPLE TYPE	FIELD FILTERED	MATRIX	SAMPLE IDENTIFICATION		REMARKS
				DATE	TIME	
G	N	GW	1	12/10/2013	1515	OBLM20050
G	N	GW	1	12/11/2013	1055	OBLM20051
G	N	GW	1	12/10/2013	1555	OBLM20052
G	N	GW	1	12/10/2013	1346	OBLM20053
G	N	GW	1	12/10/2013	1346	OBLM20053MS
G	N	GW	1	12/10/2013	1346	OBLM20053MSD
G	N	GW	1	12/10/2013	1408	OBLM20054
G	N	GW	1	12/10/2013	1225	OBLM20055
G	N	GW	1	12/10/2013	1150	OBLM20056

RELINQUISHED BY: (SIGNATURE) Brendan Baranek-Olmstead	DATE 12/13/13	TIME 1845	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Blonke</i>	DATE 12/11/13	TIME 1039	CUSTODY INTACT YES NO	8
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4.0%
~~680-97147~~
 680-97147
 12/11/13

per J. Kibard
 12/11/13



Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 680-97147-1

Login Number: 97147

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

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.	False	COC not present in cooler, received via e-mail from client
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
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	

Certification Summary

Client: Parsons Corporation
 Project/Site: Open Burning (OB) Grounds LTM

TestAmerica Job ID: 680-97147-1

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
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13 *
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13 *
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13 *
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13 *
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
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	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13 *
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

* Expired certification is currently pending renewal and is considered valid.

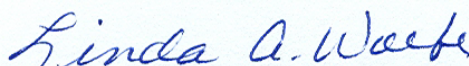
TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-97147-1

Job Description: Open Burning (OB) Grounds LTM

For:
Parsons Corporation
100 High Street
4th Floor
Boston, MA 02110-1713
Attention: Cris Grill



Approved for release.
Linda A Wolfe
Project Manager II
12/24/2013 11:05 AM

Linda A Wolfe, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3005
linda.wolfe@testamericainc.com
12/24/2013

cc: Ms. Julia Kiberd

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; 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



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CASE NARRATIVE

Client: Parsons Corporation

Project: Open Burning (OB) Grounds LTM

Report Number: 680-97147-1

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 the event of interference or analytes present at high concentrations, samples may be 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 12/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.0 C.

METALS (ICP)

Samples OBLM20050 (680-97147-1), OBLM20051 (680-97147-2), OBLM20052 (680-97147-3), OBLM20053 (680-97147-4), OBLM20054 (680-97147-5), OBLM20055 (680-97147-6) and OBLM20056 (680-97147-7) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/17/2013 and analyzed on 12/19/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Parsons Corporation

Job Number: 680-97147-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-97147-1	OBLM20050	Water	12/10/2013 1515	12/14/2013 1034
680-97147-2	OBLM20051	Water	12/11/2013 1055	12/14/2013 1034
680-97147-3	OBLM20052	Water	12/10/2013 1555	12/14/2013 1034
680-97147-4	OBLM20053	Water	12/10/2013 1346	12/14/2013 1034
680-97147-4MS	OBLM20053	Water	12/10/2013 1346	12/14/2013 1034
680-97147-4MSD	OBLM20053	Water	12/10/2013 1346	12/14/2013 1034
680-97147-5	OBLM20054	Water	12/10/2013 1406	12/14/2013 1034
680-97147-6	OBLM20055	Water	12/10/2013 1225	12/14/2013 1034
680-97147-7	OBLM20056	Water	12/10/2013 1150	12/14/2013 1034

EXECUTIVE SUMMARY - Detections

Client: Parsons Corporation

Job Number: 680-97147-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
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No Detections

METHOD SUMMARY

Client: Parsons Corporation

Job Number: 680-97147-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Total Metals	TAL SAV		SW846 3010A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

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

METHOD / ANALYST SUMMARY

Client: Parsons Corporation

Job Number: 680-97147-1

Method	Analyst	Analyst ID
SW846 6010C	Bland, Brian C	BCB

Analytical Data

Client: Parsons Corporation

Job Number: 680-97147-1

Client Sample ID: OBLM20050

Lab Sample ID: 680-97147-1

Date Sampled: 12/10/2013 1515

Client Matrix: Water

Date Received: 12/14/2013 1034

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-308417	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 0910			Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Analytical Data

Client: Parsons Corporation

Job Number: 680-97147-1

Client Sample ID: OBLM20051

Lab Sample ID: 680-97147-2
Client Matrix: Water

Date Sampled: 12/11/2013 1055
Date Received: 12/14/2013 1034

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-308417	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 0915			Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Analytical Data

Client: Parsons Corporation

Job Number: 680-97147-1

Client Sample ID: OBLM20052

Lab Sample ID: 680-97147-3

Date Sampled: 12/10/2013 1555

Client Matrix: Water

Date Received: 12/14/2013 1034

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-308417	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 0919			Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Analytical Data

Client: Parsons Corporation

Job Number: 680-97147-1

Client Sample ID: OBLM20053

Lab Sample ID: 680-97147-4
Client Matrix: Water

Date Sampled: 12/10/2013 1346
Date Received: 12/14/2013 1034

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-308417	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 0924			Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Analytical Data

Client: Parsons Corporation

Job Number: 680-97147-1

Client Sample ID: OBLM20054

Lab Sample ID: 680-97147-5

Date Sampled: 12/10/2013 1406

Client Matrix: Water

Date Received: 12/14/2013 1034

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-308417	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 0955			Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Analytical Data

Client: Parsons Corporation

Job Number: 680-97147-1

Client Sample ID: OBLM20055

Lab Sample ID: 680-97147-6

Date Sampled: 12/10/2013 1225

Client Matrix: Water

Date Received: 12/14/2013 1034

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-308417	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 1016			Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Analytical Data

Client: Parsons Corporation

Job Number: 680-97147-1

Client Sample ID: OBLM20056

Lab Sample ID: 680-97147-7

Date Sampled: 12/10/2013 1150

Client Matrix: Water

Date Received: 12/14/2013 1034

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-308417	Instrument ID:	ICPE
Prep Method:	3010A	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 1030			Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Quality Control Results

Client: Parsons Corporation

Job Number: 680-97147-1

Method Blank - Batch: 680-308037

Lab Sample ID: MB 680-308037/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/19/2013 0851
 Prep Date: 12/17/2013 1459
 Leach Date: N/A

Analysis Batch: 680-308417
 Prep Batch: 680-308037
 Leach Batch: N/A
 Units: ug/L

**Method: 6010C
 Preparation: 3010A**

Instrument ID: ICPE
 Lab File ID: E12182013FINAL.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Copper	ND		1.9	20
Lead	ND		4.0	10

Lab Control Sample - Batch: 680-308037

Lab Sample ID: LCS 680-308037/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/19/2013 0855
 Prep Date: 12/17/2013 1459
 Leach Date: N/A

Analysis Batch: 680-308417
 Prep Batch: 680-308037
 Leach Batch: N/A
 Units: ug/L

**Method: 6010C
 Preparation: 3010A**

Instrument ID: ICPE
 Lab File ID: E12182013FINAL.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Copper	100	97.4	97	75 - 125	
Lead	50.0	49.4	99	75 - 125	

Post Digestion Spike - Batch: 680-308037

Lab Sample ID: 680-97147-4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 12/19/2013 0934
 Prep Date: 12/17/2013 1459
 Leach Date: N/A

Analysis Batch: 680-308417
 Prep Batch: 680-308037
 Leach Batch: N/A
 Units: ug/L

**Method: 6010C
 Preparation: 3010A**

Instrument ID: ICPE
 Lab File ID: E12182013FINAL.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Copper	ND	200	192	96	75 - 125	
Lead	ND	200	182	91	75 - 125	

Quality Control Results

Client: Parsons Corporation

Job Number: 680-97147-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-308037**

**Method: 6010C
Preparation: 3010A**

MS Lab Sample ID: 680-97147-4	Analysis Batch: 680-308417	Instrument ID: ICPE
Client Matrix: Water	Prep Batch: 680-308037	Lab File ID: E12182013FINAL.csv
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 12/19/2013 0939		Final Weight/Volume: 50 mL
Prep Date: 12/17/2013 1459		
Leach Date: N/A		

MSD Lab Sample ID: 680-97147-4	Analysis Batch: 680-308417	Instrument ID: ICPE
Client Matrix: Water	Prep Batch: 680-308037	Lab File ID: E12182013FINAL.csv
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 12/19/2013 0950		Final Weight/Volume: 50 mL
Prep Date: 12/17/2013 1459		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Copper	95	96	75 - 125	1	20		
Lead	90	89	75 - 125	2	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-308037**

**Method: 6010C
Preparation: 3010A**

MS Lab Sample ID: 680-97147-4	Units: ug/L	MSD Lab Sample ID: 680-97147-4
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 12/19/2013 0939		Analysis Date: 12/19/2013 0950
Prep Date: 12/17/2013 1459		Prep Date: 12/17/2013 1459
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Copper	ND	100	100	94.6	95.6
Lead	ND	50.0	50.0	45.2	44.5

Quality Control Results

Client: Parsons Corporation

Job Number: 680-97147-1

Serial Dilution - Batch: 680-308037

Method: 6010C
Preparation: 3010A

Lab Sample ID:	680-97147-4	Analysis Batch:	680-308417	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-308037	Lab File ID:	E12182013FINAL.csv
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2013 0929	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/17/2013 1459				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Copper	ND	ND	NC	10	
Lead	ND	ND	NC	10	

DATA REPORTING QUALIFIERS

Client: Parsons Corporation

Job Number: 680-97147-1

Lab Section	Qualifier	Description
Metals	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Parsons Corporation

Job Number: 680-97147-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-308037					
LCS 680-308037/2-A	Lab Control Sample	T	Water	3010A	
MB 680-308037/1-A	Method Blank	T	Water	3010A	
680-97147-1	OBLM20050	T	Water	3010A	
680-97147-2	OBLM20051	T	Water	3010A	
680-97147-3	OBLM20052	T	Water	3010A	
680-97147-4	OBLM20053	T	Water	3010A	
680-97147-4MS	Matrix Spike	T	Water	3010A	
680-97147-4MSD	Matrix Spike Duplicate	T	Water	3010A	
680-97147-5	OBLM20054	T	Water	3010A	
680-97147-6	OBLM20055	T	Water	3010A	
680-97147-7	OBLM20056	T	Water	3010A	
Analysis Batch:680-308417					
LCS 680-308037/2-A	Lab Control Sample	T	Water	6010C	680-308037
MB 680-308037/1-A	Method Blank	T	Water	6010C	680-308037
680-97147-1	OBLM20050	T	Water	6010C	680-308037
680-97147-2	OBLM20051	T	Water	6010C	680-308037
680-97147-3	OBLM20052	T	Water	6010C	680-308037
680-97147-4	OBLM20053	T	Water	6010C	680-308037
680-97147-4MS	Matrix Spike	T	Water	6010C	680-308037
680-97147-4MSD	Matrix Spike Duplicate	T	Water	6010C	680-308037
680-97147-5	OBLM20054	T	Water	6010C	680-308037
680-97147-6	OBLM20055	T	Water	6010C	680-308037
680-97147-7	OBLM20056	T	Water	6010C	680-308037

Report Basis

T = Total

Quality Control Results

Client: Parsons Corporation

Job Number: 680-97147-1

Laboratory Chronicle

Lab ID: 680-97147-1

Client ID: OBLM20050

Sample Date/Time: 12/10/2013 15:15

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-1-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-1-A		680-308417	680-308037	12/19/2013 09:10	1	TAL SAV	BCB

Lab ID: 680-97147-2

Client ID: OBLM20051

Sample Date/Time: 12/11/2013 10:55

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-2-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-2-A		680-308417	680-308037	12/19/2013 09:15	1	TAL SAV	BCB

Lab ID: 680-97147-3

Client ID: OBLM20052

Sample Date/Time: 12/10/2013 15:55

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-3-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-3-A		680-308417	680-308037	12/19/2013 09:19	1	TAL SAV	BCB

Lab ID: 680-97147-4

Client ID: OBLM20053

Sample Date/Time: 12/10/2013 13:46

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-4-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-4-A		680-308417	680-308037	12/19/2013 09:24	1	TAL SAV	BCB

Lab ID: 680-97147-4

Client ID: OBLM20053

Sample Date/Time: 12/10/2013 13:46

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-4-B MS		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-4-B MS		680-308417	680-308037	12/19/2013 09:39	1	TAL SAV	BCB

Lab ID: 680-97147-4

Client ID: OBLM20053

Sample Date/Time: 12/10/2013 13:46

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-4-C MSD		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-4-C MSD		680-308417	680-308037	12/19/2013 09:50	1	TAL SAV	BCB

Quality Control Results

Client: Parsons Corporation

Job Number: 680-97147-1

Laboratory Chronicle

Lab ID: 680-97147-4 SD

Client ID: OBLM20053

Sample Date/Time: 12/10/2013 13:46

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-4-A SD ^5		680-308417	680-308037	12/17/2013 14:59	5	TAL SAV	BJB
A:6010C	680-97147-A-4-A SD ^5		680-308417	680-308037	12/19/2013 09:29	5	TAL SAV	BCB
P:3010A	680-97147-A-4-A PDS		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-4-A PDS		680-308417	680-308037	12/19/2013 09:34	1	TAL SAV	BCB

Lab ID: 680-97147-5

Client ID: OBLM20054

Sample Date/Time: 12/10/2013 14:06

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-5-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-5-A		680-308417	680-308037	12/19/2013 09:55	1	TAL SAV	BCB

Lab ID: 680-97147-6

Client ID: OBLM20055

Sample Date/Time: 12/10/2013 12:25

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-6-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-6-A		680-308417	680-308037	12/19/2013 10:16	1	TAL SAV	BCB

Lab ID: 680-97147-7

Client ID: OBLM20056

Sample Date/Time: 12/10/2013 11:50

Received Date/Time: 12/14/2013 10:34

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	680-97147-A-7-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	680-97147-A-7-A		680-308417	680-308037	12/19/2013 10:30	1	TAL SAV	BCB

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	MB 680-308037/1-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	MB 680-308037/1-A		680-308417	680-308037	12/19/2013 08:51	1	TAL SAV	BCB

Quality Control Results

Client: Parsons Corporation

Job Number: 680-97147-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	LCS 680-308037/2-A		680-308417	680-308037	12/17/2013 14:59	1	TAL SAV	BJB
A:6010C	LCS 680-308037/2-A		680-308417	680-308037	12/19/2013 08:55	1	TAL SAV	BCB

Lab References:

TAL SAV = TestAmerica Savannah

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-97147-1

SDG No.: _____

Project: Open Burning (OB) Grounds LTM

Client Sample ID	Lab Sample ID
<u>OBLM20050</u>	<u>680-97147-1</u>
<u>OBLM20051</u>	<u>680-97147-2</u>
<u>OBLM20052</u>	<u>680-97147-3</u>
<u>OBLM20053</u>	<u>680-97147-4</u>
<u>OBLM20054</u>	<u>680-97147-5</u>
<u>OBLM20055</u>	<u>680-97147-6</u>
<u>OBLM20056</u>	<u>680-97147-7</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: OBLM20050

Lab Sample ID: 680-97147-1

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG ID.: _____

Matrix: Water

Date Sampled: 12/10/2013 15:15

Reporting Basis: WET

Date Received: 12/14/2013 10:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	20	1.9	ug/L			1	6010C
7439-92-1	Lead	ND	10	4.0	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: OBLM20051

Lab Sample ID: 680-97147-2

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG ID.: _____

Matrix: Water

Date Sampled: 12/11/2013 10:55

Reporting Basis: WET

Date Received: 12/14/2013 10:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	20	1.9	ug/L			1	6010C
7439-92-1	Lead	ND	10	4.0	ug/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OBLM20052

Lab Sample ID: 680-97147-3

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG ID.:

Matrix: Water

Date Sampled: 12/10/2013 15:55

Reporting Basis: WET

Date Received: 12/14/2013 10:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	20	1.9	ug/L			1	6010C
7439-92-1	Lead	ND	10	4.0	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: OBLM20053

Lab Sample ID: 680-97147-4

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG ID.: _____

Matrix: Water

Date Sampled: 12/10/2013 13:46

Reporting Basis: WET

Date Received: 12/14/2013 10:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	20	1.9	ug/L			1	6010C
7439-92-1	Lead	ND	10	4.0	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: OBLM20054

Lab Sample ID: 680-97147-5

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG ID.: _____

Matrix: Water

Date Sampled: 12/10/2013 14:06

Reporting Basis: WET

Date Received: 12/14/2013 10:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	20	1.9	ug/L			1	6010C
7439-92-1	Lead	ND	10	4.0	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: OBLM20055

Lab Sample ID: 680-97147-6

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG ID.: _____

Matrix: Water

Date Sampled: 12/10/2013 12:25

Reporting Basis: WET

Date Received: 12/14/2013 10:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	20	1.9	ug/L			1	6010C
7439-92-1	Lead	ND	10	4.0	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: OBLM20056

Lab Sample ID: 680-97147-7

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG ID.: _____

Matrix: Water

Date Sampled: 12/10/2013 11:50

Reporting Basis: WET

Date Received: 12/14/2013 10:34

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	ND	20	1.9	ug/L			1	6010C
7439-92-1	Lead	ND	10	4.0	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

ICV Source: P_ICV_wk_00219 Concentration Units: ug/L

CCV Source: P_CCV_wk_00117

Analyte	ICV 680-308417/4 12/18/2013 13:58				CCV 680-308417/228 12/19/2013 08:02				CCV 680-308417/240 12/19/2013 09:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Copper	1030		1000	103	4770		5000	95	4820		5000	96
Lead	1030		1000	103	468		500	94	472		500	94

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.: 680-97147-1

SDG No.: _____

ICV Source: P_ICV_wk_00219 Concentration Units: ug/L

CCV Source: P_CCV_wk_00117

Analyte	CCV 680-308417/252 12/19/2013 10:21				CCV 680-308417/261 12/19/2013 11:06							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Copper	4710		5000	94	4740		5000	95				
Lead	460		500	92	479		500	96				

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.: 680-97147-1

SDG No.: _____

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-308417/6 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00027

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Copper	20.0	19.7	J	99	70-130
Lead	10.0	10.5		105	70-130

Lab Sample ID: CRI 680-308417/260 Concentration Units: ug/L

CRQL Check Standard Source: P_CRI_00027

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Copper	20.0	18.2	J	91	70-130
Lead	10.0	9.66	J	97	70-130

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.: 680-97147-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICBIS 680-308417/5 12/18/2013 14:03		CCB 680-308417/229 12/19/2013 08:07		CCB 680-308417/241 12/19/2013 09:05		CCB 680-308417/253 12/19/2013 10:25	
		Found	C	Found	C	Found	C	Found	C
Copper	20	ND		ND		ND		ND	
Lead	10	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 680-308417/262 12/19/2013 11:10							
		Found	C	Found	C	Found	C	Found	C
Copper	20	ND							
Lead	10	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 680-308037/1-A
Instrument Code: ICPE Batch No.: 308417

CAS No.	Analyte	Concentration	C	Q	Method
7440-50-8	Copper	ND			6010C
7439-92-1	Lead	ND			6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1
 SDG No.: _____
 Lab Sample ID: ICSA 680-308417/7 Instrument ID: ICPE
 Lab File ID: E12182013FINAL.csv ICS Source: P_ICSA_wk_00034
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Copper		1.03	
Lead		6.62	
<i>Aluminum</i>	<i>500000</i>	<i>501683</i>	<i>100</i>
<i>Antimony</i>		<i>4.36</i>	
<i>Arsenic</i>		<i>-2.35</i>	
<i>Barium</i>		<i>-8.54</i>	
<i>Beryllium</i>		<i>-0.125</i>	
<i>Boron</i>		<i>-47.0</i>	
<i>Cadmium</i>		<i>0.579</i>	
<i>Calcium</i>	<i>500000</i>	<i>472548</i>	<i>95</i>
<i>Chromium</i>		<i>0.529</i>	
<i>Cobalt</i>		<i>0.217</i>	
<i>Iron</i>	<i>200000</i>	<i>180585</i>	<i>90</i>
<i>Magnesium</i>	<i>500000</i>	<i>499023</i>	<i>100</i>
<i>Manganese</i>		<i>-0.0356</i>	
<i>Molybdenum</i>		<i>1.12</i>	
<i>Nickel</i>		<i>6.50</i>	
<i>Potassium</i>		<i>2.22</i>	
<i>Selenium</i>		<i>-2.27</i>	
<i>Silver</i>		<i>0.602</i>	
<i>Sodium</i>		<i>-139</i>	
<i>Strontium</i>		<i>-0.646</i>	
<i>Thallium</i>		<i>-11.9</i>	
<i>Tin</i>		<i>-0.633</i>	
<i>Titanium</i>		<i>1.67</i>	
<i>Vanadium</i>		<i>2.42</i>	
<i>Zinc</i>		<i>14.9</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG No.: _____

Lab Sample ID: ICSAB 680-308417/8

Instrument ID: ICPE

Lab File ID: E12182013FINAL.csv

ICS Source: P_ICSAB_wk_00048

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Copper	500	531	106
Lead	50.0	50.1	100
<i>Aluminum</i>	<i>500000</i>	<i>503568</i>	<i>101</i>
<i>Antimony</i>	<i>600</i>	<i>608</i>	<i>101</i>
<i>Arsenic</i>	<i>100</i>	<i>95.2</i>	<i>95</i>
<i>Barium</i>	<i>500</i>	<i>473</i>	<i>95</i>
<i>Beryllium</i>	<i>500</i>	<i>458</i>	<i>92</i>
<i>Boron</i>		<i>-47.9</i>	
<i>Cadmium</i>	<i>1000</i>	<i>894</i>	<i>89</i>
<i>Calcium</i>	<i>500000</i>	<i>474582</i>	<i>95</i>
<i>Chromium</i>	<i>500</i>	<i>480</i>	<i>96</i>
<i>Cobalt</i>	<i>500</i>	<i>453</i>	<i>91</i>
<i>Iron</i>	<i>200000</i>	<i>181580</i>	<i>91</i>
<i>Magnesium</i>	<i>500000</i>	<i>499727</i>	<i>100</i>
<i>Manganese</i>	<i>500</i>	<i>479</i>	<i>96</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1113</i>	<i>111</i>
<i>Nickel</i>	<i>1000</i>	<i>885</i>	<i>89</i>
<i>Potassium</i>		<i>3.21</i>	
<i>Selenium</i>	<i>50.0</i>	<i>46.4</i>	<i>93</i>
<i>Silver</i>	<i>200</i>	<i>215</i>	<i>108</i>
<i>Sodium</i>		<i>-470</i>	
<i>Strontium</i>		<i>-2.61</i>	
<i>Thallium</i>	<i>100</i>	<i>79.5</i>	<i>80</i>
<i>Tin</i>	<i>1000</i>	<i>1052</i>	<i>105</i>
<i>Titanium</i>		<i>2.31</i>	
<i>Vanadium</i>	<i>500</i>	<i>476</i>	<i>95</i>
<i>Zinc</i>	<i>1000</i>	<i>896</i>	<i>90</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: OBLM20053 MS Lab ID: 680-97147-4 MS
 Lab Name: TestAmerica Savannah Job No.: 680-97147-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Copper	94.6	ND	100	95	75-125		6010C
Lead	45.2	ND	50.0	90	75-125		6010C

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: OBLM20053 MSD Lab ID: 680-97147-4 MSD
 Lab Name: TestAmerica Savannah Job No.: 680-97147-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Copper	95.6	100	96	75-125	1	20		6010C
Lead	44.5	50.0	89	75-125	2	20		6010C

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: OBLM20053 PDS

Lab ID: 680-97147-4 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Copper	192	ND	200	96	75-125		6010C
Lead	182	ND	200	91	75-125		6010C

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 680-308037/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-97147-1

Sample Matrix: Water

LCS Source: MS_LCS1_WK_00008

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Copper	100	97.4		97	75	125		6010C
Lead	50.0	49.4		99	75	125		6010C

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: 680-97147-4

SDG No: _____

Lab Name: TestAmerica Savannah

Job No: 680-97147-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	Method
		C		C			
Copper	ND		ND		NC		6010C
Lead	ND		ND		NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-97147-1
SDG Number: _____
Matrix: Water Instrument ID: ICPE
Method: 6010C MDL Date: 06/02/2009 00:00
Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Copper		20	1.9
Lead		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-97147-1
SDG Number: _____
Matrix: Water Instrument ID: ICPE
Method: 6010C XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Copper		20	1.9
Lead		10	4

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-97147-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 10/16/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.001000					
Antimony	206.834						0.007900				0.011900		0.000023		
Arsenic	188.980		0.000016										-0.000016		
Barium	389.178												0.000065		0.000112
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000089		
Calcium	370.602												-0.026890		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000280		-0.000003		
Copper	324.754												0.000006		
Iron	271.441									0.062560	0.001160				
Lead	220.353		-0.000011							-0.000200			0.000043		
Magnesium	279.078		-0.000142												
Manganese	257.610												0.000012		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000008		
Potassium	766.491														
Selenium	196.026												-0.000032		
Silver	328.068												-0.000005		
Sodium	330.237												-0.005402		
Strontium	216.596							0.000009					0.000121		
Thallium	190.794									0.001830			-0.000085		0.000016
Tin	189.925														
Titanium	334.941														
Vanadium	292.401										-0.001740		0.000014		
Zinc	206.200										-0.000860		-0.000015		

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-97147-1

SDG No.: _____

ICP-AES Instrument ID: ICPE Date: 10/16/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.008600										-0.017780	
Antimony	206.834		-0.016600						0.000200					
Arsenic	188.980		-0.000430											
Barium	389.178		0.000218										0.000095	
Beryllium	313.042		-0.000082										-0.000220	
Boron	249.678													
Cadmium	226.502													
Calcium	370.602	0.008900									0.180000		0.003040	
Chromium	267.716	0.000090									0.000040		-0.000200	
Cobalt	228.615		-0.002400						-0.000060		0.001950			
Copper	324.754		0.000550										-0.000200	
Iron	271.441		0.000760										0.006220	
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										-0.070825			-0.345620
Strontium	216.596		-0.001200		-0.001975									
Thallium	190.794	-0.000466	-0.000433										0.000500	
Tin	189.925													
Titanium	334.941													
Vanadium	292.401		-0.006130								0.000575			
Zinc	206.200													

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-308037/1-A	12/17/2013 14:59	308037		50	50
LCS 680-308037/2-A	12/17/2013 14:59	308037		50	50
680-97147-1	12/17/2013 14:59	308037		50	50
680-97147-2	12/17/2013 14:59	308037		50	50
680-97147-3	12/17/2013 14:59	308037		50	50
680-97147-4	12/17/2013 14:59	308037		50	50
680-97147-4 MS	12/17/2013 14:59	308037		50	50
680-97147-4 MSD	12/17/2013 14:59	308037		50	50
680-97147-5	12/17/2013 14:59	308037		50	50
680-97147-6	12/17/2013 14:59	308037		50	50
680-97147-7	12/17/2013 14:59	308037		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 12/18/2013 13:35 End Date: 12/19/2013 11:10

Lab Sample ID	D / F	Type	Time	Analytes															
				Cu	Pb														
ZZZZZZ			17:19																
ZZZZZZ			17:24																
ZZZZZZ			17:29																
ZZZZZZ			17:33																
ZZZZZZ			17:38																
CCV 680-308417/48			17:43																
CCB 680-308417/49			17:48																
ZZZZZZ			17:52																
ZZZZZZ			17:57																
ZZZZZZ			18:02																
ZZZZZZ			18:07																
ZZZZZZ			18:11																
ZZZZZZ			18:16																
ZZZZZZ			18:21																
ZZZZZZ			18:26																
ZZZZZZ			18:31																
ZZZZZZ			18:35																
CCV 680-308417/60			18:40																
CCB 680-308417/61			18:45																
ZZZZZZ			18:50																
ZZZZZZ			18:54																
ZZZZZZ			18:59																
ZZZZZZ			19:04																
ZZZZZZ			19:08																
ZZZZZZ			19:13																
ZZZZZZ			19:18																
ZZZZZZ			19:23																
ZZZZZZ			19:28																
ZZZZZZ			19:32																
CCV 680-308417/72			19:37																
CCB 680-308417/73			19:42																
ZZZZZZ			19:47																
ZZZZZZ			19:51																
ZZZZZZ			19:56																
ZZZZZZ			20:01																
ZZZZZZ			20:06																
ZZZZZZ			20:10																
ZZZZZZ			20:15																
ZZZZZZ			20:20																
ZZZZZZ			20:25																
ZZZZZZ			20:29																
CCV 680-308417/84			20:34																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 12/18/2013 13:35 End Date: 12/19/2013 11:10

Lab Sample ID	D / F	Type	Time	Analytes															
				Cu	Pb														
CCB 680-308417/85			20:39																
ZZZZZZ			20:44																
ZZZZZZ			20:48																
ZZZZZZ			20:53																
ZZZZZZ			20:58																
ZZZZZZ			21:03																
ZZZZZZ			21:07																
ZZZZZZ			21:12																
ZZZZZZ			21:17																
ZZZZZZ			21:22																
ZZZZZZ			21:26																
CCV 680-308417/96			21:31																
CCB 680-308417/97			21:36																
ZZZZZZ			21:41																
ZZZZZZ			21:46																
ZZZZZZ			21:50																
ZZZZZZ			21:55																
ZZZZZZ			22:00																
ZZZZZZ			22:05																
ZZZZZZ			22:09																
ZZZZZZ			22:14																
ZZZZZZ			22:19																
ZZZZZZ			22:24																
CCV 680-308417/108			22:28																
CCB 680-308417/109			22:33																
ZZZZZZ			22:38																
ZZZZZZ			22:43																
ZZZZZZ			22:47																
ZZZZZZ			22:52																
ZZZZZZ			22:57																
ZZZZZZ			23:02																
ZZZZZZ			23:06																
ZZZZZZ			23:11																
ZZZZZZ			23:16																
ZZZZZZ			23:21																
CCV 680-308417/120			23:26																
CCB 680-308417/121			23:30																
ZZZZZZ			23:35																
ZZZZZZ			23:40																
ZZZZZZ			23:45																
ZZZZZZ			23:49																
ZZZZZZ			23:54																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 12/18/2013 13:35 End Date: 12/19/2013 11:10

Lab Sample ID	D / F	Type	Time	Analytes															
				Cu	Pb														
ZZZZZZ			23:59																
ZZZZZZ			00:04																
ZZZZZZ			00:08																
ZZZZZZ			00:13																
ZZZZZZ			00:18																
CCV 680-308417/132			00:23																
CCB 680-308417/133			00:27																
ZZZZZZ			00:32																
ZZZZZZ			00:37																
ZZZZZZ			00:42																
ZZZZZZ			00:47																
ZZZZZZ			00:51																
ZZZZZZ			00:56																
ZZZZZZ			01:01																
ZZZZZZ			01:06																
ZZZZZZ			01:10																
ZZZZZZ			01:15																
CCV 680-308417/144			01:20																
CCB 680-308417/145			01:25																
ZZZZZZ			01:30																
ZZZZZZ			01:34																
ZZZZZZ			01:39																
ZZZZZZ			01:44																
ZZZZZZ			01:49																
ZZZZZZ			01:53																
ZZZZZZ			01:58																
ZZZZZZ			02:03																
ZZZZZZ			02:08																
ZZZZZZ			02:13																
CCV 680-308417/156			02:17																
CCB 680-308417/157			02:22																
ZZZZZZ			02:27																
ZZZZZZ			02:32																
ZZZZZZ			02:36																
ZZZZZZ			02:41																
ZZZZZZ			02:46																
ZZZZZZ			02:51																
ZZZZZZ			02:56																
ZZZZZZ			03:00																
ZZZZZZ			03:05																
ZZZZZZ			03:10																
CCV 680-308417/168			03:15																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 12/18/2013 13:35 End Date: 12/19/2013 11:10

Lab Sample ID	D / F	Type	Time	Analytes															
				Cu	Pb														
CCB 680-308417/169			03:19																
ZZZZZZ			03:24																
ZZZZZZ			03:29																
ZZZZZZ			03:34																
ZZZZZZ			03:39																
ZZZZZZ			03:43																
ZZZZZZ			03:48																
ZZZZZZ			03:53																
ZZZZZZ			03:58																
ZZZZZZ			04:03																
ZZZZZZ			04:07																
CCV 680-308417/180			04:12																
CCB 680-308417/181			04:17																
ZZZZZZ			04:22																
ZZZZZZ			04:26																
ZZZZZZ			04:31																
ZZZZZZ			04:36																
ZZZZZZ			04:41																
ZZZZZZ			04:46																
ZZZZZZ			04:50																
ZZZZZZ			04:55																
ZZZZZZ			05:00																
ZZZZZZ			05:05																
CCV 680-308417/192			05:10																
CCB 680-308417/193			05:14																
ZZZZZZ			05:19																
ZZZZZZ			05:24																
ZZZZZZ			05:29																
ZZZZZZ			05:34																
ZZZZZZ			05:38																
ZZZZZZ			05:43																
ZZZZZZ			05:48																
ZZZZZZ			05:53																
ZZZZZZ			05:58																
ZZZZZZ			06:02																
CCV 680-308417/204			06:07																
CCB 680-308417/205			06:12																
ZZZZZZ			06:17																
ZZZZZZ			06:22																
ZZZZZZ			06:26																
ZZZZZZ			06:31																
ZZZZZZ			06:36																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 12/18/2013 13:35 End Date: 12/19/2013 11:10

Lab Sample ID	D / F	Type	Time	Analytes															
				Cu	Pb														
ZZZZZZ			06:41																
ZZZZZZ			06:46																
ZZZZZZ			06:50																
ZZZZZZ			06:55																
ZZZZZZ			07:00																
CCV 680-308417/216			07:05																
CCB 680-308417/217			07:10																
ZZZZZZ			07:14																
ZZZZZZ			07:19																
ZZZZZZ			07:24																
ZZZZZZ			07:29																
ZZZZZZ			07:34																
ZZZZZZ			07:38																
ZZZZZZ			07:43																
ZZZZZZ			07:48																
ZZZZZZ			07:53																
ZZZZZZ			07:58																
CCV 680-308417/228	1		08:02	X	X														
CCB 680-308417/229	1		08:07	X	X														
ZZZZZZ			08:12																
ZZZZZZ			08:17																
ZZZZZZ			08:22																
ZZZZZZ			08:27																
ZZZZZZ			08:31																
ZZZZZZ			08:36																
ZZZZZZ			08:41																
ZZZZZZ			08:46																
MB 680-308037/1-A	1	T	08:51	X	X														
LCS 680-308037/2-A	1	T	08:55	X	X														
CCV 680-308417/240	1		09:00	X	X														
CCB 680-308417/241	1		09:05	X	X														
680-97147-1	1	T	09:10	X	X														
680-97147-2	1	T	09:15	X	X														
680-97147-3	1	T	09:19	X	X														
680-97147-4	1	T	09:24	X	X														
680-97147-4 SD	5	T	09:29	X	X														
680-97147-4 PDS	1	T	09:34	X	X														
680-97147-4 MS	1	T	09:39	X	X														
680-97147-4 MSD	1	T	09:50	X	X														
680-97147-5	1	T	09:55	X	X														
680-97147-6	1	T	10:16	X	X														
CCV 680-308417/252	1		10:21	X	X														

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Instrument ID: ICPE Method: 6010C

Start Date: 12/18/2013 13:35 End Date: 12/19/2013 11:10

Lab Sample ID	D / F	T y p e	Time	Analytes																
				C u	P b															
CCB 680-308417/253	1		10:25	X	X															
680-97147-7	1	T	10:30	X	X															
ZZZZZZ			10:35																	
ZZZZZZ			10:40																	
ZZZZZZ			10:44																	
ZZZZZZ			10:49																	
ZZZZZZ			10:54																	
CRI 680-308417/260	1		11:01	X	X															
CCV 680-308417/261	1		11:06	X	X															
CCB 680-308417/262	1		11:10	X	X															

Prep Types

T = Total/NA

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Blank (Blk) 12/18/2013, 1:35:52 PM Rack S, Tube 1

Label	Replicates		Concentration
Ag 328.068	-0.1291	0.1993	-0.0702
Al 308.215	0.0447	-0.2192	0.1745
As 188.980	0.1012	-2.6099	2.5087
B 249.678	0.3376	-0.3513	0.0137
Ba 389.178	-0.1625	0.2466	-0.0841
Be 313.042	0.0125	-0.0022	-0.0103
Ca 370.602	0.1569	-1.799	1.642
Cd 226.502	-0.0849	0.1171	-0.0322
Co 228.615	0.2816	0.0085	-0.2902
Cr 267.716	0.1003	0.0011	-0.1014
Cu 324.754	-0.1238	-0.2546	0.3784
Fe 271.441	-2.9879	0.1886	2.7993
K 766.491	-0.0002	-0.1081	0.1082
Mg 279.078	0.0594	-0.7640	0.7046
Mn 257.610	0.0212	-0.0011	-0.0200
Mo 202.032	-0.0455	0.1274	-0.0819
Na 330.237	-115.796	73.3159	42.4799
Ni 231.604	0.2006	-0.0786	-0.1220
Pb 220.353	-1.2918	0.2040	1.0878
Sb 206.834	2.5367	-1.3177	-1.2190
Se 196.026	0.9788	1.6499	-2.6287
Sn 189.925	1.3250	-1.8786	0.5536
Sr 216.596	-0.0734	0.2357	-0.1622
Ti 334.941	0.0427	-0.0343	-0.0084
Tl 190.794	-1.0086	-1.1013	2.1098
V 292.401	0.0911	-0.2186	0.1274
Zn 206.200	-0.0827	1.0771	-0.9944

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	14.569	132.1	-11.0303
Al 308.215	0.0000	ppb	1.397	0.5	268.954
As 188.980	0.0000	ppb	1.946	37.2	-5.2350
B 249.678	0.0000	ppb	4.786	7.2	66.3140
Ba 389.178	0.0000	ppb	5.484	19.3	-28.4276
Be 313.042	0.0000	ppb	23.707	9.9	-239.306
Ca 370.602	0.0000	ppb	5.365	50.2	10.69
Cd 226.502	0.0000	ppb	5.338	43.7	12.2244
Co 228.615	0.0000	ppb	3.816	105.2	-3.6281
Cr 267.716	0.0000	ppb	6.013	57.9	10.3928
Cu 324.754	0.0000	ppb	21.546	14.7	146.794
Fe 271.441	0.0000	ppb	5.016	39.8	12.5919
K 766.491	0.0000	ppb	4.673	1.9	249.515
Mg 279.078	0.0000	ppb	1.899	8.2	23.2316
Mn 257.610	0.0000	ppb	5.276	8.7	60.5253
Mo 202.032	0.0000	ppb	0.905	10.0	9.0701
Na 330.237	0.0000	ppb	4.204	14.2	29.5052
Ni 231.604	0.0000	ppb	0.621	17.0	-3.6631
Pb 220.353	0.0000	ppb	2.256	16.3	13.8324
Sb 206.834	0.0000	ppb	3.293	43.8	7.5268
Se 196.026	0.0000	ppb	1.106	15.0	7.3812
Sn 189.925	0.0000	ppb	1.612	12.4	-12.9624
Sr 216.596	0.0000	ppb	3.194	32.2	9.9119
Ti 334.941	0.0000	ppb	11.240	15.8	-71.2359

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Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	2.401	32.6	-7.3599
V 292.401	0.0000	ppb	5.423	57.2	-9.4838
Zn 206.200	0.0000	ppb	1.604	23.0	6.9730

HIGH STD (Std) 12/18/2013, 1:40:36 PM Rack S, Tube 2

Label	Replicates	Concentration	
Ag 328.068	1003.43	990.554	1006.01
Al 308.215	9999.45	10000.5	10000.1
As 188.980	993.337	996.797	1009.87
B 249.678	995.607	1000.83	1003.56
Ba 389.178	9993.15	10003.1	10003.8
Be 313.042	995.372	1001.61	1003.01
Ca 370.602	9991	10007	10002
Cd 226.502	999.872	1000.08	1000.05
Co 228.615	999.008	1001.34	999.647
Cr 267.716	10003.9	9991.14	10005.0
Cu 324.754	9986.99	10002.9	10010.1
Fe 271.441	9984.58	10009.1	10006.3
K 766.491	19974.5	20009.9	20015.6
Mg 279.078	9999.67	9999.58	10000.8
Mn 257.610	9972.01	10025.0	10003.0
Mo 202.032	998.450	1000.32	1001.23
Na 330.237	15141.3	14855.0	15003.7
Ni 231.604	5000.43	4998.37	5001.19
Pb 220.353	997.684	1000.26	1002.05
Sb 206.834	2001.21	1995.28	2003.51
Se 196.026	9991.40	10011.4	9997.20
Sn 189.925	10038.2	9930.30	10031.5
Sr 216.596	5002.99	4999.55	4997.45
Ti 334.941	998.458	1000.73	1000.82
Tl 190.794	9992.95	9999.58	10007.5
V 292.401	9987.85	10006.4	10005.8
Zn 206.200	5007.20	4993.16	4999.64

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	689.080	0.8	83194.0
Al 308.215	10000.0	ppb	3.664	0.0	69890.2
As 188.980	1000.00	ppb	6.626	0.9	754.822
B 249.678	1000.00	ppb	56.136	0.4	13950.6
Ba 389.178	10000.0	ppb	150.171	0.1	252503
Be 313.042	1000.00	ppb	8340.843	0.4	2049944
Ca 370.602	10000	ppb	24.513	0.1	31100
Cd 226.502	1000.00	ppb	5.692	0.0	50944.3
Co 228.615	1000.00	ppb	16.106	0.1	13338.1
Cr 267.716	10000.0	ppb	458.895	0.1	596267
Cu 324.754	10000.0	ppb	763.231	0.1	644959
Fe 271.441	10000.0	ppb	23.251	0.1	17319.9
K 766.491	20000.0	ppb	963.836	0.1	864416
Mg 279.078	10000.0	ppb	1.696	0.0	25824.0
Mn 257.610	10000.0	ppb	6805.142	0.3	2556475
Mo 202.032	1000.00	ppb	11.476	0.1	8101.34
Na 330.237	15000.0	ppb	5.934	0.9	650.980
Ni 231.604	5000.00	ppb	5.178	0.0	17731.8

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Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	4.121	0.2	1889.56
Sb 206.834	2000.00	ppb	6.369	0.2	3004.85
Se 196.026	10000.0	ppb	4.944	0.1	4814.54
Sn 189.925	10000.0	ppb	58.272	0.6	9626.17
Sr 216.596	5000.00	ppb	42.791	0.1	76468.5
Ti 334.941	1000.00	ppb	383.148	0.1	286739
Tl 190.794	10000.0	ppb	9.546	0.1	13130.7
V 292.401	10000.0	ppb	300.088	0.1	285187
Zn 206.200	5000.00	ppb	10.854	0.1	7732.18

Ag 328.068 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-11.0303	0.0000	0.0000	-	-
HIGH STD		83194.0	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 83.2 x + -11.0$

Al 308.215 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		268.954	0.0000	0.0000	-	-
HIGH STD		69890.2	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 7.0 x + 269.0$

As 188.980 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.2350	0.0000	0.0000	-	-
HIGH STD		754.822	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 0.8 x + -5.2$

B 249.678 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		66.3140	0.0000	0.0000	-	-
HIGH STD		13950.6	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 13.9 x + 66.3$

Ba 389.178 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-28.4276	0.0000	0.0000	-	-
HIGH STD		252503	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 25.3 x + -28.4$

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Be 313.042 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-239.306	0.0000	0.0000	-	-
HIGH STD		2049944	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 2050.2 x + -239.3$ **Ca 370.602 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.69	0.0000	0.0000	-	-
HIGH STD		31100	10000	10000	0.0000	0.0

Curve Type: Linear Equation: $y = 3.1 x + 10.7$ **Cd 226.502 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.2244	0.0000	0.0000	-	-
HIGH STD		50944.3	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 50.9 x + 12.2$ **Co 228.615 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.6281	0.0000	0.0000	-	-
HIGH STD		13338.1	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 13.3 x + -3.6$ **Cr 267.716 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.3928	0.0000	0.0000	-	-
HIGH STD		596267	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 59.6 x + 10.4$ **Cu 324.754 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		146.794	0.0000	0.0000	-	-
HIGH STD		644959	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 64.5 x + 146.8$ **Fe 271.441 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		12.5919	0.0000	0.0000	-	-
HIGH STD		17319.9	10000.0	10000.0	0.0000	0.0

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Curve Type: Linear Equation: $y = 1.7 x + 12.6$ **K 766.491 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		249.515	0.0000	0.0000	-	-
HIGH STD		864416	20000.0	20000.0	-0.0020	0.0

Curve Type: Linear Equation: $y = 43.2 x + 249.5$ **Mg 279.078 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		23.2316	0.0000	0.0000	-	-
HIGH STD		25824.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.6 x + 23.2$ **Mn 257.610 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		60.5253	0.0000	0.0000	-	-
HIGH STD		2556475	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 255.6 x + 60.5$ **Mo 202.032 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.0701	0.0000	0.0000	-	-
HIGH STD		8101.34	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 8.1 x + 9.1$ **Na 330.237 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		29.5052	0.0000	0.0000	-	-
HIGH STD		650.980	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.0 x + 29.5$ **Ni 231.604 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.6631	0.0000	0.0000	-	-
HIGH STD		17731.8	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 3.5 x + -3.7$

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Pb 220.353 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.8324	0.0000	0.0000	-	-
HIGH STD		1889.56	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.9 x + 13.8$ **Sb 206.834 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.5268	0.0000	0.0000	-	-
HIGH STD		3004.85	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.5 x + 7.5$ **Se 196.026 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.3812	0.0000	0.0000	-	-
HIGH STD		4814.54	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.5 x + 7.4$ **Sn 189.925 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-12.9624	0.0000	0.0000	-	-
HIGH STD		9626.17	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 1.0 x + -13.0$ **Sr 216.596 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.9119	0.0000	0.0000	-	-
HIGH STD		76468.5	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 15.3 x + 9.9$ **Ti 334.941 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-71.2359	0.0000	0.0000	-	-
HIGH STD		286739	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 286.8 x + -71.2$ **Tl 190.794 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.3599	0.0000	0.0000	-	-
HIGH STD		13130.7	10000.0	10000.0	0.0010	0.0

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Curve Type: Linear Equation: $y = 1.3x + -7.4$ **V 292.401 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-9.4838	0.0000	0.0000	-	-
HIGH STD		285187	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 28.5x + -9.5$ **Zn 206.200 Calibration (ppb) 12/18/2013, 1:40:36 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.9730	0.0000	0.0000	-	-
HIGH STD		7732.18	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.5x + 7.0$

Lab Control Sample (LCS) 12/18/2013, 1:45:20 PM Rack S, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration
Ag 328.068	1004.72x	1009.00x 999.722
Al 308.215	9993.54	10011.4 10009.1
As 188.980	1005.52	995.715 1013.06
B 249.678	1001.12	1011.20 1012.23
Ba 389.178	10020.1x	10048.9x 10039.7x
Be 313.042	997.261	1002.82x 998.026x
Ca 370.602	9966	10008 10016
Cd 226.502	998.224	1004.47x 1002.99x
Co 228.615	997.218	1003.20 1002.41
Cr 267.716	10007.8x	10045.5x 10070.0x
Cu 324.754	10047.5	10027.3 9942.27
Fe 271.441	9983.60	10070.0 10039.4
K 766.491	20051.5	20085.0 20065.5
Mg 279.078	10001.7	10031.2 10033.6
Mn 257.610	9959.93	10009.0 10028.2
Mo 202.032	999.270	1003.75x 1005.93x
Na 330.237	14700.5	14572.3 14466.9
Ni 231.604	4978.21	5017.58 5012.04
Pb 220.353	997.802	999.137 1002.30
Sb 206.834	2005.34	2016.48 2021.77
Se 196.026	10042.4x	10053.9x 10025.1x
Sn 189.925	10028.4x	10120.2x 10063.3x
Sr 216.596	4997.80	5028.69x 5031.51x
Ti 334.941	1002.09	1003.35 1003.41
Tl 190.794	9987.21	10053.7x 10049.1x
V 292.401	9995.06	10041.9x 10026.7x
Zn 206.200	4992.89	5015.49 5037.05

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1004.48xb	ppb	4.6417	0.5	83429.3	100.44801
Al 308.215	10004.7b	ppb	9.7004	0.1	68734.8	100.04659

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1004.76b	ppb	8.6958	0.9	758.115	100.47643
B 249.678	1008.18b	ppb	6.1412	0.6	14044.6	20.16363*
Ba 389.178	10036.2xb	ppb	14.7112	0.1	253493	100.36221
Be 313.042	999.368xb	ppb	3.0120	0.3	2052994	99.93682
Ca 370.602	9997b	ppb	27.07	0.3	31187	99.96645
Cd 226.502	1001.90xb	ppb	3.2647	0.3	51086.3	100.18953
Co 228.615	1000.94b	ppb	3.2480	0.3	13374.6	100.09412
Cr 267.716	10041.1xb	ppb	31.3125	0.3	598645	100.41096
Cu 324.754	10005.7b	ppb	55.8478	0.6	645237	100.05696
Fe 271.441	10031.0b	ppb	43.8224	0.4	17611.3	100.31020
K 766.491	20067.3b	ppb	16.8007	0.1	867325	100.33661
Mg 279.078	10022.2b	ppb	17.7591	0.2	25680.9	100.22176
Mn 257.610	9999.03b	ppb	35.2033	0.4	2556350	99.99034
Mo 202.032	1002.98xb	ppb	3.3952	0.3	8103.81	100.29820
Na 330.237	14579.9b	ppb	116.995	0.8	556.481	97.19938
Ni 231.604	5002.61b	ppb	21.3096	0.4	17738.5	100.05220
Pb 220.353	999.745b	ppb	2.3085	0.2	1889.64	99.97454
Sb 206.834	2014.53b	ppb	8.3884	0.4	3196.67	100.72643
Se 196.026	10040.5xb	ppb	14.5016	0.1	4836.55	100.40457
Sn 189.925	10070.7xb	ppb	46.3406	0.5	9694.29	100.70660
Sr 216.596	5019.33xb	ppb	18.7013	0.4	76614.6	100.38665
Ti 334.941	1002.95b	ppb	0.7460	0.1	287632	100.29510
Tl 190.794	10030.0xb	ppb	37.1187	0.4	13171.3	100.29984
V 292.401	10021.2xb	ppb	23.8861	0.2	285137	100.21220
Zn 206.200	5015.15b	ppb	22.0826	0.4	7741.95	100.30291

Initial Calib Verif (ICV)

12/18/2013, 1:58:44 PM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1026.43x	1016.10x	1013.89x
Al 308.215	976.111	967.078	966.185
As 188.980	1009.17	998.328	1022.35
B 249.678	997.767	991.591	1001.17
Ba 389.178	1024.88	1013.95	1015.25
Be 313.042	1010.24x	996.187	1004.11x
Ca 370.602	963.9	951.0	950.5
Cd 226.502	1007.73x	990.493	999.613
Co 228.615	978.537	961.725	970.917
Cr 267.716	1032.56	1018.35	1023.47
Cu 324.754	1034.58	1024.67	1027.19
Fe 271.441	1018.87	1007.16	1014.95
K 766.491	10441.8	10339.5	10349.0
Mg 279.078	1024.76	1011.69	1021.03
Mn 257.610	1037.09	1022.73	1028.28
Mo 202.032	1032.81x	1018.15x	1027.81x
Na 330.237	10468.9	10111.9	10500.5
Ni 231.604	1004.11	993.376	994.177
Pb 220.353	1033.67	1016.21	1025.36
Sb 206.834	1038.72	1026.54	1036.45
Se 196.026	1014.16	999.961	999.189
Sn 189.925	5020.92	4997.21	4986.69
Sr 216.596	5056.44x	4970.04	5011.40x
Ti 334.941	1023.68	1013.14	1014.45

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	1035.90	1023.22	1040.50
V 292.401	1027.27	1014.24	1018.91
Zn 206.200	1003.88	980.645	1001.11

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1018.81xb	ppb	6.6915	0.7	84519.0	101.88062
Al 308.215	969.791b	ppb	5.4911	0.6	6949.96	96.97914
As 188.980	1009.95b	ppb	12.0285	1.2	762.044	100.99470
B 249.678	996.843b	ppb	4.8563	0.5	13904.7	99.68433
Ba 389.178	1018.03b	ppb	5.9676	0.6	25692.7	101.80255
Be 313.042	1003.51xb	ppb	7.0451	0.7	2057424	100.35104
Ca 370.602	955.2b	ppb	7.573	0.8	3496	95.51575
Cd 226.502	999.280xb	ppb	8.6254	0.9	50912.5	99.92799
Co 228.615	970.393b	ppb	8.4180	0.9	12936.4	97.03928
Cr 267.716	1024.79b	ppb	7.1942	0.7	61098.7	102.47911
Cu 324.754	1028.81b	ppb	5.1524	0.5	66509.9	102.88145
Fe 271.441	1013.66b	ppb	5.9601	0.6	1886.03	101.36575
K 766.491	10376.8b	ppb	56.5484	0.5	448612	103.76765
Mg 279.078	1019.16b	ppb	6.7311	0.7	2632.18	101.91635
Mn 257.610	1029.37b	ppb	7.2412	0.7	263222	102.93663
Mo 202.032	1026.25xb	ppb	7.4507	0.7	8311.59	102.62541
Na 330.237	10360.4b	ppb	215.825	2.1	441.250	103.60445
Ni 231.604	997.220b	ppb	5.9788	0.6	3530.86	99.72205
Pb 220.353	1025.08b	ppb	8.7329	0.9	1934.40	102.50783
Sb 206.834	1033.90b	ppb	6.4742	0.6	1563.10	103.39028
Se 196.026	1004.44b	ppb	8.4282	0.8	490.493	100.44356
Sn 189.925	5001.61b	ppb	17.5346	0.4	4808.16	100.03213
Sr 216.596	5012.63xb	ppb	43.2137	0.9	76614.8	100.25257
Ti 334.941	1017.09b	ppb	5.7441	0.6	291643	101.70869
Tl 190.794	1033.21b	ppb	8.9505	0.9	1351.73	103.32066
V 292.401	1020.14b	ppb	6.6010	0.6	28870.6	102.01377
Zn 206.200	995.212b	ppb	12.6902	1.3	1543.23	99.52118

Initial Calib Blank (ICB) 12/18/2013, 2:03:28 PM Rack S, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2500	0.0870	0.1593
Al 308.215	7.4917	2.9100	4.7780
As 188.980	6.3928	4.9155	10.2650
B 249.678	5.6069	3.2710	3.6813
Ba 389.178	-0.4377u	-0.5985u	-0.5626u
Be 313.042	0.0333	0.0216	0.0179
Ca 370.602	3.202	-0.1029u	0.7498
Cd 226.502	0.0732	0.0551	0.0250
Co 228.615	-0.3884u	-0.3726u	-0.2146u
Cr 267.716	0.1620	0.0886	0.2517
Cu 324.754	0.1120	-0.0121u	0.3411
Fe 271.441	2.4399	0.0595	1.1770
K 766.491	1.4654	0.8838	1.3182
Mg 279.078	2.1464	3.4861	1.1397
Mn 257.610	0.1344	0.0844	0.0577
Mo 202.032	1.6086	1.7062	1.4089
Na 330.237	-57.7182u	-26.7684u	68.5476

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Label	Replicates Concentration		
Ni 231.604	0.1318	0.5777	-0.7676u
Pb 220.353	0.7579	1.6716	1.0907
Sb 206.834	5.1780	-0.5631u	1.9217
Se 196.026	10.5886	-0.5214u	0.6254
Sn 189.925	0.3316	0.3877	1.9885
Sr 216.596	0.0299	0.2639	0.2196
Ti 334.941	0.4405	0.3543	0.3547
Tl 190.794	-0.7640u	-1.5975u	-1.9301u
V 292.401	0.4142	0.4446	0.1809
Zn 206.200	-1.4046u	-0.5737u	-0.6191u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1654	ppb	0.0817	49.4	2.7282	0.16544
Al 308.215	5.0599	ppb	2.3038	45.5	304.232	5.05990
As 188.980	7.1911	ppb	2.7627	38.4	0.2302	7.19112
B 249.678	4.1864	ppb	1.2472	29.8	124.437	4.18640
Ba 389.178	-0.5330	ppb	0.0844	15.8	-41.8709	-0.53297
Be 313.042	0.0242	ppb	0.0080	33.2	-189.730	0.02423
Ca 370.602	1.283	ppb	1.716	133.7	14.82	1.28300
Cd 226.502	0.0511	ppb	0.0243	47.6	14.8318	0.05111
Co 228.615	-0.3252	ppb	0.0961	29.5	-8.0062	-0.32522
Cr 267.716	0.1675	ppb	0.0817	48.8	20.3749	0.16746
Cu 324.754	0.1470	ppb	0.1792	121.9	156.325	0.14703
Fe 271.441	1.2255	ppb	1.1909	97.2	14.6841	1.22547
K 766.491	1.2225	ppb	0.3024	24.7	302.337	1.22248
Mg 279.078	2.2574	ppb	1.1771	52.1	29.0521	2.25739
Mn 257.610	0.0922	ppb	0.0389	42.3	84.1027	0.09216
Mo 202.032	1.5746	ppb	0.1515	9.6	21.8110	1.57455
Na 330.237	-5.3130	ppb	65.8104	1238.7	29.2871	-5.31301
Ni 231.604	-0.0194	ppb	0.6853	3534.1	-3.7309	-0.01939
Pb 220.353	1.1734	ppb	0.4624	39.4	16.0310	1.17338
Sb 206.834	2.1789	ppb	2.8792	132.1	10.7555	2.17886
Se 196.026	3.5642	ppb	6.1102	171.4	9.0946	3.56421
Sn 189.925	0.9026	ppb	0.9408	104.2	-12.0923	0.90261
Sr 216.596	0.1711	ppb	0.1243	72.7	12.5086	0.17113
Ti 334.941	0.3832	ppb	0.0497	13.0	38.6703	0.38318
Tl 190.794	-1.4305	ppb	0.6007	42.0	-9.2409	-1.43054
V 292.401	0.3466	ppb	0.1443	41.6	0.1334	0.34659
Zn 206.200	-0.8658	ppb	0.4671	54.0	5.6352	-0.86578

CRI (CRI)

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Rack S, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.8176	9.4150	9.8628
Al 308.215	214.514	213.670	212.565
As 188.980	25.5929	22.6390	21.0008
B 249.678	97.5648	97.9778	97.5824
Ba 389.178	9.2575	9.1393	8.5857
Be 313.042	3.9170	3.9305	3.9145
Ca 370.602	513.0	513.7	513.2
Cd 226.502	4.8220	4.8768	4.8016
Co 228.615	9.0070	9.2255	9.5663
Cr 267.716	10.0166	10.0495	9.9134

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Label	Replicates Concentration		
Cu 324.754	19.5822	20.0951	19.4248
Fe 271.441	53.9112	52.1198	52.9499
K 766.491	1008.55	1015.87	1005.13
Mg 279.078	509.959	509.561	507.826
Mn 257.610	9.9950	10.1199	10.0219
Mo 202.032	10.3678	9.5338	9.5490
Na 330.237	1184.47	1330.42	1025.78
Ni 231.604	40.5335	39.9666	38.8956
Pb 220.353	9.1688	9.0595	13.3953
Sb 206.834	16.0531	22.1146	21.7321
Se 196.026	20.8343	26.2698	12.8024
Sn 189.925	51.8265	52.3433	48.6533
Sr 216.596	9.5880	9.4626	9.7267
Ti 334.941	9.9741	10.0685	10.0825
Tl 190.794	25.2703	21.8986	22.3518
V 292.401	9.7149	10.0151	9.9897
Zn 206.200	17.5350	17.8238	17.3552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	9.6985	ppb	0.2465	2.5	795.535	96.98463
Al 308.215	213.583	ppb	0.9775	0.5	1755.25	106.79152
As 188.980	23.0776	ppb	2.3272	10.1	12.3040	115.38792
B 249.678	97.7083	ppb	0.2336	0.2	1422.82	97.70834
Ba 389.178	8.9942	ppb	0.3586	4.0	200.323	89.94160
Be 313.042	3.9207	ppb	0.0086	0.2	7801.60	98.01694
Ca 370.602	513.3	ppb	0.3527	0.1	1608	102.65828
Cd 226.502	4.8335	ppb	0.0389	0.8	258.654	96.66956
Co 228.615	9.2662	ppb	0.2819	3.0	119.947	92.66242
Cr 267.716	9.9932	ppb	0.0710	0.7	606.186	99.93188
Cu 324.754	19.7007	ppb	0.3505	1.8	1417.36	98.50353
Fe 271.441	52.9936	ppb	0.8965	1.7	105.448	105.98730
K 766.491	1009.85	ppb	5.4881	0.5	43883.4	100.98482
Mg 279.078	509.115	ppb	1.1338	0.2	1336.51	101.82305
Mn 257.610	10.0456	ppb	0.0658	0.7	2633.36	100.45567
Mo 202.032	9.8169	ppb	0.4772	4.9	88.4868	98.16853
Na 330.237	1180.22	ppb	152.365	12.9	78.0992	118.02242
Ni 231.604	39.7986	ppb	0.8318	2.1	137.482	99.49642
Pb 220.353	10.5412	ppb	2.4723	23.5	33.5832	105.41221
Sb 206.834	19.9666	ppb	3.3946	17.0	37.4475	99.83313
Se 196.026	19.9688	ppb	6.7753	33.9	16.9838	99.84414
Sn 189.925	50.9410	ppb	1.9980	3.9	36.1410	101.88208
Sr 216.596	9.5924	ppb	0.1321	1.4	155.392	95.92416
Ti 334.941	10.0417	ppb	0.0590	0.6	2811.13	100.41725
Tl 190.794	23.1736	ppb	1.8299	7.9	23.0965	92.69430
V 292.401	9.9066	ppb	0.1665	1.7	271.028	99.06557
Zn 206.200	17.5713	ppb	0.2364	1.3	34.1070	87.85668

Interf Check A (ICSA)

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Rack S, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2660	0.0762u	0.4638u
Al 308.215	501683	501702	501665
As 188.980	-3.9135	-1.0546	-2.0882

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Label	Replicates Concentration		
B 249.678	-47.5464u	-47.1698u	-46.2554u
Ba 389.178	-9.3241	-8.4119	-7.8967
Be 313.042	-0.1248u	-0.1222u	-0.1282u
Ca 370.602	473330	473215	471098
Cd 226.502	0.5778	0.5516	0.6072
Co 228.615	-0.5404	1.2176	-0.0250
Cr 267.716	0.5741	0.4605	0.5527
Cu 324.754	1.2236	0.7963	1.0704
Fe 271.441	180513	180686	180557
K 766.491	2.0606	2.3889	2.2194
Mg 279.078	499302	498061	499706
Mn 257.610	-0.0140	-0.0277	-0.0653
Mo 202.032	0.7150u	1.2884	1.3693
Na 330.237	-48.8373u	-2.6644u	-364.163u
Ni 231.604	6.4259	5.7912	7.2685
Pb 220.353	9.1130	5.0945	5.6620
Sb 206.834	2.0753	3.8497	7.1489
Se 196.026	-0.1737	10.6658	-17.2962u
Sn 189.925	2.1735	1.4945	-5.5666u
Sr 216.596	-0.5382	-0.5373	-0.8626
Ti 334.941	1.7025	1.6623	1.6517
Tl 190.794	-14.6400u	-7.8202u	-13.1340u
V 292.401	2.5069	2.3105	2.4317
Zn 206.200	14.5673	12.8119	17.2545

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.6020	ppb	0.6068	100.8	-43.3999	0.60198
Al 308.215	501683	ppb	18.0202	0.0	3493048	-
As 188.980	-2.3521	ppb	1.4476	61.5	-3.1240	-2.35208
B 249.678	-46.9905	ppb	0.6639	1.4	-933.883	-46.99054
Ba 389.178	-8.5442	ppb	0.7229	8.5	1471.41	-8.54424
Be 313.042	-0.1251	ppb	0.0030	2.4	-287.392	-0.12505
Ca 370.602	472548	ppb	1257	0.3	1454281	-
Cd 226.502	0.5789	ppb	0.0278	4.8	855.543	0.57886
Co 228.615	0.2174	ppb	0.9037	415.7	6.6459	0.21741
Cr 267.716	0.5291	ppb	0.0603	11.4	100.866	0.52910
Cu 324.754	1.0301	ppb	0.2165	21.0	281.866	1.03008
Fe 271.441	180585	ppb	90.0737	0.0	312557	-
K 766.491	2.2230	ppb	0.1642	7.4	345.565	2.22295
Mg 279.078	499023	ppb	857.293	0.2	1287358	-
Mn 257.610	-0.0356	ppb	0.0266	74.6	5107.88	-0.03564
Mo 202.032	1.1243	ppb	0.3567	31.7	8.0940	1.12425
Na 330.237	-138.555	ppb	196.742	142.0	-16.2854	-138.55504
Ni 231.604	6.4952	ppb	0.7411	11.4	24.6666	6.49520
Pb 220.353	6.6232	ppb	2.1749	32.8	30.3026	6.62317
Sb 206.834	4.3580	ppb	2.5747	59.1	20.2097	4.35799
Se 196.026	-2.2681	ppb	14.0982	621.6	9.0283	-2.26805
Sn 189.925	-0.6329	ppb	4.2862	677.3	-13.3487	-0.63288
Sr 216.596	-0.6460	ppb	0.1876	29.0	395.177	-0.64603
Ti 334.941	1.6722	ppb	0.0268	1.6	2765.31	1.67215
Tl 190.794	-11.8647	ppb	3.5827	30.2	-42.7925	-11.86471
V 292.401	2.4164	ppb	0.0991	4.1	133.081	2.41640
Zn 206.200	14.8779	ppb	2.2375	15.0	25.8411	14.87790

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Interf Check AB (ICSAB) 12/18/2013, 2:17:45 PM Rack S, Tube 6
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	215.110	215.232	214.979
Al 308.215	503287	503573	503843
As 188.980	96.4270	97.2009	91.8602
B 249.678	-47.3796u	-48.4525u	-47.9746u
Ba 389.178	472.757	473.034	472.901
Be 313.042	456.945	456.935	458.707
Ca 370.602	475819	474329	473599
Cd 226.502	894.718	894.543	893.055
Co 228.615	452.905	451.724	453.121
Cr 267.716	480.421	480.191	480.071
Cu 324.754	529.250	529.866	533.789
Fe 271.441	181421	181638	181681
K 766.491	3.1661	3.1688	3.2948
Mg 279.078	499047	500401	499734
Mn 257.610	478.379	478.490	478.721
Mo 202.032	1112.80x	1114.25x	1113.31x
Na 330.237	-246.214u	-786.805u	-376.957u
Ni 231.604	889.016	885.434	881.753
Pb 220.353	46.3365	49.5965	54.3829
Sb 206.834	603.304	607.888	612.113
Se 196.026	47.4362	54.8206	36.9475
Sn 189.925	1048.57	1059.50	1049.08
Sr 216.596	-2.8139	-2.5704	-2.4500
Ti 334.941	2.3067	2.2427	2.3760
Tl 190.794	80.0776	76.0299	82.5243
V 292.401	475.262	475.475	476.048
Zn 206.200	892.582	895.511	899.972

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	215.107b	ppb	0.1262	0.1	17809.9	107.55358
Al 308.215	503568b	ppb	278.113	0.1	3506173	100.71352
As 188.980	95.1627b	ppb	2.8861	3.0	70.6274	95.16270
B 249.678	-47.9356b	ppb	0.5375	1.1	-948.877	-
Ba 389.178	472.897b	ppb	0.1384	0.0	13641.0	94.57948
Be 313.042	457.529b	ppb	1.0201	0.2	938010	91.50575
Ca 370.602	474582b	ppb	1131	0.2	1460545	94.91647
Cd 226.502	894.105b	ppb	0.9134	0.1	46369.1	89.41052
Co 228.615	452.583b	ppb	0.7519	0.2	6007.31	90.51667
Cr 267.716	480.228b	ppb	0.1781	0.0	28689.9	96.04557
Cu 324.754	530.968b	ppb	2.4618	0.5	34486.8	106.19365
Fe 271.441	181580b	ppb	139.767	0.1	314335	90.78999
K 766.491	3.2099b	ppb	0.0735	2.3	388.210	-
Mg 279.078	499727b	ppb	676.725	0.1	1289165	99.94545
Mn 257.610	478.530b	ppb	0.1742	0.0	127461	95.70598
Mo 202.032	1113.45xb	ppb	0.7389	0.1	9008.32	111.34530
Na 330.237	-469.992b	ppb	282.048	60.0	-42.8791	-
Ni 231.604	885.401b	ppb	3.6316	0.4	3140.98	88.54012
Pb 220.353	50.1053b	ppb	4.0472	8.1	110.200	100.21059
Sb 206.834	607.768b	ppb	4.4059	0.7	911.098	101.29475
Se 196.026	46.4014b	ppb	8.9814	19.4	32.5541	92.80287
Sn 189.925	1052.38b	ppb	6.1704	0.6	1001.67	105.23838
Sr 216.596	-2.6115b	ppb	0.1854	7.1	319.944	-

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	2.3085b	ppb	0.0667	2.9	2952.53	-
Tl 190.794	79.5439b	ppb	3.2800	4.1	77.6526	79.54391G
V 292.401	475.595b	ppb	0.4065	0.1	13409.9	95.11900
Zn 206.200	896.022b	ppb	3.7211	0.4	1386.59	89.60217

LRA1 (Samp)

12/18/2013, 2:22:32 PM

Rack S, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3816	-0.1330	-0.2677
Al 308.215	62.1364	62.9416	61.8626
As 188.980	19829.4x	19926.8x	19955.6x
B 249.678	4943.40	4920.32	4989.29
Ba 389.178	-0.4703u	-1.0629u	-1.0996u
Be 313.042	0.1001	0.1056	0.1119
Ca 370.602	-1045	-1039	-1039
Cd 226.502	-1.0150u	-0.8577u	-0.8658u
Co 228.615	9721.34	9752.91	9733.79
Cr 267.716	-1.7419	-1.6223	-1.5587
Cu 324.754	-6.7824u	-6.7738u	-6.6246u
Fe 271.441	75.0719	77.8746	72.6205
K 766.491	0.5325	-0.2598u	0.7461
Mg 279.078	-6.1342u	-9.0588u	-8.5573u
Mn 257.610	27328.1x	27442.1x	27430.3x
Mo 202.032	1.7051	1.5421	1.4141
Na 330.237	2359.45	2065.09u	2221.39
Ni 231.604	9666.41x	9722.47x	9683.51x
Pb 220.353	19724.6x	19817.3x	19740.4x
Sb 206.834	3.9703	4.9910	3.1773
Se 196.026	5.9016	6.2373	-5.9421
Sn 189.925	-0.3135u	-1.5719u	2.3787
Sr 216.596	-7.7758u	-7.8365u	-7.8040u
Ti 334.941	29175.2x	29349.0x	29230.5x
Tl 190.794	49.2504	50.6129	50.3519
V 292.401	-3.1853	-2.9334	-3.2388
Zn 206.200	-1.3049u	-1.5517u	-1.5407u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2608b	ppb	0.1245	47.7	108.870
Al 308.215	62.3135b	ppb	0.5609	0.9	633.053
As 188.980	19903.9xb	ppb	66.1229	0.3	15122.9
B 249.678	4951.00b	ppb	35.1065	0.7	68805.9
Ba 389.178	-0.8776b	ppb	0.3532	40.2	-49.9599
Be 313.042	0.1059b	ppb	0.0059	5.6	-34.1270
Ca 370.602	-1041b	ppb	3.166	0.3	14018
Cd 226.502	-0.9128b	ppb	0.0886	9.7	-30.6273
Co 228.615	9736.01b	ppb	15.9032	0.2	130660
Cr 267.716	-1.6410b	ppb	0.0930	5.7	130.699
Cu 324.754	-6.7270b	ppb	0.0887	1.3	-287.024
Fe 271.441	75.1890b	ppb	2.6290	3.5	1200.52
K 766.491	0.3396b	ppb	0.5300	156.1	264.189
Mg 279.078	-7.9168b	ppb	1.5640	19.8	-536.727
Mn 257.610	27400.2xb	ppb	62.7151	0.2	7004677
Mo 202.032	1.5538b	ppb	0.1458	9.4	21.5727

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	2215.31b	ppb	147.278	6.6	34.4123
Ni 231.604	9690.80xb	ppb	28.7337	0.3	34342.8
Pb 220.353	19760.7xb	ppb	49.6002	0.3	37064.7
Sb 206.834	4.0462b	ppb	0.9093	22.5	13.5881
Se 196.026	2.0656b	ppb	6.9369	335.8	14.9982
Sn 189.925	0.1644b	ppb	2.0182	1227.3	-12.8044
Sr 216.596	-7.8054b	ppb	0.0304	0.4	-401.598
Ti 334.941	29251.6xb	ppb	88.7526	0.3	8389565
Tl 190.794	50.0717b	ppb	0.7232	1.4	64.9947
V 292.401	-3.1191b	ppb	0.1631	5.2	386.244
Zn 206.200	-1.4658b	ppb	0.1395	9.5	4.6906

LRA2 (Samp) 12/18/2013, 2:30:06 PM Rack S, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.0954u	3.2330u	4.6257u
Al 308.215	819129x	818635x	817729x
As 188.980	28.8746	25.0353	29.0088
B 249.678	-263.075u	-263.622u	-267.004u
Ba 389.178	-34.2372	-34.7361	-37.0931
Be 313.042	-0.1707u	-0.1856u	-0.1761u
Ca 370.602	733026	737439	741537
Cd 226.502	2.3071	3.4994	2.0591
Co 228.615	-3.4447u	-4.6401u	-5.3889u
Cr 267.716	-2.5645	-2.5439	-2.3558
Cu 324.754	-1.1723	-1.6459	-0.1179
Fe 271.441	930597	927577	930613
K 766.491	22.7842	22.3879	22.5242
Mg 279.078	791866	791409	793985
Mn 257.610	3.7268	3.8482	3.9450
Mo 202.032	3.3887u	1.3271u	2.9078u
Na 330.237	747.935u	719.333u	697.109u
Ni 231.604	-1.3271	1.6564	0.9343
Pb 220.353	21.0134	10.2269	17.0551
Sb 206.834	3.3733	-1.1763	5.0427
Se 196.026	-14.3883	-25.2993	-28.3206
Sn 189.925	-0.7585u	6.8768	0.0080
Sr 216.596	17.4903	16.7137	18.0979
Ti 334.941	-1.5669	-1.8040	-1.9559
Tl 190.794	-42.9905u	-39.3812u	-47.1128u
V 292.401	4.6552	4.6927	4.5842
Zn 206.200	-8.0745u	-8.8027u	-9.6222u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.6514b	ppb	0.8466	23.2	-108.538
Al 308.215	818498xb	ppb	709.899	0.1	5698748
As 188.980	27.6396b	ppb	2.2564	8.2	14.5349
B 249.678	-264.567b	ppb	2.1279	0.8	-5394.44
Ba 389.178	-35.3554b	ppb	1.5254	4.3	2841.94
Be 313.042	-0.1775b	ppb	0.0075	4.2	-288.571
Ca 370.602	737334b	ppb	4257	0.6	2216006
Cd 226.502	2.6218b	ppb	0.7700	29.4	4298.23
Co 228.615	-4.4912b	ppb	0.9806	21.8	-26.5911

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-2.4881b	ppb	0.1150	4.6	143.146
Cu 324.754	-0.9787b	ppb	0.7822	79.9	436.545
Fe 271.441	929595b	ppb	1748.14	0.2	1608892
K 766.491	22.5654b	ppb	0.2013	0.9	1224.53
Mg 279.078	792420b	ppb	1374.58	0.2	2044229
Mn 257.610	3.8400b	ppb	0.1094	2.8	11016.5
Mo 202.032	2.5412b	ppb	1.0785	42.4	-22.1269
Na 330.237	721.459b	ppb	25.4794	3.5	-145.112
Ni 231.604	0.4212b	ppb	1.5565	369.6	24.1552
Pb 220.353	16.0985b	ppb	5.4565	33.9	100.945
Sb 206.834	2.4132b	ppb	3.2188	133.4	42.7396
Se 196.026	-22.6694b	ppb	7.3291	32.3	10.5392
Sn 189.925	2.0421b	ppb	4.2045	205.9	-10.6699
Sr 216.596	17.4340b	ppb	0.6938	4.0	2062.85
Ti 334.941	-1.7756b	ppb	0.1960	11.0	3243.26
Tl 190.794	-43.1615b	ppb	3.8686	9.0	-166.044
V 292.401	4.6441b	ppb	0.0551	1.2	492.277
Zn 206.200	-8.8331b	ppb	0.7743	8.8	-27.8374

K NA ZN (Samp)

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Rack S, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0341u	0.0298	0.1322
Al 308.215	46.7889	70.3792	126.648
As 188.980	15.5521	12.2707	10.3750
B 249.678	2.9915	3.0936	3.3030
Ba 389.178	-0.1204u	-0.8412u	-0.5868u
Be 313.042	-0.0023u	0.0041u	0.0068
Ca 370.602	41.01	67.46	129.8
Cd 226.502	0.0218	-0.0483u	0.2074
Co 228.615	-0.2953u	0.3551	0.3083
Cr 267.716	-0.0627u	0.0099	0.0153
Cu 324.754	0.1418	0.0185	0.0454
Fe 271.441	50.4421	80.0999	145.779
K 766.491	41931.0x	41757.9x	41995.2x
Mg 279.078	42.4397	65.1274	129.671
Mn 257.610	0.1949	0.3658	0.7679
Mo 202.032	-0.4388u	-0.2480u	0.0859
Na 330.237	102887x	101693x	102771x
Ni 231.604	-0.1800u	-0.0384u	-0.4125u
Pb 220.353	0.3737	1.1454	0.1532
Sb 206.834	0.0439	-0.6504u	1.2648
Se 196.026	7.1393	4.0168	3.7174
Sn 189.925	-0.3693u	-0.0937u	0.5041
Sr 216.596	-0.0487u	-0.0556u	-0.1480u
Ti 334.941	1.2819	1.3905	1.7274
Tl 190.794	-0.6513u	-5.3570u	-2.0839u
V 292.401	0.1181	0.1498	0.4469
Zn 206.200	29330.6x	29072.7x	29097.9x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0426b	ppb	0.0839	196.8	-7.5105
Al 308.215	81.2720b	ppb	41.0288	50.5	834.739

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	12.7326b	ppb	2.6193	20.6	4.4424
B 249.678	3.1294b	ppb	0.1588	5.1	109.687
Ba 389.178	-0.5162b	ppb	0.3655	70.8	-41.0890
Be 313.042	0.0029b	ppb	0.0047	160.9	-245.813
Ca 370.602	79.42b	ppb	45.59	57.4	250.8
Cd 226.502	0.0603b	ppb	0.1321	219.1	14.9602
Co 228.615	0.1227b	ppb	0.3628	295.7	-1.9092
Cr 267.716	-0.0125b	ppb	0.0436	349.2	11.2311
Cu 324.754	0.0686b	ppb	0.0648	94.5	151.241
Fe 271.441	92.1069b	ppb	48.7893	53.0	172.020
K 766.491	41894.7xb	ppb	122.758	0.3	1810450
Mg 279.078	79.0794b	ppb	45.2583	57.2	227.224
Mn 257.610	0.4429b	ppb	0.2942	66.4	174.140
Mo 202.032	-0.2003b	ppb	0.2656	132.6	7.4434
Na 330.237	102450xb	ppb	658.388	0.6	3854.66
Ni 231.604	-0.2103b	ppb	0.1889	89.8	-4.3694
Pb 220.353	0.5574b	ppb	0.5210	93.5	14.8832
Sb 206.834	0.2194b	ppb	0.9696	441.9	7.8620
Se 196.026	4.9578b	ppb	1.8951	38.2	9.7660
Sn 189.925	0.0137b	ppb	0.4465	3254.4	-12.9085
Sr 216.596	-0.0841b	ppb	0.0555	65.9	8.8117
Ti 334.941	1.4666b	ppb	0.2323	15.8	341.914
Tl 190.794	-2.6974b	ppb	2.4121	89.4	-10.9137
V 292.401	0.2383b	ppb	0.1814	76.1	-3.4007
Zn 206.200	29167.0xb	ppb	142.180	0.5	45071.3

Cont Calib Verif (CCV) 12/18/2013, 2:39:40 PM Rack 1, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	505.692	506.253	503.180
Al 308.215	4860.13	4881.90	4848.83
As 188.980	510.774	519.755	516.945
B 249.678	477.147	481.600	481.065
Ba 389.178	5011.91	5042.45	5009.40
Be 313.042	492.783	495.941	489.415
Ca 370.602	4865	4882	4848
Cd 226.502	496.764	499.045	494.226
Co 228.615	496.859	500.729	495.392
Cr 267.716	5012.36	5036.19	5001.83
Cu 324.754	4959.74	5023.04	5027.39
Fe 271.441	4989.63	5016.87	4977.67
K 766.491	10110.1	10131.9	10108.9
Mg 279.078	4983.98	4999.98	4971.77
Mn 257.610	4963.78	4976.32	4945.12
Mo 202.032	508.459	513.521	509.463
Na 330.237	7073.91	7194.87	7160.59
Ni 231.604	2418.13	2437.27	2410.99
Pb 220.353	503.813	503.487	493.901
Sb 206.834	983.656	987.386	987.042
Se 196.026	4931.93	4925.70	4922.47
Sn 189.925	5037.71	5144.38	5065.66
Sr 216.596	2480.31	2490.56	2467.79
Ti 334.941	493.145	495.830	493.290

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Label	Replicates Concentration		
Tl 190.794	5034.44	5054.52	5012.04
V 292.401	4988.96	5004.59	4973.66
Zn 206.200	2476.50	2482.04	2462.80

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.042	ppb	1.6362	0.3	41944.1	101.00832
Al 308.215	4863.62	ppb	16.8046	0.3	33539.4	97.27239
As 188.980	515.825	ppb	4.5940	0.9	386.653	103.16499
B 249.678	479.937	ppb	2.4315	0.5	6720.15	95.98746
Ba 389.178	5021.25	ppb	18.3989	0.4	126811	100.42509
Be 313.042	492.713	ppb	3.2634	0.7	1012074	98.54262
Ca 370.602	4865	ppb	16.95	0.3	15179	97.29655
Cd 226.502	496.679	ppb	2.4107	0.5	25331.7	99.33573
Co 228.615	497.660	ppb	2.7573	0.6	6647.38	99.53201
Cr 267.716	5016.79	ppb	17.6059	0.4	299104	100.33586
Cu 324.754	5003.39	ppb	37.8663	0.8	322727	100.06776
Fe 271.441	4994.72	ppb	20.0868	0.4	8775.41	99.89447
K 766.491	10117.0	ppb	12.9578	0.1	437387	101.16962
Mg 279.078	4985.24	ppb	14.1488	0.3	12786.4	99.70484
Mn 257.610	4961.74	ppb	15.6980	0.3	1268548	99.23480
Mo 202.032	510.481	ppb	2.6803	0.5	4129.24	102.09624
Na 330.237	7143.12	ppb	62.3441	0.9	287.502	95.24162
Ni 231.604	2422.13	ppb	13.5933	0.6	8586.59	96.88515
Pb 220.353	500.400	ppb	5.6311	1.1	952.708	100.08005
Sb 206.834	986.028	ppb	2.0611	0.2	1569.53	98.60279
Se 196.026	4926.70	ppb	4.8093	0.1	2376.99	98.53400
Sn 189.925	5082.58	ppb	55.3163	1.1	4886.21	101.65164
Sr 216.596	2479.55	ppb	11.4014	0.5	37854.0	99.18216
Ti 334.941	494.088	ppb	1.5105	0.3	141661	98.81764
Tl 190.794	5033.67	ppb	21.2522	0.4	6606.49	100.67335
V 292.401	4989.07	ppb	15.4622	0.3	141949	99.78136
Zn 206.200	2473.78	ppb	9.9061	0.4	3822.28	98.95110

Cont Calib Blank (CCB) 12/18/2013, 2:44:24 PM Rack 1, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3067u	-0.0581u	-0.1265u
Al 308.215	8.2103	10.1132	8.2679
As 188.980	2.1208	2.6766	5.8332
B 249.678	3.9085	2.7718	2.4820
Ba 389.178	-0.3993u	0.1823	-0.8853u
Be 313.042	0.0007	0.0070	0.0125
Ca 370.602	8.104	8.887	8.527
Cd 226.502	0.1983	-0.0209u	0.0328
Co 228.615	0.4098	-0.2579u	0.1783
Cr 267.716	0.2626	0.3191	0.3237
Cu 324.754	-0.0308u	-0.0135u	0.1381
Fe 271.441	11.8569	3.3873	5.7202
K 766.491	1.6563	1.1109	0.9929
Mg 279.078	8.9668	9.0218	11.7168
Mn 257.610	0.1133	0.1518	0.1340
Mo 202.032	0.3713	1.0838	0.6588
Na 330.237	121.985	-63.8931u	30.8061

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Label	Replicates Concentration		
Ni 231.604	0.5419	-0.5008u	-0.1106u
Pb 220.353	0.0368	0.8831	-0.7151u
Sb 206.834	0.6144	3.1107	0.3515
Se 196.026	5.6900	-0.9003u	-2.9939u
Sn 189.925	1.8983	1.4494	1.5222
Sr 216.596	-0.2963u	-0.5055u	0.0944
Ti 334.941	0.5881	0.6116	0.5572
Tl 190.794	3.1894	1.3018	1.5838
V 292.401	-0.0436u	0.2274	0.2011
Zn 206.200	-0.2468u	-0.9576u	-1.0979u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1638	ppb	0.1284	78.4	-24.6532	-0.16376
Al 308.215	8.8638	ppb	1.0824	12.2	330.694	8.86378
As 188.980	3.5435	ppb	2.0023	56.5	-2.5420	3.54351
B 249.678	3.0541	ppb	0.7540	24.7	108.703	3.05413
Ba 389.178	-0.3674	ppb	0.5345	145.5	-37.6616	-0.36740
Be 313.042	0.0068	ppb	0.0059	87.1	-225.510	0.00676
Ca 370.602	8.506	ppb	0.3916	4.6	36.83	8.50610
Cd 226.502	0.0701	ppb	0.1142	163.1	15.8279	0.07006
Co 228.615	0.1101	ppb	0.3390	308.0	-2.1677	0.11007
Cr 267.716	0.3018	ppb	0.0340	11.3	28.3906	0.30181
Cu 324.754	0.0313	ppb	0.0929	297.3	148.838	0.03126
Fe 271.441	6.9881	ppb	4.3749	62.6	24.6995	6.98814
K 766.491	1.2534	ppb	0.3539	28.2	303.672	1.25338
Mg 279.078	9.9018	ppb	1.5721	15.9	48.7734	9.90181
Mn 257.610	0.1331	ppb	0.0193	14.5	94.6486	0.13305
Mo 202.032	0.7047	ppb	0.3585	50.9	14.7717	0.70467
Na 330.237	29.6328	ppb	92.9448	313.7	30.7385	29.63282
Ni 231.604	-0.0232	ppb	0.5268	2272.9	-3.7453	-0.02318
Pb 220.353	0.0683	ppb	0.7996	1171.1	13.9595	0.06827
Sb 206.834	1.3589	ppb	1.5228	112.1	9.5499	1.35885
Se 196.026	0.5986	ppb	4.5319	757.1	7.6691	0.59861
Sn 189.925	1.6233	ppb	0.2409	14.8	-11.3976	1.62331
Sr 216.596	-0.2358	ppb	0.3045	129.2	6.3052	-0.23578
Ti 334.941	0.5856	ppb	0.0273	4.7	96.7715	0.58562
Tl 190.794	2.0250	ppb	1.0182	50.3	-4.7005	2.02500
V 292.401	0.1283	ppb	0.1495	116.5	-5.9564	0.12831
Zn 206.200	-0.7675	ppb	0.4563	59.5	5.7868	-0.76745

mb 680-308102/1-a (Samp)

12/18/2013, 2:49:08 PM

Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0134u	-0.1861u	-0.0915u
Al 308.215	9.7854	9.2413	10.8471
As 188.980	1.7036	-0.1335u	0.1432
B 249.678	2.6492	2.2957	3.1156
Ba 389.178	0.0367	-0.1858u	-1.0744u
Be 313.042	0.0001	-0.0013u	0.0066
Ca 370.602	10.94	5.716	10.82
Cd 226.502	0.1156	0.0596	-0.1177u
Co 228.615	-0.0492u	0.1924	-0.1279u
Cr 267.716	0.2346	0.0966	0.3350

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-0.1195u	-0.3967u	0.1973
Fe 271.441	13.7089	4.5489	12.0463
K 766.491	2.2148	1.8213	1.0449
Mg 279.078	10.0950	12.2612	12.3325
Mn 257.610	0.1645	0.1571	0.2160
Mo 202.032	0.0262	-0.1754u	0.1754
Na 330.237	123.229	104.718	108.317
Ni 231.604	-0.1699u	0.2364	0.7985
Pb 220.353	-0.2442u	2.2136	-1.0059u
Sb 206.834	-0.1480u	-1.7615u	-2.3401u
Se 196.026	5.9546	7.6868	3.5725
Sn 189.925	0.5938	3.2035	3.0231
Sr 216.596	-0.1479u	-0.3770u	0.2440
Ti 334.941	0.3615	0.2914	0.3308
Tl 190.794	1.2783	-3.1666u	0.5385
V 292.401	0.3239	0.4034	-0.1097u
Zn 206.200	1.2284	0.8556	1.7788

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0970	ppb	0.0864	89.1	-19.1012
Al 308.215	9.9579	ppb	0.8167	8.2	338.258
As 188.980	0.5711	ppb	0.9905	173.4	-4.8010
B 249.678	2.6868	ppb	0.4113	15.3	103.598
Ba 389.178	-0.4079	ppb	0.5879	144.1	-38.6765
Be 313.042	0.0018	ppb	0.0042	235.7	-235.570
Ca 370.602	9.158	ppb	2.981	32.6	38.46
Cd 226.502	0.0192	ppb	0.1218	634.8	13.2498
Co 228.615	0.0051	ppb	0.1669	3281.7	-3.5524
Cr 267.716	0.2221	ppb	0.1197	53.9	23.6404
Cu 324.754	-0.1063	ppb	0.2972	279.6	139.942
Fe 271.441	10.1013	ppb	4.8799	48.3	30.0782
K 766.491	1.6937	ppb	0.5953	35.1	322.696
Mg 279.078	11.5629	ppb	1.2717	11.0	53.0579
Mn 257.610	0.1792	ppb	0.0321	17.9	106.470
Mo 202.032	0.0087	ppb	0.1761	2016.4	9.1397
Na 330.237	112.088	ppb	9.8145	8.8	34.1216
Ni 231.604	0.2883	ppb	0.4863	168.7	-2.6400
Pb 220.353	0.3211	ppb	1.6826	523.9	14.4353
Sb 206.834	-1.4166	ppb	1.1360	80.2	5.4076
Se 196.026	5.7380	ppb	2.0657	36.0	10.1397
Sn 189.925	2.2735	ppb	1.4574	64.1	-10.7709
Sr 216.596	-0.0937	ppb	0.3141	335.3	8.4893
Ti 334.941	0.3279	ppb	0.0351	10.7	22.8551
Tl 190.794	-0.4499	ppb	2.3816	529.3	-7.9522
V 292.401	0.2059	ppb	0.2762	134.1	-3.6191
Zn 206.200	1.2876	ppb	0.4644	36.1	8.9619

lcs 680-308102/2-a (Samp) 12/18/2013, 2:53:53 PM Rack 1, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.3389	51.1017	51.1374
Al 308.215	4805.08	4829.69	4806.83
As 188.980	97.7638	104.739	105.233

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	192.000	194.388	195.092
Ba 389.178	101.276	100.439	100.116
Be 313.042	49.7381	49.9338	49.7159
Ca 370.602	4986	5006	4971
Cd 226.502	50.1103	49.9888	49.8875
Co 228.615	49.6495	50.4254	50.0482
Cr 267.716	102.848	103.167	102.357
Cu 324.754	101.477	99.9936	100.641
Fe 271.441	5042.12	5051.56	5030.67
K 766.491	5097.62	5112.03	5106.35
Mg 279.078	5006.51	5028.82	4999.29
Mn 257.610	513.608	515.369	511.824
Mo 202.032	101.637	101.515	100.582
Na 330.237	4996.27	5517.23	5363.69
Ni 231.604	98.6137	99.6656	98.2234
Pb 220.353	51.8309	52.2845	51.1182
Sb 206.834	48.8882	49.3685	49.2939
Se 196.026	94.9021	102.777	88.5814
Sn 189.925	207.883	208.731	207.027
Sr 216.596	100.112	99.7894	99.4614
Ti 334.941	100.528	101.190	100.601
Tl 190.794	39.2649	40.6319	40.0671
V 292.401	101.646	101.512	101.577
Zn 206.200	104.412	104.410	102.867

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.1926	ppb	0.1279	0.2	4244.57
Al 308.215	4813.87	ppb	13.7295	0.3	33776.8
As 188.980	102.579	ppb	4.1771	4.1	72.6954
B 249.678	193.826	ppb	1.6204	0.8	2747.74
Ba 389.178	100.610	ppb	0.5988	0.6	2535.51
Be 313.042	49.7959	ppb	0.1199	0.2	101881
Ca 370.602	4988	ppb	17.73	0.4	15174
Cd 226.502	49.9956	ppb	0.1116	0.2	2581.18
Co 228.615	50.0410	ppb	0.3880	0.8	663.817
Cr 267.716	102.791	ppb	0.4081	0.4	6142.19
Cu 324.754	100.704	ppb	0.7435	0.7	6644.50
Fe 271.441	5041.45	ppb	10.4628	0.2	8744.82
K 766.491	5105.33	ppb	7.2621	0.1	220842
Mg 279.078	5011.54	ppb	15.3951	0.3	12941.5
Mn 257.610	513.600	ppb	1.7724	0.3	131418
Mo 202.032	101.245	ppb	0.5774	0.6	827.874
Na 330.237	5292.40	ppb	267.694	5.1	245.867
Ni 231.604	98.8342	ppb	0.7460	0.8	346.913
Pb 220.353	51.7445	ppb	0.5879	1.1	111.086
Sb 206.834	49.1835	ppb	0.2584	0.5	81.3763
Se 196.026	95.4201	ppb	7.1119	7.5	53.4514
Sn 189.925	207.880	ppb	0.8519	0.4	187.420
Sr 216.596	99.7878	ppb	0.3256	0.3	1540.87
Ti 334.941	100.773	ppb	0.3629	0.4	28855.1
Tl 190.794	39.9880	ppb	0.6869	1.7	44.4350
V 292.401	101.578	ppb	0.0672	0.1	2868.29
Zn 206.200	103.896	ppb	0.8914	0.9	167.245

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

680-97062-c-1-b (Samp) **12/18/2013, 2:58:38 PM** **Rack 1, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0801	0.0022u	0.0776
Al 308.215	1793.91	1794.91	1793.96
As 188.980	6.1274	3.9547	4.4833
B 249.678	36.7909	37.1666	37.1363
Ba 389.178	22.1188	22.7893	22.9358
Be 313.042	-0.0184u	-0.0152u	-0.0062
Ca 370.602	57044	57104	56932
Cd 226.502	0.5959	0.3878	0.5190
Co 228.615	0.4309	0.4669	0.3067
Cr 267.716	3.9438	3.7492	3.9108
Cu 324.754	43.5682	42.7019	43.1806
Fe 271.441	1875.48	1887.29	1872.69
K 766.491	1872.40	1881.71	1874.14
Mg 279.078	23003.5	23005.7	22977.2
Mn 257.610	112.097	112.231	111.947
Mo 202.032	43.6044	43.3674	42.2215
Na 330.237	9476.15	9450.00	9497.49
Ni 231.604	29.4775	30.2890	29.4507
Pb 220.353	2.2041	1.2759	2.2273
Sb 206.834	-2.3796u	-1.7778u	0.0063u
Se 196.026	-4.3359u	2.9273	-3.6437u
Sn 189.925	0.2532	1.5796	1.3180
Sr 216.596	59.6033	59.8207	59.3329
Ti 334.941	0.9812	0.9585	1.0338
Tl 190.794	-4.7668u	-1.4359u	-3.3195u
V 292.401	2.9248	2.7757	2.7630
Zn 206.200	47.4778	48.8577	46.9864

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0533	ppb	0.0443	83.0	-10.2864
Al 308.215	1794.26	ppb	0.5664	0.0	12763.1
As 188.980	4.8551	ppb	1.1330	23.3	-1.5597
B 249.678	37.0312	ppb	0.2087	0.6	576.853
Ba 389.178	22.6147	ppb	0.4356	1.9	611.441
Be 313.042	-0.0132	ppb	0.0063	47.8	-252.852
Ca 370.602	57027	ppb	87.46	0.2	177152
Cd 226.502	0.5009	ppb	0.1052	21.0	46.4437
Co 228.615	0.4015	ppb	0.0841	20.9	0.4713
Cr 267.716	3.8679	ppb	0.1041	2.7	242.351
Cu 324.754	43.1502	ppb	0.4339	1.0	2931.38
Fe 271.441	1878.49	ppb	7.7469	0.4	3263.87
K 766.491	1876.08	ppb	4.9491	0.3	81311.8
Mg 279.078	22995.4	ppb	15.8562	0.1	59350.3
Mn 257.610	112.092	ppb	0.1425	0.1	28929.5
Mo 202.032	43.0644	ppb	0.7396	1.7	357.449
Na 330.237	9474.55	ppb	23.7823	0.3	420.937
Ni 231.604	29.7391	ppb	0.4764	1.6	101.877
Pb 220.353	1.9024	ppb	0.5427	28.5	17.4751
Sb 206.834	-1.3837	ppb	1.2408	89.7	4.5129
Se 196.026	-1.6841	ppb	4.0085	238.0	6.6273
Sn 189.925	1.0503	ppb	0.7026	66.9	-11.9186
Sr 216.596	59.5856	ppb	0.2444	0.4	931.089

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.9912	ppb	0.0386	3.9	318.952
Tl 190.794	-3.1741	ppb	1.6702	52.6	-11.8277
V 292.401	2.8212	ppb	0.0900	3.2	64.2055
Zn 206.200	47.7740	ppb	0.9702	2.0	80.7378

640-46088-b-1-a (Samp) 12/18/2013, 3:03:23 PM Rack 1, Tube 6
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4061	0.0811u	0.0827u
Al 308.215	11.0810	11.6371	10.7145
As 188.980	5.5347	2.5254	2.1331
B 249.678	12.1508	12.9970	12.6833
Ba 389.178	10.8810	10.1692	10.8086
Be 313.042	-0.0193u	-0.0180u	-0.0169u
Ca 370.602	56139	56267	56334
Cd 226.502	0.0338	0.0385	-0.0402u
Co 228.615	0.0966	0.1949	0.1896
Cr 267.716	0.0517	0.0417	0.1265
Cu 324.754	0.2095	0.6847	-0.0508u
Fe 271.441	14.0601	15.1654	20.5667
K 766.491	435.137	435.157	436.154
Mg 279.078	5007.23	5005.78	5013.58
Mn 257.610	16.5429	16.5790	16.5970
Mo 202.032	1.5386	1.6186	1.7929
Na 330.237	4711.29	4963.84	4822.52
Ni 231.604	0.6380	0.6840	-0.9525u
Pb 220.353	-0.4996u	2.3224	-0.0114u
Sb 206.834	-3.5336u	-2.7094u	-4.2605u
Se 196.026	-2.2912u	3.8871	-0.5053u
Sn 189.925	1.0957	-3.0404u	0.0588
Sr 216.596	143.584	144.631	144.400
Ti 334.941	0.2362	0.2431	0.3001
Tl 190.794	-3.2660u	-1.3293u	-0.1637u
V 292.401	1.7824	1.8660	1.6220
Zn 206.200	1.6273	1.7335	2.5994

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1900	ppb	0.1872	98.5	-2.6321
Al 308.215	11.1442	ppb	0.4645	4.2	346.419
As 188.980	3.3977	ppb	1.8611	54.8	-2.6532
B 249.678	12.6104	ppb	0.4278	3.4	241.372
Ba 389.178	10.6196	ppb	0.3917	3.7	254.037
Be 313.042	-0.0181	ppb	0.0012	6.7	-255.238
Ca 370.602	56247	ppb	98.75	0.2	174877
Cd 226.502	0.0107	ppb	0.0442	413.3	12.8888
Co 228.615	0.1604	ppb	0.0553	34.5	-1.5331
Cr 267.716	0.0733	ppb	0.0463	63.1	14.9303
Cu 324.754	0.2812	ppb	0.3730	132.6	164.966
Fe 271.441	16.5974	ppb	3.4817	21.0	41.3548
K 766.491	435.483	ppb	0.5815	0.1	19066.0
Mg 279.078	5008.86	ppb	4.1503	0.1	12946.1
Mn 257.610	16.5730	ppb	0.0276	0.2	4343.19
Mo 202.032	1.6500	ppb	0.1300	7.9	22.4180

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4832.55	ppb	126.576	2.6	229.680
Ni 231.604	0.1232	ppb	0.9319	756.6	-3.2261
Pb 220.353	0.6038	ppb	1.5083	249.8	14.9673
Sb 206.834	-3.5012	ppb	0.7760	22.2	2.2398
Se 196.026	0.3635	ppb	3.1795	874.6	7.5602
Sn 189.925	-0.6286	ppb	2.1520	342.3	-13.5390
Sr 216.596	144.205	ppb	0.5503	0.4	2223.24
Ti 334.941	0.2598	ppb	0.0351	13.5	26.0708
Tl 190.794	-1.5863	ppb	1.5671	98.8	-9.4553
V 292.401	1.7568	ppb	0.1240	7.1	40.3596
Zn 206.200	1.9867	ppb	0.5332	26.8	10.0422

640-46088-b-1-aSD^5 (Samp) **12/18/2013, 3:08:08 PM** **Rack 1, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1374u	0.2145	-0.0519u
Al 308.215	2.8135	2.1620	1.8838
As 188.980	0.8839	6.2413	4.5546
B 249.678	2.4549	3.0796	2.5848
Ba 389.178	1.2720	1.9531	1.3021
Be 313.042	-0.0123u	-0.0121u	-0.0148u
Ca 370.602	10830	10777	10811
Cd 226.502	0.0390	-0.0511u	-0.0672u
Co 228.615	-0.4133u	-0.3882u	0.2503
Cr 267.716	0.3231	0.1452	0.2536
Cu 324.754	-0.2424u	-0.3632u	0.0655
Fe 271.441	10.8966	4.7638	8.8837
K 766.491	81.0862	81.1080	82.2066
Mg 279.078	986.195	982.360	990.427
Mn 257.610	3.6353	3.6177	3.5584
Mo 202.032	-0.2369u	0.1893	0.4133
Na 330.237	1085.29	1262.37	1076.34
Ni 231.604	1.2458	1.2947	-0.0860u
Pb 220.353	1.5954	-0.3948u	0.7703
Sb 206.834	0.4089	-1.2846u	-1.5075u
Se 196.026	0.2146	6.5261	-2.4220u
Sn 189.925	1.1715	-0.5775u	0.2055
Sr 216.596	28.0430	27.5231	27.9323
Ti 334.941	0.2038	0.1715	0.1781
Tl 190.794	-3.4293u	-2.7657u	-0.8909u
V 292.401	0.6954	0.3482	0.2527
Zn 206.200	-0.6043u	0.4308	-0.1564u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0084	ppb	0.1835	2187.7	-11.7617
Al 308.215	2.2864	ppb	0.4772	20.9	284.831
As 188.980	3.8932	ppb	2.7393	70.4	-2.2761
B 249.678	2.7064	ppb	0.3296	12.2	103.879
Ba 389.178	1.5091	ppb	0.3848	25.5	12.4875
Be 313.042	-0.0131	ppb	0.0015	11.6	-261.959
Ca 370.602	10806	ppb	26.81	0.2	33605
Cd 226.502	-0.0264	ppb	0.0572	216.5	10.9171
Co 228.615	-0.1837	ppb	0.3761	204.7	-6.0804

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2406	ppb	0.0897	37.3	24.7778
Cu 324.754	-0.1800	ppb	0.2210	122.8	135.191
Fe 271.441	8.1814	ppb	3.1262	38.2	26.7362
K 766.491	81.4669	ppb	0.6407	0.8	3769.57
Mg 279.078	986.327	ppb	4.0351	0.4	2567.96
Mn 257.610	3.6038	ppb	0.0403	1.1	990.815
Mo 202.032	0.1219	ppb	0.3303	270.9	10.0553
Na 330.237	1141.33	ppb	104.919	9.2	76.7857
Ni 231.604	0.8182	ppb	0.7834	95.8	-0.7602
Pb 220.353	0.6570	ppb	1.0000	152.2	15.0658
Sb 206.834	-0.7944	ppb	1.0480	131.9	6.3343
Se 196.026	1.4396	ppb	4.5981	319.4	8.0742
Sn 189.925	0.2665	ppb	0.8761	328.8	-12.6998
Sr 216.596	27.8328	ppb	0.2739	1.0	437.100
Ti 334.941	0.1845	ppb	0.0171	9.2	-13.8696
Tl 190.794	-2.3619	ppb	1.3165	55.7	-10.4662
V 292.401	0.4321	ppb	0.2330	53.9	2.8026
Zn 206.200	-0.1100	ppb	0.5191	472.0	6.8028

640-46088-b-1-aPDS (Samp) **12/18/2013, 3:12:54 PM** **Rack 1, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	27.0397	26.4158	26.6646
Al 308.215	1916.52	1935.21	1941.08
As 188.980	204.372	207.153	211.022
B 249.678	481.534	489.404	492.509
Ba 389.178	209.370	210.544	212.243
Be 313.042	48.7194	49.1948	49.3390
Ca 370.602	60617	60952	60930
Cd 226.502	49.1862	49.4638	49.4877
Co 228.615	194.822	197.870	198.909
Cr 267.716	198.693	199.896	200.954
Cu 324.754	197.997	201.640	202.915
Fe 271.441	1980.01	2002.79	2012.36
K 766.491	2554.68	2572.08	2585.00
Mg 279.078	7255.09	7301.88	7310.79
Mn 257.610	219.688	221.508	221.837
Mo 202.032	199.694	203.974	203.451
Na 330.237	6799.80	7134.15	7022.76
Ni 231.604	193.336	195.338	193.876
Pb 220.353	197.511	197.090	199.526
Sb 206.834	193.376	195.731	190.624
Se 196.026	193.711	190.660	198.037
Sn 189.925	201.734	204.737	207.122
Sr 216.596	350.574	352.796	354.489
Ti 334.941	198.404	200.263	201.062
Tl 190.794	196.033	197.525	196.146
V 292.401	200.496	201.894	202.555
Zn 206.200	195.216	198.598	198.634

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	26.7067	ppb	0.3141	1.2	2194.74
Al 308.215	1930.94	ppb	12.8229	0.7	13698.2

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	207.516	ppb	3.3399	1.6	152.422
B 249.678	487.816	ppb	5.6572	1.2	6835.40
Ba 389.178	210.719	ppb	1.4442	0.7	5318.45
Be 313.042	49.0844	ppb	0.3243	0.7	100471
Ca 370.602	60833	ppb	187.4	0.3	189092
Cd 226.502	49.3792	ppb	0.1676	0.3	2536.29
Co 228.615	197.200	ppb	2.1239	1.1	2626.79
Cr 267.716	199.848	ppb	1.1313	0.6	11925.9
Cu 324.754	200.851	ppb	2.5524	1.3	13103.3
Fe 271.441	1998.39	ppb	16.6167	0.8	3495.39
K 766.491	2570.59	ppb	15.2138	0.6	111320
Mg 279.078	7289.25	ppb	29.9190	0.4	18825.0
Mn 257.610	221.011	ppb	1.1575	0.5	56632.5
Mo 202.032	202.373	ppb	2.3346	1.2	1646.19
Na 330.237	6985.57	ppb	170.250	2.4	315.058
Ni 231.604	194.183	ppb	1.0358	0.5	684.622
Pb 220.353	198.042	ppb	1.3021	0.7	384.980
Sb 206.834	193.244	ppb	2.5559	1.3	296.383
Se 196.026	194.136	ppb	3.7071	1.9	100.789
Sn 189.925	204.531	ppb	2.7002	1.3	184.220
Sr 216.596	352.620	ppb	1.9632	0.6	5405.03
Ti 334.941	199.910	ppb	1.3638	0.7	57298.3
Tl 190.794	196.568	ppb	0.8308	0.4	251.024
V 292.401	201.648	ppb	1.0514	0.5	5700.19
Zn 206.200	197.483	ppb	1.9629	1.0	311.779

640-46088-b-1-b ms (Samp) 12/18/2013, 3:17:40 PM Rack 1, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.9505	51.5554	51.3739
Al 308.215	4850.88	4855.92	4854.80
As 188.980	106.480	107.156	110.784
B 249.678	205.058	205.079	207.620
Ba 389.178	110.561	110.874	111.380
Be 313.042	49.4179	49.3989	49.4840
Ca 370.602	59040	59134	59170
Cd 226.502	49.4313	49.4408	49.3704
Co 228.615	48.6670	49.2444	49.6179
Cr 267.716	101.976	101.749	102.345
Cu 324.754	101.130	100.008	100.664
Fe 271.441	4995.72	4991.42	5008.54
K 766.491	5678.69	5695.82	5720.86
Mg 279.078	9880.55	9868.66	9892.89
Mn 257.610	524.351	524.828	525.295
Mo 202.032	102.800	101.819	102.810
Na 330.237	10001.0	9842.08	9851.52
Ni 231.604	98.1507	97.3088	98.5127
Pb 220.353	49.8198	51.8781	49.1526
Sb 206.834	48.1079	47.6384	53.4935
Se 196.026	100.725	98.4025	91.4257
Sn 189.925	202.059	204.695	206.791
Sr 216.596	238.303	237.704	238.154
Ti 334.941	99.1594	99.4181	99.4179

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Label	Replicates Concentration		
Tl 190.794	38.1980	35.3480	39.0419
V 292.401	102.549	103.133	102.784
Zn 206.200	98.7924	99.7567	100.748

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.2933	ppb	0.3104	0.6	4245.85
Al 308.215	4853.87	ppb	2.6447	0.1	34055.3
As 188.980	108.140	ppb	2.3150	2.1	76.9227
B 249.678	205.919	ppb	1.4732	0.7	2915.71
Ba 389.178	110.938	ppb	0.4129	0.4	2810.09
Be 313.042	49.4336	ppb	0.0447	0.1	101159
Ca 370.602	59115	ppb	67.12	0.1	183454
Cd 226.502	49.4141	ppb	0.0382	0.1	2551.44
Co 228.615	49.1765	ppb	0.4791	1.0	652.220
Cr 267.716	102.023	ppb	0.3008	0.3	6096.58
Cu 324.754	100.601	ppb	0.5641	0.6	6637.88
Fe 271.441	4998.56	ppb	8.9062	0.2	8670.50
K 766.491	5698.46	ppb	21.2063	0.4	246470
Mg 279.078	9880.70	ppb	12.1145	0.1	25504.1
Mn 257.610	524.824	ppb	0.4721	0.1	134332
Mo 202.032	102.476	ppb	0.5692	0.6	837.841
Na 330.237	9898.18	ppb	89.1288	0.9	436.768
Ni 231.604	97.9907	ppb	0.6177	0.6	343.923
Pb 220.353	50.2835	ppb	1.4207	2.8	108.344
Sb 206.834	49.7466	ppb	3.2534	6.5	82.1729
Se 196.026	96.8511	ppb	4.8400	5.0	54.1416
Sn 189.925	204.515	ppb	2.3710	1.2	184.205
Sr 216.596	238.054	ppb	0.3120	0.1	3663.03
Ti 334.941	99.3318	ppb	0.1493	0.2	28463.8
Tl 190.794	37.5293	ppb	1.9356	5.2	41.1999
V 292.401	102.822	ppb	0.2937	0.3	2903.57
Zn 206.200	99.7659	ppb	0.9780	1.0	160.865

640-46088-b-1-c msd (Samp) 12/18/2013, 3:22:26 PM Rack 1, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.8610	51.4710	51.9684
Al 308.215	4910.39	4904.71	4934.91
As 188.980	111.222	106.578	108.788
B 249.678	208.064	207.853	210.308
Ba 389.178	112.057	111.598	111.431
Be 313.042	50.1527	50.0898	50.1902
Ca 370.602	58562	58585	59006
Cd 226.502	50.1472	50.2537	50.5506
Co 228.615	50.2024	49.7591	50.5188
Cr 267.716	103.240	103.040	103.676
Cu 324.754	102.893	102.713	103.526
Fe 271.441	5075.56	5047.63	5082.11
K 766.491	5810.09	5771.34	5797.19
Mg 279.078	10000.2	9980.62	10010.8
Mn 257.610	529.486	529.051	532.426
Mo 202.032	102.970	103.715	105.409
Na 330.237	10259.7	10074.1	10375.1

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Label	Replicates Concentration		
Ni 231.604	96.7049	97.2486	97.8670
Pb 220.353	51.5153	51.4484	52.8085
Sb 206.834	50.8645	47.8399	52.0277
Se 196.026	97.0023	100.492	102.492
Sn 189.925	205.873	209.113	206.442
Sr 216.596	240.336	239.216	239.081
Ti 334.941	99.7822	99.5861	100.158
Tl 190.794	38.6520	41.1330	40.4945
V 292.401	104.558	104.051	104.352
Zn 206.200	97.8709	104.650	100.638

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4335	ppb	0.5547	1.1	4257.34
Al 308.215	4916.67	ppb	16.0519	0.3	34492.4
As 188.980	108.862	ppb	2.3231	2.1	77.4715
B 249.678	208.741	ppb	1.3606	0.7	2954.74
Ba 389.178	111.695	ppb	0.3241	0.3	2829.56
Be 313.042	50.1442	ppb	0.0508	0.1	102616
Ca 370.602	58718	ppb	249.9	0.4	182214
Cd 226.502	50.3172	ppb	0.2091	0.4	2597.80
Co 228.615	50.1601	ppb	0.3816	0.8	665.343
Cr 267.716	103.319	ppb	0.3252	0.3	6173.86
Cu 324.754	103.044	ppb	0.4266	0.4	6795.50
Fe 271.441	5068.43	ppb	18.3118	0.4	8791.56
K 766.491	5792.87	ppb	19.7324	0.3	250550
Mg 279.078	9997.18	ppb	15.2898	0.2	25804.4
Mn 257.610	530.321	ppb	1.8357	0.3	135738
Mo 202.032	104.031	ppb	1.2499	1.2	850.413
Na 330.237	10236.3	ppb	151.836	1.5	450.732
Ni 231.604	97.2735	ppb	0.5814	0.6	341.378
Pb 220.353	51.9241	ppb	0.7666	1.5	111.424
Sb 206.834	50.2440	ppb	2.1618	4.3	82.9271
Se 196.026	99.9957	ppb	2.7785	2.8	55.6564
Sn 189.925	207.142	ppb	1.7298	0.8	186.738
Sr 216.596	239.544	ppb	0.6885	0.3	3685.96
Ti 334.941	99.8420	ppb	0.2905	0.3	28610.4
Tl 190.794	40.0932	ppb	1.2883	3.2	44.5568
V 292.401	104.320	ppb	0.2547	0.2	2945.96
Zn 206.200	101.053	ppb	3.4088	3.4	162.849

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Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0363u	-0.0491u	-0.0901u
Al 308.215	3.5010	4.7482	3.9759
As 188.980	4.4633	-3.2143u	0.8106
B 249.678	23.8274	23.4367	23.2125
Ba 389.178	19.6257	19.4847	20.0744
Be 313.042	-0.0234u	-0.0202u	-0.0276u
Ca 370.602	66000	65990	65993
Cd 226.502	-0.0169u	0.1094	0.0180
Co 228.615	0.2413	-0.1616u	-0.2922u
Cr 267.716	0.2743	0.2122	0.2239

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Label	Replicates Concentration		
Cu 324.754	-0.1105u	-0.3179u	0.0336
Fe 271.441	106.417	109.763	106.534
K 766.491	1573.65	1575.25	1582.60
Mg 279.078	11184.3	11178.5	11198.7
Mn 257.610	38.9227	38.9170	38.8086
Mo 202.032	2.5296	1.9388	1.7185
Na 330.237	44874.6	45009.2	45248.7
Ni 231.604	0.8679	1.3637	2.2063
Pb 220.353	0.5176	-0.5063u	-0.5263u
Sb 206.834	0.1738	-2.2055u	-3.6753u
Se 196.026	-3.1130u	8.1993	-1.0678u
Sn 189.925	1.7668	3.2787	3.2338
Sr 216.596	121.072	121.372	121.713
Ti 334.941	0.0987	0.1499	0.0967
Tl 190.794	0.2978	-0.8074u	-0.2605u
V 292.401	5.3017	4.7338	4.7949
Zn 206.200	3.5469	3.3532	3.1805

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0343	ppb	0.0645	188.1	-20.2365
Al 308.215	4.0750	ppb	0.6295	15.4	296.836
As 188.980	0.6865	ppb	3.8403	559.4	-4.7152
B 249.678	23.4922	ppb	0.3112	1.3	392.284
Ba 389.178	19.7283	ppb	0.3079	1.6	501.577
Be 313.042	-0.0237	ppb	0.0037	15.5	-266.247
Ca 370.602	65995	ppb	5.213	0.0	205176
Cd 226.502	0.0369	ppb	0.0652	176.9	14.4595
Co 228.615	-0.0708	ppb	0.2781	392.6	-4.6298
Cr 267.716	0.2368	ppb	0.0330	13.9	25.5890
Cu 324.754	-0.1316	ppb	0.1767	134.3	138.357
Fe 271.441	107.572	ppb	1.8991	1.8	198.816
K 766.491	1577.16	ppb	4.7752	0.3	68396.2
Mg 279.078	11187.2	ppb	10.4104	0.1	28886.2
Mn 257.610	38.8828	ppb	0.0643	0.2	10101.6
Mo 202.032	2.0623	ppb	0.4194	20.3	25.7424
Na 330.237	45044.1	ppb	189.502	0.4	1895.68
Ni 231.604	1.4793	ppb	0.6766	45.7	1.5874
Pb 220.353	-0.1717	ppb	0.5970	347.8	13.5253
Sb 206.834	-1.9023	ppb	1.9424	102.1	4.6316
Se 196.026	1.3395	ppb	6.0281	450.0	8.0363
Sn 189.925	2.7597	ppb	0.8602	31.2	-10.2527
Sr 216.596	121.386	ppb	0.3209	0.3	1875.99
Ti 334.941	0.1151	ppb	0.0301	26.2	9.8520
Tl 190.794	-0.2567	ppb	0.5526	215.3	-7.7313
V 292.401	4.9435	ppb	0.3117	6.3	130.980
Zn 206.200	3.3602	ppb	0.1833	5.5	12.1620

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Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0501u	0.1197u	0.1560
Al 308.215	40.0026	40.5432	39.4664
As 188.980	0.5085	-0.4386u	3.3521

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Label	Replicates Concentration		
B 249.678	40.8624	41.4597	40.8136
Ba 389.178	20.6707	21.3232	21.2617
Be 313.042	-0.0108u	-0.0151u	-0.0139u
Ca 370.602	25227	25062	25098
Cd 226.502	0.1415	0.1544	0.0643
Co 228.615	0.3579	0.3113	0.2541
Cr 267.716	0.8456	0.8844	0.9259
Cu 324.754	46.3904	46.9480	46.6341
Fe 271.441	103.533	102.147	105.308
K 766.491	28121.2	28170.0	28125.8
Mg 279.078	8297.73	8248.18	8268.27
Mn 257.610	20.1417	19.9326	20.0087
Mo 202.032	3.6534	3.4704	3.4068
Na 330.237	51673.2	51674.5	51435.5
Ni 231.604	5.0577	5.4535	5.1724
Pb 220.353	0.3506	1.1760	2.7384
Sb 206.834	2.1345	-4.8404u	-1.9195u
Se 196.026	3.9408	-2.1524u	2.0473
Sn 189.925	0.3536	0.7427	3.1016
Sr 216.596	209.293	207.880	207.517
Ti 334.941	1.5464	1.5842	1.6402
Tl 190.794	-1.8294u	-0.4769u	-2.0875u
V 292.401	0.1198	0.1220	0.2091
Zn 206.200	54.9830	55.4498	54.8034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0752	ppb	0.1100	146.2	-15.4233
Al 308.215	40.0040	ppb	0.5384	1.3	547.658
As 188.980	1.1406	ppb	1.9728	173.0	-4.3700
B 249.678	41.0453	ppb	0.3598	0.9	636.059
Ba 389.178	21.0852	ppb	0.3603	1.7	527.668
Be 313.042	-0.0133	ppb	0.0022	16.6	-265.080
Ca 370.602	25129	ppb	86.49	0.3	78128
Cd 226.502	0.1201	ppb	0.0488	40.6	18.6071
Co 228.615	0.3078	ppb	0.0519	16.9	0.4397
Cr 267.716	0.8853	ppb	0.0401	4.5	64.3437
Cu 324.754	46.6575	ppb	0.2796	0.6	3155.49
Fe 271.441	103.663	ppb	1.5844	1.5	192.046
K 766.491	28139.0	ppb	26.9654	0.1	1216089
Mg 279.078	8271.39	ppb	24.9230	0.3	21363.6
Mn 257.610	20.0276	ppb	0.1058	0.5	5254.97
Mo 202.032	3.5102	ppb	0.1280	3.6	37.4694
Na 330.237	51594.4	ppb	137.593	0.3	2166.32
Ni 231.604	5.2279	ppb	0.2037	3.9	14.8830
Pb 220.353	1.4216	ppb	1.2127	85.3	16.5053
Sb 206.834	-1.5418	ppb	3.5028	227.2	5.1491
Se 196.026	1.2786	ppb	3.1185	243.9	8.0024
Sn 189.925	1.3993	ppb	1.4870	106.3	-11.5821
Sr 216.596	208.230	ppb	0.9380	0.5	3197.78
Ti 334.941	1.5902	ppb	0.0472	3.0	419.203
Tl 190.794	-1.4646	ppb	0.8650	59.1	-9.3095
V 292.401	0.1503	ppb	0.0510	33.9	-6.0674
Zn 206.200	55.0787	ppb	0.3337	0.6	92.0682

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Cont Calib Verif (CCV) 12/18/2013, 3:36:45 PM Rack 1, Tube 13**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	504.025	501.856	495.176
Al 308.215	4836.55	4792.77	4773.29
As 188.980	508.173	500.761	506.279
B 249.678	482.484	479.956	478.192
Ba 389.178	4999.58	4953.91	4929.09
Be 313.042	491.670	486.383	484.175
Ca 370.602	4796	4746	4725
Cd 226.502	496.633	492.039	489.591
Co 228.615	499.021	492.962	491.333
Cr 267.716	5005.37	4959.03	4934.62
Cu 324.754	5032.23	4994.99	4943.75
Fe 271.441	4977.34	4916.15	4910.01
K 766.491	10096.1	9971.40	9929.88
Mg 279.078	5018.99	4959.88	4932.04
Mn 257.610	4936.13	4901.24	4891.55
Mo 202.032	510.667	509.326	504.276
Na 330.237	7206.48	7192.87	7042.19
Ni 231.604	2421.16	2406.29	2394.06
Pb 220.353	497.373	494.818	487.740
Sb 206.834	983.823	974.212	963.250
Se 196.026	4958.63	4900.68	4914.48
Sn 189.925	5044.91	5024.55	4991.80
Sr 216.596	2485.57	2463.21	2451.48
Ti 334.941	485.770	481.381	478.996
Tl 190.794	5010.30	4962.85	4935.92
V 292.401	4983.71	4932.60	4911.04
Zn 206.200	2462.13	2451.22	2430.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.352	ppb	4.6122	0.9	41553.0	100.07049
Al 308.215	4800.87	ppb	32.3964	0.7	33107.4	96.01745
As 188.980	505.071	ppb	3.8510	0.8	378.480	101.01414
B 249.678	480.211	ppb	2.1574	0.4	6724.02	96.04214
Ba 389.178	4960.86	ppb	35.7560	0.7	125286	99.21721
Be 313.042	487.409	ppb	3.8513	0.8	1001183	97.48186
Ca 370.602	4756	ppb	36.75	0.8	14840	95.11807
Cd 226.502	492.755	ppb	3.5751	0.7	25131.7	98.55091
Co 228.615	494.439	ppb	4.0511	0.8	6604.35	98.88781
Cr 267.716	4966.34	ppb	35.9358	0.7	296096	99.32676
Cu 324.754	4990.32	ppb	44.4241	0.9	321885	99.80647
Fe 271.441	4934.50	ppb	37.2305	0.8	8670.36	98.68996
K 766.491	9999.14	ppb	86.5174	0.9	432295	99.99136
Mg 279.078	4970.30	ppb	44.4051	0.9	12748.3	99.40607
Mn 257.610	4909.64	ppb	23.4469	0.5	1255229	98.19284
Mo 202.032	508.089	ppb	3.3702	0.7	4109.97	101.61789
Na 330.237	7147.18	ppb	91.1802	1.3	288.063	95.29571
Ni 231.604	2407.17	ppb	13.5749	0.6	8533.54	96.28677
Pb 220.353	493.310	ppb	4.9906	1.0	939.408	98.66203
Sb 206.834	973.761	ppb	10.2940	1.1	1550.92	97.37614
Se 196.026	4924.60	ppb	30.2703	0.6	2375.98	98.49195
Sn 189.925	5020.42	ppb	26.7938	0.5	4826.29	100.40839
Sr 216.596	2466.76	ppb	17.3189	0.7	37658.3	98.67021

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	482.049	ppb	3.4359	0.7	138208	96.40981
Tl 190.794	4969.69	ppb	37.6563	0.8	6522.42	99.39382
V 292.401	4942.45	ppb	37.3241	0.8	140620	98.84901
Zn 206.200	2447.86	ppb	16.2029	0.7	3782.26	97.91453

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12/18/2013, 3:41:28 PM

Rack 1, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0042	0.4562	0.0607
Al 308.215	0.3757	0.9986	0.9188
As 188.980	2.7545	0.9263	0.4897
B 249.678	3.3139	2.2432	2.0123
Ba 389.178	0.1921	-0.7031u	-0.1276u
Be 313.042	-0.0084u	-0.0019u	-0.0066u
Ca 370.602	2.796	3.275	2.827
Cd 226.502	0.0613	-0.0186u	-0.0610u
Co 228.615	0.3293	0.0717	0.1845
Cr 267.716	0.1872	0.0056	0.1615
Cu 324.754	-0.1712u	-0.3151u	-0.5567u
Fe 271.441	-0.6726u	1.2364	10.1156
K 766.491	1.3869	1.0275	0.6920
Mg 279.078	0.0908	2.7873	-0.1489u
Mn 257.610	-0.0538u	-0.0618u	-0.0841u
Mo 202.032	0.0853	0.6961	0.3549
Na 330.237	159.242	51.0637	156.956
Ni 231.604	-0.0226u	0.2562	0.1788
Pb 220.353	-0.0306u	2.2295	3.2779
Sb 206.834	0.2677	-0.8068u	-5.6547u
Se 196.026	1.4550	-7.1087u	-1.2903u
Sn 189.925	0.3525	0.6689	2.1033
Sr 216.596	-0.1031u	-0.0994u	0.0210
Ti 334.941	0.2137	0.2265	0.1960
Tl 190.794	0.4285	1.2838	-0.2110u
V 292.401	0.2193	0.0212	0.5853
Zn 206.200	-0.0062u	-0.9907u	-0.8740u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1737	ppb	0.2463	141.8	3.4255	0.17370
Al 308.215	0.7644	ppb	0.3389	44.3	274.259	0.76435
As 188.980	1.3902	ppb	1.2015	86.4	-4.1786	1.39016
B 249.678	2.5231	ppb	0.6945	27.5	101.340	2.52310
Ba 389.178	-0.2129	ppb	0.4536	213.1	-33.7955	-0.21287
Be 313.042	-0.0056	ppb	0.0034	60.2	-250.803	-0.00564
Ca 370.602	2.966	ppb	0.2682	9.0	19.82	2.96608
Cd 226.502	-0.0061	ppb	0.0621	1015.8	11.9238	-0.00611
Co 228.615	0.1952	ppb	0.1291	66.2	-1.0296	0.19516
Cr 267.716	0.1181	ppb	0.0983	83.2	17.4358	0.11813
Cu 324.754	-0.3477	ppb	0.1948	56.0	124.384	-0.34768
Fe 271.441	3.5598	ppb	5.7571	161.7	18.7773	3.55981
K 766.491	1.0354	ppb	0.3475	33.6	294.255	1.03545
Mg 279.078	0.9097	ppb	1.6304	179.2	25.5800	0.90972
Mn 257.610	-0.0666	ppb	0.0157	23.6	43.5232	-0.06655
Mo 202.032	0.3788	ppb	0.3061	80.8	12.1345	0.37877

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	122.421	ppb	61.8074	50.5	34.5846	122.42057
Ni 231.604	0.1374	ppb	0.1439	104.7	-3.1760	0.13745
Pb 220.353	1.8256	ppb	1.6908	92.6	17.2562	1.82559
Sb 206.834	-2.0646	ppb	3.1552	152.8	4.4266	-2.06459
Se 196.026	-2.3147	ppb	4.3728	188.9	6.2685	-2.31469
Sn 189.925	1.0416	ppb	0.9330	89.6	-11.9583	1.04158
Sr 216.596	-0.0605	ppb	0.0706	116.8	8.9818	-0.06046
Ti 334.941	0.2121	ppb	0.0153	7.2	-10.4146	0.21208
Tl 190.794	0.5004	ppb	0.7500	149.9	-6.7022	0.50044
V 292.401	0.2753	ppb	0.2862	104.0	-1.6920	0.27528
Zn 206.200	-0.6236	ppb	0.5379	86.3	6.0094	-0.62361

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12/18/2013, 3:46:12 PM

Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3822	-0.1431u	-0.1502u
Al 308.215	7.9692	9.6202	9.8635
As 188.980	3.7721	-2.4281u	-0.5581u
B 249.678	1.2219	1.6010	0.7071
Ba 389.178	-0.4410u	-1.0118u	-0.8827u
Be 313.042	-0.0051u	-0.0012u	-0.0117u
Ca 370.602	41.98	39.02	40.16
Cd 226.502	0.1632	-0.0520u	-0.0317u
Co 228.615	-0.0924u	-0.0375u	0.0744
Cr 267.716	0.5749	0.6390	0.6937
Cu 324.754	0.2350	-0.0083u	0.1035
Fe 271.441	22.8029	30.2080	32.4225
K 766.491	15.0665	15.5410	15.6860
Mg 279.078	24.7435	25.2900	26.8182
Mn 257.610	0.7732	0.7799	0.8348
Mo 202.032	0.2839	0.2621	0.1721
Na 330.237	282.944	93.9023	360.040
Ni 231.604	0.3595	-0.5351u	0.4523
Pb 220.353	0.5339	1.9025	2.5992
Sb 206.834	-1.0340u	-0.4766u	-0.9588u
Se 196.026	5.2900	-2.8861u	0.2158
Sn 189.925	15.2438	19.2976	16.4650
Sr 216.596	0.4184	-0.1473u	0.1426
Ti 334.941	0.4950	0.5300	0.4594
Tl 190.794	1.3109	-0.3420u	-0.2611u
V 292.401	0.5392	0.0081	0.1464
Zn 206.200	1.7820	2.4522	2.0802

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0297	ppb	0.3053	1029.7	-8.5699
Al 308.215	9.1509	ppb	1.0306	11.3	332.643
As 188.980	0.2620	ppb	3.1804	1214.1	-5.0362
B 249.678	1.1766	ppb	0.4486	38.1	82.5926
Ba 389.178	-0.7785	ppb	0.2994	38.5	-47.9668
Be 313.042	-0.0060	ppb	0.0053	87.9	-251.514
Ca 370.602	40.39	ppb	1.491	3.7	134.1
Cd 226.502	0.0265	ppb	0.1188	447.9	13.7099
Co 228.615	-0.0185	ppb	0.0850	459.7	-3.8765

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.6359	ppb	0.0595	9.4	48.3223
Cu 324.754	0.1101	ppb	0.1218	110.7	153.905
Fe 271.441	28.4778	ppb	5.0378	17.7	61.8808
K 766.491	15.4312	ppb	0.3240	2.1	916.271
Mg 279.078	25.6172	ppb	1.0754	4.2	89.3072
Mn 257.610	0.7960	ppb	0.0338	4.2	264.321
Mo 202.032	0.2394	ppb	0.0593	24.8	11.0048
Na 330.237	245.629	ppb	136.937	55.7	39.6372
Ni 231.604	0.0922	ppb	0.5453	591.2	-3.3350
Pb 220.353	1.6786	ppb	1.0507	62.6	16.9828
Sb 206.834	-0.8231	ppb	0.3024	36.7	6.3065
Se 196.026	0.8732	ppb	4.1275	472.7	7.8016
Sn 189.925	17.0021	ppb	2.0796	12.2	3.4263
Sr 216.596	0.1379	ppb	0.2829	205.1	12.0754
Ti 334.941	0.4948	ppb	0.0353	7.1	70.7887
Tl 190.794	0.2359	ppb	0.9318	395.0	-7.0537
V 292.401	0.2312	ppb	0.2756	119.2	-2.9283
Zn 206.200	2.1048	ppb	0.3358	16.0	10.2236

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Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	51.7839	51.3443	51.5506
Al 308.215	4730.84	4759.76	4753.88
As 188.980	103.603	107.900	100.509
B 249.678	186.463	189.063	189.186
Ba 389.178	99.2663	100.153	99.7085
Be 313.042	49.6474	50.0952	49.9527
Ca 370.602	4970	5009	5001
Cd 226.502	49.0553	49.4348	49.2785
Co 228.615	49.1571	49.6091	50.1710
Cr 267.716	102.329	102.936	102.379
Cu 324.754	100.811	102.026	101.592
Fe 271.441	4987.56	5026.44	5013.43
K 766.491	4832.08	4858.56	4866.84
Mg 279.078	4907.15	4921.84	4922.57
Mn 257.610	510.083	513.509	511.832
Mo 202.032	101.236	103.321	102.579
Na 330.237	5124.62	5408.37	5529.18
Ni 231.604	97.9850	98.0577	97.8583
Pb 220.353	49.8502	52.3761	48.8142
Sb 206.834	46.1101	44.9436	45.3890
Se 196.026	100.745	100.949	94.8297
Sn 189.925	214.113	212.171	215.173
Sr 216.596	99.0442	100.345	99.8393
Ti 334.941	99.7353	100.574	100.328
Tl 190.794	39.1003	40.2099	38.5066
V 292.401	100.808	101.328	101.524
Zn 206.200	100.037	98.8661	99.2219

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5596	ppb	0.2199	0.4	4275.08
Al 308.215	4748.16	ppb	15.2858	0.3	33319.5

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	104.004	ppb	3.7118	3.6	73.7776
B 249.678	188.238	ppb	1.5378	0.8	2670.18
Ba 389.178	99.7093	ppb	0.4434	0.4	2512.42
Be 313.042	49.8984	ppb	0.2288	0.5	102091
Ca 370.602	4993	ppb	20.16	0.4	15193
Cd 226.502	49.2562	ppb	0.1907	0.4	2543.44
Co 228.615	49.6457	ppb	0.5079	1.0	658.516
Cr 267.716	102.548	ppb	0.3370	0.3	6127.73
Cu 324.754	101.477	ppb	0.6157	0.6	6694.38
Fe 271.441	5009.14	ppb	19.7905	0.4	8688.86
K 766.491	4852.49	ppb	18.1552	0.4	209918
Mg 279.078	4917.19	ppb	8.6992	0.2	12698.1
Mn 257.610	511.808	ppb	1.7133	0.3	130959
Mo 202.032	102.379	ppb	1.0568	1.0	837.052
Na 330.237	5354.06	ppb	207.676	3.9	248.493
Ni 231.604	97.9670	ppb	0.1009	0.1	343.837
Pb 220.353	50.3468	ppb	1.8322	3.6	108.462
Sb 206.834	45.4809	ppb	0.5887	1.3	75.8107
Se 196.026	98.8414	ppb	3.4757	3.5	55.0960
Sn 189.925	213.819	ppb	1.5222	0.7	193.145
Sr 216.596	99.7427	ppb	0.6555	0.7	1540.15
Ti 334.941	100.212	ppb	0.4311	0.4	28693.7
Tl 190.794	39.2723	ppb	0.8645	2.2	43.4944
V 292.401	101.220	ppb	0.3703	0.4	2857.85
Zn 206.200	99.3751	ppb	0.6005	0.6	160.259

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Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1351u	0.1092	0.1688
Al 308.215	6.7521	8.2225	9.1461
As 188.980	-1.3316u	-1.7337u	-0.9347u
B 249.678	9.2909	7.8729	7.9020
Ba 389.178	-0.3688u	-0.5738u	-0.9153u
Be 313.042	-0.0088u	-0.0054u	-0.0041u
Ca 370.602	213.8	209.2	213.2
Cd 226.502	-0.0675u	0.0500	-0.0119u
Co 228.615	0.0215	-0.0441u	-0.0873u
Cr 267.716	0.4460	0.4253	0.3343
Cu 324.754	-0.1907u	0.3310	0.0504
Fe 271.441	4.5307	3.5715	6.5284
K 766.491	34.4565	34.3790	35.2516
Mg 279.078	19.4721	24.0508	23.1536
Mn 257.610	1.2904	1.3047	1.3111
Mo 202.032	0.1739	0.2712	0.1268
Na 330.237	27890.5	27357.6	27365.1
Ni 231.604	-0.1789u	0.6046	0.9122
Pb 220.353	0.8843	2.4013	1.8167
Sb 206.834	-1.9185u	-3.4135u	3.1521
Se 196.026	-0.6735u	7.2131	-2.7570u
Sn 189.925	17.0735	18.1913	17.3739
Sr 216.596	0.4651	0.3108	-0.1597u
Ti 334.941	0.3242	0.3183	0.2627

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	-2.0669u	-1.9766u	-1.7689u
V 292.401	0.0649	0.2505	0.1757
Zn 206.200	1.4526	0.2136	0.1307

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0476	ppb	0.1611	338.0	-7.0839
Al 308.215	8.0402	ppb	1.2073	15.0	324.922
As 188.980	-1.3333	ppb	0.3995	30.0	-6.2485
B 249.678	8.3553	ppb	0.8104	9.7	182.310
Ba 389.178	-0.6193	ppb	0.2761	44.6	-43.9946
Be 313.042	-0.0061	ppb	0.0025	40.2	-254.838
Ca 370.602	212.1	ppb	2.505	1.2	669.7
Cd 226.502	-0.0098	ppb	0.0588	598.8	11.5618
Co 228.615	-0.0366	ppb	0.0548	149.6	-4.1267
Cr 267.716	0.4018	ppb	0.0594	14.8	34.9070
Cu 324.754	0.0636	ppb	0.2611	410.8	150.900
Fe 271.441	4.8769	ppb	1.5085	30.9	21.0330
K 766.491	34.6957	ppb	0.4830	1.4	1748.66
Mg 279.078	22.2255	ppb	2.4264	10.9	80.5463
Mn 257.610	1.3021	ppb	0.0106	0.8	393.466
Mo 202.032	0.1906	ppb	0.0736	38.6	10.6121
Na 330.237	27537.7	ppb	305.564	1.1	1170.42
Ni 231.604	0.4460	ppb	0.5626	126.1	-2.0809
Pb 220.353	1.7008	ppb	0.7651	45.0	17.0228
Sb 206.834	-0.7266	ppb	3.4412	473.6	6.4449
Se 196.026	1.2609	ppb	5.2590	417.1	7.9877
Sn 189.925	17.5462	ppb	0.5785	3.3	3.9610
Sr 216.596	0.2054	ppb	0.3254	158.5	13.0681
Ti 334.941	0.3017	ppb	0.0339	11.2	13.4355
Tl 190.794	-1.9374	ppb	0.1528	7.9	-9.9068
V 292.401	0.1637	ppb	0.0933	57.0	-5.0662
Zn 206.200	0.5990	ppb	0.7405	123.6	7.8978

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Rack 1, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3808	0.6678	0.1089
Al 308.215	26.8362	27.7069	27.5888
As 188.980	3.3165	4.3378	4.2011
B 249.678	1.4042	1.3384	1.5079
Ba 389.178	-0.7076u	-0.8450u	-1.1364u
Be 313.042	-0.0045u	-0.0103u	-0.0062u
Ca 370.602	74.00	74.99	77.01
Cd 226.502	0.3038	0.4165	0.3307
Co 228.615	2.2281	2.1664	2.1877
Cr 267.716	4.0482	4.2455	4.2281
Cu 324.754	0.4829	0.5294	1.0515
Fe 271.441	30.4984	35.0237	27.4568
K 766.491	15.6222	15.9692	15.5400
Mg 279.078	5.7206	7.3107	6.6366
Mn 257.610	0.0339	0.0360	0.0019
Mo 202.032	-0.5358u	-0.6254u	-0.8223u
Na 330.237	146.381	79.3656	43.0983

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Ni 231.604	1.0748	-0.0168u	0.5728
Pb 220.353	-0.0571u	0.2809	-1.5527u
Sb 206.834	-3.4439u	-2.1714u	2.3121
Se 196.026	3.2462	1.3540	3.8904
Sn 189.925	36.4476	39.3910	37.8251
Sr 216.596	0.1436	0.0075	-0.0535u
Ti 334.941	2.4801	2.4725	2.4651
Tl 190.794	0.7979	-3.4970u	-3.7550u
V 292.401	0.1619	-0.3247u	0.1212
Zn 206.200	4.0644	3.2259	4.2096

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3858	ppb	0.2795	72.4	21.0503
Al 308.215	27.3773	ppb	0.4723	1.7	459.504
As 188.980	3.9518	ppb	0.5544	14.0	-2.2313
B 249.678	1.4168	ppb	0.0855	6.0	85.9233
Ba 389.178	-0.8963	ppb	0.2190	24.4	-50.9978
Be 313.042	-0.0070	ppb	0.0030	43.0	-253.496
Ca 370.602	75.34	ppb	1.533	2.0	243.7
Cd 226.502	0.3504	ppb	0.0589	16.8	30.2123
Co 228.615	2.1941	ppb	0.0313	1.4	25.7189
Cr 267.716	4.1739	ppb	0.1093	2.6	259.279
Cu 324.754	0.6879	ppb	0.3157	45.9	191.140
Fe 271.441	30.9930	ppb	3.8076	12.3	66.4766
K 766.491	15.7105	ppb	0.2278	1.4	928.338
Mg 279.078	6.5560	ppb	0.7981	12.2	40.1367
Mn 257.610	0.0239	ppb	0.0191	79.9	66.7969
Mo 202.032	-0.6612	ppb	0.1465	22.2	3.7181
Na 330.237	89.6151	ppb	52.3989	58.5	33.1454
Ni 231.604	0.5436	ppb	0.5464	100.5	-1.7402
Pb 220.353	-0.4429	ppb	0.9758	220.3	13.0023
Sb 206.834	-1.1011	ppb	3.0236	274.6	5.9816
Se 196.026	2.8302	ppb	1.3184	46.6	8.7422
Sn 189.925	37.8879	ppb	1.4727	3.9	23.5583
Sr 216.596	0.0325	ppb	0.1009	310.3	10.4634
Ti 334.941	2.4726	ppb	0.0075	0.3	637.947
Tl 190.794	-2.1514	ppb	2.5574	118.9	-10.1843
V 292.401	-0.0138	ppb	0.2699	1950.5	-9.9199
Zn 206.200	3.8333	ppb	0.5310	13.9	12.8893

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Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1219u	0.0307	0.3237
Al 308.215	5.9253	3.4969	4.0264
As 188.980	2.3336	0.7248	5.3027
B 249.678	0.1164	0.7871	1.1416
Ba 389.178	0.3727	-0.6711u	-0.5148u
Be 313.042	-0.0066u	-0.0102u	-0.0103u
Ca 370.602	16.11	14.60	15.71
Cd 226.502	0.1074	0.1142	0.1597
Co 228.615	0.5510	-0.1178u	0.9001
Cr 267.716	1.1740	1.0162	1.0045

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-0.1695u	0.0617	-0.3353u
Fe 271.441	8.0274	7.6475	8.5968
K 766.491	3.5703	3.6405	3.5458
Mg 279.078	1.2115	1.2581	0.4034
Mn 257.610	-0.0760u	-0.0480u	-0.0418u
Mo 202.032	-0.5024u	-0.2368u	-0.1979u
Na 330.237	96.1753	56.9907	70.6906
Ni 231.604	1.4242	0.3489	0.7416
Pb 220.353	-0.9499u	1.6811	1.2438
Sb 206.834	-3.1419u	0.7276	-3.9525u
Se 196.026	-1.0863u	1.9192	-6.7373u
Sn 189.925	8.0956	8.6168	8.5663
Sr 216.596	-0.1701u	-0.5438u	-0.3331u
Ti 334.941	0.5400	0.5666	0.5172
Tl 190.794	-2.6967u	-3.6876u	-2.1294u
V 292.401	0.2367	0.2922	-0.1227u
Zn 206.200	0.0573	0.0975	-1.3647u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0775	ppb	0.2264	292.1	-4.5757
Al 308.215	4.4829	ppb	1.2769	28.5	300.125
As 188.980	2.7870	ppb	2.3224	83.3	-3.1167
B 249.678	0.6817	ppb	0.5207	76.4	75.7613
Ba 389.178	-0.2711	ppb	0.5630	207.7	-35.2576
Be 313.042	-0.0090	ppb	0.0021	23.5	-257.690
Ca 370.602	15.47	ppb	0.7819	5.1	58.36
Cd 226.502	0.1271	ppb	0.0284	22.4	18.7390
Co 228.615	0.4444	ppb	0.5173	116.4	2.3223
Cr 267.716	1.0649	ppb	0.0947	8.9	73.8884
Cu 324.754	-0.1477	ppb	0.1994	135.0	137.261
Fe 271.441	8.0906	ppb	0.4778	5.9	26.6458
K 766.491	3.5855	ppb	0.0492	1.4	404.440
Mg 279.078	0.9577	ppb	0.4806	50.2	25.7026
Mn 257.610	-0.0553	ppb	0.0182	32.9	46.4234
Mo 202.032	-0.3124	ppb	0.1657	53.1	6.5416
Na 330.237	74.6189	ppb	19.8855	26.6	32.5896
Ni 231.604	0.8382	ppb	0.5441	64.9	-0.6908
Pb 220.353	0.6584	ppb	1.4098	214.1	15.0679
Sb 206.834	-2.1223	ppb	2.5011	117.9	4.3757
Se 196.026	-1.9682	ppb	4.3951	223.3	6.4352
Sn 189.925	8.4262	ppb	0.2875	3.4	-4.8402
Sr 216.596	-0.3490	ppb	0.1874	53.7	4.5806
Ti 334.941	0.5412	ppb	0.0247	4.6	83.9995
Tl 190.794	-2.8379	ppb	0.7886	27.8	-11.0879
V 292.401	0.1354	ppb	0.2252	166.3	-5.6140
Zn 206.200	-0.4033	ppb	0.8328	206.5	6.3483

680-96944-a-20-aPDS (Samp) 12/18/2013, 4:09:56 PM Rack 1, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	44.1771	43.3811	44.5799
Al 308.215	1901.97	1899.01	1895.09
As 188.980	206.808	197.684	202.339

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Label	Replicates Concentration		
B 249.678	478.480	477.962	480.576
Ba 389.178	198.598	198.531	198.822
Be 313.042	50.7274	50.5335	50.5604
Ca 370.602	1896	1887	1885
Cd 226.502	49.5744	49.3287	49.3198
Co 228.615	200.567	199.024	196.159
Cr 267.716	205.442	204.592	205.200
Cu 324.754	203.947	202.900	206.021
Fe 271.441	2027.73	2017.24	2007.50
K 766.491	1915.35	1911.35	1910.14
Mg 279.078	2001.43	1986.69	1983.73
Mn 257.610	203.458	202.688	202.732
Mo 202.032	205.584	205.434	204.768
Na 330.237	2079.49	2010.49	2048.67
Ni 231.604	193.587	193.151	190.728
Pb 220.353	196.658	191.214	191.059
Sb 206.834	191.580	190.563	191.476
Se 196.026	208.417	213.164	213.591
Sn 189.925	241.119	241.729	238.829
Sr 216.596	202.133	201.385	200.661
Ti 334.941	202.751	202.135	202.422
Tl 190.794	194.416	191.879	196.466
V 292.401	202.239	201.702	201.587
Zn 206.200	195.285	198.310	195.228

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	44.0460	ppb	0.6101	1.4	3645.18
Al 308.215	1898.69	ppb	3.4522	0.2	13473.9
As 188.980	202.277	ppb	4.5626	2.3	148.438
B 249.678	479.006	ppb	1.3840	0.3	6713.04
Ba 389.178	198.650	ppb	0.1525	0.1	4998.66
Be 313.042	50.6071	ppb	0.1050	0.2	103571
Ca 370.602	1890	ppb	5.780	0.3	5841
Cd 226.502	49.4077	ppb	0.1445	0.3	2537.78
Co 228.615	198.584	ppb	2.2367	1.1	2645.27
Cr 267.716	205.078	ppb	0.4379	0.2	12237.6
Cu 324.754	204.289	ppb	1.5880	0.8	13325.1
Fe 271.441	2017.49	ppb	10.1172	0.5	3528.61
K 766.491	1912.28	ppb	2.7281	0.1	82875.9
Mg 279.078	1990.62	ppb	9.4827	0.5	5154.46
Mn 257.610	202.959	ppb	0.4325	0.2	51969.3
Mo 202.032	205.262	ppb	0.4339	0.2	1669.57
Na 330.237	2046.22	ppb	34.5672	1.7	110.393
Ni 231.604	192.489	ppb	1.5404	0.8	678.608
Pb 220.353	192.977	ppb	3.1891	1.7	375.469
Sb 206.834	191.206	ppb	0.5595	0.3	293.412
Se 196.026	211.724	ppb	2.8717	1.4	109.240
Sn 189.925	240.559	ppb	1.5291	0.6	218.917
Sr 216.596	201.393	ppb	0.7363	0.4	3083.92
Ti 334.941	202.436	ppb	0.3087	0.2	57998.7
Tl 190.794	194.254	ppb	2.2979	1.2	247.994
V 292.401	201.843	ppb	0.3483	0.2	5704.93
Zn 206.200	196.274	ppb	1.7631	0.9	309.902

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680-96944-a-20-b ms (Samp) **12/18/2013, 4:14:41 PM** **Rack 1, Tube 21****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	100.345	100.195	100.369
Al 308.215	9386.85	9331.39	9368.26
As 188.980	204.862	202.610	199.998
B 249.678	360.142	356.899	361.725
Ba 389.178	196.227	195.035	196.909
Be 313.042	100.423	99.9525	100.399
Ca 370.602	9700	9671	9724
Cd 226.502	97.6876	96.8355	97.5526
Co 228.615	100.258	98.6629	99.5334
Cr 267.716	207.092	206.308	206.969
Cu 324.754	203.743	201.682	203.289
Fe 271.441	9685.54	9644.96	9685.69
K 766.491	9360.17	9303.06	9343.97
Mg 279.078	9653.06	9587.38	9624.53
Mn 257.610	1004.00	998.132	1002.19
Mo 202.032	199.971	198.277	200.519
Na 330.237	10503.1	10403.7	10510.9
Ni 231.604	191.201	189.851	190.092
Pb 220.353	95.1349	98.1245	96.9991
Sb 206.834	84.7324	86.4961	88.5340
Se 196.026	208.670	201.339	202.111
Sn 189.925	427.602	430.036	431.624
Sr 216.596	194.900	193.918	195.128
Ti 334.941	197.534	196.416	197.808
Tl 190.794	76.6501	73.4216	70.8232
V 292.401	198.098	197.930	198.606
Zn 206.200	193.443	195.413	197.325

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	100.303	ppb	0.0943	0.1	8327.09
Al 308.215	9362.17	ppb	28.2276	0.3	65436.3
As 188.980	202.490	ppb	2.4345	1.2	148.601
B 249.678	359.588	ppb	2.4600	0.7	5040.24
Ba 389.178	196.057	ppb	0.9487	0.5	4967.10
Be 313.042	100.258	ppb	0.2649	0.3	205366
Ca 370.602	9699	ppb	26.70	0.3	29506
Cd 226.502	97.3585	ppb	0.4580	0.5	5014.34
Co 228.615	99.4848	ppb	0.7986	0.8	1323.36
Cr 267.716	206.790	ppb	0.4216	0.2	12345.9
Cu 324.754	202.904	ppb	1.0830	0.5	13238.6
Fe 271.441	9672.06	ppb	23.4716	0.2	16765.9
K 766.491	9335.74	ppb	29.4303	0.3	403631
Mg 279.078	9621.66	ppb	32.9338	0.3	24824.6
Mn 257.610	1001.44	ppb	3.0037	0.3	256186
Mo 202.032	199.589	ppb	1.1688	0.6	1623.24
Na 330.237	10472.6	ppb	59.8146	0.6	457.855
Ni 231.604	190.381	ppb	0.7200	0.4	671.632
Pb 220.353	96.7529	ppb	1.5099	1.6	195.678
Sb 206.834	86.5875	ppb	1.9024	2.2	137.710
Se 196.026	204.040	ppb	4.0283	2.0	105.857
Sn 189.925	429.754	ppb	2.0261	0.5	401.291
Sr 216.596	194.649	ppb	0.6431	0.3	2996.00

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	197.253	ppb	0.7375	0.4	56547.8
Tl 190.794	73.6316	ppb	2.9192	4.0	87.9447
V 292.401	198.211	ppb	0.3517	0.2	5605.13
Zn 206.200	195.394	ppb	1.9411	1.0	308.363

680-96944-a-20-c msd (Samp) 12/18/2013, 4:19:28 PM Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	106.322	105.322	105.581
Al 308.215	9852.70	9797.64	9846.92
As 188.980	224.207	211.620	213.996
B 249.678	381.671	381.270	384.835
Ba 389.178	207.179	205.177	206.762
Be 313.042	106.568	105.906	106.497
Ca 370.602	10212	10156	10252
Cd 226.502	102.478	101.950	102.254
Co 228.615	104.860	103.621	104.938
Cr 267.716	217.128	215.660	217.340
Cu 324.754	213.440	210.912	212.364
Fe 271.441	10230.2	10182.9	10230.8
K 766.491	9763.42	9700.24	9797.94
Mg 279.078	10092.8	10037.1	10082.8
Mn 257.610	1054.77	1049.67	1056.75
Mo 202.032	211.005	210.562	212.790
Na 330.237	10689.1	10573.2	10794.2
Ni 231.604	200.347	200.559	199.848
Pb 220.353	99.4913	102.522	101.001
Sb 206.834	94.6841	93.1084	94.0028
Se 196.026	222.787	214.368	222.303
Sn 189.925	451.628	456.883	449.855
Sr 216.596	204.150	203.387	204.771
Ti 334.941	208.492	207.084	208.398
Tl 190.794	79.1958	78.0538	79.7814
V 292.401	210.590	208.652	210.583
Zn 206.200	202.756	203.808	203.331

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.741	ppb	0.5191	0.5	8779.23
Al 308.215	9832.42	ppb	30.2595	0.3	68709.5
As 188.980	216.608	ppb	6.6872	3.1	159.327
B 249.678	382.592	ppb	1.9529	0.5	5358.59
Ba 389.178	206.373	ppb	1.0562	0.5	5229.86
Be 313.042	106.324	ppb	0.3639	0.3	217805
Ca 370.602	10207	ppb	47.92	0.5	31050
Cd 226.502	102.227	ppb	0.2651	0.3	5264.70
Co 228.615	104.473	ppb	0.7389	0.7	1389.83
Cr 267.716	216.709	ppb	0.9150	0.4	12937.7
Cu 324.754	212.239	ppb	1.2687	0.6	13841.0
Fe 271.441	10214.6	ppb	27.4749	0.3	17705.6
K 766.491	9753.86	ppb	49.5483	0.5	421698
Mg 279.078	10070.9	ppb	29.6852	0.3	25982.4
Mn 257.610	1053.73	ppb	3.6516	0.3	269560
Mo 202.032	211.452	ppb	1.1797	0.6	1719.19

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	10685.5	ppb	110.529	1.0	466.408
Ni 231.604	200.251	ppb	0.3650	0.2	706.643
Pb 220.353	101.005	ppb	1.5152	1.5	203.672
Sb 206.834	93.9318	ppb	0.7903	0.8	148.677
Se 196.026	219.819	ppb	4.7274	2.2	113.463
Sn 189.925	452.789	ppb	3.6551	0.8	423.496
Sr 216.596	204.102	ppb	0.6932	0.3	3141.10
Ti 334.941	207.991	ppb	0.7870	0.4	59629.9
Tl 190.794	79.0104	ppb	0.8786	1.1	94.9328
V 292.401	209.942	ppb	1.1170	0.5	5937.45
Zn 206.200	203.299	ppb	0.5268	0.3	320.552

640-46105-f-1-a^10 (Samp) 12/18/2013, 4:24:14 PM Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0105u	0.0942	-0.0056u
Al 308.215	40.8494	41.0079	41.3015
As 188.980	1.0789	3.0236	3.8025
B 249.678	116.717	116.859	117.089
Ba 389.178	7.8617	7.8295	8.0337
Be 313.042	-0.0072u	-0.0060u	-0.0079u
Ca 370.602	9947	9868	9876
Cd 226.502	0.1290	-0.0465u	-0.0459u
Co 228.615	-0.1078u	-0.1001u	0.0928
Cr 267.716	4.0639	4.1033	3.9937
Cu 324.754	-0.0708u	-0.4702u	-0.0314u
Fe 271.441	59.6770	59.9309	56.9389
K 766.491	9177.04	9162.30	9140.84
Mg 279.078	2522.28	2520.62	2528.41
Mn 257.610	11.5818	11.5437	11.5693
Mo 202.032	-0.0030u	-0.4551u	-0.3042u
Na 330.237	16262.5	16106.4	16215.6
Ni 231.604	1.2135	1.4688	0.6341
Pb 220.353	-0.4762u	-0.9685u	-1.1524u
Sb 206.834	1.4935	-0.0304	-1.0896u
Se 196.026	-1.4394u	0.3979	2.1996
Sn 189.925	1.6894	0.4287	-0.6274u
Sr 216.596	43.8805	43.7579	44.3833
Ti 334.941	0.3420	0.3290	0.2792
Tl 190.794	-3.9948u	-3.1678u	-1.5774u
V 292.401	0.5303	0.7476	0.6645
Zn 206.200	0.6109	1.0235	0.4732

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0330	ppb	0.0536	162.2	-10.5687
Al 308.215	41.0530	ppb	0.2294	0.6	554.675
As 188.980	2.6350	ppb	1.4028	53.2	-3.2324
B 249.678	116.889	ppb	0.1876	0.2	1689.14
Ba 389.178	7.9083	ppb	0.1098	1.4	178.509
Be 313.042	-0.0070	ppb	0.0010	13.6	-251.996
Ca 370.602	9897	ppb	43.70	0.4	30776
Cd 226.502	0.0122	ppb	0.1011	829.2	13.0401
Co 228.615	-0.0383	ppb	0.1137	296.4	-4.0979

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	4.0536	ppb	0.0555	1.4	252.487
Cu 324.754	-0.1908	ppb	0.2427	127.2	134.497
Fe 271.441	58.8489	ppb	1.6590	2.8	114.456
K 766.491	9160.06	ppb	18.2028	0.2	396040
Mg 279.078	2523.77	ppb	4.1035	0.2	6534.51
Mn 257.610	11.5649	ppb	0.0194	0.2	3039.80
Mo 202.032	-0.2541	ppb	0.2302	90.6	7.0092
Na 330.237	16194.8	ppb	80.0594	0.5	700.448
Ni 231.604	1.1055	ppb	0.4277	38.7	0.2598
Pb 220.353	-0.8657	ppb	0.3496	40.4	12.2154
Sb 206.834	0.1245	ppb	1.2985	1043.1	7.7953
Se 196.026	0.3860	ppb	1.8195	471.4	7.5705
Sn 189.925	0.4969	ppb	1.1599	233.4	-12.4725
Sr 216.596	44.0072	ppb	0.3314	0.8	684.397
Ti 334.941	0.3167	ppb	0.0332	10.5	30.0354
Tl 190.794	-2.9133	ppb	1.2286	42.2	-11.2006
V 292.401	0.6475	ppb	0.1096	16.9	8.7577
Zn 206.200	0.7025	ppb	0.2864	40.8	8.0517

CRI (Samp)

12/18/2013, 4:29:00 PM

Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.3895	9.3588	9.6924
Al 308.215	208.625	209.010	207.704
As 188.980	18.8733	21.1818	27.7773
B 249.678	98.5419	98.4250	99.0389
Ba 389.178	10.5260	9.9419	9.6650
Be 313.042	3.9616	3.9655	3.9509
Ca 370.602	509.4	507.7	508.3
Cd 226.502	4.9347	5.0139	4.9183
Co 228.615	10.2826	9.2260	9.7654
Cr 267.716	10.1647	10.1424	10.1540
Cu 324.754	19.5847	19.8285	19.2014
Fe 271.441	50.0538	49.3014	51.8825
K 766.491	992.604	992.196	993.297
Mg 279.078	516.303	515.108	516.346
Mn 257.610	10.0955	10.1553	10.1214
Mo 202.032	9.9229	9.5884	9.8735
Na 330.237	1151.58	1236.28	1089.54
Ni 231.604	39.5987	39.6355	39.2203
Pb 220.353	10.1032	9.2920	7.9033
Sb 206.834	18.9334	17.5213	20.0154
Se 196.026	25.2006	21.5215	20.1955
Sn 189.925	49.1100	49.6435	51.4913
Sr 216.596	9.3632	9.6971	9.9519
Ti 334.941	9.9157	9.8736	9.9328
Tl 190.794	27.7858	24.0244	25.1696
V 292.401	9.6967	10.0137	9.6758
Zn 206.200	16.8734	17.6728	18.1190

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.4802	ppb	0.1844	1.9	777.364
Al 308.215	208.446	ppb	0.6712	0.3	1719.49

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	22.6108	ppb	4.6208	20.4	11.9491
B 249.678	98.6686	ppb	0.3260	0.3	1436.15
Ba 389.178	10.0443	ppb	0.4395	4.4	226.845
Be 313.042	3.9593	ppb	0.0075	0.2	7880.81
Ca 370.602	508.5	ppb	0.8864	0.2	1593
Cd 226.502	4.9556	ppb	0.0511	1.0	264.864
Co 228.615	9.7580	ppb	0.5283	5.4	126.509
Cr 267.716	10.1537	ppb	0.0111	0.1	615.754
Cu 324.754	19.5382	ppb	0.3161	1.6	1406.89
Fe 271.441	50.4126	ppb	1.3274	2.6	101.034
K 766.491	992.699	ppb	0.5568	0.1	43142.4
Mg 279.078	515.919	ppb	0.7029	0.1	1354.07
Mn 257.610	10.1241	ppb	0.0300	0.3	2653.44
Mo 202.032	9.7950	ppb	0.1806	1.8	88.3100
Na 330.237	1159.13	ppb	73.6612	6.4	77.2257
Ni 231.604	39.4848	ppb	0.2299	0.6	136.367
Pb 220.353	9.0995	ppb	1.1125	12.2	30.8784
Sb 206.834	18.8234	ppb	1.2507	6.6	35.7389
Se 196.026	22.3059	ppb	2.5931	11.6	18.1072
Sn 189.925	50.0816	ppb	1.2496	2.5	35.3126
Sr 216.596	9.6707	ppb	0.2952	3.1	156.576
Ti 334.941	9.9074	ppb	0.0304	0.3	2772.60
Tl 190.794	25.6599	ppb	1.9281	7.5	26.3644
V 292.401	9.7954	ppb	0.1893	1.9	267.836
Zn 206.200	17.5551	ppb	0.6311	3.6	34.0816

Cont Calib Verif (CCV) 12/18/2013, 4:33:45 PM Rack 1, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	503.547	500.446	495.389
Al 308.215	4817.59	4775.31	4781.42
As 188.980	515.249	507.125	509.098
B 249.678	480.805	479.337	481.311
Ba 389.178	4984.30	4947.86	4950.74
Be 313.042	490.040	486.187	488.857
Ca 370.602	4778	4733	4743
Cd 226.502	495.100	490.646	489.979
Co 228.615	495.573	491.838	492.032
Cr 267.716	4988.20	4951.43	4954.30
Cu 324.754	5003.26	4870.03	4948.04
Fe 271.441	4958.56	4910.55	4929.25
K 766.491	9982.50	9879.58	9971.89
Mg 279.078	5001.71	4945.85	4951.50
Mn 257.610	4913.24	4860.26	4871.87
Mo 202.032	510.862	506.893	506.961
Na 330.237	7341.43	7198.12	7327.06
Ni 231.604	2411.64	2399.63	2374.51
Pb 220.353	490.082	486.925	485.427
Sb 206.834	975.288	969.343	967.361
Se 196.026	4944.65	4899.38	4901.67
Sn 189.925	5054.67	4987.40	5030.48
Sr 216.596	2482.58	2463.82	2462.31
Ti 334.941	483.686	479.952	481.355

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Label	Replicates Concentration		
Tl 190.794	4978.48	4940.13	4960.91
V 292.401	4965.16	4927.35	4930.82
Zn 206.200	2467.67	2436.89	2433.04

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.794	ppb	4.1175	0.8	41505.8	99.95876
Al 308.215	4791.44	ppb	22.8550	0.5	33041.9	95.82880
As 188.980	510.491	ppb	4.2375	0.8	382.599	102.09810
B 249.678	480.485	ppb	1.0252	0.2	6727.83	96.09691
Ba 389.178	4960.96	ppb	20.2578	0.4	125288	99.21928
Be 313.042	488.361	ppb	1.9735	0.4	1003134	97.67228
Ca 370.602	4751	ppb	23.60	0.5	14826	95.02291
Cd 226.502	491.909	ppb	2.7839	0.6	25088.6	98.38173
Co 228.615	493.148	ppb	2.1028	0.4	6587.17	98.62951
Cr 267.716	4964.64	ppb	20.4481	0.4	295995	99.29286
Cu 324.754	4940.44	ppb	66.9417	1.4	318669	98.80887
Fe 271.441	4932.79	ppb	24.1956	0.5	8667.29	98.65575
K 766.491	9944.66	ppb	56.6058	0.6	429941	99.44656
Mg 279.078	4966.35	ppb	30.7503	0.6	12738.6	99.32710
Mn 257.610	4881.79	ppb	27.8510	0.6	1248108	97.63580
Mo 202.032	508.239	ppb	2.2725	0.4	4111.18	101.64774
Na 330.237	7288.87	ppb	78.9210	1.1	293.866	97.18492
Ni 231.604	2395.26	ppb	18.9472	0.8	8491.29	95.81036
Pb 220.353	487.478	ppb	2.3764	0.5	928.462	97.49565
Sb 206.834	970.664	ppb	4.1254	0.4	1546.61	97.06640
Se 196.026	4915.23	ppb	25.5006	0.5	2371.47	98.30464
Sn 189.925	5024.18	ppb	34.0723	0.7	4829.92	100.48368
Sr 216.596	2469.57	ppb	11.2907	0.5	37701.7	98.78271
Ti 334.941	481.664	ppb	1.8864	0.4	138098	96.33290
Tl 190.794	4959.84	ppb	19.1952	0.4	6509.49	99.19678
V 292.401	4941.11	ppb	20.9009	0.4	140581	98.82226
Zn 206.200	2445.87	ppb	18.9833	0.8	3779.15	97.83466

Cont Calib Blank (CCB)

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Rack 1, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0786u	-0.0643u	0.1960
Al 308.215	-1.2778u	0.3891	-0.6780u
As 188.980	1.6135	2.7070	-0.0624u
B 249.678	2.3015	2.2872	1.9528
Ba 389.178	-0.5918u	-0.5237u	-0.5270u
Be 313.042	-0.0031u	0.0010	0.0024
Ca 370.602	1.235	2.227	0.9853
Cd 226.502	0.1795	-0.0755u	0.0808
Co 228.615	0.1160	0.1007	-0.4568u
Cr 267.716	0.1049	0.3240	0.2653
Cu 324.754	-0.0726u	-0.0270u	-0.4067u
Fe 271.441	-2.1368u	2.1520	-0.3387u
K 766.491	0.7901	0.2894	0.4921
Mg 279.078	-0.4962u	3.2182	3.2352
Mn 257.610	-0.0304u	0.0058	-0.0007u
Mo 202.032	0.2299	-0.1583u	0.0510
Na 330.237	234.285	-72.9226u	75.6880

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Label	Replicates Concentration		
Ni 231.604	-0.0111u	-0.4671u	0.5308
Pb 220.353	-0.0653u	-3.1348u	-0.9122u
Sb 206.834	-0.1773u	-0.0510u	-1.6758u
Se 196.026	-2.3240u	1.6127	9.5489
Sn 189.925	-1.5493u	4.0748	1.3831
Sr 216.596	-0.0584u	-0.3645u	-0.1425u
Ti 334.941	0.1891	0.1552	0.1395
Tl 190.794	-0.7633u	4.3161	0.8678
V 292.401	0.1045	0.2579	0.1008
Zn 206.200	-0.3961u	-0.8048u	-0.2561u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0177	ppb	0.1546	872.6	-9.5532	0.01772
Al 308.215	-0.5223	ppb	0.8443	161.7	265.298	-0.52225
As 188.980	1.4194	ppb	1.3949	98.3	-4.1563	1.41939
B 249.678	2.1805	ppb	0.1973	9.1	96.5868	2.18050
Ba 389.178	-0.5475	ppb	0.0384	7.0	-42.2480	-0.54750
Be 313.042	0.0001	ppb	0.0029	3744.4	-239.073	0.00008
Ca 370.602	1.482	ppb	0.6569	44.3	15.32	1.48240
Cd 226.502	0.0616	ppb	0.1286	208.8	15.3656	0.06158
Co 228.615	-0.0800	ppb	0.3264	407.7	-4.6919	-0.08004
Cr 267.716	0.2314	ppb	0.1134	49.0	24.1862	0.23138
Cu 324.754	-0.1687	ppb	0.2073	122.9	135.912	-0.16874
Fe 271.441	-0.1079	ppb	2.1537	1996.5	12.3990	-0.10787
K 766.491	0.5239	ppb	0.2518	48.1	272.151	0.52388
Mg 279.078	1.9857	ppb	2.1494	108.2	28.3564	1.98575
Mn 257.610	-0.0084	ppb	0.0193	228.0	58.3801	-0.00845
Mo 202.032	0.0409	ppb	0.1943	475.4	9.4005	0.04088
Na 330.237	79.0169	ppb	153.631	194.4	32.7758	79.01691
Ni 231.604	0.0176	ppb	0.4996	2845.5	-3.6005	0.01756
Pb 220.353	-1.3708	ppb	1.5853	115.7	11.2613	-1.37077
Sb 206.834	-0.6347	ppb	0.9038	142.4	6.5805	-0.63469
Se 196.026	2.9459	ppb	6.0477	205.3	8.7973	2.94588
Sn 189.925	1.3028	ppb	2.8129	215.9	-11.7065	1.30284
Sr 216.596	-0.1885	ppb	0.1582	83.9	7.0322	-0.18848
Ti 334.941	0.1612	ppb	0.0253	15.7	-24.9816	0.16124
Tl 190.794	1.4735	ppb	2.5933	176.0	-5.4241	1.47351
V 292.401	0.1544	ppb	0.0896	58.1	-5.0891	0.15439
Zn 206.200	-0.4857	ppb	0.2851	58.7	6.2223	-0.48569

680-97090-f-4-a^10 (Samp)

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Rack 1, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0292u	0.1410u	0.2345u
Al 308.215	-2.1029u	-2.7591u	-4.0479u
As 188.980	1.9139	4.5991	0.0464
B 249.678	30.5193	31.4934	31.2439
Ba 389.178	0.8817	1.0914	1.3510
Be 313.042	-0.0160u	-0.0169u	-0.0202u
Ca 370.602	10367	10315	10257
Cd 226.502	0.0502	0.2102	0.0180
Co 228.615	-0.2694u	-0.3360u	0.3120
Cr 267.716	0.4409	0.3384	0.4357

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Label	Replicates Concentration		
Cu 324.754	-0.0328u	0.1523	0.0079
Fe 271.441	14.0370	5.8389	3.5767
K 766.491	576.042	574.256	570.254
Mg 279.078	1600.02	1589.28	1590.83
Mn 257.610	-0.0326	-0.0646u	-0.0554
Mo 202.032	-0.0685u	0.4581	0.2185
Na 330.237	13907.0	14112.9	13785.3
Ni 231.604	1.6390	0.2766	-0.1308u
Pb 220.353	0.6583	2.5501	-0.0990u
Sb 206.834	-0.6091u	-0.3324u	-0.6642u
Se 196.026	-0.0797u	-3.2144u	-5.9317u
Sn 189.925	-0.3251u	1.3009	2.3716
Sr 216.596	486.215	483.979	481.913
Ti 334.941	0.0725	0.0798	0.0402
Tl 190.794	-3.1113u	-4.6030u	-2.1879u
V 292.401	0.3104	0.1802	0.3764
Zn 206.200	0.4244	0.6063	1.9418

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1155	ppb	0.1337	115.8	-26.8081
Al 308.215	-2.9700	ppb	0.9895	33.3	248.253
As 188.980	2.1865	ppb	2.2886	104.7	-3.5734
B 249.678	31.0855	ppb	0.5060	1.6	497.900
Ba 389.178	1.1081	ppb	0.2351	21.2	4.0288
Be 313.042	-0.0177	ppb	0.0022	12.4	-273.050
Ca 370.602	10313	ppb	54.66	0.5	32072
Cd 226.502	0.0928	ppb	0.1029	110.9	16.9189
Co 228.615	-0.0978	ppb	0.3564	364.5	-4.9359
Cr 267.716	0.4050	ppb	0.0577	14.3	34.8101
Cu 324.754	0.0425	ppb	0.0973	229.1	149.539
Fe 271.441	7.8175	ppb	5.5037	70.4	26.1163
K 766.491	573.518	ppb	2.9639	0.5	25030.3
Mg 279.078	1593.38	ppb	5.8065	0.4	4134.27
Mn 257.610	-0.0509	ppb	0.0165	32.4	61.7387
Mo 202.032	0.2027	ppb	0.2637	130.1	10.7094
Na 330.237	13935.1	ppb	165.576	1.2	606.828
Ni 231.604	0.5950	ppb	0.9268	155.8	-1.5522
Pb 220.353	1.0365	ppb	1.3645	131.6	15.7770
Sb 206.834	-0.5352	ppb	0.1778	33.2	6.7277
Se 196.026	-3.0753	ppb	2.9285	95.2	5.9030
Sn 189.925	1.1158	ppb	1.3578	121.7	-11.8765
Sr 216.596	484.036	ppb	2.1515	0.4	7413.19
Ti 334.941	0.0642	ppb	0.0210	32.8	-46.5739
Tl 190.794	-3.3007	ppb	1.2187	36.9	-11.6974
V 292.401	0.2890	ppb	0.0998	34.5	-1.3761
Zn 206.200	0.9909	ppb	0.8286	83.6	8.5033

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0758	0.0922	0.3083
Al 308.215	-3.2183u	-1.1387u	-3.0564u
As 188.980	-0.6279u	1.2624	5.1708

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Label	Replicates Concentration		
B 249.678	0.8818	0.2944	0.8280
Ba 389.178	0.5550	0.3272	0.8100
Be 313.042	-0.0110u	-0.0113u	-0.0166u
Ca 370.602	353.3	348.8	341.6
Cd 226.502	-0.0421u	0.0493	0.0403
Co 228.615	0.5132	0.3404	0.5938
Cr 267.716	1.2360	1.3314	1.1878
Cu 324.754	-0.0305u	0.1682	0.0089
Fe 271.441	4.1609	9.8773	2.5243
K 766.491	5996.66	5945.54	5901.62
Mg 279.078	303.062	302.211	289.632
Mn 257.610	-0.0232u	-0.0400u	-0.0608u
Mo 202.032	0.2226	-0.0450u	0.2916
Na 330.237	2457.47	2424.59	2370.73
Ni 231.604	1.8115	1.4909	0.1911
Pb 220.353	-0.4597u	0.1938	-1.1502u
Sb 206.834	-0.1309u	0.4123	-2.9918u
Se 196.026	-3.4822u	-5.7373u	-2.2490u
Sn 189.925	2.7141	2.4564	2.7991
Sr 216.596	31.4328	31.3980	30.7334
Ti 334.941	0.0406	0.0419	0.0746
Tl 190.794	-4.7188u	-3.2755u	-2.8784u
V 292.401	-0.0277u	0.0329	-0.2355u
Zn 206.200	-0.4897u	-0.4494u	-0.2225u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1588	ppb	0.1297	81.7	0.5416
Al 308.215	-2.4712	ppb	1.1568	46.8	251.767
As 188.980	1.9351	ppb	2.9573	152.8	-3.7644
B 249.678	0.6681	ppb	0.3247	48.6	75.5955
Ba 389.178	0.5641	ppb	0.2416	42.8	-13.3381
Be 313.042	-0.0130	ppb	0.0032	24.6	-266.420
Ca 370.602	347.9	ppb	5.885	1.7	1092
Cd 226.502	0.0159	ppb	0.0504	317.8	13.0422
Co 228.615	0.4824	ppb	0.1294	26.8	2.8116
Cr 267.716	1.2517	ppb	0.0731	5.8	85.0753
Cu 324.754	0.0489	ppb	0.1052	215.2	149.955
Fe 271.441	5.5208	ppb	3.8605	69.9	22.2006
K 766.491	5947.94	ppb	47.5660	0.8	257250
Mg 279.078	298.302	ppb	7.5203	2.5	792.875
Mn 257.610	-0.0413	ppb	0.0189	45.6	52.6078
Mo 202.032	0.1564	ppb	0.1778	113.7	10.3357
Na 330.237	2417.60	ppb	43.7915	1.8	129.668
Ni 231.604	1.1645	ppb	0.8581	73.7	0.4663
Pb 220.353	-0.4720	ppb	0.6721	142.4	12.9470
Sb 206.834	-0.9034	ppb	1.8288	202.4	6.1924
Se 196.026	-3.8228	ppb	1.7689	46.3	5.5436
Sn 189.925	2.6565	ppb	0.1785	6.7	-10.4007
Sr 216.596	31.1881	ppb	0.3941	1.3	486.857
Ti 334.941	0.0524	ppb	0.0193	36.8	-55.0157
Tl 190.794	-3.6242	ppb	0.9685	26.7	-12.1209
V 292.401	-0.0768	ppb	0.1407	183.3	-11.7838
Zn 206.200	-0.3872	ppb	0.1441	37.2	6.3730

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680-97080-a-23-a^10 (Samp) 12/18/2013, 5:05:25 PM Rack 1, Tube 29**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5153u	-0.2490u	-0.3597u
Al 308.215	-0.0681u	0.3701	1.0199
As 188.980	2.1347	-3.8589u	-2.7485u
B 249.678	12.7112	12.2924	12.1743
Ba 389.178	12.9067	13.3916	13.1499
Be 313.042	-0.0140u	-0.0202u	-0.0148u
Ca 370.602	6762	6703	6717
Cd 226.502	0.0210	0.0506	0.0453
Co 228.615	-0.0987u	-0.0218u	0.3232
Cr 267.716	35.4599	35.2763	35.3149
Cu 324.754	-0.2928u	-0.3034u	0.1203
Fe 271.441	25.2682	22.7672	25.4529
K 766.491	590.464	588.777	585.334
Mg 279.078	1361.21	1353.18	1358.37
Mn 257.610	0.8244	0.8040	0.8419
Mo 202.032	13.2954	14.1562	13.3360
Na 330.237	10727.8	10814.0	10896.3
Ni 231.604	1.6178	0.6550	0.4328
Pb 220.353	-0.0155u	-0.8665u	0.8687
Sb 206.834	-4.3480u	1.5282	-2.2480u
Se 196.026	2.9929	0.1293	-1.1124u
Sn 189.925	0.3519	2.8082	0.4208
Sr 216.596	32.6034	32.0736	31.8478
Ti 334.941	0.0603	0.0372	0.0302
Tl 190.794	-0.0745u	-1.7239u	-3.1703u
V 292.401	4.9379	5.2186	5.0309
Zn 206.200	-0.7823u	-0.6471u	0.5447

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3747	ppb	0.1338	35.7	-43.8882
Al 308.215	0.4406	ppb	0.5474	124.2	272.226
As 188.980	-1.4909	ppb	3.1886	213.9	-6.3730
B 249.678	12.3926	ppb	0.2821	2.3	238.328
Ba 389.178	13.1494	ppb	0.2424	1.8	307.581
Be 313.042	-0.0163	ppb	0.0034	20.5	-271.501
Ca 370.602	6727	ppb	30.79	0.5	20923
Cd 226.502	0.0390	ppb	0.0158	40.5	14.2756
Co 228.615	0.0676	ppb	0.2247	332.6	-3.0252
Cr 267.716	35.3504	ppb	0.0968	0.3	2118.34
Cu 324.754	-0.1586	ppb	0.2416	152.3	136.998
Fe 271.441	24.4961	ppb	1.5001	6.1	55.1377
K 766.491	588.191	ppb	2.6147	0.4	25664.3
Mg 279.078	1357.59	ppb	4.0746	0.3	3525.90
Mn 257.610	0.8234	ppb	0.0190	2.3	283.210
Mo 202.032	13.5959	ppb	0.4857	3.6	119.080
Na 330.237	10812.7	ppb	84.2146	0.8	477.475
Ni 231.604	0.9018	ppb	0.6299	69.8	-0.4635
Pb 220.353	-0.0044	ppb	0.8677	19610.5	13.8059
Sb 206.834	-1.6893	ppb	2.9777	176.3	5.3078
Se 196.026	0.6699	ppb	2.1054	314.3	7.7039
Sn 189.925	1.1936	ppb	1.3987	117.2	-11.8045
Sr 216.596	32.1749	ppb	0.3879	1.2	502.701

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0426	ppb	0.0158	37.0	-53.5899
Tl 190.794	-1.6562	ppb	1.5490	93.5	-9.5436
V 292.401	5.0625	ppb	0.1430	2.8	130.646
Zn 206.200	-0.2949	ppb	0.7302	247.6	6.4683

680-97080-a-24-a^10 (Samp) **12/18/2013, 5:10:10 PM** **Rack 1, Tube 30**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1828u	-0.0359u	0.0048u
Al 308.215	1.1210	1.9594	1.9927
As 188.980	5.0657	0.7256	4.1221
B 249.678	33.4523	32.6866	33.5520
Ba 389.178	1.2962	1.1266	0.2523
Be 313.042	-0.0108u	-0.0117u	-0.0147u
Ca 370.602	2387	2390	2395
Cd 226.502	-0.0550u	-0.0839u	-0.0241u
Co 228.615	-0.3297u	0.1120	-0.2568u
Cr 267.716	17.2059	15.4710	14.2571
Cu 324.754	0.1541	0.1124	0.2978
Fe 271.441	39.1998	33.8776	22.8482
K 766.491	420.893	419.048	418.998
Mg 279.078	1867.63	1869.75	1870.96
Mn 257.610	7.6724	7.7011	7.6614
Mo 202.032	11.0082	10.4379	10.6479
Na 330.237	16137.0	16152.8	16038.3
Ni 231.604	10.5001	11.5917	10.7373
Pb 220.353	0.0668	1.4755	-2.5881u
Sb 206.834	0.6752	0.9107	-0.5813u
Se 196.026	-0.2565u	0.4273	2.0837
Sn 189.925	2.5212	0.4076	1.7990
Sr 216.596	17.3297	17.6562	17.1439
Ti 334.941	0.0177	0.0241	-0.0000
Tl 190.794	-2.3724u	0.5077	-0.7326u
V 292.401	3.3646	3.3211	3.4690
Zn 206.200	1.2339	0.6378	-0.0047u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0713	ppb	0.0987	138.4	-17.8451
Al 308.215	1.6910	ppb	0.4939	29.2	280.964
As 188.980	3.3045	ppb	2.2827	69.1	-2.7273
B 249.678	33.2303	ppb	0.4735	1.4	527.633
Ba 389.178	0.8917	ppb	0.5602	62.8	-0.5258
Be 313.042	-0.0124	ppb	0.0020	16.4	-265.982
Ca 370.602	2391	ppb	3.818	0.2	7442
Cd 226.502	-0.0543	ppb	0.0299	55.1	9.5187
Co 228.615	-0.1582	ppb	0.2368	149.7	-6.0220
Cr 267.716	15.6447	ppb	1.4820	9.5	943.544
Cu 324.754	0.1881	ppb	0.0972	51.7	159.274
Fe 271.441	31.9752	ppb	8.3401	26.1	67.9941
K 766.491	419.646	ppb	1.0801	0.3	18381.7
Mg 279.078	1869.45	ppb	1.6860	0.1	4846.40
Mn 257.610	7.6783	ppb	0.0205	0.3	2040.12
Mo 202.032	10.6980	ppb	0.2884	2.7	95.6323

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	16109.4	ppb	62.0739	0.4	696.923
Ni 231.604	10.9431	ppb	0.5741	5.2	35.1544
Pb 220.353	-0.3486	ppb	2.0634	592.0	13.1668
Sb 206.834	0.3349	ppb	0.8021	239.5	8.0496
Se 196.026	0.7515	ppb	1.2033	160.1	7.7448
Sn 189.925	1.5759	ppb	1.0743	68.2	-11.4363
Sr 216.596	17.3766	ppb	0.2593	1.5	275.502
Ti 334.941	0.0139	ppb	0.0125	89.8	-59.8239
Tl 190.794	-0.8658	ppb	1.4447	166.9	-8.5100
V 292.401	3.3849	ppb	0.0760	2.2	84.2867
Zn 206.200	0.6223	ppb	0.6194	99.5	7.9125

680-97080-a-25-a^10 (Samp) 12/18/2013, 5:14:55 PM Rack 1, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1019u	-0.0059u	0.0385
Al 308.215	0.6920	3.0037	1.0716
As 188.980	3.2360	1.4864	-0.7411u
B 249.678	30.5619	29.8222	30.7800
Ba 389.178	1.5007	1.7515	1.5439
Be 313.042	-0.0078u	-0.0085u	-0.0152u
Ca 370.602	4337	4329	4315
Cd 226.502	0.0085	0.1250	0.0834
Co 228.615	0.4355	0.0927	0.4749
Cr 267.716	13.4719	13.1679	13.2489
Cu 324.754	0.5312	0.3186	0.1831
Fe 271.441	14.1943	17.6126	16.7253
K 766.491	467.334	467.754	465.782
Mg 279.078	1803.32	1805.50	1798.76
Mn 257.610	19.7338	19.6383	19.6178
Mo 202.032	25.8044	26.0239	25.5352
Na 330.237	13291.4	12928.4	12932.5
Ni 231.604	0.6926	1.6709	1.4863
Pb 220.353	0.3139	1.3272	1.1491
Sb 206.834	-2.9751u	-1.7245u	-2.6064u
Se 196.026	4.1988	-4.1134u	5.0629
Sn 189.925	0.7938	1.8690	2.1945
Sr 216.596	25.9980	26.3121	25.5503
Ti 334.941	0.0758	0.0428	0.0754
Tl 190.794	-4.1553u	-2.9525u	0.2440
V 292.401	3.4136	3.6511	3.7973
Zn 206.200	-0.7253u	-0.1760u	1.0482

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0231	ppb	0.0718	310.4	-14.2222
Al 308.215	1.5891	ppb	1.2397	78.0	281.139
As 188.980	1.3271	ppb	1.9933	150.2	-4.2350
B 249.678	30.3880	ppb	0.5020	1.7	488.199
Ba 389.178	1.5987	ppb	0.1341	8.4	17.1936
Be 313.042	-0.0105	ppb	0.0041	38.7	-263.527
Ca 370.602	4327	ppb	11.09	0.3	13462
Cd 226.502	0.0723	ppb	0.0591	81.6	15.9239
Co 228.615	0.3344	ppb	0.2102	62.9	0.0559

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	13.2962	ppb	0.1574	1.2	803.514
Cu 324.754	0.3443	ppb	0.1755	51.0	169.875
Fe 271.441	16.1774	ppb	1.7738	11.0	40.7185
K 766.491	466.957	ppb	1.0389	0.2	20425.9
Mg 279.078	1802.52	ppb	3.4408	0.2	4673.49
Mn 257.610	19.6633	ppb	0.0619	0.3	5103.37
Mo 202.032	25.7878	ppb	0.2448	0.9	217.744
Na 330.237	13050.8	ppb	208.382	1.6	570.205
Ni 231.604	1.2832	ppb	0.5198	40.5	0.8884
Pb 220.353	0.9301	ppb	0.5410	58.2	15.5441
Sb 206.834	-2.4353	ppb	0.6426	26.4	3.4779
Se 196.026	1.7161	ppb	5.0669	295.3	8.2112
Sn 189.925	1.6191	ppb	0.7331	45.3	-11.3948
Sr 216.596	25.9535	ppb	0.3828	1.5	406.953
Ti 334.941	0.0647	ppb	0.0189	29.3	-45.3715
Tl 190.794	-2.2880	ppb	2.2737	99.4	-10.3917
V 292.401	3.6207	ppb	0.1936	5.3	88.5005
Zn 206.200	0.0490	ppb	0.9079	1854.2	7.0302

680-97139-a-5-a^10 (Samp)

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Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0558	-0.2382u	-0.0067u
Al 308.215	-2.1185u	-0.4228u	-1.5444u
As 188.980	1.3614	3.5688	0.3992
B 249.678	0.7193	1.0073	1.1182
Ba 389.178	1.0134	1.1255	0.5164
Be 313.042	-0.0168u	-0.0102u	-0.0134u
Ca 370.602	306.9	307.9	306.8
Cd 226.502	0.0662	0.0417	0.0979
Co 228.615	0.8424	0.4141	1.1513
Cr 267.716	1.1382	1.1546	1.1918
Cu 324.754	0.1242	-0.3811u	-0.2570u
Fe 271.441	3.2941	4.8322	8.2872
K 766.491	5813.38	5793.86	5752.73
Mg 279.078	285.953	281.797	281.431
Mn 257.610	1.0189	1.0056	0.9896
Mo 202.032	-0.2829u	0.2980	-0.0062u
Na 330.237	2210.40	2198.91	2148.31
Ni 231.604	0.8771	1.1418	0.9736
Pb 220.353	-0.5055u	-1.6719u	0.4630
Sb 206.834	0.4294	-1.9813u	-1.8554u
Se 196.026	-5.5747u	0.5421	2.4016
Sn 189.925	-1.5135u	-1.7935u	3.0579
Sr 216.596	30.3987	30.3750	29.5282
Ti 334.941	-0.0035	0.0214	-0.0035
Tl 190.794	-2.6496u	-2.0120u	-3.5621u
V 292.401	-0.1152u	-0.1678u	-0.3025u
Zn 206.200	0.7376	0.5106	-0.5507u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0630	ppb	0.1549	245.7	-17.8313
Al 308.215	-1.3619	ppb	0.8624	63.3	259.491

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.7765	ppb	1.6250	91.5	-3.8849
B 249.678	0.9483	ppb	0.2059	21.7	79.4835
Ba 389.178	0.8851	ppb	0.3242	36.6	-5.2715
Be 313.042	-0.0135	ppb	0.0033	24.8	-267.459
Ca 370.602	307.2	ppb	0.6043	0.2	965.3
Cd 226.502	0.0686	ppb	0.0282	41.1	15.7341
Co 228.615	0.8026	ppb	0.3702	46.1	7.0899
Cr 267.716	1.1615	ppb	0.0275	2.4	79.7012
Cu 324.754	-0.1713	ppb	0.2633	153.7	135.755
Fe 271.441	5.4712	ppb	2.5571	46.7	22.1486
K 766.491	5786.66	ppb	30.9589	0.5	250281
Mg 279.078	283.061	ppb	2.5115	0.9	753.531
Mn 257.610	1.0047	ppb	0.0147	1.5	319.904
Mo 202.032	0.0029	ppb	0.2905	9897.1	9.0939
Na 330.237	2185.87	ppb	33.0339	1.5	120.055
Ni 231.604	0.9975	ppb	0.1340	13.4	-0.1271
Pb 220.353	-0.5714	ppb	1.0690	187.1	12.7610
Sb 206.834	-1.1357	ppb	1.3569	119.5	5.8457
Se 196.026	-0.8770	ppb	4.1732	475.9	6.9600
Sn 189.925	-0.0830	ppb	2.7237	3280.8	-13.0414
Sr 216.596	30.1006	ppb	0.4959	1.6	470.232
Ti 334.941	0.0048	ppb	0.0144	298.9	-68.7165
Tl 190.794	-2.7412	ppb	0.7791	28.4	-10.9608
V 292.401	-0.1952	ppb	0.0966	49.5	-15.1195
Zn 206.200	0.2325	ppb	0.6877	295.8	7.3307

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Rack 1, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1701	0.2139	-0.0921u
Al 308.215	-1.4173u	-0.2833u	-3.1106u
As 188.980	3.1310	2.1178	2.7286
B 249.678	22.3201	22.4305	22.1145
Ba 389.178	2.3847	2.6796	3.0875
Be 313.042	-0.0147u	-0.0094u	-0.0117u
Ca 370.602	4940	4810	4653
Cd 226.502	0.0225	-0.1287u	0.0599
Co 228.615	0.2490	0.5470	0.2128
Cr 267.716	0.4117	0.6427	0.6628
Cu 324.754	-0.5515u	-0.7014u	-0.4020u
Fe 271.441	13.0257	15.9497	13.3733
K 766.491	29280.3	28609.8	27970.5
Mg 279.078	1236.89	1203.75	1163.19
Mn 257.610	4.8957	4.7297	4.5532
Mo 202.032	8.3104	7.1018	7.3869
Na 330.237	14382.4	14088.9	14139.8
Ni 231.604	0.6000	-0.4155u	0.6552
Pb 220.353	-0.3965u	-0.5668u	-2.5545u
Sb 206.834	-2.4573u	-3.1030u	0.4567
Se 196.026	1.8466	4.2460	-0.4007u
Sn 189.925	1.6218	0.5831	-0.1872u
Sr 216.596	37.3831	36.1644	35.1158
Ti 334.941	0.0463	0.0405	0.0407

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Label	Replicates Concentration		
Tl 190.794	1.3581	-0.9071u	0.0010u
V 292.401	0.5790	0.6227	0.6105
Zn 206.200	1.2928	0.8499	-0.5201u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0973	ppb	0.1655	170.1	-4.8091
Al 308.215	-1.6037	ppb	1.4228	88.7	258.168
As 188.980	2.6591	ppb	0.5102	19.2	-3.2167
B 249.678	22.2884	ppb	0.1604	0.7	375.809
Ba 389.178	2.7173	ppb	0.3529	13.0	43.6320
Be 313.042	-0.0119	ppb	0.0026	22.2	-266.097
Ca 370.602	4801	ppb	143.4	3.0	14935
Cd 226.502	-0.0154	ppb	0.0999	647.8	11.4388
Co 228.615	0.3363	ppb	0.1834	54.5	0.6426
Cr 267.716	0.5724	ppb	0.1395	24.4	44.8257
Cu 324.754	-0.5516	ppb	0.1497	27.1	111.492
Fe 271.441	14.1162	ppb	1.5973	11.3	37.0750
K 766.491	28620.2	ppb	654.963	2.3	1236880
Mg 279.078	1201.28	ppb	36.9106	3.1	3122.52
Mn 257.610	4.7262	ppb	0.1712	3.6	1279.44
Mo 202.032	7.5997	ppb	0.6318	8.3	70.5669
Na 330.237	14203.7	ppb	156.809	1.1	617.965
Ni 231.604	0.2799	ppb	0.6029	215.4	-2.6707
Pb 220.353	-1.1726	ppb	1.1998	102.3	11.6240
Sb 206.834	-1.7012	ppb	1.8965	111.5	4.8008
Se 196.026	1.8973	ppb	2.3237	122.5	8.2947
Sn 189.925	0.6726	ppb	0.9078	135.0	-12.3064
Sr 216.596	36.2211	ppb	1.1347	3.1	564.406
Ti 334.941	0.0425	ppb	0.0033	7.7	-54.5935
Tl 190.794	0.1507	ppb	1.1400	756.5	-7.1699
V 292.401	0.6041	ppb	0.0225	3.7	6.3091
Zn 206.200	0.5409	ppb	0.9451	174.7	7.8076

680-97080-a-1-aSD^5 (Samp) 12/18/2013, 5:29:12 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0611	-0.2192u	-0.4240u
Al 308.215	-2.7988u	-2.4047u	-0.5122u
As 188.980	1.7294	0.3922	-1.5956u
B 249.678	4.0364	3.9034	3.4386
Ba 389.178	0.5330	0.5490	-0.3089u
Be 313.042	-0.0106u	-0.0095u	-0.0090u
Ca 370.602	856.1	851.8	857.5
Cd 226.502	-0.0995u	0.1031	-0.0373u
Co 228.615	0.0278	0.3378	-0.1431u
Cr 267.716	0.5334	0.3523	0.3155
Cu 324.754	0.1672	-0.5036u	-0.5433u
Fe 271.441	8.0144	7.0820	2.4213
K 766.491	5239.31	5224.91	5240.25
Mg 279.078	211.486	213.211	210.851
Mn 257.610	0.7745	0.7668	0.7627
Mo 202.032	1.3040	1.6035	0.8100
Na 330.237	2462.59	2712.32	2631.29

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Label	Replicates Concentration		
Ni 231.604	0.9339	0.1852	0.3521
Pb 220.353	-0.8776u	1.6902	-0.0166u
Sb 206.834	-3.4808u	-0.9424u	-1.6370u
Se 196.026	-5.9699u	-0.5816u	3.2847
Sn 189.925	-1.1336u	-1.1498u	1.2913
Sr 216.596	6.3106	6.3733	6.3259
Ti 334.941	0.0099	-0.0060u	-0.0009
Tl 190.794	-3.7702u	-2.1282u	-3.0665u
V 292.401	-0.1260u	0.3355	0.6407
Zn 206.200	0.9976	0.8800	-0.3425u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1940	ppb	0.2435	125.5	-27.4889
Al 308.215	-1.9052	ppb	1.2224	64.2	255.730
As 188.980	0.1753	ppb	1.6730	954.3	-5.1023
B 249.678	3.7928	ppb	0.3139	8.3	118.978
Ba 389.178	0.2577	ppb	0.4908	190.4	-21.3082
Be 313.042	-0.0097	ppb	0.0008	8.2	-259.531
Ca 370.602	855.1	ppb	2.934	0.3	2669
Cd 226.502	-0.0113	ppb	0.1038	921.7	11.6587
Co 228.615	0.0742	ppb	0.2438	328.6	-2.6728
Cr 267.716	0.4004	ppb	0.1166	29.1	34.3156
Cu 324.754	-0.2932	ppb	0.3992	136.1	127.929
Fe 271.441	5.8392	ppb	2.9965	51.3	22.7115
K 766.491	5234.82	ppb	8.6003	0.2	226438
Mg 279.078	211.849	ppb	1.2211	0.6	569.804
Mn 257.610	0.7680	ppb	0.0060	0.8	258.755
Mo 202.032	1.2392	ppb	0.4007	32.3	19.0969
Na 330.237	2602.07	ppb	127.408	4.9	137.302
Ni 231.604	0.4904	ppb	0.3930	80.1	-1.9237
Pb 220.353	0.2653	ppb	1.3069	492.6	14.3288
Sb 206.834	-2.0201	ppb	1.3118	64.9	4.4749
Se 196.026	-1.0889	ppb	4.6481	426.8	6.8580
Sn 189.925	-0.3307	ppb	1.4047	424.7	-13.2798
Sr 216.596	6.3366	ppb	0.0327	0.5	106.900
Ti 334.941	0.0010	ppb	0.0081	797.2	-70.1473
Tl 190.794	-2.9883	ppb	0.8238	27.6	-11.2872
V 292.401	0.2834	ppb	0.3860	136.2	-1.6587
Zn 206.200	0.5117	ppb	0.7421	145.0	7.7630

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.8407	45.6687	43.7332
Al 308.215	1912.71	1881.35	1873.94
As 188.980	206.569	202.173	198.912
B 249.678	507.500	501.128	500.084
Ba 389.178	202.351	198.994	198.380
Be 313.042	50.2448	49.4012	49.1953
Ca 370.602	6143	6057	6043
Cd 226.502	50.3450	49.4631	49.0482
Co 228.615	198.691	195.085	196.068
Cr 267.716	200.113	196.974	196.249

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Label	Replicates Concentration		
Cu 324.754	202.566	196.975	197.456
Fe 271.441	2020.35	1978.04	1971.20
K 766.491	27841.0	27245.5	27182.7
Mg 279.078	3114.62	3069.45	3044.59
Mn 257.610	207.527	204.288	203.845
Mo 202.032	211.674	210.582	208.408
Na 330.237	14889.2	14763.4	14871.2
Ni 231.604	197.424	194.189	193.310
Pb 220.353	189.827	191.650	189.032
Sb 206.834	189.499	190.243	186.899
Se 196.026	205.234	202.166	189.044
Sn 189.925	204.886	208.294	207.177
Sr 216.596	236.505	232.558	232.301
Ti 334.941	196.790	193.724	192.973
Tl 190.794	196.717	192.089	192.237
V 292.401	202.172	198.291	197.513
Zn 206.200	197.165	193.139	195.496

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.7475	ppb	3.6745	7.9	3868.07
Al 308.215	1889.33	ppb	20.5795	1.1	13409.4
As 188.980	202.551	ppb	3.8421	1.9	148.646
B 249.678	502.904	ppb	4.0143	0.8	7044.94
Ba 389.178	199.908	ppb	2.1379	1.1	5033.43
Be 313.042	49.6138	ppb	0.5561	1.1	101531
Ca 370.602	6081	ppb	54.22	0.9	18872
Cd 226.502	49.6188	ppb	0.6623	1.3	2548.37
Co 228.615	196.615	ppb	1.8638	0.9	2618.78
Cr 267.716	197.779	ppb	2.0538	1.0	11802.6
Cu 324.754	198.999	ppb	3.0985	1.6	12984.2
Fe 271.441	1989.86	ppb	26.6182	1.3	3480.56
K 766.491	27423.1	ppb	363.278	1.3	1185154
Mg 279.078	3076.22	ppb	35.5053	1.2	7955.33
Mn 257.610	205.220	ppb	2.0099	1.0	52556.7
Mo 202.032	210.221	ppb	1.6626	0.8	1709.71
Na 330.237	14841.3	ppb	68.0255	0.5	640.534
Ni 231.604	194.974	ppb	2.1669	1.1	687.430
Pb 220.353	190.169	ppb	1.3425	0.7	370.196
Sb 206.834	188.880	ppb	1.7557	0.9	289.703
Se 196.026	198.815	ppb	8.5998	4.3	103.035
Sn 189.925	206.786	ppb	1.7373	0.8	186.369
Sr 216.596	233.788	ppb	2.3564	1.0	3579.71
Ti 334.941	194.496	ppb	2.0223	1.0	55725.4
Tl 190.794	193.681	ppb	2.6302	1.4	247.231
V 292.401	199.325	ppb	2.4957	1.3	5632.21
Zn 206.200	195.267	ppb	2.0231	1.0	308.351

680-97080-a-1-b ms (Samp)

12/18/2013, 5:38:44 PM

Rack 1, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.6220	5.8622	5.5674
Al 308.215	568.124	551.253	540.268
As 188.980	11.8355	15.6396	15.1491

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	48.1354	47.2414	45.6780
Ba 389.178	15.2105	14.5094	15.1349
Be 313.042	5.9493	5.7927	5.6633
Ca 370.602	5582	5421	5306
Cd 226.502	5.8541	5.7202	5.6699
Co 228.615	6.0292	5.6824	5.8886
Cr 267.716	12.6266	12.2915	11.8631
Cu 324.754	11.9851	11.7553	10.8773
Fe 271.441	606.973	594.312	581.816
K 766.491	30203.2	29578.8	29182.3
Mg 279.078	1844.59	1801.12	1761.12
Mn 257.610	64.9818	63.2450	61.9833
Mo 202.032	20.3372	19.7984	19.8552
Na 330.237	15701.8	15353.5	14844.6
Ni 231.604	11.8211	12.0912	11.6804
Pb 220.353	2.9507	2.7091	6.0875
Sb 206.834	4.7776	4.0738	3.4139
Se 196.026	12.6636	13.2907	10.8055
Sn 189.925	25.9677	24.7729	22.8172
Sr 216.596	49.4227	48.0139	47.2212
Ti 334.941	11.7546	11.3370	11.1473
Tl 190.794	3.0527	3.9467	2.9866
V 292.401	12.6965	12.5175	12.0279
Zn 206.200	12.2944	11.2826	10.5204

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.6839	ppb	0.1569	2.8	459.516
Al 308.215	553.215	ppb	14.0314	2.5	4120.13
As 188.980	14.2081	ppb	2.0693	14.6	5.5570
B 249.678	47.0183	ppb	1.2438	2.6	718.047
Ba 389.178	14.9516	ppb	0.3848	2.6	355.319
Be 313.042	5.8018	ppb	0.1432	2.5	11656.3
Ca 370.602	5436	ppb	138.7	2.6	16871
Cd 226.502	5.7481	ppb	0.0952	1.7	307.583
Co 228.615	5.8667	ppb	0.1744	3.0	74.3902
Cr 267.716	12.2604	ppb	0.3827	3.1	742.063
Cu 324.754	11.5392	ppb	0.5847	5.1	891.635
Fe 271.441	594.367	ppb	12.5786	2.1	1042.10
K 766.491	29654.8	ppb	514.698	1.7	1281582
Mg 279.078	1802.28	ppb	41.7447	2.3	4671.77
Mn 257.610	63.4034	ppb	1.5055	2.4	16286.9
Mo 202.032	19.9970	ppb	0.2961	1.5	170.831
Na 330.237	15300.0	ppb	431.101	2.8	663.069
Ni 231.604	11.8642	ppb	0.2088	1.8	38.4209
Pb 220.353	3.9157	ppb	1.8846	48.1	21.1896
Sb 206.834	4.0884	ppb	0.6820	16.7	13.4800
Se 196.026	12.2532	ppb	1.2924	10.5	13.2961
Sn 189.925	24.5193	ppb	1.5905	6.5	10.6803
Sr 216.596	48.2193	ppb	1.1150	2.3	748.444
Ti 334.941	11.4130	ppb	0.3107	2.7	3209.36
Tl 190.794	3.3287	ppb	0.5363	16.1	-3.0811
V 292.401	12.4139	ppb	0.3461	2.8	340.776
Zn 206.200	11.3658	ppb	0.8899	7.8	24.5032

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Cont Calib Verif (CCV) 12/18/2013, 5:43:29 PM Rack 1, Tube 37**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	491.365	494.305	490.315
Al 308.215	4727.65	4733.70	4742.45
As 188.980	501.149	508.289	500.510
B 249.678	476.806	481.366	483.726
Ba 389.178	4905.79	4911.55	4927.24
Be 313.042	484.655	484.315	487.905
Ca 370.602	4653	4659	4664
Cd 226.502	488.763	488.858	490.716
Co 228.615	489.390	490.804	491.376
Cr 267.716	4899.02	4904.13	4921.79
Cu 324.754	4848.32	4900.08	4996.84
Fe 271.441	4896.11	4907.67	4924.58
K 766.491	9806.59	9867.89	9886.75
Mg 279.078	4954.98	4969.34	4980.95
Mn 257.610	4834.41	4845.15	4863.79
Mo 202.032	503.285	502.667	503.972
Na 330.237	7225.51	7236.37	7069.90
Ni 231.604	2378.57	2370.30	2375.73
Pb 220.353	483.122	482.299	477.890
Sb 206.834	963.799	954.775	961.444
Se 196.026	4884.96	4881.88	4919.95
Sn 189.925	4947.62	4967.19	4979.42
Sr 216.596	2448.02	2452.18	2458.67
Ti 334.941	472.220	472.762	474.205
Tl 190.794	4893.69	4911.87	4919.83
V 292.401	4906.20	4914.46	4928.17
Zn 206.200	2425.26	2421.08	2426.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.995	ppb	2.0680	0.4	40856.1	98.39899
Al 308.215	4734.60	ppb	7.4400	0.2	32649.1	94.69206
As 188.980	503.316	ppb	4.3189	0.9	377.148	100.66321
B 249.678	480.633	ppb	3.5180	0.7	6729.91	96.12653
Ba 389.178	4914.86	ppb	11.0983	0.2	124124	98.29723
Be 313.042	485.625	ppb	1.9815	0.4	997513	97.12498
Ca 370.602	4658	ppb	5.777	0.1	14538	93.16859
Cd 226.502	489.446	ppb	1.1010	0.2	24963.1	97.88912
Co 228.615	490.523	ppb	1.0227	0.2	6552.42	98.10464
Cr 267.716	4908.32	ppb	11.9468	0.2	292637	98.16631
Cu 324.754	4915.08	ppb	75.3875	1.5	317034	98.30157
Fe 271.441	4909.45	ppb	14.3196	0.3	8626.38	98.18906
K 766.491	9853.74	ppb	41.9126	0.4	426013	98.53743
Mg 279.078	4968.43	ppb	13.0065	0.3	12744.0	99.36852
Mn 257.610	4847.78	ppb	14.8661	0.3	1239415	96.95570
Mo 202.032	503.308	ppb	0.6529	0.1	4071.33	100.66156
Na 330.237	7177.26	ppb	93.1322	1.3	289.462	95.69681
Ni 231.604	2374.87	ppb	4.2006	0.2	8418.97	94.99474
Pb 220.353	481.104	ppb	2.8137	0.6	916.512	96.22076
Sb 206.834	960.006	ppb	4.6811	0.5	1531.10	96.00060
Se 196.026	4895.60	ppb	21.1463	0.4	2362.03	97.91193
Sn 189.925	4964.74	ppb	16.0414	0.3	4772.63	99.29489
Sr 216.596	2452.96	ppb	5.3680	0.2	37448.3	98.11843

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	473.062	ppb	1.0259	0.2	135631	94.61246
Tl 190.794	4908.46	ppb	13.4008	0.3	6441.97	98.16925
V 292.401	4916.28	ppb	11.0940	0.2	139873	98.32554
Zn 206.200	2424.37	ppb	2.9442	0.1	3745.91	96.97476

Cont Calib Blank (CCB)

12/18/2013, 5:48:14 PM

Rack 1, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1713	-0.0725u	0.0345
Al 308.215	-2.1146u	-2.1185u	-2.2765u
As 188.980	1.2064	4.3958	0.0803
B 249.678	2.4704	2.3965	1.8054
Ba 389.178	-1.0039u	0.4430	-0.7094u
Be 313.042	0.0077	-0.0006u	0.0024
Ca 370.602	1.304	0.8189	2.416
Cd 226.502	0.0755	0.0542	0.0575
Co 228.615	0.1586	0.1883	0.3105
Cr 267.716	0.3876	0.3178	0.2581
Cu 324.754	-0.2678u	-0.0537u	0.1633
Fe 271.441	0.3988	-0.3478u	-0.9344u
K 766.491	1.2404	1.5685	1.2295
Mg 279.078	0.5704	5.1803	1.5496
Mn 257.610	0.0403	0.0670	0.0546
Mo 202.032	0.7551	0.7351	0.7396
Na 330.237	152.184	155.111	14.2827
Ni 231.604	1.3660	0.7084	-0.1153u
Pb 220.353	-0.1932u	0.1401	-0.0877u
Sb 206.834	1.1182	1.5588	0.6009
Se 196.026	1.6842	-3.2488u	-2.6629u
Sn 189.925	0.8487	3.4551	2.9224
Sr 216.596	-0.3403u	0.4934	-0.2891u
Ti 334.941	0.2221	0.1448	0.1172
Tl 190.794	3.5892	3.2950	2.7531
V 292.401	-0.0892u	0.1933	0.0317
Zn 206.200	-0.7728u	-0.4266u	-0.5593u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0445	ppb	0.1222	274.9	-7.3387	0.04446
Al 308.215	-2.1699	ppb	0.0924	4.3	253.882	-2.16985
As 188.980	1.8942	ppb	2.2384	118.2	-3.7957	1.89419
B 249.678	2.2241	ppb	0.3645	16.4	97.1884	2.22411
Ba 389.178	-0.4234	ppb	0.7647	180.6	-39.1062	-0.42341
Be 313.042	0.0032	ppb	0.0042	131.8	-232.853	0.00320
Ca 370.602	1.513	ppb	0.8185	54.1	15.25	1.51291
Cd 226.502	0.0624	ppb	0.0114	18.4	15.4148	0.06238
Co 228.615	0.2191	ppb	0.0805	36.8	-0.7226	0.21914
Cr 267.716	0.3212	ppb	0.0648	20.2	29.5442	0.32118
Cu 324.754	-0.0527	ppb	0.2155	408.6	143.419	-0.05274
Fe 271.441	-0.2944	ppb	0.6682	226.9	12.1075	-0.29445
K 766.491	1.3461	ppb	0.1926	14.3	307.679	1.34613
Mg 279.078	2.4334	ppb	2.4287	99.8	29.5110	2.43343
Mn 257.610	0.0540	ppb	0.0133	24.7	74.3447	0.05396
Mo 202.032	0.7432	ppb	0.0105	1.4	15.0843	0.74323

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	107.193	ppb	80.4756	75.1	33.9461	107.19254
Ni 231.604	0.6530	ppb	0.7422	113.7	-1.3472	0.65303
Pb 220.353	-0.0469	ppb	0.1704	363.1	13.7435	-0.04693
Sb 206.834	1.0926	ppb	0.4794	43.9	9.1539	1.09262
Se 196.026	-1.4092	ppb	2.6949	191.2	6.7039	-1.40915
Sn 189.925	2.4088	ppb	1.3770	57.2	-10.6405	2.40877
Sr 216.596	-0.0453	ppb	0.4673	1030.4	9.1844	-0.04535
Ti 334.941	0.1614	ppb	0.0543	33.7	-24.9438	0.16138
Tl 190.794	3.2124	ppb	0.4241	13.2	-3.1396	3.21242
V 292.401	0.0453	ppb	0.1417	313.0	-8.3263	0.04528
Zn 206.200	-0.5862	ppb	0.1747	29.8	6.0669	-0.58623

680-97080-a-1-c msd (Samp) 12/18/2013, 5:52:58 PM Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.4119	5.0790	5.0375
Al 308.215	506.922	498.093	493.649
As 188.980	13.5165	12.6085	17.1887
B 249.678	41.6606	41.1865	40.6066
Ba 389.178	13.6420	12.9526	13.1234
Be 313.042	5.3362	5.2269	5.1965
Ca 370.602	5110	5011	4972
Cd 226.502	5.1730	5.0849	5.2607
Co 228.615	4.6659	5.5303	5.3090
Cr 267.716	11.0330	10.9351	10.6515
Cu 324.754	10.2843	9.8727	10.7318
Fe 271.441	544.922	534.071	533.045
K 766.491	27680.7	27351.8	27151.8
Mg 279.078	1667.07	1644.71	1623.86
Mn 257.610	58.5518	57.4750	56.9812
Mo 202.032	18.2764	18.9479	17.3807
Na 330.237	14224.6	14156.7	13383.7
Ni 231.604	11.4455	10.7319	10.4913
Pb 220.353	4.5778	5.6112	4.0996
Sb 206.834	6.6257	3.7073	4.4324
Se 196.026	12.4095	10.5640	3.5509
Sn 189.925	23.3217	22.3634	19.5153
Sr 216.596	44.8342	44.2413	43.5837
Ti 334.941	10.4674	10.3491	10.1622
Tl 190.794	5.3888	4.6426	2.8974
V 292.401	11.7257	11.2807	10.8774
Zn 206.200	9.5891	10.5757	9.9379

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.1761	ppb	0.2052	4.0	417.482
Al 308.215	499.554	ppb	6.7561	1.4	3746.58
As 188.980	14.4379	ppb	2.4251	16.8	5.7323
B 249.678	41.1512	ppb	0.5279	1.3	636.695
Ba 389.178	13.2393	ppb	0.3590	2.7	311.542
Be 313.042	5.2532	ppb	0.0735	1.4	10531.6
Ca 370.602	5031	ppb	70.94	1.4	15615
Cd 226.502	5.1729	ppb	0.0879	1.7	278.033
Co 228.615	5.1684	ppb	0.4490	8.7	65.0934

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	10.8732	ppb	0.1981	1.8	659.296
Cu 324.754	10.2963	ppb	0.4296	4.2	811.417
Fe 271.441	537.346	ppb	6.5808	1.2	943.315
K 766.491	27394.8	ppb	267.057	1.0	1183932
Mg 279.078	1645.22	ppb	21.6103	1.3	4266.68
Mn 257.610	57.6693	ppb	0.8031	1.4	14819.5
Mo 202.032	18.2017	ppb	0.7862	4.3	156.309
Na 330.237	13921.7	ppb	467.115	3.4	606.001
Ni 231.604	10.8896	ppb	0.4962	4.6	34.9640
Pb 220.353	4.7629	ppb	0.7726	16.2	22.7773
Sb 206.834	4.9218	ppb	1.5195	30.9	14.7379
Se 196.026	8.8415	ppb	4.6738	52.9	11.6537
Sn 189.925	21.7335	ppb	1.9798	9.1	7.9945
Sr 216.596	44.2197	ppb	0.6255	1.4	687.180
Ti 334.941	10.3262	ppb	0.1539	1.5	2897.04
Tl 190.794	4.3096	ppb	1.2786	29.7	-1.7837
V 292.401	11.2946	ppb	0.4243	3.8	309.205
Zn 206.200	10.0342	ppb	0.5003	5.0	22.4492

680-97080-a-2-a (Samp)

12/18/2013, 5:57:42 PM

Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0639u	-0.1149u	0.3609
Al 308.215	-0.9104u	-2.4713u	-1.0501u
As 188.980	-1.6547u	2.9011	5.2054
B 249.678	34.6233	34.3604	33.5858
Ba 389.178	5.1792	5.1632	5.1914
Be 313.042	-0.0094u	-0.0014u	-0.0048u
Ca 370.602	1038	1007	1011
Cd 226.502	-0.1268u	0.0527	-0.0565u
Co 228.615	0.2906	0.2937	-0.0352u
Cr 267.716	0.4463	0.2947	0.5443
Cu 324.754	-0.1744u	0.1988	0.0368
Fe 271.441	5.8341	6.7597	6.3569
K 766.491	25197.1	24589.8	24730.7
Mg 279.078	841.902	811.987	815.893
Mn 257.610	0.3648	0.3174	0.2963
Mo 202.032	15.3773	15.1831	14.9427
Na 330.237	15377.5	15080.5	15027.9
Ni 231.604	1.4448	0.5010	1.0209
Pb 220.353	-1.1593u	-2.0383u	-2.3617u
Sb 206.834	2.1345	-1.8000u	-1.6264u
Se 196.026	-2.6691u	-6.0354u	-4.5385u
Sn 189.925	-2.2355u	1.9744	-1.7374u
Sr 216.596	16.9913	17.1716	17.2976
Ti 334.941	0.0553	0.0576	0.0954
Tl 190.794	-1.1307u	0.6726	-1.1520u
V 292.401	1.0311	0.8070	1.3384
Zn 206.200	-0.8024u	-0.4809u	-1.1700u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0607	ppb	0.2612	430.2	-6.8662
Al 308.215	-1.4773	ppb	0.8637	58.5	259.460

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.1506	ppb	3.4911	162.3	-3.6056
B 249.678	34.1898	ppb	0.5394	1.6	541.064
Ba 389.178	5.1779	ppb	0.0142	0.3	104.748
Be 313.042	-0.0052	ppb	0.0040	77.1	-254.798
Ca 370.602	1018	ppb	16.60	1.6	3177
Cd 226.502	-0.0435	ppb	0.0904	207.7	9.9455
Co 228.615	0.1830	ppb	0.1890	103.3	-1.6500
Cr 267.716	0.4284	ppb	0.1258	29.4	36.2264
Cu 324.754	0.0204	ppb	0.1871	918.1	148.640
Fe 271.441	6.3169	ppb	0.4641	7.3	23.5726
K 766.491	24839.2	ppb	317.889	1.3	1073509
Mg 279.078	823.261	ppb	16.2615	2.0	2147.30
Mn 257.610	0.3262	ppb	0.0351	10.8	151.201
Mo 202.032	15.1677	ppb	0.2178	1.4	131.809
Na 330.237	15162.0	ppb	188.503	1.2	657.686
Ni 231.604	0.9889	ppb	0.4727	47.8	-0.1557
Pb 220.353	-1.8531	ppb	0.6222	33.6	10.3341
Sb 206.834	-0.4306	ppb	2.2232	516.3	6.5097
Se 196.026	-4.4143	ppb	1.6866	38.2	5.2593
Sn 189.925	-0.6662	ppb	2.3004	345.3	-13.5985
Sr 216.596	17.1535	ppb	0.1540	0.9	272.073
Ti 334.941	0.0694	ppb	0.0225	32.4	-48.6231
Tl 190.794	-0.5367	ppb	1.0473	195.1	-8.0735
V 292.401	1.0588	ppb	0.2668	25.2	17.9270
Zn 206.200	-0.8178	ppb	0.3448	42.2	5.7089

680-97080-a-3-a (Samp)

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Rack 1, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0535	0.4718	0.0591
Al 308.215	-0.0615u	0.3556	-1.1831u
As 188.980	0.6226	4.3568	4.0150
B 249.678	30.5211	30.2066	30.6229
Ba 389.178	2.1389	2.2757	2.3275
Be 313.042	-0.0123u	-0.0088u	-0.0134u
Ca 370.602	353.1	354.2	349.4
Cd 226.502	0.1081	0.1306	0.0595
Co 228.615	0.2598	0.5598	0.3902
Cr 267.716	0.5525	0.6560	0.4010
Cu 324.754	-0.1281u	-0.4179u	-0.2846u
Fe 271.441	8.0477	8.6799	6.3163
K 766.491	26941.4	26932.8	26606.9
Mg 279.078	386.214	386.589	385.152
Mn 257.610	-0.0016	-0.0022	-0.0130
Mo 202.032	17.2425	17.5322	17.5288
Na 330.237	18198.3	18488.3	18443.0
Ni 231.604	0.1219	0.5592	0.6484
Pb 220.353	0.6928	-0.9054u	-0.2175u
Sb 206.834	-1.2019u	-0.2958u	-1.8558u
Se 196.026	-1.3945u	-8.7762u	5.9235
Sn 189.925	-1.6731u	-0.5125u	0.4435
Sr 216.596	8.4715	8.5401	8.4155
Ti 334.941	0.0903	0.0935	0.0694

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Label	Replicates Concentration		
Tl 190.794	-2.8578u	-0.2594u	-1.7405u
V 292.401	6.4203	6.4123	6.3128
Zn 206.200	-1.1012u	-0.3490u	-0.7239u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1948	ppb	0.2399	123.1	4.7636
Al 308.215	-0.2963	ppb	0.7958	268.5	267.157
As 188.980	2.9981	ppb	2.0644	68.9	-2.9621
B 249.678	30.4502	ppb	0.2170	0.7	489.143
Ba 389.178	2.2473	ppb	0.0974	4.3	29.5345
Be 313.042	-0.0115	ppb	0.0024	21.1	-266.339
Ca 370.602	352.2	ppb	2.533	0.7	1105
Cd 226.502	0.0994	ppb	0.0363	36.5	17.2059
Co 228.615	0.4033	ppb	0.1504	37.3	1.2182
Cr 267.716	0.5365	ppb	0.1282	23.9	42.6636
Cu 324.754	-0.2769	ppb	0.1450	52.4	129.484
Fe 271.441	7.6813	ppb	1.2237	15.9	26.0183
K 766.491	26827.0	ppb	190.680	0.7	1159401
Mg 279.078	385.985	ppb	0.7452	0.2	1019.10
Mn 257.610	-0.0056	ppb	0.0064	114.3	62.4508
Mo 202.032	17.4345	ppb	0.1663	1.0	150.141
Na 330.237	18376.5	ppb	156.023	0.8	790.870
Ni 231.604	0.4432	ppb	0.2818	63.6	-2.0919
Pb 220.353	-0.1434	ppb	0.8017	559.2	13.5377
Sb 206.834	-1.1178	ppb	0.7834	70.1	5.4250
Se 196.026	-1.4157	ppb	7.3499	519.2	6.7008
Sn 189.925	-0.5807	ppb	1.0600	182.5	-13.5153
Sr 216.596	8.4757	ppb	0.0624	0.7	139.257
Ti 334.941	0.0844	ppb	0.0131	15.5	-46.5628
Tl 190.794	-1.6192	ppb	1.3035	80.5	-9.4930
V 292.401	6.3818	ppb	0.0599	0.9	169.311
Zn 206.200	-0.7247	ppb	0.3761	51.9	5.8525

680-97080-a-4-a (Samp)

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Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2687	0.1862	-0.0547u
Al 308.215	170.268	170.007	170.541
As 188.980	0.0456	2.5723	0.0890
B 249.678	7.1915	7.1052	7.5811
Ba 389.178	-0.2003u	0.4140	-0.0690u
Be 313.042	-0.0207u	-0.0234u	-0.0244u
Ca 370.602	218.0	221.9	222.2
Cd 226.502	0.1143	0.1105	0.0296
Co 228.615	0.3279	0.4630	0.6272
Cr 267.716	3.2447	3.2558	3.3358
Cu 324.754	0.1527	-0.1399u	-0.0056u
Fe 271.441	33.6264	31.2480	29.4592
K 766.491	1225.35	1229.54	1237.01
Mg 279.078	127.567	125.566	132.037
Mn 257.610	0.2432	0.2411	0.2434
Mo 202.032	6.6238	6.2563	6.4319
Na 330.237	36564.7	36255.7	36811.3

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Label	Replicates Concentration		
Ni 231.604	0.7825	1.2044	1.7102
Pb 220.353	0.4015	-1.1495u	0.2140
Sb 206.834	-1.4460u	-3.0619u	-2.8793u
Se 196.026	-1.4257u	-3.2926u	3.5443
Sn 189.925	0.4822	1.4596	0.0176
Sr 216.596	2.5080	2.7356	2.6916
Ti 334.941	0.0620	0.0735	0.0323
Tl 190.794	-1.3770u	-2.1409u	-1.2695u
V 292.401	53.6352	54.0781	53.8664
Zn 206.200	-0.7533u	0.2565	0.8441

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1334	ppb	0.1680	126.0	0.2753
Al 308.215	170.272	ppb	0.2671	0.2	1448.10
As 188.980	0.9023	ppb	1.4464	160.3	-4.5497
B 249.678	7.2926	ppb	0.2536	3.5	167.503
Ba 389.178	0.0483	ppb	0.3235	670.3	-26.6260
Be 313.042	-0.0228	ppb	0.0019	8.2	-266.860
Ca 370.602	220.7	ppb	2.348	1.1	694.6
Cd 226.502	0.0848	ppb	0.0478	56.4	16.4526
Co 228.615	0.4727	ppb	0.1499	31.7	2.4870
Cr 267.716	3.2788	ppb	0.0497	1.5	205.976
Cu 324.754	0.0024	ppb	0.1465	6096.9	146.496
Fe 271.441	31.4445	ppb	2.0905	6.6	67.6587
K 766.491	1230.64	ppb	5.9041	0.5	53423.3
Mg 279.078	128.390	ppb	3.3134	2.6	354.420
Mn 257.610	0.2426	ppb	0.0013	0.5	123.592
Mo 202.032	6.4373	ppb	0.1838	2.9	61.0470
Na 330.237	36543.9	ppb	278.382	0.8	1543.56
Ni 231.604	1.2324	ppb	0.4645	37.7	0.7081
Pb 220.353	-0.1780	ppb	0.8465	475.6	13.4879
Sb 206.834	-2.4624	ppb	0.8850	35.9	3.7371
Se 196.026	-0.3913	ppb	3.5338	903.0	7.1937
Sn 189.925	0.6531	ppb	0.7360	112.7	-12.3194
Sr 216.596	2.6451	ppb	0.1208	4.6	50.2957
Ti 334.941	0.0559	ppb	0.0212	38.0	-57.1736
Tl 190.794	-1.5958	ppb	0.4751	29.8	-9.4275
V 292.401	53.8599	ppb	0.2215	0.4	1525.03
Zn 206.200	0.1157	ppb	0.8079	698.0	7.1467

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Rack 1, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1133	-0.2340u	-0.0681u
Al 308.215	69.0814	66.9530	71.5517
As 188.980	-1.4302u	-4.0150u	3.0580
B 249.678	14.3679	14.6216	14.7534
Ba 389.178	1.9907	3.5835	3.4713
Be 313.042	-0.0089u	-0.0135u	-0.0165u
Ca 370.602	858.5	858.6	875.3
Cd 226.502	-0.0224u	-0.0697u	0.0249
Co 228.615	0.4271	0.4621	0.2723
Cr 267.716	0.5789	0.6713	0.6502

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Label	Replicates Concentration		
Cu 324.754	-0.0117u	0.1396	-0.2948u
Fe 271.441	12.8209	19.1702	14.5094
K 766.491	201.261	202.788	206.932
Mg 279.078	549.592	546.961	555.486
Mn 257.610	0.3607	0.3660	0.3568
Mo 202.032	3.6812	4.1455	4.1012
Na 330.237	25443.9	25261.7	25924.1
Ni 231.604	0.6989	0.4330	0.7136
Pb 220.353	-0.0436u	0.8284	1.0997
Sb 206.834	-1.8257u	-2.9386u	-0.7139u
Se 196.026	-0.9770u	-2.0260u	-8.2754u
Sn 189.925	1.7463	2.2596	0.8760
Sr 216.596	11.8658	11.4243	11.2166
Ti 334.941	0.1596	0.0509	0.0771
Tl 190.794	-2.8321u	-1.1976u	-0.2733u
V 292.401	19.1977	19.6010	20.2093
Zn 206.200	-0.4171u	0.7787	0.7974

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0629	ppb	0.1737	276.0	-16.7555
Al 308.215	69.1954	ppb	2.3015	3.3	748.499
As 188.980	-0.7957	ppb	3.5789	449.8	-5.8405
B 249.678	14.5809	ppb	0.1959	1.3	268.731
Ba 389.178	3.0152	ppb	0.8890	29.5	49.3546
Be 313.042	-0.0130	ppb	0.0039	29.8	-260.193
Ca 370.602	864.1	ppb	9.682	1.1	2696
Cd 226.502	-0.0224	ppb	0.0473	211.2	10.9888
Co 228.615	0.3872	ppb	0.1010	26.1	1.4136
Cr 267.716	0.6334	ppb	0.0484	7.6	48.4350
Cu 324.754	-0.0556	ppb	0.2205	396.6	143.103
Fe 271.441	15.5002	ppb	3.2885	21.2	39.6763
K 766.491	203.660	ppb	2.9344	1.4	9049.33
Mg 279.078	550.679	ppb	4.3653	0.8	1443.99
Mn 257.610	0.3612	ppb	0.0046	1.3	157.672
Mo 202.032	3.9760	ppb	0.2562	6.4	41.2024
Na 330.237	25543.2	ppb	342.226	1.3	1087.78
Ni 231.604	0.6151	ppb	0.1579	25.7	-1.4817
Pb 220.353	0.6282	ppb	0.5974	95.1	15.0044
Sb 206.834	-1.8261	ppb	1.1123	60.9	4.7027
Se 196.026	-3.7595	ppb	3.9459	105.0	5.5743
Sn 189.925	1.6273	ppb	0.6995	43.0	-11.3840
Sr 216.596	11.5022	ppb	0.3315	2.9	185.853
Ti 334.941	0.0959	ppb	0.0568	59.2	-43.0300
Tl 190.794	-1.4343	ppb	1.2957	90.3	-9.2347
V 292.401	19.6693	ppb	0.5092	2.6	550.571
Zn 206.200	0.3863	ppb	0.6958	180.1	7.5688

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Rack 1, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0032u	-0.0078u	-0.1098u
Al 308.215	-1.2577u	-0.2681u	-1.8489u
As 188.980	-1.3619u	5.9694	0.1740

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Label	Replicates Concentration		
B 249.678	47.8029	47.8127	48.2961
Ba 389.178	2.2303	2.2863	1.7188
Be 313.042	-0.0047u	-0.0128u	-0.0131u
Ca 370.602	4658	4667	4671
Cd 226.502	-0.0836u	0.0063	0.1185
Co 228.615	0.7923	0.4794	1.2085
Cr 267.716	0.4804	0.6598	0.5538
Cu 324.754	-0.2714u	0.0549	-0.4990u
Fe 271.441	6.7158	8.5416	10.3427
K 766.491	347.271	348.431	348.907
Mg 279.078	1839.22	1844.25	1844.15
Mn 257.610	0.5933	0.6269	0.6171
Mo 202.032	10.4371	10.5118	10.4428
Na 330.237	25597.0	25516.9	25833.5
Ni 231.604	2.7289	1.6410	1.2068
Pb 220.353	-0.8919u	0.8295	1.9649
Sb 206.834	2.0137	-3.8239u	-0.5612u
Se 196.026	-4.0280u	-3.7355u	3.9162
Sn 189.925	1.0813	2.1365	0.2181
Sr 216.596	32.7502	32.7000	32.7596
Ti 334.941	-0.0092	0.0727	0.0018
Tl 190.794	-3.6414u	-0.7295u	-2.8305u
V 292.401	2.7345	2.3141	2.7876
Zn 206.200	0.6201	-0.3190u	-0.8661u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0403	ppb	0.0603	149.7	-16.1088
Al 308.215	-1.1249	ppb	0.7987	71.0	261.428
As 188.980	1.5938	ppb	3.8664	242.6	-4.0272
B 249.678	47.9705	ppb	0.2820	0.6	732.336
Ba 389.178	2.0785	ppb	0.3127	15.0	29.3221
Be 313.042	-0.0102	ppb	0.0048	46.6	-261.946
Ca 370.602	4665	ppb	6.797	0.1	14514
Cd 226.502	0.0138	ppb	0.1013	736.5	12.8175
Co 228.615	0.8267	ppb	0.3658	44.2	7.0696
Cr 267.716	0.5647	ppb	0.0902	16.0	44.5356
Cu 324.754	-0.2385	ppb	0.2784	116.7	131.758
Fe 271.441	8.5334	ppb	1.8135	21.3	27.4890
K 766.491	348.203	ppb	0.8418	0.2	15294.8
Mg 279.078	1842.54	ppb	2.8786	0.2	4777.12
Mn 257.610	0.6124	ppb	0.0173	2.8	233.448
Mo 202.032	10.4639	ppb	0.0416	0.4	93.7408
Na 330.237	25649.1	ppb	164.647	0.6	1092.17
Ni 231.604	1.8589	ppb	0.7841	42.2	2.9286
Pb 220.353	0.6342	ppb	1.4384	226.8	15.0068
Sb 206.834	-0.7905	ppb	2.9255	370.1	6.0933
Se 196.026	-1.2824	ppb	4.5045	351.2	6.7650
Sn 189.925	1.1453	ppb	0.9608	83.9	-11.8467
Sr 216.596	32.7366	ppb	0.0320	0.1	510.987
Ti 334.941	0.0218	ppb	0.0445	204.4	-58.3818
Tl 190.794	-2.4005	ppb	1.5028	62.6	-10.5172
V 292.401	2.6120	ppb	0.2594	9.9	62.9899
Zn 206.200	-0.1883	ppb	0.7517	399.1	6.6812

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3219u	0.0637	0.0513
Al 308.215	-1.6279u	-2.4565u	-1.9294u
As 188.980	-0.7205u	0.2513	-3.2542u
B 249.678	64.1927	63.4236	60.8721
Ba 389.178	2.7291	2.3751	3.0326
Be 313.042	-0.0125u	-0.0111u	-0.0107u
Ca 370.602	5413	5263	5078
Cd 226.502	0.1466	0.0148	0.0374
Co 228.615	-0.2310u	0.4455	0.5106
Cr 267.716	1.1219	1.2599	1.0742
Cu 324.754	-0.3254u	-0.2670u	-0.3302u
Fe 271.441	29.6573	30.1371	23.1957
K 766.491	883.345	863.424	837.147
Mg 279.078	2401.17	2328.97	2246.41
Mn 257.610	14.4300	13.9367	13.4774
Mo 202.032	39.6108	38.5921	36.4148
Na 330.237	29524.7	28591.2	27784.0
Ni 231.604	0.7485	1.9820	1.6271
Pb 220.353	1.5302	-0.7209u	-1.7106u
Sb 206.834	-2.9640u	-3.0187u	0.6492
Se 196.026	4.8347	-2.1313u	-4.2834u
Sn 189.925	-1.2788u	0.4029	1.8434
Sr 216.596	35.7337	34.6627	34.0510
Ti 334.941	-0.0159	0.0398	0.0142
Tl 190.794	-1.6414u	-2.6368u	-0.7118u
V 292.401	7.2564	7.2290	6.5212
Zn 206.200	-1.2384u	0.2168	0.0324

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0690	ppb	0.2191	317.7	-18.5038
Al 308.215	-2.0046	ppb	0.4194	20.9	256.447
As 188.980	-1.2412	ppb	1.8098	145.8	-6.1913
B 249.678	62.8295	ppb	1.7382	2.8	938.602
Ba 389.178	2.7123	ppb	0.3291	12.1	46.8965
Be 313.042	-0.0114	ppb	0.0009	8.1	-267.372
Ca 370.602	5251	ppb	168.1	3.2	16335
Cd 226.502	0.0663	ppb	0.0705	106.4	15.5727
Co 228.615	0.2417	ppb	0.4107	169.9	-1.6229
Cr 267.716	1.1520	ppb	0.0964	8.4	79.6455
Cu 324.754	-0.3075	ppb	0.0352	11.4	128.245
Fe 271.441	27.6633	ppb	3.8766	14.0	60.6117
K 766.491	861.305	ppb	23.1713	2.7	37465.1
Mg 279.078	2325.52	ppb	77.4390	3.3	6022.97
Mn 257.610	13.9480	ppb	0.4764	3.4	3646.97
Mo 202.032	38.2059	ppb	1.6326	4.3	318.226
Na 330.237	28633.3	ppb	871.081	3.0	1215.82
Ni 231.604	1.4525	ppb	0.6350	43.7	1.4895
Pb 220.353	-0.3004	ppb	1.6608	552.8	13.2171
Sb 206.834	-1.7778	ppb	2.1021	118.2	3.9318
Se 196.026	-0.5267	ppb	4.7661	904.9	7.1319
Sn 189.925	0.3225	ppb	1.5627	484.5	-12.6384
Sr 216.596	34.8158	ppb	0.8517	2.4	542.403

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0127	ppb	0.0279	219.6	-58.9830
Tl 190.794	-1.6633	ppb	0.9627	57.9	-9.5739
V 292.401	7.0022	ppb	0.4168	6.0	183.297
Zn 206.200	-0.3297	ppb	0.7923	240.3	6.4615

680-97080-a-8-a (Samp) **12/18/2013, 6:26:14 PM** **Rack 1, Tube 46**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0213u	-0.0965u	0.0847
Al 308.215	-1.2065u	1.1615	-0.5793u
As 188.980	1.8991	1.4209	1.7519
B 249.678	52.9288	52.3806	51.5477
Ba 389.178	1.7932	2.1190	2.1646
Be 313.042	-0.0175u	-0.0085u	-0.0052u
Ca 370.602	2933	2882	2821
Cd 226.502	0.1516	0.0931	-0.0180u
Co 228.615	0.2729	0.0987	-0.0531u
Cr 267.716	0.8339	0.9795	0.9602
Cu 324.754	0.0501	-0.5000u	-0.2722u
Fe 271.441	32.4914	27.0878	23.8426
K 766.491	527.181	521.384	506.488
Mg 279.078	1699.93	1675.85	1638.21
Mn 257.610	6.0670	5.9228	5.8059
Mo 202.032	36.8775	35.5948	34.0790
Na 330.237	35625.9	35454.9	34540.4
Ni 231.604	0.8158	1.4759	0.8545
Pb 220.353	1.4548	-2.0721u	0.9788
Sb 206.834	-4.1868u	1.8747	-2.6611u
Se 196.026	-2.6659u	-4.3385u	0.2444
Sn 189.925	-0.3038u	3.7538	2.6990
Sr 216.596	22.7626	22.8463	22.2945
Ti 334.941	-0.0196u	-0.0129	0.0029
Tl 190.794	0.5470	-0.2638u	-1.9662u
V 292.401	9.4806	9.0732	9.1209
Zn 206.200	-0.4255u	-0.2664u	-0.7117u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0110	ppb	0.0910	825.2	-13.0647
Al 308.215	-0.2081	ppb	1.2269	589.6	268.521
As 188.980	1.6906	ppb	0.2449	14.5	-3.9621
B 249.678	52.2857	ppb	0.6954	1.3	792.210
Ba 389.178	2.0256	ppb	0.2025	10.0	27.7089
Be 313.042	-0.0104	ppb	0.0064	61.4	-265.458
Ca 370.602	2879	ppb	56.12	1.9	8958
Cd 226.502	0.0756	ppb	0.0862	114.0	15.9863
Co 228.615	0.1062	ppb	0.1631	153.6	-3.3487
Cr 267.716	0.9245	ppb	0.0791	8.6	66.1423
Cu 324.754	-0.2407	ppb	0.2764	114.8	132.432
Fe 271.441	27.8073	ppb	4.3691	15.7	60.8652
K 766.491	518.351	ppb	10.6746	2.1	22646.6
Mg 279.078	1671.33	ppb	31.1061	1.9	4335.27
Mn 257.610	5.9319	ppb	0.1308	2.2	1591.84
Mo 202.032	35.5171	ppb	1.4008	3.9	296.463

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	35207.1	ppb	583.667	1.7	1488.18
Ni 231.604	1.0488	ppb	0.3705	35.3	0.0577
Pb 220.353	0.1205	ppb	1.9137	1588.4	14.0086
Sb 206.834	-1.6578	ppb	3.1528	190.2	4.1749
Se 196.026	-2.2533	ppb	2.3191	102.9	6.2999
Sn 189.925	2.0497	ppb	2.1053	102.7	-10.9723
Sr 216.596	22.6345	ppb	0.2974	1.3	355.825
Ti 334.941	-0.0099	ppb	0.0116	117.5	-68.8957
Tl 190.794	-0.5610	ppb	1.2827	228.6	-8.1180
V 292.401	9.2249	ppb	0.2227	2.4	247.102
Zn 206.200	-0.4679	ppb	0.2257	48.2	6.2483

680-97080-a-9-a (Samp)

12/18/2013, 6:31:00 PM

Rack 1, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0192	-0.2179u	0.1108
Al 308.215	1.9552	3.7604	3.2879
As 188.980	-1.0608u	1.3484	1.1325
B 249.678	29.2911	30.4926	30.2539
Ba 389.178	2.0143	1.6993	1.5763
Be 313.042	-0.0108u	-0.0101u	-0.0126u
Ca 370.602	2361	2320	2288
Cd 226.502	0.0792	0.1714	-0.0254u
Co 228.615	0.3625	0.4859	0.7191
Cr 267.716	78.9457	78.1073	76.9447
Cu 324.754	0.0776	0.0093	-0.1731u
Fe 271.441	13.5535	11.2891	14.2802
K 766.491	319.661	314.846	310.518
Mg 279.078	1943.58	1929.57	1887.13
Mn 257.610	9.2340	9.2096	9.0164
Mo 202.032	10.6527	11.0846	10.7299
Na 330.237	26740.6	26522.9	26166.7
Ni 231.604	0.0736	0.2837	0.6884
Pb 220.353	-0.9365u	-0.8656u	0.8196
Sb 206.834	-0.3211	-0.4182	-0.3273
Se 196.026	1.7863	3.8654	-6.3323u
Sn 189.925	2.5987	1.6840	2.4236
Sr 216.596	16.7584	16.4653	16.5290
Ti 334.941	-0.0288u	0.0291	-0.0114
Tl 190.794	-3.4802u	-2.2046u	-4.1514u
V 292.401	19.9859	20.0723	19.3804
Zn 206.200	-1.3236u	-0.1604u	0.1784

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0293	ppb	0.1696	578.5	-14.1798
Al 308.215	3.0011	ppb	0.9362	31.2	288.058
As 188.980	0.4734	ppb	1.3330	281.6	-4.8789
B 249.678	30.0125	ppb	0.6361	2.1	482.991
Ba 389.178	1.7633	ppb	0.2259	12.8	21.6382
Be 313.042	-0.0112	ppb	0.0013	11.7	-257.335
Ca 370.602	2323	ppb	36.77	1.6	7233
Cd 226.502	0.0751	ppb	0.0985	131.1	15.9617
Co 228.615	0.5225	ppb	0.1811	34.7	3.2921

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	77.9992	ppb	1.0049	1.3	4661.48
Cu 324.754	-0.0288	ppb	0.1296	450.5	145.076
Fe 271.441	13.0409	ppb	1.5600	12.0	35.6039
K 766.491	315.008	ppb	4.5735	1.5	13860.5
Mg 279.078	1920.09	ppb	29.3909	1.5	4977.03
Mn 257.610	9.1533	ppb	0.1192	1.3	2417.54
Mo 202.032	10.8224	ppb	0.2303	2.1	96.6057
Na 330.237	26476.8	ppb	289.730	1.1	1126.48
Ni 231.604	0.3486	ppb	0.3125	89.6	-2.4276
Pb 220.353	-0.3275	ppb	0.9940	303.5	13.2049
Sb 206.834	-0.3555	ppb	0.0544	15.3	8.1460
Se 196.026	-0.2269	ppb	5.3887	2375.2	7.2746
Sn 189.925	2.2354	ppb	0.4855	21.7	-10.7968
Sr 216.596	16.5842	ppb	0.1541	0.9	263.683
Ti 334.941	-0.0037	ppb	0.0297	797.6	-65.3929
Tl 190.794	-3.2787	ppb	0.9889	30.2	-11.6667
V 292.401	19.8129	ppb	0.3770	1.9	549.557
Zn 206.200	-0.4352	ppb	0.7878	181.0	6.1946

680-97080-a-10-a (Samp)

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Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0635u	-0.1509u	0.0246
Al 308.215	4.3819	3.0524	2.6218
As 188.980	-0.0703u	2.4814	-4.2829u
B 249.678	32.4850	30.6877	31.2226
Ba 389.178	1.9393	0.8834	0.9280
Be 313.042	-0.0106u	-0.0098u	-0.0171u
Ca 370.602	1541	1495	1445
Cd 226.502	-0.0145u	-0.0234u	0.0699
Co 228.615	-0.0372u	0.6630	0.0578
Cr 267.716	109.258	105.738	102.820
Cu 324.754	-0.5659u	-0.1595u	0.1644
Fe 271.441	5.7034	12.0156	9.1683
K 766.491	359.724	349.532	338.185
Mg 279.078	1288.68	1235.83	1206.37
Mn 257.610	1.8195	1.7710	1.6998
Mo 202.032	8.1206	8.0283	7.6435
Na 330.237	25931.1	25135.4	24762.5
Ni 231.604	-0.9456u	0.9993	0.9072
Pb 220.353	-0.2238u	1.7260	-0.5437u
Sb 206.834	-1.0740	-3.8514u	-4.7627u
Se 196.026	2.2632	-1.9528u	-6.9768u
Sn 189.925	3.2542	3.7464	-1.5317u
Sr 216.596	12.5529	12.1234	11.9753
Ti 334.941	-0.0369u	0.0084	0.0444
Tl 190.794	-1.0646u	-1.8378u	-4.1354u
V 292.401	16.6190	15.6407	15.4013
Zn 206.200	0.1632	-1.1114u	-1.1250u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0633	ppb	0.0877	138.6	-16.8385
Al 308.215	3.3520	ppb	0.9175	27.4	290.819

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-0.6239	ppb	3.4160	547.5	-5.7119
B 249.678	31.4651	ppb	0.9229	2.9	503.171
Ba 389.178	1.2503	ppb	0.5972	47.8	6.7498
Be 313.042	-0.0125	ppb	0.0040	32.1	-261.526
Ca 370.602	1493	ppb	48.23	3.2	4653
Cd 226.502	0.0107	ppb	0.0515	481.8	12.6513
Co 228.615	0.2279	ppb	0.3798	166.7	-0.4401
Cr 267.716	105.938	ppb	3.2235	3.0	6327.36
Cu 324.754	-0.1870	ppb	0.3659	195.7	134.820
Fe 271.441	8.9624	ppb	3.1611	35.3	28.5257
K 766.491	349.147	ppb	10.7749	3.1	15335.6
Mg 279.078	1243.63	ppb	41.7047	3.4	3231.85
Mn 257.610	1.7634	ppb	0.0602	3.4	522.351
Mo 202.032	7.9308	ppb	0.2530	3.2	73.2148
Na 330.237	25276.3	ppb	596.920	2.4	1076.75
Ni 231.604	0.3203	ppb	1.0973	342.6	-2.5273
Pb 220.353	0.3195	ppb	1.2285	384.5	14.4206
Sb 206.834	-3.2294	ppb	1.9214	59.5	4.4104
Se 196.026	-2.2221	ppb	4.6259	208.2	6.3135
Sn 189.925	1.8230	ppb	2.9156	159.9	-11.1952
Sr 216.596	12.2172	ppb	0.3000	2.5	196.816
Ti 334.941	0.0053	ppb	0.0407	767.3	-65.8046
Tl 190.794	-2.3459	ppb	1.5972	68.1	-10.4375
V 292.401	15.8870	ppb	0.6451	4.1	436.709
Zn 206.200	-0.6911	ppb	0.7398	107.1	5.7621

Cont Calib Verif (CCV) 12/18/2013, 6:40:32 PM Rack 1, Tube 49

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	487.064	490.440	488.559
Al 308.215	4733.02	4718.84	4715.21
As 188.980	496.580	505.160	494.929
B 249.678	475.889	477.747	476.976
Ba 389.178	4918.45	4907.59	4902.77
Be 313.042	486.692	484.912	484.928
Ca 370.602	4673	4660	4653
Cd 226.502	489.535	488.650	486.575
Co 228.615	492.484	489.708	486.933
Cr 267.716	4934.83	4926.68	4912.84
Cu 324.754	4867.40	4856.54	4888.06
Fe 271.441	4915.08	4903.01	4886.92
K 766.491	9750.25	9716.63	9725.67
Mg 279.078	4957.13	4956.50	4950.25
Mn 257.610	4855.57	4852.86	4839.05
Mo 202.032	505.210	502.489	500.655
Na 330.237	7431.85	7291.03	7249.23
Ni 231.604	2383.77	2379.91	2382.19
Pb 220.353	483.270	481.591	475.571
Sb 206.834	949.231	948.515	943.994
Se 196.026	4875.46	4860.34	4845.65
Sn 189.925	4968.78	4970.08	4966.95
Sr 216.596	2460.64	2453.51	2445.98
Ti 334.941	474.425	473.396	473.050

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Label	Replicates Concentration		
Tl 190.794	4911.91	4890.19	4886.67
V 292.401	4919.40	4905.35	4904.80
Zn 206.200	2442.15	2434.83	2423.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	488.688	ppb	1.6921	0.3	40581.3	97.73753
Al 308.215	4722.35	ppb	9.4098	0.2	32564.8	94.44710
As 188.980	498.889	ppb	5.4926	1.1	373.783	99.77790
B 249.678	476.871	ppb	0.9335	0.2	6677.71	95.37416
Ba 389.178	4909.60	ppb	8.0298	0.2	123991	98.19205
Be 313.042	485.511	ppb	1.0227	0.2	997276	97.10214
Ca 370.602	4662	ppb	9.957	0.2	14549	93.23681
Cd 226.502	488.253	ppb	1.5194	0.3	24902.3	97.65066
Co 228.615	489.708	ppb	2.7753	0.6	6541.49	97.94161
Cr 267.716	4924.78	ppb	11.1172	0.2	293619	98.49570
Cu 324.754	4870.66	ppb	16.0118	0.3	314170	97.41327
Fe 271.441	4901.67	ppb	14.1256	0.3	8612.72	98.03341
K 766.491	9730.85	ppb	17.4008	0.2	420703	97.30850
Mg 279.078	4954.63	ppb	3.8064	0.1	12708.7	99.09258
Mn 257.610	4849.16	ppb	8.8629	0.2	1239767	96.98322
Mo 202.032	502.785	ppb	2.2916	0.5	4067.12	100.55692
Na 330.237	7324.04	ppb	95.6803	1.3	295.490	97.65381
Ni 231.604	2381.96	ppb	1.9357	0.1	8444.11	95.27822
Pb 220.353	480.144	ppb	4.0483	0.8	914.709	96.02879
Sb 206.834	947.247	ppb	2.8397	0.3	1511.80	94.72467
Se 196.026	4860.48	ppb	14.9063	0.3	2345.14	97.20967
Sn 189.925	4968.60	ppb	1.5752	0.0	4776.35	99.37209
Sr 216.596	2453.38	ppb	7.3344	0.3	37454.4	98.13516
Ti 334.941	473.624	ppb	0.7151	0.2	135792	94.72474
Tl 190.794	4896.26	ppb	13.6730	0.3	6425.94	97.92511
V 292.401	4909.85	ppb	8.2789	0.2	139690	98.19696
Zn 206.200	2433.51	ppb	9.3690	0.4	3760.05	97.34048

Cont Calib Blank (CCB)

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Rack 1, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1294u	0.1551	0.0571
Al 308.215	-2.9810u	-3.2529u	-2.7816u
As 188.980	1.0604	1.2891	-3.0600u
B 249.678	2.2368	1.1812	2.0463
Ba 389.178	-0.4142u	-0.2670u	-0.3878u
Be 313.042	0.0007	-0.0013u	-0.0007u
Ca 370.602	-0.3719u	1.252	2.188
Cd 226.502	0.0821	0.0673	0.0527
Co 228.615	-0.1215u	-0.4713u	-0.0248u
Cr 267.716	0.1587	0.1146	0.3241
Cu 324.754	-0.3156u	-0.3803u	-0.0234u
Fe 271.441	10.4116	9.1032	9.0962
K 766.491	1.1180	0.9215	1.0617
Mg 279.078	1.7840	1.7642	1.4333
Mn 257.610	0.0817	0.0547	0.0419
Mo 202.032	0.3059	0.9015	0.5636
Na 330.237	-157.639u	-73.6701u	-38.7589u

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Label	Replicates Concentration		
Ni 231.604	0.3203	0.2465	0.1085
Pb 220.353	-0.4988u	0.4760	-1.6255u
Sb 206.834	1.1338	0.4120	0.7431
Se 196.026	-2.8046u	4.3459	-3.0897u
Sn 189.925	4.8450	2.5620	1.7866
Sr 216.596	-0.0198u	0.1062	-0.0729u
Ti 334.941	0.1705	0.1803	0.1484
Tl 190.794	4.8001	-0.0681u	-1.1914u
V 292.401	-0.0801u	0.2225	0.2172
Zn 206.200	-1.4269u	-1.5230u	-1.1367u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0276	ppb	0.1445	523.6	-8.7376	0.02760
Al 308.215	-3.0052	ppb	0.2366	7.9	248.057	-3.00516
As 188.980	-0.2368	ppb	2.4476	1033.4	-5.4154	-0.23685
B 249.678	1.8215	ppb	0.5626	30.9	91.5906	1.82146
Ba 389.178	-0.3563	ppb	0.0785	22.0	-37.4078	-0.35633
Be 313.042	-0.0004	ppb	0.0010	242.9	-240.236	-0.00043
Ca 370.602	1.023	ppb	1.295	126.7	13.41	1.02264
Cd 226.502	0.0674	ppb	0.0147	21.8	15.6858	0.06736
Co 228.615	-0.2059	ppb	0.2349	114.1	-6.3917	-0.20587
Cr 267.716	0.1991	ppb	0.1105	55.5	22.2663	0.19914
Cu 324.754	-0.2398	ppb	0.1901	79.3	131.357	-0.23976
Fe 271.441	9.5370	ppb	0.7574	7.9	29.0781	9.53699
K 766.491	1.0337	ppb	0.1012	9.8	294.181	1.03374
Mg 279.078	1.6605	ppb	0.1970	11.9	27.5166	1.66049
Mn 257.610	0.0594	ppb	0.0203	34.2	75.7549	0.05945
Mo 202.032	0.5904	ppb	0.2987	50.6	13.8470	0.59037
Na 330.237	-90.0225	ppb	61.1035	67.9	25.7846	-90.02253
Ni 231.604	0.2251	ppb	0.1075	47.8	-2.8639	0.22507
Pb 220.353	-0.5495	ppb	1.0516	191.4	12.8015	-0.54946
Sb 206.834	0.7629	ppb	0.3614	47.4	8.6602	0.76295
Se 196.026	-0.5161	ppb	4.2131	816.3	7.1332	-0.51614
Sn 189.925	3.0645	ppb	1.5899	51.9	-10.0084	3.06455
Sr 216.596	0.0045	ppb	0.0920	2037.0	9.9637	0.00452
Ti 334.941	0.1664	ppb	0.0163	9.8	-23.5064	0.16638
Tl 190.794	1.1802	ppb	3.1848	269.9	-5.8109	1.18020
V 292.401	0.1199	ppb	0.1732	144.5	-6.1770	0.11986
Zn 206.200	-1.3622	ppb	0.2011	14.8	4.8680	-1.36220

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Rack 1, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0290u	-0.3314u	0.1118
Al 308.215	-1.3832u	-2.3806u	0.5615
As 188.980	1.9533	1.5205	1.2327
B 249.678	32.7786	31.6656	30.9089
Ba 389.178	4.0156	2.7668	3.1583
Be 313.042	-0.0132u	-0.0035u	-0.0043u
Ca 370.602	3586	3453	3341
Cd 226.502	0.1240	0.1680	0.0527
Co 228.615	0.4352	0.4659	0.4786
Cr 267.716	0.8566	0.6863	0.6692

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Label	Replicates Concentration		
Cu 324.754	-0.0243u	-0.2590u	-0.3544u
Fe 271.441	17.7029	12.2755	10.8844
K 766.491	311.201	299.629	289.970
Mg 279.078	1212.23	1165.49	1117.71
Mn 257.610	64.0708	61.6860	59.6750
Mo 202.032	24.9010	23.6870	23.1782
Na 330.237	15010.9	14486.1	14035.8
Ni 231.604	0.1496	0.1115	-0.2376u
Pb 220.353	-0.5203u	1.0456	-1.8429u
Sb 206.834	-0.0625u	0.9405	1.4324
Se 196.026	2.3486	-0.0760u	-3.6980u
Sn 189.925	1.7679	1.7667	1.2192
Sr 216.596	19.5942	18.8764	18.1778
Ti 334.941	0.1091	0.1137	0.1396
Tl 190.794	-0.6176u	-2.3766u	-1.9871u
V 292.401	0.4889	0.2556	0.4845
Zn 206.200	0.0132	-0.4969u	-0.1720u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0829	ppb	0.2265	273.3	-18.5986
Al 308.215	-1.0674	ppb	1.4963	140.2	262.918
As 188.980	1.5688	ppb	0.3627	23.1	-4.0506
B 249.678	31.7844	ppb	0.9405	3.0	507.599
Ba 389.178	3.3136	ppb	0.6387	19.3	58.6922
Be 313.042	-0.0070	ppb	0.0054	77.1	-257.890
Ca 370.602	3460	ppb	122.6	3.5	10769
Cd 226.502	0.1149	ppb	0.0582	50.7	18.0404
Co 228.615	0.4599	ppb	0.0223	4.9	1.7472
Cr 267.716	0.7374	ppb	0.1036	14.0	54.9766
Cu 324.754	-0.2126	ppb	0.1699	79.9	133.937
Fe 271.441	13.6209	ppb	3.6029	26.5	36.2459
K 766.491	300.266	ppb	10.6301	3.5	13223.5
Mg 279.078	1165.14	ppb	47.2580	4.1	3028.17
Mn 257.610	61.8106	ppb	2.2005	3.6	15872.3
Mo 202.032	23.9221	ppb	0.8851	3.7	202.653
Na 330.237	14510.9	ppb	488.050	3.4	630.711
Ni 231.604	0.0078	ppb	0.2134	2724.0	-3.6362
Pb 220.353	-0.4392	ppb	1.4460	329.2	12.9885
Sb 206.834	0.7701	ppb	0.7619	98.9	8.0999
Se 196.026	-0.4751	ppb	3.0430	640.5	7.1679
Sn 189.925	1.5846	ppb	0.3164	20.0	-11.4279
Sr 216.596	18.8828	ppb	0.7083	3.8	298.758
Ti 334.941	0.1208	ppb	0.0164	13.6	-32.2793
Tl 190.794	-1.6604	ppb	0.9238	55.6	-9.5930
V 292.401	0.4096	ppb	0.1334	32.6	-2.1056
Zn 206.200	-0.2185	ppb	0.2583	118.2	6.6342

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Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0676	0.1727	0.5199
Al 308.215	-2.0293u	-1.3858u	-0.6764u
As 188.980	-1.3479u	1.6307	3.3842

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Label	Replicates Concentration		
B 249.678	6.5485	6.8695	7.2416
Ba 389.178	8.8315	8.8274	8.5295
Be 313.042	-0.0141u	-0.0159u	-0.0125u
Ca 370.602	3463	3432	3402
Cd 226.502	0.1861	0.0402	0.0825
Co 228.615	-0.2543u	0.1043	0.3432
Cr 267.716	64.8268	64.4265	63.4365
Cu 324.754	-0.5715u	0.0553	0.2041
Fe 271.441	29.3245	23.2204	30.6575
K 766.491	299.763	295.931	293.412
Mg 279.078	2852.51	2831.16	2789.88
Mn 257.610	0.7917	0.7778	0.8050
Mo 202.032	21.4090	21.1756	21.2141
Na 330.237	12886.0	13194.6	12931.0
Ni 231.604	0.8045	0.8358	0.6695
Pb 220.353	-2.9127u	-1.1219u	0.8826
Sb 206.834	-3.2613u	-2.1931u	-4.2705u
Se 196.026	-6.5650u	-3.5665u	0.9357
Sn 189.925	0.2634	3.1140	1.8106
Sr 216.596	20.7437	20.9374	20.4742
Ti 334.941	0.0209	-0.0152	0.0213
Tl 190.794	-1.8528u	0.5015	-4.7271u
V 292.401	8.7420	8.4546	8.1813
Zn 206.200	-0.7766u	-1.5268u	-1.0371u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2534	ppb	0.2367	93.4	8.9777
Al 308.215	-1.3638	ppb	0.6768	49.6	259.719
As 188.980	1.2224	ppb	2.3923	195.7	-4.3133
B 249.678	6.8865	ppb	0.3469	5.0	161.877
Ba 389.178	8.7295	ppb	0.1732	2.0	200.167
Be 313.042	-0.0142	ppb	0.0017	11.8	-268.484
Ca 370.602	3432	ppb	30.21	0.9	10680
Cd 226.502	0.1030	ppb	0.0751	72.9	17.5476
Co 228.615	0.0644	ppb	0.3008	467.0	-3.2088
Cr 267.716	64.2299	ppb	0.7157	1.1	3840.31
Cu 324.754	-0.1040	ppb	0.4116	395.7	140.750
Fe 271.441	27.7341	ppb	3.9654	14.3	60.8433
K 766.491	296.369	ppb	3.1980	1.1	13055.1
Mg 279.078	2824.52	ppb	31.8364	1.1	7310.69
Mn 257.610	0.7915	ppb	0.0136	1.7	288.126
Mo 202.032	21.2663	ppb	0.1251	0.6	181.143
Na 330.237	13003.9	ppb	166.710	1.3	568.280
Ni 231.604	0.7700	ppb	0.0884	11.5	-0.9312
Pb 220.353	-1.0507	ppb	1.8987	180.7	11.8319
Sb 206.834	-3.2416	ppb	1.0388	32.0	3.3070
Se 196.026	-3.0653	ppb	3.7754	123.2	5.9083
Sn 189.925	1.7293	ppb	1.4270	82.5	-11.2889
Sr 216.596	20.7184	ppb	0.2327	1.1	326.873
Ti 334.941	0.0090	ppb	0.0210	233.9	-56.6583
Tl 190.794	-2.0261	ppb	2.6186	129.2	-10.0320
V 292.401	8.4593	ppb	0.2803	3.3	224.724
Zn 206.200	-1.1135	ppb	0.3809	34.2	5.1650

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Label	Replicates Concentration		
Ag 328.068	0.0079	-0.1340u	0.0424
Al 308.215	-3.6085u	-0.8650u	-2.5329u
As 188.980	2.4255	-1.3879u	1.5446
B 249.678	0.5354	1.1515	0.3094
Ba 389.178	0.9342	0.0846	0.5267
Be 313.042	-0.0140u	-0.0095u	-0.0076u
Ca 370.602	1064	1057	1049
Cd 226.502	-0.0380u	-0.0963u	0.0555
Co 228.615	0.2482	-0.4149u	-0.1475u
Cr 267.716	-0.0444u	0.1083	0.1339
Cu 324.754	0.0998	-0.2454u	0.0125
Fe 271.441	48.0165	54.5022	50.6194
K 766.491	325.260	323.797	321.840
Mg 279.078	142.837	140.587	141.861
Mn 257.610	4.2389	4.2000	4.1955
Mo 202.032	0.3184	-0.1310u	0.6166
Na 330.237	741.743	782.442	670.637
Ni 231.604	1.0195	1.2610	1.8264
Pb 220.353	-1.5063u	0.5110	-0.7717u
Sb 206.834	-1.4280u	-2.0489u	-1.2479u
Se 196.026	-1.0713u	-6.8015u	1.3641
Sn 189.925	1.0822	2.5943	0.2319
Sr 216.596	3.9926	4.0633	3.7011
Ti 334.941	0.0667	0.0821	0.1193
Tl 190.794	-2.1059u	-1.2965u	-0.7777u
V 292.401	-0.2935u	0.2819	0.2815
Zn 206.200	0.4359	-0.2953u	0.6113

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0279	ppb	0.0935	335.2	-13.5595
Al 308.215	-2.3354	ppb	1.3824	59.2	252.698
As 188.980	0.8607	ppb	1.9966	232.0	-4.5816
B 249.678	0.6654	ppb	0.4358	65.5	75.4518
Ba 389.178	0.5152	ppb	0.4249	82.5	-14.9317
Be 313.042	-0.0104	ppb	0.0033	31.7	-260.307
Ca 370.602	1057	ppb	7.288	0.7	3291
Cd 226.502	-0.0263	ppb	0.0766	291.6	11.1196
Co 228.615	-0.1047	ppb	0.3336	318.7	-5.0297
Cr 267.716	0.0660	ppb	0.0964	146.1	14.3769
Cu 324.754	-0.0444	ppb	0.1795	404.3	143.960
Fe 271.441	51.0460	ppb	3.2639	6.4	100.930
K 766.491	323.632	ppb	1.7155	0.5	14233.1
Mg 279.078	141.762	ppb	1.1285	0.8	388.906
Mn 257.610	4.2115	ppb	0.0239	0.6	1138.59
Mo 202.032	0.2680	ppb	0.3764	140.4	11.2356
Na 330.237	731.607	ppb	56.5874	7.7	59.7989
Ni 231.604	1.3690	ppb	0.4142	30.3	1.1945
Pb 220.353	-0.5890	ppb	1.0210	173.3	12.7325
Sb 206.834	-1.5749	ppb	0.4202	26.7	5.1639
Se 196.026	-2.1695	ppb	4.1921	193.2	6.3401
Sn 189.925	1.3028	ppb	1.1965	91.8	-11.7057
Sr 216.596	3.9190	ppb	0.1920	4.9	70.0573

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0894	ppb	0.0270	30.2	-44.9944
Tl 190.794	-1.3934	ppb	0.6694	48.0	-9.1993
V 292.401	0.0900	ppb	0.3321	369.1	-6.9487
Zn 206.200	0.2506	ppb	0.4809	191.9	7.3591

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3635	0.1018	-0.3056u
Al 308.215	-2.1650u	-2.4362u	-3.4224u
As 188.980	2.9540	-0.6699u	-0.1327u
B 249.678	30.7820	30.0660	29.2305
Ba 389.178	4.8480	5.1171	5.6582
Be 313.042	-0.0118u	-0.0105u	-0.0181u
Ca 370.602	12308	11963	11754
Cd 226.502	0.0483	0.0035	0.0692
Co 228.615	0.9133	0.3975	0.5382
Cr 267.716	0.2934	0.6343	0.3605
Cu 324.754	-0.3437u	-0.0798u	-0.3518u
Fe 271.441	157.628	157.328	162.551
K 766.491	7458.62	7237.97	7098.42
Mg 279.078	3422.26	3332.68	3284.28
Mn 257.610	36.9863	35.9844	35.4248
Mo 202.032	24.4150	24.3455	23.8987
Na 330.237	15084.8	14538.3	14367.8
Ni 231.604	1.8762	0.6121	1.9749
Pb 220.353	-1.4427u	-1.7137u	0.8578
Sb 206.834	-2.1971u	-2.0500u	-2.1401u
Se 196.026	-2.6042u	-8.0866u	2.1177
Sn 189.925	-0.0615u	0.5882	0.2396
Sr 216.596	62.1012	60.4869	59.1031
Ti 334.941	0.1001	-0.0126	0.0479
Tl 190.794	-1.1073u	-0.9270u	-3.5721u
V 292.401	0.1921	0.2238	0.0576u
Zn 206.200	0.9266	0.0120	1.0525

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0532	ppb	0.3372	633.8	-9.6995
Al 308.215	-2.6745	ppb	0.6617	24.7	251.788
As 188.980	0.7171	ppb	1.9557	272.7	-4.6999
B 249.678	30.0262	ppb	0.7765	2.6	482.921
Ba 389.178	5.2077	ppb	0.4127	7.9	112.878
Be 313.042	-0.0135	ppb	0.0041	30.3	-268.398
Ca 370.602	12008	ppb	280.0	2.3	37331
Cd 226.502	0.0403	ppb	0.0336	83.3	14.9362
Co 228.615	0.6163	ppb	0.2666	43.3	3.8285
Cr 267.716	0.4294	ppb	0.1806	42.0	36.5239
Cu 324.754	-0.2584	ppb	0.1547	59.9	131.056
Fe 271.441	159.169	ppb	2.9326	1.8	288.163
K 766.491	7265.00	ppb	181.618	2.5	314158
Mg 279.078	3346.41	ppb	70.0071	2.1	8656.50
Mn 257.610	36.1318	ppb	0.7912	2.2	9327.66
Mo 202.032	24.2197	ppb	0.2802	1.2	205.054

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	14663.7	ppb	374.577	2.6	636.990
Ni 231.604	1.4877	ppb	0.7599	51.1	1.6169
Pb 220.353	-0.7662	ppb	1.4129	184.4	12.3798
Sb 206.834	-2.1291	ppb	0.0742	3.5	3.7424
Se 196.026	-2.8577	ppb	5.1069	178.7	6.0187
Sn 189.925	0.2554	ppb	0.3251	127.3	-12.7048
Sr 216.596	60.5637	ppb	1.5005	2.5	937.659
Ti 334.941	0.0451	ppb	0.0564	125.1	-44.0481
Tl 190.794	-1.8688	ppb	1.4779	79.1	-9.8674
V 292.401	0.1578	ppb	0.0882	55.9	-9.2735
Zn 206.200	0.6637	ppb	0.5679	85.6	7.9944

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1773u	-0.2649u	0.1293
Al 308.215	-2.3851u	-2.1210u	-1.2019u
As 188.980	-0.8282u	4.5124	2.8276
B 249.678	41.3529	41.6935	40.9346
Ba 389.178	2.3337	1.0292	1.9311
Be 313.042	-0.0089u	-0.0108u	-0.0164u
Ca 370.602	1023	1025	1006
Cd 226.502	0.0205	0.0780	0.0575
Co 228.615	0.3914	0.1414	-0.1801u
Cr 267.716	8.0202	7.9357	7.7899
Cu 324.754	-0.4882u	-0.2058u	-0.2695u
Fe 271.441	7.7235	7.6938	5.9303
K 766.491	381.808	382.628	377.694
Mg 279.078	864.911	866.616	854.488
Mn 257.610	1.5050	1.4566	1.4795
Mo 202.032	17.1892	17.9953	17.3204
Na 330.237	25787.6	26062.1	25640.9
Ni 231.604	0.0280	-0.2071u	0.2924
Pb 220.353	-0.6648u	1.1151	-1.4249u
Sb 206.834	-2.0689u	0.1677u	-5.7558u
Se 196.026	-1.3588u	3.8339	2.6003
Sn 189.925	1.7817	0.3196	0.3203
Sr 216.596	9.5780	9.4239	8.9018
Ti 334.941	-0.0044	0.0057	0.0874
Tl 190.794	0.0257	-2.5832u	-2.9143u
V 292.401	9.7377	9.7410	9.7339
Zn 206.200	-1.2919u	-0.7450u	-0.2735u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1043	ppb	0.2070	198.4	-20.1480
Al 308.215	-1.9027	ppb	0.6211	32.6	255.567
As 188.980	2.1706	ppb	2.7302	125.8	-3.5912
B 249.678	41.3270	ppb	0.3801	0.9	640.095
Ba 389.178	1.7647	ppb	0.6680	37.9	18.7020
Be 313.042	-0.0120	ppb	0.0038	31.9	-265.173
Ca 370.602	1018	ppb	10.45	1.0	3175
Cd 226.502	0.0520	ppb	0.0291	56.0	14.7471
Co 228.615	0.1176	ppb	0.2865	243.7	-2.5939

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	7.9153	ppb	0.1165	1.5	482.751
Cu 324.754	-0.3212	ppb	0.1481	46.1	126.587
Fe 271.441	7.1158	ppb	1.0268	14.4	25.0598
K 766.491	380.710	ppb	2.6440	0.7	16699.4
Mg 279.078	862.005	ppb	6.5655	0.8	2247.24
Mn 257.610	1.4804	ppb	0.0242	1.6	446.572
Mo 202.032	17.5017	ppb	0.4326	2.5	150.677
Na 330.237	25830.2	ppb	213.816	0.8	1099.70
Ni 231.604	0.0378	ppb	0.2499	661.5	-3.5291
Pb 220.353	-0.3249	ppb	1.3037	401.3	13.1976
Sb 206.834	-2.5523	ppb	2.9912	117.2	3.4078
Se 196.026	1.6918	ppb	2.7129	160.4	8.1950
Sn 189.925	0.8072	ppb	0.8439	104.6	-12.1743
Sr 216.596	9.3012	ppb	0.3544	3.8	151.980
Ti 334.941	0.0296	ppb	0.0504	170.4	-60.6458
Tl 190.794	-1.8239	ppb	1.6104	88.3	-9.7614
V 292.401	9.7375	ppb	0.0036	0.0	264.568
Zn 206.200	-0.7701	ppb	0.5097	66.2	5.7723

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Rack 1, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2143u	-0.0239u	-0.0360u
Al 308.215	-1.3830u	-2.3569u	-2.7661u
As 188.980	1.2608	0.7608	2.7899
B 249.678	20.0307	19.9708	19.9151
Ba 389.178	8.4897	8.7202	7.8127
Be 313.042	-0.0158u	-0.0115u	-0.0084u
Ca 370.602	9721	9658	9522
Cd 226.502	0.1901	0.1862	-0.0424u
Co 228.615	0.0583	0.1752	-0.1814u
Cr 267.716	101.407	100.515	98.9732
Cu 324.754	-0.0789u	-0.2122u	-0.0175u
Fe 271.441	12.4511	14.0980	12.0785
K 766.491	421.409	419.558	414.029
Mg 279.078	1266.12	1257.04	1242.58
Mn 257.610	0.7610	0.7124	0.7498
Mo 202.032	0.7607	1.1143	0.7329
Na 330.237	7349.88	7112.04	7122.49
Ni 231.604	0.8959	0.0904	0.5088
Pb 220.353	-2.1694u	2.6322	0.3366
Sb 206.834	-1.4998u	-0.3382	-4.1090u
Se 196.026	0.4228	-3.2854u	-2.1906u
Sn 189.925	4.0823	1.6978	0.7496
Sr 216.596	43.7724	43.4512	43.2274
Ti 334.941	0.0899	0.0558	0.0323
Tl 190.794	-2.5492u	-2.8984u	-3.0458u
V 292.401	0.8574	0.9675	1.0034
Zn 206.200	1.5592	-1.0795u	-0.5847u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0914	ppb	0.1066	116.6	-20.9022
Al 308.215	-2.1687	ppb	0.7105	32.8	253.814

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.6038	ppb	1.0572	65.9	-4.0165
B 249.678	19.9722	ppb	0.0578	0.3	343.590
Ba 389.178	8.3409	ppb	0.4717	5.7	185.779
Be 313.042	-0.0119	ppb	0.0037	31.3	-260.652
Ca 370.602	9633	ppb	101.7	1.1	29960
Cd 226.502	0.1113	ppb	0.1331	119.6	17.9219
Co 228.615	0.0174	ppb	0.1818	1047.1	-3.0442
Cr 267.716	100.298	ppb	1.2312	1.2	5990.88
Cu 324.754	-0.1029	ppb	0.0996	96.8	140.187
Fe 271.441	12.8759	ppb	1.0746	8.3	35.0952
K 766.491	418.332	ppb	3.8396	0.9	18324.9
Mg 279.078	1255.25	ppb	11.8701	0.9	3261.85
Mn 257.610	0.7411	ppb	0.0255	3.4	261.343
Mo 202.032	0.8693	ppb	0.2127	24.5	16.1024
Na 330.237	7194.80	ppb	134.403	1.9	327.592
Ni 231.604	0.4984	ppb	0.4028	80.8	-1.8950
Pb 220.353	0.2664	ppb	2.4016	901.3	14.3320
Sb 206.834	-1.9823	ppb	1.9311	97.4	6.3515
Se 196.026	-1.6844	ppb	1.9052	113.1	6.5719
Sn 189.925	2.1766	ppb	1.7172	78.9	-10.8568
Sr 216.596	43.4837	ppb	0.2740	0.6	676.288
Ti 334.941	0.0593	ppb	0.0289	48.8	-48.9757
Tl 190.794	-2.8311	ppb	0.2551	9.0	-11.0812
V 292.401	0.9428	ppb	0.0761	8.1	12.1562
Zn 206.200	-0.0350	ppb	1.4026	4009.1	6.7834

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Rack 1, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0368u	-0.0616u	0.0738
Al 308.215	-0.3013	0.4656	-0.5237
As 188.980	-15.0687u	-15.2444u	-14.5229u
B 249.678	480.905	469.989	461.880
Ba 389.178	4.4092	3.7411	3.2328
Be 313.042	-0.0024u	0.0001u	-0.0099u
Ca 370.602	15801	15417	15070
Cd 226.502	0.0452	-0.0198u	-0.1470u
Co 228.615	-1.6274	-1.3448	-1.5968
Cr 267.716	10609.0x	10322.3x	10112.0x
Cu 324.754	0.4529	0.5124	0.2875
Fe 271.441	12.3879	16.6425	14.7921
K 766.491	844.138	822.856	802.596
Mg 279.078	6464.31	6290.60	6139.41
Mn 257.610	10.0206	9.7574	9.5730
Mo 202.032	248.439	243.743	238.300
Na 330.237	155887x	151628x	149223x
Ni 231.604	3.4556	3.9311	3.3778
Pb 220.353	0.1725u	-1.6417u	-0.3385u
Sb 206.834	-33.1966	-36.1118	-30.4775
Se 196.026	-0.5782u	-4.5821u	0.5927
Sn 189.925	2.5107	1.9045	1.7749
Sr 216.596	94.2228	91.2712	89.8769
Ti 334.941	0.7124	0.7572	0.6885

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Label	Replicates Concentration		
Tl 190.794	-2.1612u	1.7259	2.9483
V 292.401	50.8777	49.8343	49.2257
Zn 206.200	-5.5710u	-6.6054u	-4.0733u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0163b	ppb	0.0700	429.2	-14.2555
Al 308.215	-0.1198b	ppb	0.5190	433.1	279.008
As 188.980	-14.9453b	ppb	0.3763	2.5	-16.6748
B 249.678	470.925b	ppb	9.5469	2.0	6604.70
Ba 389.178	3.7944b	ppb	0.5900	15.5	86.6400
Be 313.042	-0.0041b	ppb	0.0052	127.7	-286.399
Ca 370.602	15429b	ppb	365.6	2.4	47978
Cd 226.502	-0.0406b	ppb	0.0978	241.0	9.3767
Co 228.615	-1.5230b	ppb	0.1551	10.2	7.6815
Cr 267.716	10347.8xb	ppb	249.431	2.4	617005
Cu 324.754	0.4176b	ppb	0.1165	27.9	182.027
Fe 271.441	14.6075b	ppb	2.1333	14.6	59.8092
K 766.491	823.197b	ppb	20.7732	2.5	35818.5
Mg 279.078	6298.11b	ppb	162.580	2.6	16272.6
Mn 257.610	9.7837b	ppb	0.2249	2.3	2617.38
Mo 202.032	243.494b	ppb	5.0743	2.1	1979.42
Na 330.237	152246xb	ppb	3374.84	2.2	6337.76
Ni 231.604	3.5882b	ppb	0.2995	8.3	9.0733
Pb 220.353	-0.6026b	ppb	0.9355	155.2	12.3383
Sb 206.834	-33.2619b	ppb	2.8177	8.5	139.803
Se 196.026	-1.5226b	ppb	2.7136	178.2	6.6522
Sn 189.925	2.0634b	ppb	0.3928	19.0	-10.9098
Sr 216.596	91.7903b	ppb	2.2190	2.4	1411.31
Ti 334.941	0.7194b	ppb	0.0349	4.8	153.103
Tl 190.794	0.8376b	ppb	2.6680	318.5	-6.3863
V 292.401	49.9792b	ppb	0.8355	1.7	848.366
Zn 206.200	-5.4166b	ppb	1.2731	23.5	-15.4197

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Rack 1, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1013u	0.0247u	0.2015
Al 308.215	-2.8938u	-2.0742u	-1.8925u
As 188.980	-15.0635u	-2.5713u	-7.4822u
B 249.678	266.697	261.243	255.120
Ba 389.178	2.2315	2.0610	2.0209
Be 313.042	-0.0053u	-0.0049u	-0.0056u
Ca 370.602	8569	8381	8169
Cd 226.502	0.0601	0.0312	0.0675
Co 228.615	-1.6522u	-0.3500	-0.7507
Cr 267.716	5921.28	5788.35	5627.16
Cu 324.754	-0.2656u	0.1297	-0.1190u
Fe 271.441	11.4535	18.2556	3.0681
K 766.491	430.441	420.425	408.882
Mg 279.078	3546.56	3470.70	3364.22
Mn 257.610	5.4540	5.3884	5.2355
Mo 202.032	137.170	132.713	130.013
Na 330.237	83281.6	81064.6	79113.9

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Label	Replicates Concentration		
Ni 231.604	2.0672	2.0032	1.6628
Pb 220.353	0.2844	0.7340	0.1155
Sb 206.834	-21.0929	-24.0636	-26.6674
Se 196.026	6.5708	-1.6740u	3.7975
Sn 189.925	0.9487	-1.1662u	1.8174
Sr 216.596	51.4892	50.0305	49.0382
Ti 334.941	0.3898	0.3769	0.3852
Tl 190.794	-3.0215u	-0.9284u	2.3235
V 292.401	28.5506	27.5139	27.3579
Zn 206.200	-4.0826u	-1.9145u	-2.2723u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0417	ppb	0.1521	365.2	-10.0948
Al 308.215	-2.2869	ppb	0.5335	23.3	258.971
As 188.980	-8.3723	ppb	6.2935	75.2	-11.6425
B 249.678	261.020	ppb	5.7920	2.2	3690.35
Ba 389.178	2.1045	ppb	0.1118	5.3	35.2710
Be 313.042	-0.0053	ppb	0.0003	6.1	-271.000
Ca 370.602	8373	ppb	200.3	2.4	26041
Cd 226.502	0.0529	ppb	0.0192	36.3	14.5133
Co 228.615	-0.9177	ppb	0.6670	72.7	2.0080
Cr 267.716	5778.93	ppb	147.283	2.5	344584
Cu 324.754	-0.0850	ppb	0.1998	235.1	145.859
Fe 271.441	10.9257	ppb	7.6075	69.6	43.8094
K 766.491	419.916	ppb	10.7886	2.6	18393.4
Mg 279.078	3460.49	ppb	91.5981	2.6	8951.45
Mn 257.610	5.3593	ppb	0.1121	2.1	1461.16
Mo 202.032	133.299	ppb	3.6141	2.7	1087.72
Na 330.237	81153.3	ppb	2085.28	2.6	3392.05
Ni 231.604	1.9111	ppb	0.2174	11.4	3.1208
Pb 220.353	0.3780	ppb	0.3197	84.6	14.3423
Sb 206.834	-23.9413	ppb	2.7893	11.7	74.0454
Se 196.026	2.8981	ppb	4.1953	144.8	8.7760
Sn 189.925	0.5333	ppb	1.5346	287.8	-12.4144
Sr 216.596	50.1860	ppb	1.2329	2.5	776.103
Ti 334.941	0.3840	ppb	0.0065	1.7	48.9592
Tl 190.794	-0.5421	ppb	2.6933	496.8	-8.1417
V 292.401	27.8075	ppb	0.6483	2.3	465.400
Zn 206.200	-2.7565	ppb	1.1623	42.2	-5.1639

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Rack 1, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0518	0.0642	-0.0836u
Al 308.215	-1.9547u	-4.8959u	-3.2815u
As 188.980	-2.6391u	-0.0355u	-1.6780u
B 249.678	95.8170	95.7299	95.1349
Ba 389.178	3.1719	3.5057	3.7913
Be 313.042	-0.0090u	-0.0084u	-0.0110u
Ca 370.602	11375	11227	11108
Cd 226.502	-0.1669u	-0.0016u	0.0107
Co 228.615	1.1531	0.8834	0.5925
Cr 267.716	1.0768	1.0216	1.0075

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Label	Replicates Concentration		
Cu 324.754	-0.5908u	-0.0330u	-0.1235u
Fe 271.441	10.7772	12.6222	11.2179
K 766.491	417.818	413.805	408.594
Mg 279.078	3850.14	3816.56	3777.08
Mn 257.610	42.5984	42.0379	41.6029
Mo 202.032	15.9936	15.6195	16.2105
Na 330.237	28916.0	28964.6	28244.7
Ni 231.604	5.7809	6.3597	4.6519
Pb 220.353	0.0174	-0.2350u	-0.0105u
Sb 206.834	-4.3263u	-0.5622u	-0.4591u
Se 196.026	-2.7237u	3.9883	2.4928
Sn 189.925	-0.4501u	1.5586	0.2974
Sr 216.596	79.1995	78.2565	77.7466
Ti 334.941	0.0236	0.0226	0.0050
Tl 190.794	-1.9845u	1.0796	-0.6051u
V 292.401	0.1664	0.2444	0.3892
Zn 206.200	0.5210	1.1818	0.5029

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0108	ppb	0.0820	760.3	-14.0615
Al 308.215	-3.3773	ppb	1.4729	43.6	246.378
As 188.980	-1.4509	ppb	1.3166	90.7	-6.3433
B 249.678	95.5606	ppb	0.3712	0.4	1393.07
Ba 389.178	3.4897	ppb	0.3100	8.9	70.5404
Be 313.042	-0.0094	ppb	0.0014	14.8	-260.226
Ca 370.602	11237	ppb	133.8	1.2	34945
Cd 226.502	-0.0526	ppb	0.0992	188.6	9.4884
Co 228.615	0.8763	ppb	0.2804	32.0	7.5534
Cr 267.716	1.0353	ppb	0.0366	3.5	72.9134
Cu 324.754	-0.2491	ppb	0.2993	120.2	131.306
Fe 271.441	11.5391	ppb	0.9635	8.4	32.6774
K 766.491	413.406	ppb	4.6251	1.1	18112.1
Mg 279.078	3814.59	ppb	36.5692	1.0	9864.33
Mn 257.610	42.0797	ppb	0.4991	1.2	10851.9
Mo 202.032	15.9412	ppb	0.2990	1.9	138.069
Na 330.237	28708.5	ppb	402.317	1.4	1218.92
Ni 231.604	5.5975	ppb	0.8685	15.5	16.1899
Pb 220.353	-0.0761	ppb	0.1384	182.0	13.6770
Sb 206.834	-1.7825	ppb	2.2036	123.6	4.4750
Se 196.026	1.2524	ppb	3.5237	281.3	7.9938
Sn 189.925	0.4686	ppb	1.0153	216.6	-12.4945
Sr 216.596	78.4009	ppb	0.7371	0.9	1210.07
Ti 334.941	0.0171	ppb	0.0104	61.1	-50.9392
Tl 190.794	-0.5033	ppb	1.5346	304.9	-8.0562
V 292.401	0.2667	ppb	0.1131	42.4	-4.8999
Zn 206.200	0.7352	ppb	0.3868	52.6	8.1073

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Rack 1, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0317	-0.1616u	0.2912
Al 308.215	13.3352	9.7697	9.7370
As 188.980	2.5013	1.4995	-3.0225u

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Label	Replicates Concentration		
B 249.678	67.3165	66.7114	64.9099
Ba 389.178	9.7520	9.3730	9.2121
Be 313.042	-0.0076u	-0.0037u	-0.0111u
Ca 370.602	4846	4773	4640
Cd 226.502	0.3157	0.2103	0.3131
Co 228.615	0.0472u	-0.0341u	-0.0069u
Cr 267.716	10.1727	10.0605	9.7593
Cu 324.754	0.4467	0.3395	0.6702
Fe 271.441	80.7436	74.3540	78.6154
K 766.491	503.056	494.750	481.672
Mg 279.078	3799.45	3744.47	3655.31
Mn 257.610	6.4196	6.3043	6.1580
Mo 202.032	70.4620	69.0577	67.9838
Na 330.237	25946.1	25384.4	25114.6
Ni 231.604	1.9741	1.5226	1.3852
Pb 220.353	1.3820	1.4209	-0.9326u
Sb 206.834	0.1530u	0.2741u	0.9888u
Se 196.026	0.0699	-3.4913u	7.9231
Sn 189.925	0.7603	3.9267	0.1992
Sr 216.596	29.6558	29.5157	28.8071
Ti 334.941	0.6872	0.7104	0.7034
Tl 190.794	-2.3843u	-0.7376u	-5.3532u
V 292.401	7.1292	7.0402	6.8407
Zn 206.200	-0.1636u	0.4287	-0.2246u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0537	ppb	0.2272	422.7	-8.1137
Al 308.215	10.9473	ppb	2.0680	18.9	348.518
As 188.980	0.3261	ppb	2.9429	902.5	-5.0108
B 249.678	66.3126	ppb	1.2519	1.9	986.862
Ba 389.178	9.4457	ppb	0.2772	2.9	221.128
Be 313.042	-0.0074	ppb	0.0037	49.9	-264.422
Ca 370.602	4753	ppb	104.5	2.2	14781
Cd 226.502	0.2797	ppb	0.0601	21.5	26.7184
Co 228.615	0.0021	ppb	0.0414	1988.0	-5.7670
Cr 267.716	9.9975	ppb	0.2138	2.1	606.976
Cu 324.754	0.4854	ppb	0.1687	34.8	180.509
Fe 271.441	77.9043	ppb	3.2536	4.2	147.590
K 766.491	493.159	ppb	10.7801	2.2	21558.1
Mg 279.078	3733.08	ppb	72.7433	1.9	9654.73
Mn 257.610	6.2940	ppb	0.1311	2.1	1702.90
Mo 202.032	69.1678	ppb	1.2428	1.8	568.776
Na 330.237	25481.7	ppb	424.184	1.7	1085.22
Ni 231.604	1.6273	ppb	0.3081	18.9	2.1118
Pb 220.353	0.6234	ppb	1.3477	216.2	14.9048
Sb 206.834	0.4720	ppb	0.4516	95.7	6.6905
Se 196.026	1.5006	ppb	5.8402	389.2	8.1053
Sn 189.925	1.6287	ppb	2.0098	123.4	-11.3808
Sr 216.596	29.3262	ppb	0.4550	1.6	457.890
Ti 334.941	0.7003	ppb	0.0119	1.7	144.870
Tl 190.794	-2.8250	ppb	2.3391	82.8	-11.1198
V 292.401	7.0034	ppb	0.1477	2.1	177.482
Zn 206.200	0.0135	ppb	0.3609	2676.0	6.9785

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Cont Calib Verif (CCV) 12/18/2013, 7:37:35 PM Rack 2, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	483.473	486.547	487.792
Al 308.215	4717.91	4692.03	4696.52
As 188.980	511.353	494.934	493.148
B 249.678	478.744	475.652	480.400
Ba 389.178	4894.81	4869.29	4879.75
Be 313.042	484.215	481.562	485.042
Ca 370.602	4639	4622	4612
Cd 226.502	489.682	485.794	485.974
Co 228.615	490.390	486.932	489.063
Cr 267.716	4911.72	4884.92	4889.00
Cu 324.754	4877.84	4804.17	4892.73
Fe 271.441	4917.02	4881.74	4881.90
K 766.491	9728.43	9697.49	9716.06
Mg 279.078	4982.33	4951.63	4946.71
Mn 257.610	4840.78	4811.50	4822.12
Mo 202.032	503.928	499.948	501.766
Na 330.237	7467.35	7193.79	7374.25
Ni 231.604	2397.96	2369.98	2359.14
Pb 220.353	477.875	475.965	474.061
Sb 206.834	947.664	941.475	949.870
Se 196.026	4865.74	4867.57	4855.25
Sn 189.925	4958.25	4915.28	4933.56
Sr 216.596	2456.49	2437.66	2438.46
Ti 334.941	469.983	468.042	468.717
Tl 190.794	4886.06	4869.15	4863.13
V 292.401	4908.27	4879.80	4898.12
Zn 206.200	2434.07	2416.70	2402.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	485.938	ppb	2.2231	0.5	40351.5	97.18752
Al 308.215	4702.15	ppb	13.8284	0.3	32425.9	94.04308
As 188.980	499.811	ppb	10.0348	2.0	374.484	99.96227
B 249.678	478.266	ppb	2.4099	0.5	6697.07	95.65311
Ba 389.178	4881.29	ppb	12.8290	0.3	123276	97.62570
Be 313.042	483.606	ppb	1.8179	0.4	993365	96.72124
Ca 370.602	4624	ppb	13.97	0.3	14432	92.48859
Cd 226.502	487.150	ppb	2.1946	0.5	24846.1	97.42999
Co 228.615	488.795	ppb	1.7447	0.4	6529.36	97.75896
Cr 267.716	4895.21	ppb	14.4422	0.3	291855	97.90425
Cu 324.754	4858.25	ppb	47.4219	1.0	313369	97.16499
Fe 271.441	4893.55	ppb	20.3229	0.4	8598.43	97.87099
K 766.491	9713.99	ppb	15.5752	0.2	419975	97.13992
Mg 279.078	4960.22	ppb	19.3020	0.4	12723.1	99.20444
Mn 257.610	4824.80	ppb	14.8221	0.3	1233539	96.49603
Mo 202.032	501.881	ppb	1.9928	0.4	4059.83	100.37614
Na 330.237	7345.13	ppb	139.083	1.9	296.467	97.93506
Ni 231.604	2375.69	ppb	20.0336	0.8	8421.90	95.02773
Pb 220.353	475.967	ppb	1.9071	0.4	906.875	95.19344
Sb 206.834	946.336	ppb	4.3518	0.5	1510.51	94.63362
Se 196.026	4862.85	ppb	6.6486	0.1	2346.28	97.25705
Sn 189.925	4935.70	ppb	21.5633	0.4	4744.63	98.71391
Sr 216.596	2444.21	ppb	10.6497	0.4	37314.3	97.76822

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	468.914	ppb	0.9852	0.2	134441	93.78284
Tl 190.794	4872.78	ppb	11.8890	0.2	6395.08	97.45559
V 292.401	4895.40	ppb	14.4320	0.3	139278	97.90794
Zn 206.200	2417.77	ppb	15.7838	0.7	3735.73	96.71091

Cont Calib Blank (CCB) 12/18/2013, 7:42:20 PM Rack 2, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1794u	-0.5644u	-0.2181u
Al 308.215	-4.9351u	-4.2343u	-3.8736u
As 188.980	-1.6223u	0.1934	0.8958
B 249.678	2.6845	2.3980	1.9838
Ba 389.178	0.2127	0.0699	0.1444
Be 313.042	0.0088	0.0070	0.0086
Ca 370.602	-0.3010u	-0.1758u	-1.362u
Cd 226.502	0.0755	-0.0354u	0.0168
Co 228.615	0.2452	0.2301	0.1306
Cr 267.716	0.4056	0.3256	0.0585
Cu 324.754	0.1651	-0.3215u	-0.4343u
Fe 271.441	2.7226	1.3550	-0.7798u
K 766.491	0.2451	0.4633	0.1945
Mg 279.078	0.8513	3.5267	-0.8591u
Mn 257.610	0.1149	0.0905	0.0247
Mo 202.032	0.5908	0.6985	0.6185
Na 330.237	-60.0301u	60.7474	65.4767
Ni 231.604	1.5444	0.2847	0.5698
Pb 220.353	1.0004	1.2505	-1.4861u
Sb 206.834	2.1445	-0.8531u	-1.6053u
Se 196.026	5.5678	-0.8172u	1.7640
Sn 189.925	3.7933	5.2073	1.1279
Sr 216.596	0.0949	-0.5412u	0.0154
Ti 334.941	0.2328	0.1765	0.1347
Tl 190.794	2.8627	4.1158	0.6392
V 292.401	0.3875	-0.1585u	0.0523
Zn 206.200	-1.5942u	-1.3397u	-0.3292u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3206	ppb	0.2120	66.1	-37.7032	-0.32064
Al 308.215	-4.3476	ppb	0.5398	12.4	238.708	-4.34764
As 188.980	-0.1777	ppb	1.2994	731.3	-5.3704	-0.17768
B 249.678	2.3554	ppb	0.3523	15.0	99.0126	2.35540
Ba 389.178	0.1423	ppb	0.0715	50.2	-24.8231	0.14234
Be 313.042	0.0081	ppb	0.0010	12.7	-222.652	0.00815
Ca 370.602	-0.6130	ppb	0.6518	106.3	8.703	-0.61298
Cd 226.502	0.0190	ppb	0.0555	292.6	13.2008	0.01896
Co 228.615	0.2020	ppb	0.0623	30.8	-0.9514	0.20196
Cr 267.716	0.2632	ppb	0.1818	69.1	26.0851	0.26322
Cu 324.754	-0.1969	ppb	0.3185	161.8	134.120	-0.19689
Fe 271.441	1.0993	ppb	1.7651	160.6	14.5179	1.09927
K 766.491	0.3010	ppb	0.1429	47.5	262.519	0.30096
Mg 279.078	1.1729	ppb	2.2106	188.5	26.2592	1.17294
Mn 257.610	0.0767	ppb	0.0466	60.8	80.1493	0.07670
Mo 202.032	0.6359	ppb	0.0559	8.8	14.2159	0.63593

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	22.0646	ppb	71.1355	322.4	30.4306	22.06463
Ni 231.604	0.7996	ppb	0.6606	82.6	-0.8273	0.79960
Pb 220.353	0.2549	ppb	1.5129	593.5	14.3098	0.25492
Sb 206.834	-0.1046	ppb	1.9837	1896.0	7.3613	-0.10463
Se 196.026	2.1715	ppb	3.2119	147.9	8.4251	2.17153
Sn 189.925	3.3761	ppb	2.0714	61.4	-9.7081	3.37613
Sr 216.596	-0.1437	ppb	0.3466	241.3	7.6869	-0.14366
Ti 334.941	0.1813	ppb	0.0493	27.2	-19.2175	0.18133
Tl 190.794	2.5392	ppb	1.7607	69.3	-4.0239	2.53924
V 292.401	0.0938	ppb	0.2753	293.7	-6.9291	0.09376
Zn 206.200	-1.0877	ppb	0.6691	61.5	5.2922	-1.08769

680-97080-a-20-a (Samp)

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Rack 2, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2822	-0.0877u	0.0359
Al 308.215	-0.3881u	-0.1846u	0.9263
As 188.980	-0.4133u	3.5452	-1.5525u
B 249.678	10.4085	10.5400	10.6146
Ba 389.178	21.8956	21.3724	20.6914
Be 313.042	-0.0119u	-0.0093u	-0.0046u
Ca 370.602	8476	8373	8149
Cd 226.502	0.3273	0.1244	0.1677
Co 228.615	0.3856	0.3293	0.5976
Cr 267.716	16.1182	15.8570	15.3452
Cu 324.754	-0.0321u	-0.0414u	-0.1130u
Fe 271.441	38.0698	36.4160	33.7946
K 766.491	445.129	440.854	427.457
Mg 279.078	1595.23	1570.24	1528.24
Mn 257.610	0.2237	0.1833	0.2342
Mo 202.032	20.9247	19.7360	19.1220
Na 330.237	12956.6	12604.8	12416.9
Ni 231.604	0.1740	0.9445	1.3567
Pb 220.353	0.2596	1.1821	-0.6429u
Sb 206.834	1.2608	-1.0362u	-4.1655u
Se 196.026	0.6191	-0.1344u	6.4672
Sn 189.925	-0.5282u	2.0721	1.4337
Sr 216.596	38.7016	37.5170	36.8913
Ti 334.941	0.1269	0.0966	0.0949
Tl 190.794	-2.3953u	-2.2467u	-1.8163u
V 292.401	7.7553	7.1253	7.1545
Zn 206.200	-1.8371u	-0.5845u	-0.0853u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0768	ppb	0.1883	245.2	-6.5768
Al 308.215	0.1178	ppb	0.7075	600.3	270.076
As 188.980	0.5265	ppb	2.6757	508.2	-4.8419
B 249.678	10.5210	ppb	0.1043	1.0	212.329
Ba 389.178	21.3198	ppb	0.6038	2.8	514.551
Be 313.042	-0.0086	ppb	0.0037	43.0	-255.288
Ca 370.602	8333	ppb	167.0	2.0	25913
Cd 226.502	0.2065	ppb	0.1069	51.8	22.8278
Co 228.615	0.4375	ppb	0.1414	32.3	1.6329

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	15.7735	ppb	0.3932	2.5	951.066
Cu 324.754	-0.0622	ppb	0.0442	71.1	143.413
Fe 271.441	36.0934	ppb	2.1558	6.0	75.2383
K 766.491	437.813	ppb	9.2197	2.1	19166.7
Mg 279.078	1564.57	ppb	33.8510	2.2	4059.94
Mn 257.610	0.2137	ppb	0.0269	12.6	129.256
Mo 202.032	19.9276	ppb	0.9165	4.6	170.312
Na 330.237	12659.4	ppb	273.951	2.2	553.993
Ni 231.604	0.8250	ppb	0.6003	72.8	-0.7368
Pb 220.353	0.2663	ppb	0.9125	342.7	14.3044
Sb 206.834	-1.3136	ppb	2.7237	207.3	5.3506
Se 196.026	2.3173	ppb	3.6136	155.9	8.4957
Sn 189.925	0.9926	ppb	1.3551	136.5	-11.9968
Sr 216.596	37.7033	ppb	0.9194	2.4	587.392
Ti 334.941	0.1061	ppb	0.0180	17.0	-34.5343
Tl 190.794	-2.1527	ppb	0.3007	14.0	-10.1976
V 292.401	7.3450	ppb	0.3556	4.8	195.642
Zn 206.200	-0.8356	ppb	0.9025	108.0	5.6598

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Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.6861	9.5579	9.7442
Al 308.215	198.498	197.740	195.636
As 188.980	23.4283	22.5243	22.7934
B 249.678	97.5182	97.2376	97.5527
Ba 389.178	9.9602	9.3662	9.2441
Be 313.042	3.9585	3.9122	3.9088
Ca 370.602	505.3	496.9	501.3
Cd 226.502	4.8883	4.9040	4.8529
Co 228.615	9.8524	9.6593	9.3802
Cr 267.716	10.0864	10.0851	10.0143
Cu 324.754	19.0124	19.5052	19.2401
Fe 271.441	51.4061	47.3577	51.3026
K 766.491	974.706	965.995	957.025
Mg 279.078	516.331	510.716	509.943
Mn 257.610	10.1378	10.0458	9.9992
Mo 202.032	9.7851	9.6682	9.7952
Na 330.237	1096.71	1258.38	1096.34
Ni 231.604	40.1387	39.3843	40.7545
Pb 220.353	10.9364	7.9760	10.3241
Sb 206.834	16.2598	16.7634	17.9459
Se 196.026	16.9397	16.6783	11.5609
Sn 189.925	50.4748	50.1221	51.0391
Sr 216.596	10.1477	9.8313	9.3210
Ti 334.941	9.7383	9.5495	9.5968
Tl 190.794	26.2435	23.2368	23.6137
V 292.401	10.3251	10.3350	10.0904
Zn 206.200	18.8976	18.6861	18.4638

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.6627	ppb	0.0953	1.0	792.546
Al 308.215	197.291	ppb	1.4825	0.8	1641.77

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	22.9154	ppb	0.4642	2.0	12.1805
B 249.678	97.4362	ppb	0.1728	0.2	1419.05
Ba 389.178	9.5235	ppb	0.3831	4.0	213.673
Be 313.042	3.9265	ppb	0.0278	0.7	7813.76
Ca 370.602	501.2	ppb	4.211	0.8	1571
Cd 226.502	4.8817	ppb	0.0262	0.5	261.095
Co 228.615	9.6306	ppb	0.2374	2.5	124.811
Cr 267.716	10.0619	ppb	0.0413	0.4	610.280
Cu 324.754	19.2526	ppb	0.2466	1.3	1388.46
Fe 271.441	50.0221	ppb	2.3080	4.6	100.350
K 766.491	965.909	ppb	8.8409	0.9	41984.8
Mg 279.078	512.330	ppb	3.4863	0.7	1344.81
Mn 257.610	10.0609	ppb	0.0705	0.7	2637.23
Mo 202.032	9.7495	ppb	0.0706	0.7	87.9412
Na 330.237	1150.48	ppb	93.4457	8.1	76.8507
Ni 231.604	40.0925	ppb	0.6863	1.7	138.523
Pb 220.353	9.7455	ppb	1.5627	16.0	32.0906
Sb 206.834	16.9897	ppb	0.8655	5.1	32.9952
Se 196.026	15.0597	ppb	3.0328	20.1	14.6239
Sn 189.925	50.5453	ppb	0.4626	0.9	35.7596
Sr 216.596	9.7667	ppb	0.4171	4.3	158.031
Ti 334.941	9.6282	ppb	0.0982	1.0	2692.49
Tl 190.794	24.3646	ppb	1.6380	6.7	24.6628
V 292.401	10.2502	ppb	0.1385	1.4	280.811
Zn 206.200	18.6825	ppb	0.2169	1.2	35.8234

mb 680-307988/1-a (Samp) 12/18/2013, 7:56:35 PM Rack 2, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1167u	-0.0923u	0.1594
Al 308.215	-4.1064u	-4.1577u	-3.8105u
As 188.980	2.1963	-0.6762u	4.2089
B 249.678	2.6062	2.6637	1.9680
Ba 389.178	-0.4700u	-0.4421u	-0.1950u
Be 313.042	-0.0050u	-0.0125u	-0.0091u
Ca 370.602	3.196	2.931	2.925
Cd 226.502	0.1477	0.0393	0.0021
Co 228.615	0.6881	0.4427	-0.0349u
Cr 267.716	0.1993	0.3853	0.4150
Cu 324.754	-0.1227u	-0.7939u	-0.0870u
Fe 271.441	-1.2490u	1.3890	0.0992
K 766.491	0.5181	0.8415	0.1903
Mg 279.078	1.3678	1.1687	4.7385
Mn 257.610	-0.0505u	-0.0536u	-0.0304u
Mo 202.032	-0.1703u	0.0262	0.3893
Na 330.237	-19.6549u	43.0136	136.685
Ni 231.604	0.2429	0.0084	0.2786
Pb 220.353	1.8827	-0.4592u	0.8651
Sb 206.834	-2.2373u	-0.4065u	-3.3202u
Se 196.026	-7.4075u	-2.5752u	-0.7674u
Sn 189.925	1.4316	2.0652	2.7854
Sr 216.596	-0.1048u	-0.0163u	0.0812
Ti 334.941	0.0644	0.0387	-0.0177u

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Label	Replicates Concentration		
Tl 190.794	-2.1925u	-1.6008u	-3.3899u
V 292.401	-0.0905u	-0.0971u	-0.2743u
Zn 206.200	0.2182	0.0168	0.7266

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0165	ppb	0.1529	925.2	-12.4128
Al 308.215	-4.0249	ppb	0.1874	4.7	240.956
As 188.980	1.9097	ppb	2.4551	128.6	-3.7837
B 249.678	2.4126	ppb	0.3861	16.0	99.8113
Ba 389.178	-0.3691	ppb	0.1514	41.0	-37.7399
Be 313.042	-0.0089	ppb	0.0037	42.2	-257.550
Ca 370.602	3.018	ppb	0.1550	5.1	20.07
Cd 226.502	0.0631	ppb	0.0756	120.0	15.4372
Co 228.615	0.3653	ppb	0.3677	100.7	1.2419
Cr 267.716	0.3332	ppb	0.1169	35.1	30.2598
Cu 324.754	-0.3345	ppb	0.3982	119.0	125.230
Fe 271.441	0.0797	ppb	1.3191	1654.3	12.7691
K 766.491	0.5166	ppb	0.3256	63.0	271.838
Mg 279.078	2.4250	ppb	2.0060	82.7	29.4912
Mn 257.610	-0.0448	ppb	0.0126	28.1	49.0857
Mo 202.032	0.0817	ppb	0.2839	347.5	9.7316
Na 330.237	53.3480	ppb	78.6808	147.5	31.7055
Ni 231.604	0.1766	ppb	0.1468	83.1	-3.0376
Pb 220.353	0.7629	ppb	1.1743	153.9	15.2632
Sb 206.834	-1.9880	ppb	1.4728	74.1	4.5519
Se 196.026	-3.5833	ppb	3.4329	95.8	5.6586
Sn 189.925	2.0941	ppb	0.6774	32.3	-10.9439
Sr 216.596	-0.0133	ppb	0.0930	700.3	9.6998
Ti 334.941	0.0285	ppb	0.0420	147.4	-63.0498
Tl 190.794	-2.3944	ppb	0.9115	38.1	-10.5049
V 292.401	-0.1540	ppb	0.1043	67.7	-13.9106
Zn 206.200	0.3205	ppb	0.3658	114.1	7.4679

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Rack 2, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.2130	50.2549	50.1395
Al 308.215	4752.69	4780.43	4777.69
As 188.980	103.996	99.6517	109.587
B 249.678	196.606	199.614	200.406
Ba 389.178	100.373	100.319	100.290
Be 313.042	50.2880	50.5196	50.5319
Ca 370.602	4873	4876	4885
Cd 226.502	49.9516	50.1784	50.2570
Co 228.615	50.2057	50.7751	51.6274
Cr 267.716	102.903	103.138	102.829
Cu 324.754	100.736	101.016	101.385
Fe 271.441	5040.54	5078.28	5086.58
K 766.491	4850.83	4891.49	4862.91
Mg 279.078	5030.03	5063.72	5079.97
Mn 257.610	511.523	514.039	515.604
Mo 202.032	102.309	104.270	103.087
Na 330.237	5405.08	5383.08	5670.52

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Label	Replicates Concentration		
Ni 231.604	99.2060	98.6597	98.6121
Pb 220.353	48.6304	50.7566	52.0275
Sb 206.834	42.8514	49.2981	46.1444
Se 196.026	96.9695	103.871	107.014
Sn 189.925	207.397	209.595	210.115
Sr 216.596	100.050	101.425	101.269
Ti 334.941	99.1635	99.2344	99.1312
Tl 190.794	39.8503	38.9112	37.7127
V 292.401	102.904	103.557	102.930
Zn 206.200	97.7354	99.7150	97.8463

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.8691	ppb	0.5712	1.1	4134.23
Al 308.215	4770.27	ppb	15.2873	0.3	33473.3
As 188.980	104.412	ppb	4.9809	4.8	74.0875
B 249.678	198.875	ppb	2.0044	1.0	2817.73
Ba 389.178	100.327	ppb	0.0424	0.0	2528.40
Be 313.042	50.4465	ppb	0.1374	0.3	103215
Ca 370.602	4878	ppb	6.251	0.1	14831
Cd 226.502	50.1290	ppb	0.1586	0.3	2588.23
Co 228.615	50.8694	ppb	0.7155	1.4	674.874
Cr 267.716	102.956	ppb	0.1615	0.2	6152.12
Cu 324.754	101.046	ppb	0.3254	0.3	6666.67
Fe 271.441	5068.47	ppb	24.5369	0.5	8791.69
K 766.491	4868.41	ppb	20.8819	0.4	210605
Mg 279.078	5057.91	ppb	25.4755	0.5	13061.0
Mn 257.610	513.722	ppb	2.0588	0.4	131450
Mo 202.032	103.222	ppb	0.9876	1.0	843.870
Na 330.237	5486.22	ppb	159.979	2.9	253.944
Ni 231.604	98.8260	ppb	0.3300	0.3	346.883
Pb 220.353	50.4715	ppb	1.7164	3.4	108.698
Sb 206.834	46.0980	ppb	3.2236	7.0	76.7720
Se 196.026	102.618	ppb	5.1381	5.0	56.9143
Sn 189.925	209.036	ppb	1.4428	0.7	188.534
Sr 216.596	100.914	ppb	0.7530	0.7	1558.15
Ti 334.941	99.1764	ppb	0.0528	0.1	28397.0
Tl 190.794	38.8248	ppb	1.0714	2.8	42.8973
V 292.401	103.130	ppb	0.3695	0.4	2912.01
Zn 206.200	98.4322	ppb	1.1123	1.1	158.797

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Rack 2, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5297u	0.2782u	0.2051u
Al 308.215	112.576	113.099	112.305
As 188.980	1.3018	2.4650	0.2726
B 249.678	60.4819	60.5814	60.1524
Ba 389.178	5.5801	6.3444	7.0107
Be 313.042	-0.0195u	-0.0212u	-0.0161u
Ca 370.602	48613	48534	48417
Cd 226.502	0.1294	0.0222	0.0631
Co 228.615	0.5965	-0.5067u	-0.3007u
Cr 267.716	0.2799	0.2330	0.3268

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Label	Replicates Concentration		
Cu 324.754	0.7410	0.7395	0.5465
Fe 271.441	4.6222	8.7027	2.8807
K 766.491	2833.58	2837.80	2835.07
Mg 279.078	2838.03	2845.89	2853.70
Mn 257.610	3.1442	3.1115	3.1687
Mo 202.032	1.7563	1.7203	1.1069
Na 330.237	13032.8	13297.8	13263.6
Ni 231.604	0.8223	1.4126	1.0059
Pb 220.353	0.4095	1.5471	0.3382
Sb 206.834	-1.5366u	-2.6966u	-1.8592u
Se 196.026	0.5471	1.5897	-0.3677u
Sn 189.925	2.2784	1.2473	-0.6724u
Sr 216.596	1563.76	1564.81	1568.27
Ti 334.941	0.3278	0.2389	0.1723
Tl 190.794	-2.1249u	-3.0261u	-2.4446u
V 292.401	2.8564	2.7714	2.7876
Zn 206.200	1.3246	2.3339	2.2644

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3377	ppb	0.1703	50.4	-64.2516
Al 308.215	112.660	ppb	0.4039	0.4	1053.05
As 188.980	1.3465	ppb	1.0969	81.5	-4.2109
B 249.678	60.4052	ppb	0.2246	0.4	904.989
Ba 389.178	6.3117	ppb	0.7158	11.3	138.971
Be 313.042	-0.0189	ppb	0.0026	13.8	-259.512
Ca 370.602	48521	ppb	98.75	0.2	150859
Cd 226.502	0.0716	ppb	0.0541	75.6	15.8623
Co 228.615	-0.0703	ppb	0.5866	834.5	-4.6074
Cr 267.716	0.2799	ppb	0.0469	16.8	27.3213
Cu 324.754	0.6757	ppb	0.1119	16.6	190.385
Fe 271.441	5.4019	ppb	2.9883	55.3	21.9657
K 766.491	2835.48	ppb	2.1427	0.1	122766
Mg 279.078	2845.87	ppb	7.8324	0.3	7365.70
Mn 257.610	3.1415	ppb	0.0287	0.9	889.556
Mo 202.032	1.5278	ppb	0.3650	23.9	21.4274
Na 330.237	13198.1	ppb	144.149	1.1	576.280
Ni 231.604	1.0803	ppb	0.3021	28.0	0.1692
Pb 220.353	0.7649	ppb	0.6783	88.7	15.2638
Sb 206.834	-2.0308	ppb	0.5987	29.5	4.4505
Se 196.026	0.5897	ppb	0.9794	166.1	7.6656
Sn 189.925	0.9511	ppb	1.4975	157.4	-12.0159
Sr 216.596	1565.61	ppb	2.3604	0.2	23958.2
Ti 334.941	0.2463	ppb	0.0780	31.7	11.4549
Tl 190.794	-2.5319	ppb	0.4569	18.0	-10.6883
V 292.401	2.8052	ppb	0.0451	1.6	70.1705
Zn 206.200	1.9743	ppb	0.5637	28.6	10.0229

680-97090-f-1-aSD^5 (Samp) 12/18/2013, 8:10:49 PM Rack 2, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2745	0.2703	0.0797u
Al 308.215	17.9497	18.2926	17.4186
As 188.980	1.5646	1.0996	-1.0207u

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	12.0687	12.0969	12.4572
Ba 389.178	1.6147	1.1071	1.6222
Be 313.042	-0.0146u	-0.0153u	-0.0108u
Ca 370.602	9212	9227	9202
Cd 226.502	-0.0232u	0.0898	0.1131
Co 228.615	0.4954	0.4366	0.2763
Cr 267.716	0.4622	0.3218	0.4477
Cu 324.754	-0.2571u	-0.2499u	0.2648
Fe 271.441	7.3032	6.3029	10.1307
K 766.491	538.112	537.493	539.771
Mg 279.078	557.394	559.024	559.185
Mn 257.610	0.6051	0.6232	0.5753
Mo 202.032	-0.0035u	0.3013	-0.0913u
Na 330.237	2596.41	2814.20	2458.92
Ni 231.604	-0.2995u	0.3274	1.0120
Pb 220.353	-1.4570u	-0.4757u	0.5425
Sb 206.834	-1.8808u	-2.0592u	0.7055
Se 196.026	2.9527	0.7121	0.7942
Sn 189.925	-0.1350u	1.3776	2.7979
Sr 216.596	303.675	303.480	303.245
Ti 334.941	0.0734	0.0391	0.1100
Tl 190.794	-1.3667u	-3.2263u	-0.9795u
V 292.401	0.1116	0.1704	0.2556
Zn 206.200	0.4620	0.3695	1.4092

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2081	ppb	0.1113	53.4	-9.5066
Al 308.215	17.8869	ppb	0.4404	2.5	393.458
As 188.980	0.5478	ppb	1.3781	251.6	-4.8185
B 249.678	12.2076	ppb	0.2166	1.8	235.794
Ba 389.178	1.4480	ppb	0.2952	20.4	9.7152
Be 313.042	-0.0135	ppb	0.0024	17.9	-263.627
Ca 370.602	9214	ppb	12.60	0.1	28655
Cd 226.502	0.0599	ppb	0.0729	121.6	15.3016
Co 228.615	0.4028	ppb	0.1134	28.2	1.7480
Cr 267.716	0.4106	ppb	0.0772	18.8	34.9250
Cu 324.754	-0.0807	ppb	0.2993	370.8	141.590
Fe 271.441	7.9122	ppb	1.9852	25.1	26.3323
K 766.491	538.459	ppb	1.1780	0.2	23515.4
Mg 279.078	558.535	ppb	0.9906	0.2	1464.28
Mn 257.610	0.6012	ppb	0.0241	4.0	219.316
Mo 202.032	0.0689	ppb	0.2061	299.3	9.6264
Na 330.237	2623.18	ppb	179.147	6.8	138.173
Ni 231.604	0.3466	ppb	0.6560	189.2	-2.4345
Pb 220.353	-0.4634	ppb	0.9998	215.8	12.9634
Sb 206.834	-1.0782	ppb	1.5473	143.5	5.9197
Se 196.026	1.4864	ppb	1.2705	85.5	8.0960
Sn 189.925	1.3468	ppb	1.4667	108.9	-11.6585
Sr 216.596	303.467	ppb	0.2152	0.1	4651.84
Ti 334.941	0.0741	ppb	0.0355	47.8	-47.6142
Tl 190.794	-1.8575	ppb	1.2011	64.7	-9.8004
V 292.401	0.1792	ppb	0.0724	40.4	-4.4021
Zn 206.200	0.7469	ppb	0.5755	77.0	8.1264

E12182013.vvq. All Data Report 12/19/2013, 11:30:38 AM

680-97090-f-1-aPDS (Samp) **12/18/2013, 8:15:35 PM** **Rack 2, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	39.9172	41.2716	40.0350
Al 308.215	1998.16	1995.76	1997.06
As 188.980	195.968	199.140	200.359
B 249.678	535.725	540.014	541.465
Ba 389.178	203.337	203.480	202.803
Be 313.042	49.0947	49.0845	49.1173
Ca 370.602	49856	49815	49637
Cd 226.502	49.1505	49.0295	48.5946
Co 228.615	194.324	195.322	196.670
Cr 267.716	197.461	197.283	197.241
Cu 324.754	201.486	203.079	202.980
Fe 271.441	1978.05	1978.10	1988.35
K 766.491	4801.54	4812.30	4814.78
Mg 279.078	4821.95	4818.84	4814.16
Mn 257.610	203.821	203.710	203.365
Mo 202.032	204.309	205.346	204.575
Na 330.237	15165.2	15042.4	14948.3
Ni 231.604	194.772	194.017	193.249
Pb 220.353	188.218	190.185	188.988
Sb 206.834	185.240	192.641	189.736
Se 196.026	195.624	197.570	200.308
Sn 189.925	200.144	198.230	202.123
Sr 216.596	1755.16	1749.26	1748.39
Ti 334.941	194.963	194.894	194.891
Tl 190.794	186.892	191.256	186.955
V 292.401	203.036	202.347	202.989
Zn 206.200	192.675	194.009	193.809

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	40.4079	ppb	0.7503	1.9	3261.62
Al 308.215	1996.99	ppb	1.2042	0.1	14158.2
As 188.980	198.489	ppb	2.2668	1.1	145.561
B 249.678	539.068	ppb	2.9848	0.6	7547.02
Ba 389.178	203.206	ppb	0.3565	0.2	5121.55
Be 313.042	49.0988	ppb	0.0168	0.0	100496
Ca 370.602	49769	ppb	116.2	0.2	154697
Cd 226.502	48.9249	ppb	0.2924	0.6	2513.01
Co 228.615	195.439	ppb	1.1774	0.6	2603.29
Cr 267.716	197.328	ppb	0.1169	0.1	11775.7
Cu 324.754	202.515	ppb	0.8926	0.4	13210.7
Fe 271.441	1981.50	ppb	5.9325	0.3	3465.99
K 766.491	4809.54	ppb	7.0400	0.1	208062
Mg 279.078	4818.32	ppb	3.9219	0.1	12450.0
Mn 257.610	203.632	ppb	0.2376	0.1	52166.8
Mo 202.032	204.743	ppb	0.5384	0.3	1665.37
Na 330.237	15052.0	ppb	108.803	0.7	649.284
Ni 231.604	194.012	ppb	0.7616	0.4	684.021
Pb 220.353	189.130	ppb	0.9909	0.5	368.251
Sb 206.834	189.206	ppb	3.7292	2.0	290.326
Se 196.026	197.834	ppb	2.3534	1.2	102.563
Sn 189.925	200.166	ppb	1.9463	1.0	180.011
Sr 216.596	1750.94	ppb	3.6827	0.2	26786.3

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	194.916	ppb	0.0408	0.0	55853.8
Tl 190.794	188.368	ppb	2.5015	1.3	240.255
V 292.401	202.791	ppb	0.3848	0.2	5731.99
Zn 206.200	193.498	ppb	0.7195	0.4	305.618

680-97090-f-1-b ms (Samp) 12/18/2013, 8:20:21 PM Rack 2, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.4650	51.2893	50.9303
Al 308.215	4959.54	4945.32	4957.34
As 188.980	100.674	107.317	108.511
B 249.678	262.512	263.461	263.748
Ba 389.178	106.885	106.785	107.675
Be 313.042	50.5385	50.5090	50.5302
Ca 370.602	55368	55261	55291
Cd 226.502	49.8378	49.7164	49.6699
Co 228.615	49.5593	49.9734	50.1163
Cr 267.716	101.643	102.053	102.189
Cu 324.754	102.956	104.117	104.404
Fe 271.441	5036.69	5031.33	5026.17
K 766.491	8039.21	8057.49	8079.74
Mg 279.078	8055.01	8064.41	8060.19
Mn 257.610	515.473	515.132	515.077
Mo 202.032	105.753	104.393	104.692
Na 330.237	19470.5	19305.2	19543.6
Ni 231.604	99.7178	99.7673	99.8038
Pb 220.353	48.7030	50.0257	48.5701
Sb 206.834	50.3020	46.9238	51.9992
Se 196.026	100.336	103.538	102.757
Sn 189.925	207.642	208.059	208.262
Sr 216.596	1730.47	1727.25	1729.60
Ti 334.941	97.9412	98.0434	98.0875
Tl 190.794	38.7270	39.0397	38.6387
V 292.401	105.368	104.866	105.375
Zn 206.200	104.708	102.313	103.811

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8948	ppb	0.4133	0.8	4134.64
Al 308.215	4954.06	ppb	7.6519	0.2	34752.7
As 188.980	105.501	ppb	4.2225	4.0	74.9174
B 249.678	263.240	ppb	0.6469	0.2	3711.45
Ba 389.178	107.115	ppb	0.4874	0.5	2708.16
Be 313.042	50.5259	ppb	0.0152	0.0	103397
Ca 370.602	55306	ppb	55.22	0.1	171610
Cd 226.502	49.7414	ppb	0.0867	0.2	2568.32
Co 228.615	49.8830	ppb	0.2893	0.6	661.653
Cr 267.716	101.962	ppb	0.2844	0.3	6093.08
Cu 324.754	103.826	ppb	0.7665	0.7	6845.94
Fe 271.441	5031.40	ppb	5.2596	0.1	8727.45
K 766.491	8058.81	ppb	20.3015	0.3	348457
Mg 279.078	8059.87	ppb	4.7059	0.1	20806.2
Mn 257.610	515.227	ppb	0.2146	0.0	131861
Mo 202.032	104.946	ppb	0.7147	0.7	857.815

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	19439.8	ppb	122.129	0.6	831.983
Ni 231.604	99.7630	ppb	0.0431	0.0	350.209
Pb 220.353	49.0996	ppb	0.8048	1.6	106.118
Sb 206.834	49.7417	ppb	2.5837	5.2	82.1848
Se 196.026	102.210	ppb	1.6696	1.6	56.7184
Sn 189.925	207.988	ppb	0.3158	0.2	187.555
Sr 216.596	1729.11	ppb	1.6695	0.1	26463.6
Ti 334.941	98.0240	ppb	0.0750	0.1	28079.1
Tl 190.794	38.8018	ppb	0.2107	0.5	42.8665
V 292.401	105.203	ppb	0.2918	0.3	2970.82
Zn 206.200	103.611	ppb	1.2098	1.2	166.799

680-97090-f-1-c msd (Samp) 12/18/2013, 8:25:07 PM Rack 2, Tube 11
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.4431	50.2576	51.0519
Al 308.215	4964.76	4952.24	4957.29
As 188.980	109.083	108.466	107.151
B 249.678	261.130	263.134	262.927
Ba 389.178	108.135	107.183	107.283
Be 313.042	50.7214	50.5556	50.5879
Ca 370.602	54659	54490	54757
Cd 226.502	49.6829	49.8922	49.7518
Co 228.615	49.7855	50.4990	50.6276
Cr 267.716	102.349	102.094	102.519
Cu 324.754	104.137	103.848	102.977
Fe 271.441	5057.44	5033.10	5046.85
K 766.491	8042.52	7969.19	7993.71
Mg 279.078	8055.24	8030.66	8023.07
Mn 257.610	515.040	514.088	516.017
Mo 202.032	106.342	105.954	105.160
Na 330.237	19494.2	19603.0	19374.3
Ni 231.604	100.981	99.8570	100.062
Pb 220.353	51.0737	49.7814	50.4151
Sb 206.834	47.7056	51.0747	48.2180
Se 196.026	96.8596	95.9505	110.492
Sn 189.925	212.339	205.618	204.898
Sr 216.596	1712.65	1710.61	1709.34
Ti 334.941	98.3311	98.0204	98.3717
Tl 190.794	37.4628	38.0515	38.5592
V 292.401	106.096	105.548	105.729
Zn 206.200	100.418	101.167	99.2108

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.5842	ppb	0.4155	0.8	4109.62
Al 308.215	4958.10	ppb	6.3005	0.1	34780.8
As 188.980	108.234	ppb	0.9866	0.9	76.9941
B 249.678	262.397	ppb	1.1024	0.4	3699.70
Ba 389.178	107.533	ppb	0.5229	0.5	2718.70
Be 313.042	50.6216	ppb	0.0879	0.2	103593
Ca 370.602	54635	ppb	134.9	0.2	169522
Cd 226.502	49.7756	ppb	0.1067	0.2	2570.15
Co 228.615	50.3040	ppb	0.4537	0.9	667.251

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	102.321	ppb	0.2139	0.2	6114.49
Cu 324.754	103.654	ppb	0.6035	0.6	6834.88
Fe 271.441	5045.80	ppb	12.2043	0.2	8752.42
K 766.491	8001.81	ppb	37.3256	0.5	345994
Mg 279.078	8036.32	ppb	16.8156	0.2	20745.4
Mn 257.610	515.048	ppb	0.9643	0.2	131816
Mo 202.032	105.819	ppb	0.6028	0.6	864.876
Na 330.237	19490.5	ppb	114.387	0.6	834.142
Ni 231.604	100.300	ppb	0.5987	0.6	352.113
Pb 220.353	50.4234	ppb	0.6462	1.3	108.600
Sb 206.834	48.9994	ppb	1.8154	3.7	81.0580
Se 196.026	101.101	ppb	8.1458	8.1	56.1855
Sn 189.925	207.618	ppb	4.1041	2.0	187.199
Sr 216.596	1710.87	ppb	1.6679	0.1	26184.6
Ti 334.941	98.2411	ppb	0.1922	0.2	28141.3
Tl 190.794	38.0245	ppb	0.5487	1.4	41.8440
V 292.401	105.791	ppb	0.2793	0.3	2987.39
Zn 206.200	100.265	ppb	0.9871	1.0	161.629

680-97090-f-2-a (Samp)

12/18/2013, 8:29:53 PM

Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4829u	0.6300u	1.0202u
Al 308.215	6.8868	9.4685	9.8120
As 188.980	2.1066	0.6015	2.1308
B 249.678	45.7985	46.1084	45.7334
Ba 389.178	5.1666	5.0183	5.0725
Be 313.042	-0.0193u	-0.0176u	-0.0195u
Ca 370.602	59852	59538	59657
Cd 226.502	-0.0193u	0.1226	0.0511
Co 228.615	0.0412	0.0705	0.1747
Cr 267.716	0.2674	0.1997	0.1609
Cu 324.754	0.0844	0.3669	-0.0655u
Fe 271.441	35.7484	41.4265	33.9310
K 766.491	1724.81	1712.64	1708.70
Mg 279.078	2438.73	2418.09	2426.80
Mn 257.610	2.4372	2.4095	2.3787
Mo 202.032	1.2364	0.8765	1.7870
Na 330.237	10764.2	10765.7	10676.8
Ni 231.604	6.3901	6.8557	5.7179
Pb 220.353	-0.2267u	-1.8201u	1.6530
Sb 206.834	1.5294	1.9220	-0.5611u
Se 196.026	5.1318	-4.1475u	2.5004
Sn 189.925	1.5366	1.7715	2.7101
Sr 216.596	1960.10	1955.65	1953.08
Ti 334.941	0.2144	0.2712	0.2591
Tl 190.794	-1.7274u	-1.5507u	-2.2555u
V 292.401	0.4685	0.7564	0.5255
Zn 206.200	1.9966	1.5141	2.6090

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7110	ppb	0.2777	39.1	-54.2074
Al 308.215	8.7224	ppb	1.5990	18.3	329.695

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.6130	ppb	0.8760	54.3	-4.0099
B 249.678	45.8801	ppb	0.2004	0.4	703.255
Ba 389.178	5.0858	ppb	0.0751	1.5	106.869
Be 313.042	-0.0188	ppb	0.0010	5.5	-255.271
Ca 370.602	59682	ppb	158.3	0.3	185555
Cd 226.502	0.0515	ppb	0.0709	137.9	14.9879
Co 228.615	0.0955	ppb	0.0702	73.5	-2.3939
Cr 267.716	0.2093	ppb	0.0539	25.8	23.0982
Cu 324.754	0.1286	ppb	0.2196	170.7	155.146
Fe 271.441	37.0353	ppb	3.9099	10.6	76.7080
K 766.491	1715.38	ppb	8.3987	0.5	74368.4
Mg 279.078	2427.87	ppb	10.3593	0.4	6287.28
Mn 257.610	2.4085	ppb	0.0293	1.2	698.697
Mo 202.032	1.3000	ppb	0.4586	35.3	19.5863
Na 330.237	10735.6	ppb	50.8769	0.5	474.246
Ni 231.604	6.3212	ppb	0.5720	9.0	18.7597
Pb 220.353	-0.1313	ppb	1.7385	1324.5	13.5874
Sb 206.834	0.9634	ppb	1.3348	138.5	8.9415
Se 196.026	1.1616	ppb	4.7823	411.7	7.9408
Sn 189.925	2.0061	ppb	0.6209	31.0	-10.9940
Sr 216.596	1956.28	ppb	3.5490	0.2	29933.8
Ti 334.941	0.2482	ppb	0.0299	12.0	10.2372
Tl 190.794	-1.8445	ppb	0.3667	19.9	-9.7892
V 292.401	0.5835	ppb	0.1524	26.1	6.8599
Zn 206.200	2.0399	ppb	0.5487	26.9	10.1236

Cont Calib Verif (CCV)

12/18/2013, 8:34:39 PM

Rack 2, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	483.487	484.571	480.775
Al 308.215	4672.18	4681.80	4693.21
As 188.980	486.250	500.671	496.517
B 249.678	478.269	482.375	487.316
Ba 389.178	4875.96	4881.40	4885.88
Be 313.042	481.994	482.156	484.255
Ca 370.602	4582	4583	4604
Cd 226.502	487.055	487.573	490.412
Co 228.615	487.670	490.362	491.422
Cr 267.716	4858.89	4865.07	4880.33
Cu 324.754	4871.36	4873.82	4900.50
Fe 271.441	4878.30	4895.55	4905.38
K 766.491	9607.47	9661.22	9689.11
Mg 279.078	4972.59	4989.18	5007.00
Mn 257.610	4801.28	4799.61	4822.54
Mo 202.032	502.573	501.712	502.782
Na 330.237	7359.06	7204.41	7418.16
Ni 231.604	2365.55	2357.22	2378.24
Pb 220.353	469.947	472.161	471.220
Sb 206.834	934.100	936.672	941.710
Se 196.026	4869.07	4872.03	4894.85
Sn 189.925	4909.11	4949.43	4949.60
Sr 216.596	2446.07	2451.92	2461.68
Ti 334.941	464.095	464.068	464.202

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Label	Replicates Concentration		
Tl 190.794	4856.25	4855.65	4871.08
V 292.401	4898.42	4899.55	4919.39
Zn 206.200	2415.57	2416.42	2423.78

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.944	ppb	1.9554	0.4	40100.2	96.58887
Al 308.215	4682.39	ppb	10.5294	0.2	32286.9	93.64788
As 188.980	494.479	ppb	7.4233	1.5	370.431	98.89586
B 249.678	482.654	ppb	4.5298	0.9	6757.98	96.53070
Ba 389.178	4881.08	ppb	4.9661	0.1	123271	97.62160
Be 313.042	482.802	ppb	1.2614	0.3	991720	96.56030
Ca 370.602	4590	ppb	12.83	0.3	14326	91.79160
Cd 226.502	488.347	ppb	1.8073	0.4	24907.1	97.66941
Co 228.615	489.818	ppb	1.9341	0.4	6543.20	97.96358
Cr 267.716	4868.10	ppb	11.0332	0.2	290239	97.36195
Cu 324.754	4881.90	ppb	16.1635	0.3	314894	97.63791
Fe 271.441	4893.08	ppb	13.7088	0.3	8597.93	97.86150
K 766.491	9652.60	ppb	41.4975	0.4	417322	96.52601
Mg 279.078	4989.59	ppb	17.2112	0.3	12798.6	99.79184
Mn 257.610	4807.81	ppb	12.7817	0.3	1229196	96.15622
Mo 202.032	502.356	ppb	0.5672	0.1	4063.65	100.47116
Na 330.237	7327.21	ppb	110.377	1.5	295.600	97.69609
Ni 231.604	2367.01	ppb	10.5847	0.4	8391.09	94.68027
Pb 220.353	471.109	ppb	1.1112	0.2	897.761	94.22184
Sb 206.834	937.494	ppb	3.8709	0.4	1498.03	93.74940
Se 196.026	4878.65	ppb	14.1075	0.3	2353.88	97.57301
Sn 189.925	4936.04	ppb	23.3305	0.5	4744.96	98.72090
Sr 216.596	2453.23	ppb	7.8846	0.3	37452.3	98.12904
Ti 334.941	464.122	ppb	0.0708	0.0	133066	92.82435
Tl 190.794	4860.99	ppb	8.7444	0.2	6379.60	97.21986
V 292.401	4905.79	ppb	11.7927	0.2	139571	98.11573
Zn 206.200	2418.59	ppb	4.5125	0.2	3736.93	96.74363

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Rack 2, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0979u	-0.1385u	-0.0760u
Al 308.215	-5.7111u	-5.9749u	-7.0926u
As 188.980	4.5232	3.7409	1.0795
B 249.678	3.0161	2.0298	2.4696
Ba 389.178	0.5904	0.5462	0.0986
Be 313.042	0.0015	0.0005	0.0013
Ca 370.602	-0.5503u	0.7489	-2.384u
Cd 226.502	0.0892	0.1192	-0.0069u
Co 228.615	0.6840	0.3337	-0.0292u
Cr 267.716	0.3354	0.3366	0.2000
Cu 324.754	-0.2954u	-0.2216u	-0.1936u
Fe 271.441	2.7530	-4.5148u	-3.0389u
K 766.491	1.5749	0.5707	0.8033
Mg 279.078	-0.6257u	1.2903	-3.1961u
Mn 257.610	0.0122	0.0517	0.0926
Mo 202.032	0.3128	1.2587	0.8678
Na 330.237	207.070	38.8140	-254.699u

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Label	Replicates Concentration		
Ni 231.604	0.1837	1.4688	1.6307
Pb 220.353	-0.2728u	-0.3523u	1.3318
Sb 206.834	-4.5836u	-0.3837u	-1.6205u
Se 196.026	-3.5711u	-0.4775u	-5.2352u
Sn 189.925	3.9751	3.0023	1.6933
Sr 216.596	-0.0953u	0.1278	0.0637
Ti 334.941	0.1848	0.1875	0.1476
Tl 190.794	0.7178	1.8635	0.6389
V 292.401	0.4339	0.3455	0.2578
Zn 206.200	-2.1973u	-1.0748u	-0.9116u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1041	ppb	0.0317	30.4	-19.6896	-0.10413
Al 308.215	-6.2595	ppb	0.7334	11.7	225.379	-6.25953
As 188.980	3.1145	ppb	1.8053	58.0	-2.8682	3.11451
B 249.678	2.5051	ppb	0.4941	19.7	101.105	2.50513
Ba 389.178	0.4117	ppb	0.2721	66.1	-18.0348	0.41172
Be 313.042	0.0011	ppb	0.0005	47.2	-237.013	0.00111
Ca 370.602	-0.7286	ppb	1.574	216.1	8.912	-0.72860
Cd 226.502	0.0672	ppb	0.0658	98.0	15.6253	0.06716
Co 228.615	0.3295	ppb	0.3566	108.2	0.7450	0.32951
Cr 267.716	0.2907	ppb	0.0785	27.0	27.7173	0.29068
Cu 324.754	-0.2368	ppb	0.0526	22.2	131.547	-0.23683
Fe 271.441	-1.6002	ppb	3.8416	240.1	9.8631	-1.60023
K 766.491	0.9830	ppb	0.5257	53.5	291.989	0.98301
Mg 279.078	-0.8438	ppb	2.2512	266.8	21.0571	-0.84385
Mn 257.610	0.0522	ppb	0.0402	77.1	73.8383	0.05216
Mo 202.032	0.8131	ppb	0.4753	58.5	15.6495	0.81311
Na 330.237	-2.9381	ppb	233.699	7954.0	29.3895	-2.93813
Ni 231.604	1.0944	ppb	0.7928	72.4	0.2178	1.09440
Pb 220.353	0.2356	ppb	0.9502	403.4	14.2726	0.23557
Sb 206.834	-2.1960	ppb	2.1583	98.3	4.2228	-2.19596
Se 196.026	-3.0946	ppb	2.4144	78.0	5.8935	-3.09463
Sn 189.925	2.8903	ppb	1.1450	39.6	-10.1764	2.89026
Sr 216.596	0.0321	ppb	0.1148	358.3	10.3488	0.03205
Ti 334.941	0.1733	ppb	0.0223	12.9	-21.5278	0.17331
Tl 190.794	1.0734	ppb	0.6854	63.9	-5.9486	1.07339
V 292.401	0.3457	ppb	0.0880	25.5	0.2166	0.34575
Zn 206.200	-1.3946	ppb	0.7000	50.2	4.8181	-1.39459

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Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6188u	0.6627u	0.4392u
Al 308.215	6.8643	6.4498	8.4236
As 188.980	102.499	102.478	102.771
B 249.678	406.400	408.420	408.598
Ba 389.178	6.0893	5.5592	5.7717
Be 313.042	-0.0196u	-0.0343u	-0.0323u
Ca 370.602	81624	81660	81752
Cd 226.502	0.1552	0.1238	0.0474
Co 228.615	-0.3003u	0.0763	-0.1895u
Cr 267.716	0.4218	0.4747	0.5907

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Label	Replicates Concentration		
Cu 324.754	1.2638	1.2817	1.2380
Fe 271.441	11.0469	6.7807	8.7014
K 766.491	4512.99	4527.79	4534.73
Mg 279.078	22871.6	22884.6	22881.6
Mn 257.610	-0.1462	-0.1526	-0.2233
Mo 202.032	7.5042	6.8953	7.2517
Na 330.237	68801.8	69055.3	69075.7
Ni 231.604	3.3714	3.4214	3.8200
Pb 220.353	0.9303	0.6165	1.5585
Sb 206.834	9.9209	9.5021	9.8702
Se 196.026	5.5047	4.6946	9.3599
Sn 189.925	2.1239	1.4264	0.7796
Sr 216.596	2185.64	2182.75	2184.82
Ti 334.941	0.0121	-0.0204	-0.0169
Tl 190.794	0.8441	-1.3836u	-1.2280u
V 292.401	2.2235	2.0303	2.1191
Zn 206.200	6.9388	7.6329	6.7487

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5736	ppb	0.1184	20.6	-77.6871
Al 308.215	7.2459	ppb	1.0408	14.4	319.579
As 188.980	102.583	ppb	0.1634	0.2	72.7313
B 249.678	407.806	ppb	1.2213	0.3	5728.40
Ba 389.178	5.8067	ppb	0.2668	4.6	182.369
Be 313.042	-0.0287	ppb	0.0079	27.6	-274.695
Ca 370.602	81679	ppb	66.04	0.1	253944
Cd 226.502	0.1088	ppb	0.0555	51.0	17.7217
Co 228.615	-0.1379	ppb	0.1935	140.4	-5.6892
Cr 267.716	0.4957	ppb	0.0864	17.4	41.2695
Cu 324.754	1.2612	ppb	0.0220	1.7	228.351
Fe 271.441	8.8430	ppb	2.1366	24.2	27.9123
K 766.491	4525.17	ppb	11.1058	0.2	195775
Mg 279.078	22879.3	ppb	6.8035	0.0	59053.5
Mn 257.610	-0.1741	ppb	0.0428	24.6	219.728
Mo 202.032	7.2171	ppb	0.3059	4.2	67.4676
Na 330.237	68977.6	ppb	152.576	0.2	2887.25
Ni 231.604	3.5376	ppb	0.2458	6.9	8.8857
Pb 220.353	1.0351	ppb	0.4796	46.3	15.7635
Sb 206.834	9.7644	ppb	0.2286	2.3	21.9892
Se 196.026	6.5197	ppb	2.4928	38.2	10.5156
Sn 189.925	1.4433	ppb	0.6723	46.6	-11.5041
Sr 216.596	2184.41	ppb	1.4882	0.1	33425.5
Ti 334.941	-0.0084	ppb	0.0179	212.0	25.5200
Tl 190.794	-0.5892	ppb	1.2437	211.1	-8.1382
V 292.401	2.1243	ppb	0.0967	4.6	49.5859
Zn 206.200	7.1068	ppb	0.4654	6.5	17.9525

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Rack 2, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.6214u	1.7181u	1.6154u
Al 308.215	1.3139	1.9578	2.3292
As 188.980	14.9030	12.3123	11.1666

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Label	Replicates Concentration		
B 249.678	309.683	308.584	311.164
Ba 389.178	8.0358	9.1692	8.8044
Be 313.042	-0.0259u	-0.0236u	-0.0223u
Ca 370.602	106292	105980	106715
Cd 226.502	0.0790	0.2601	0.1369
Co 228.615	0.4084	0.0401	0.0130
Cr 267.716	0.1082	0.1327	-0.0007
Cu 324.754	1.1468	1.3517	1.3810
Fe 271.441	7.0428	11.4838	7.9010
K 766.491	6517.03	6538.72	6599.00
Mg 279.078	15788.1	15682.0	15780.7
Mn 257.610	0.2039	0.2222	0.2396
Mo 202.032	4.6676	4.1109	3.8581
Na 330.237	152188x	150872x	151516x
Ni 231.604	3.4388	4.5607	4.2373
Pb 220.353	-0.2738u	2.9893	1.4554
Sb 206.834	-1.9701u	-1.7904u	-2.5516u
Se 196.026	3.1331	-3.7882u	10.8865
Sn 189.925	2.2597	0.0456	-1.8597u
Sr 216.596	4903.52	4875.15	4901.45
Ti 334.941	0.0980	0.1503	0.0674
Tl 190.794	-2.8298u	-2.9462u	-1.3197u
V 292.401	1.0705	1.1068	1.4427
Zn 206.200	9.2753	8.8242	8.0073

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6516b	ppb	0.0576	3.5	-129.001
Al 308.215	1.8670b	ppb	0.5137	27.5	282.062
As 188.980	12.7940b	ppb	1.9142	15.0	4.4876
B 249.678	309.811b	ppb	1.2947	0.4	4367.81
Ba 389.178	8.6698b	ppb	0.5786	6.7	234.680
Be 313.042	-0.0239b	ppb	0.0018	7.6	-263.901
Ca 370.602	106329b	ppb	369.3	0.3	330579
Cd 226.502	0.1587b	ppb	0.0925	58.3	19.5912
Co 228.615	0.1538b	ppb	0.2209	143.6	-1.6996
Cr 267.716	0.0801b	ppb	0.0710	88.7	18.1171
Cu 324.754	1.2932b	ppb	0.1276	9.9	230.320
Fe 271.441	8.8092b	ppb	2.3557	26.7	27.8727
K 766.491	6551.59b	ppb	42.4729	0.6	283333
Mg 279.078	15750.3b	ppb	59.2508	0.4	40660.1
Mn 257.610	0.2219b	ppb	0.0179	8.0	257.697
Mo 202.032	4.2122b	ppb	0.4141	9.8	43.1533
Na 330.237	151525xb	ppb	657.672	0.4	6307.31
Ni 231.604	4.0789b	ppb	0.5775	14.2	10.8051
Pb 220.353	1.3903b	ppb	1.6325	117.4	16.4345
Sb 206.834	-2.1040b	ppb	0.3979	18.9	4.2701
Se 196.026	3.4105b	ppb	7.3413	215.3	9.0210
Sn 189.925	0.1486b	ppb	2.0616	1387.8	-12.7093
Sr 216.596	4893.37b	ppb	15.8190	0.3	74854.1
Ti 334.941	0.1052b	ppb	0.0419	39.9	19.8646
Tl 190.794	-2.3652b	ppb	0.9073	38.4	-10.4701
V 292.401	1.2067b	ppb	0.2052	17.0	23.2820
Zn 206.200	8.7023b	ppb	0.6427	7.4	20.4181

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680-97090-f-5-a (Samp) **12/18/2013, 8:53:38 PM** **Rack 2, Tube 17****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7131u	0.6213u	0.5756u
Al 308.215	92.7344	92.4135	91.6341
As 188.980	5.2166	0.6706	-0.5118u
B 249.678	58.7208	58.7067	58.5659
Ba 389.178	8.3824	8.6460	7.8961
Be 313.042	-0.0219u	-0.0269u	-0.0280u
Ca 370.602	59397	59308	59366
Cd 226.502	-0.0589u	0.0039	0.0533
Co 228.615	0.2433	0.1132	0.4128
Cr 267.716	0.2144	0.1519	0.3453
Cu 324.754	0.6136	0.6446	0.4812
Fe 271.441	10.3000	11.7588	7.3611
K 766.491	1889.33	1887.37	1892.81
Mg 279.078	2620.98	2613.57	2605.77
Mn 257.610	10.0975	10.0787	10.1331
Mo 202.032	1.3786	1.2162	1.1321
Na 330.237	15995.7	16160.8	16209.0
Ni 231.604	5.9352	5.2078	5.5268
Pb 220.353	0.1700	-0.0006u	-1.0787u
Sb 206.834	-1.9962u	-0.5926u	-0.4659u
Se 196.026	7.5124	2.6102	-1.1436u
Sn 189.925	1.7632	-1.0646u	2.8463
Sr 216.596	2194.53	2190.28	2189.53
Ti 334.941	0.2912	0.2566	0.2521
Tl 190.794	-2.4741u	-2.9066u	-3.5263u
V 292.401	2.2285	2.0890	2.0583
Zn 206.200	2.9088	3.9986	2.6500

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6367	ppb	0.0701	11.0	-72.5574
Al 308.215	92.2607	ppb	0.5659	0.6	911.093
As 188.980	1.7918	ppb	3.0243	168.8	-3.8726
B 249.678	58.6645	ppb	0.0856	0.1	880.808
Ba 389.178	8.3082	ppb	0.3804	4.6	188.728
Be 313.042	-0.0256	ppb	0.0032	12.7	-269.282
Ca 370.602	59357	ppb	45.32	0.1	184547
Cd 226.502	-0.0006	ppb	0.0562	9766.8	12.1865
Co 228.615	0.2564	ppb	0.1503	58.6	-0.2382
Cr 267.716	0.2372	ppb	0.0987	41.6	24.8831
Cu 324.754	0.5798	ppb	0.0868	15.0	184.203
Fe 271.441	9.8066	ppb	2.2400	22.8	29.6159
K 766.491	1889.84	ppb	2.7535	0.1	81906.2
Mg 279.078	2613.44	ppb	7.6027	0.3	6765.87
Mn 257.610	10.1031	ppb	0.0276	0.3	2667.30
Mo 202.032	1.2423	ppb	0.1253	10.1	19.1180
Na 330.237	16121.8	ppb	111.852	0.7	697.404
Ni 231.604	5.5566	ppb	0.3646	6.6	16.0463
Pb 220.353	-0.3031	ppb	0.6771	223.4	13.2634
Sb 206.834	-1.0182	ppb	0.8493	83.4	5.9757
Se 196.026	2.9930	ppb	4.3407	145.0	8.8227
Sn 189.925	1.1816	ppb	2.0193	170.9	-11.7869
Sr 216.596	2191.45	ppb	2.6951	0.1	33529.8

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.2667	ppb	0.0214	8.0	15.9958
Tl 190.794	-2.9690	ppb	0.5289	17.8	-11.2670
V 292.401	2.1252	ppb	0.0907	4.3	50.8190
Zn 206.200	3.1858	ppb	0.7157	22.5	11.8947

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Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1642u	0.7891u	0.8201u
Al 308.215	5.2441	5.4444	6.4354
As 188.980	13.6159	12.4557	14.5956
B 249.678	384.090	385.814	386.586
Ba 389.178	5.6695	5.8366	7.3975
Be 313.042	-0.0332u	-0.0354u	-0.0352u
Ca 370.602	101758	102476	101952
Cd 226.502	0.0236	0.1642	0.0117
Co 228.615	0.1533	0.0645	-0.3574u
Cr 267.716	0.1409	0.2132	0.3665
Cu 324.754	-0.4521u	-0.5050u	-0.5004u
Fe 271.441	24.3574	27.5190	22.3029
K 766.491	2753.67	2754.27	2747.75
Mg 279.078	8055.31	8054.30	8040.46
Mn 257.610	0.6540	0.7259	0.7103
Mo 202.032	1.4716	1.6062	1.6825
Na 330.237	20758.6	20614.8	20618.9
Ni 231.604	3.2866	1.9159	2.1231
Pb 220.353	0.6919	1.0403	1.4620
Sb 206.834	-1.9134u	2.0320	-1.0600u
Se 196.026	2.0903	-2.4457u	1.0274
Sn 189.925	-0.7462u	2.3929	-5.3531u
Sr 216.596	3019.74	3027.11	3022.18
Ti 334.941	0.2224	0.2145	0.1927
Tl 190.794	-4.4756u	-1.3903u	-3.1260u
V 292.401	1.5447	1.5220	1.2951
Zn 206.200	2.3348	3.0299	3.1963

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9245	ppb	0.2082	22.5	-91.9515
Al 308.215	5.7080	ppb	0.6379	11.2	308.613
As 188.980	13.5557	ppb	1.0712	7.9	5.0673
B 249.678	385.497	ppb	1.2781	0.3	5418.62
Ba 389.178	6.3012	ppb	0.9531	15.1	153.285
Be 313.042	-0.0346	ppb	0.0012	3.4	-271.725
Ca 370.602	102062	ppb	371.3	0.4	317312
Cd 226.502	0.0665	ppb	0.0848	127.5	15.7055
Co 228.615	-0.0465	ppb	0.2728	586.3	-4.2885
Cr 267.716	0.2402	ppb	0.1152	48.0	25.1093
Cu 324.754	-0.4859	ppb	0.0293	6.0	115.512
Fe 271.441	24.7265	ppb	2.6276	10.6	55.3984
K 766.491	2751.90	ppb	3.6026	0.1	119154
Mg 279.078	8050.02	ppb	8.3004	0.1	20792.9
Mn 257.610	0.6967	ppb	0.0378	5.4	311.476
Mo 202.032	1.5868	ppb	0.1068	6.7	21.9066

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	20664.1	ppb	81.9070	0.4	885.600
Ni 231.604	2.4419	ppb	0.7389	30.3	4.9992
Pb 220.353	1.0648	ppb	0.3857	36.2	15.8290
Sb 206.834	-0.3138	ppb	2.0758	661.5	7.0223
Se 196.026	0.2240	ppb	2.3723	1059.2	7.4894
Sn 189.925	-1.2354	ppb	3.8961	315.4	-14.0930
Sr 216.596	3023.01	ppb	3.7522	0.1	46252.5
Ti 334.941	0.2099	ppb	0.0154	7.3	24.0830
Tl 190.794	-2.9973	ppb	1.5467	51.6	-11.3008
V 292.401	1.4540	ppb	0.1380	9.5	31.6483
Zn 206.200	2.8537	ppb	0.4570	16.0	11.3813

680-97084-c-4-b (Samp)

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Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0444u	0.2071	0.3466
Al 308.215	1502.89	1503.19	1497.16
As 188.980	9.3673	8.9707	12.6863
B 249.678	32.0183	32.0168	31.9613
Ba 389.178	78.8509	79.0574	78.4296
Be 313.042	0.0994	0.1106	0.1100
Ca 370.602	17146	17209	17202
Cd 226.502	0.1364	0.0066	0.0709
Co 228.615	1.6059	1.8864	1.5599
Cr 267.716	1.8331	1.6192	1.6980
Cu 324.754	2.4789	2.7484	3.0430
Fe 271.441	7400.63	7425.83	7404.13
K 766.491	1845.71	1851.58	1850.01
Mg 279.078	3630.35	3654.34	3632.24
Mn 257.610	148.420	149.252	148.733
Mo 202.032	-0.1483u	-0.1273u	-0.1609u
Na 330.237	9489.56	9845.31	9759.10
Ni 231.604	3.2591	2.6848	1.6955
Pb 220.353	1736.98	1751.02	1747.22
Sb 206.834	16.7887	11.1839	14.0230
Se 196.026	-8.1231u	-0.9891u	-2.3083u
Sn 189.925	-1.0930u	1.0132	2.0915
Sr 216.596	102.357	102.732	102.890
Ti 334.941	21.0533	19.9440	21.2931
Tl 190.794	-3.3027u	-3.6936u	-5.0789u
V 292.401	5.6471	5.8382	5.8397
Zn 206.200	15.7950	13.5984	13.7181

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1698	ppb	0.1981	116.7	-4.6665
Al 308.215	1501.08	ppb	3.3961	0.2	10718.9
As 188.980	10.3415	ppb	2.0404	19.7	2.5543
B 249.678	31.9988	ppb	0.0325	0.1	496.202
Ba 389.178	78.7793	ppb	0.3200	0.4	1983.26
Be 313.042	0.1067	ppb	0.0063	5.9	-12.8644
Ca 370.602	17186	ppb	34.70	0.2	52842
Cd 226.502	0.0713	ppb	0.0649	91.1	49.2248
Co 228.615	1.6841	ppb	0.1768	10.5	19.7239

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1.7168	ppb	0.1082	6.3	115.940
Cu 324.754	2.7568	ppb	0.2822	10.2	327.317
Fe 271.441	7410.19	ppb	13.6501	0.2	12837.9
K 766.491	1849.10	ppb	3.0370	0.2	80146.1
Mg 279.078	3638.98	ppb	13.3421	0.4	9408.53
Mn 257.610	148.802	ppb	0.4204	0.3	38155.4
Mo 202.032	-0.1455	ppb	0.0170	11.7	7.4637
Na 330.237	9697.99	ppb	185.579	1.9	429.374
Ni 231.604	2.5465	ppb	0.7909	31.1	5.5740
Pb 220.353	1745.07	ppb	7.2608	0.4	3287.70
Sb 206.834	13.9985	ppb	2.8025	20.0	28.7994
Se 196.026	-3.8068	ppb	3.7957	99.7	5.7009
Sn 189.925	0.6706	ppb	1.6197	241.5	-12.3039
Sr 216.596	102.660	ppb	0.2733	0.3	1595.86
Ti 334.941	20.7635	ppb	0.7197	3.5	5900.72
Tl 190.794	-4.0251	ppb	0.9334	23.2	-13.5541
V 292.401	5.7750	ppb	0.1108	1.9	158.420
Zn 206.200	14.3705	ppb	1.2351	8.6	29.0033

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Rack 2, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7409	0.5065	0.7205
Al 308.215	38.8483	35.6312	34.6656
As 188.980	143.017	152.929	148.299
B 249.678	369.681	372.718	375.229
Ba 389.178	68.2121	67.6398	67.7725
Be 313.042	0.3142	0.2940	0.2966
Ca 370.602	20352	20225	20207
Cd 226.502	0.6166	0.3998	0.4017
Co 228.615	22.4074	21.8017	22.5375
Cr 267.716	23.2273	23.1266	23.2023
Cu 324.754	15.5464	15.6029	15.3862
Fe 271.441	834.050	824.040	828.336
K 766.491	75113.5x	74829.0x	74616.7x
Mg 279.078	128676	128850	129225
Mn 257.610	190.914	190.166	190.670
Mo 202.032	132.557	133.330	133.775
Na 330.237	1863682x	1869295x	1876005x
Ni 231.604	41.5410	41.0625	40.5171
Pb 220.353	4.5888	-0.0649u	3.0321
Sb 206.834	-2.2380u	0.2193u	3.1483
Se 196.026	8.4019	14.8964	13.9742
Sn 189.925	3.2816	-2.5932u	-2.5739u
Sr 216.596	535.368	536.687	537.431
Ti 334.941	6.2551	6.1295	6.0352
Tl 190.794	-4.9577u	-1.2887u	-7.3054u
V 292.401	464.803	465.224	464.606
Zn 206.200	88.4132	92.5927	92.2120

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6560b	ppb	0.1299	19.8	17.1377
Al 308.215	36.3817b	ppb	2.1900	6.0	472.515

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	148.082b	ppb	4.9597	3.3	107.262
B 249.678	372.543b	ppb	2.7780	0.7	5237.31
Ba 389.178	67.8748b	ppb	0.2995	0.4	2049.75
Be 313.042	0.3016b	ppb	0.0110	3.6	358.893
Ca 370.602	20261b	ppb	79.38	0.4	62945
Cd 226.502	0.4727b	ppb	0.1246	26.4	29.8432
Co 228.615	22.2489b	ppb	0.3927	1.8	289.317
Cr 267.716	23.1854b	ppb	0.0525	0.2	1424.84
Cu 324.754	15.5118b	ppb	0.1124	0.7	1146.10
Fe 271.441	828.809b	ppb	5.0216	0.6	1454.64
K 766.491	74853.1xb	ppb	249.268	0.3	3234525
Mg 279.078	128917b	ppb	281.054	0.2	332635
Mn 257.610	190.583b	ppb	0.3812	0.2	49916.2
Mo 202.032	133.221b	ppb	0.6165	0.5	1086.10
Na 330.237	1869661xb	ppb	6169.27	0.3	77491.0
Ni 231.604	41.0402b	ppb	0.5123	1.2	141.873
Pb 220.353	2.5187b	ppb	2.3690	94.1	18.4588
Sb 206.834	0.3766b	ppb	2.6966	716.1	5.2287
Se 196.026	12.4241b	ppb	3.5138	28.3	13.4147
Sn 189.925	-0.6285b	ppb	3.3862	538.8	-12.8832
Sr 216.596	536.495b	ppb	1.0446	0.2	8214.81
Ti 334.941	6.1399b	ppb	0.1103	1.8	2144.66
Tl 190.794	-4.5173b	ppb	3.0324	67.1	-13.2298
V 292.401	464.878b	ppb	0.3161	0.1	13212.6
Zn 206.200	91.0726b	ppb	2.3110	2.5	147.631

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Rack 2, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0891u	-0.1866u	0.0111u
Al 308.215	16.4768	16.7325	15.0866
As 188.980	4.5889	5.1863	1.4500
B 249.678	31.5318	32.5280	32.3951
Ba 389.178	4.8149	4.6835	5.2401
Be 313.042	-0.0147u	-0.0159u	-0.0156u
Ca 370.602	37310	37067	36999
Cd 226.502	0.0314	-0.0403u	-0.0280u
Co 228.615	0.0993	0.2058	0.0471
Cr 267.716	0.3650	0.3098	0.3147
Cu 324.754	0.2540	0.1165	0.1488
Fe 271.441	81.1300	75.8314	70.8808
K 766.491	2720.75	2711.51	2714.04
Mg 279.078	9675.45	9653.79	9671.85
Mn 257.610	2.5670	2.6198	2.5959
Mo 202.032	0.2950	0.9869	0.5712
Na 330.237	10488.2	10429.5	10814.0
Ni 231.604	0.6773	1.8842	1.9070
Pb 220.353	0.4966	-0.0755u	-0.0476u
Sb 206.834	-2.8756u	-0.6693u	-0.7914u
Se 196.026	-4.0643u	-1.4958u	-8.2767u
Sn 189.925	0.2563	-1.8177u	0.6016
Sr 216.596	84.0337	83.1944	83.5673
Ti 334.941	0.4405	0.4541	0.4755

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Label	Replicates Concentration		
Tl 190.794	-2.1290u	-4.7849u	-4.9464u
V 292.401	1.2968	1.1066	1.3517
Zn 206.200	2.9789	2.4339	3.5875

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0882	ppb	0.0989	112.1	-22.9795
Al 308.215	16.0986	ppb	0.8858	5.5	380.918
As 188.980	3.7417	ppb	2.0070	53.6	-2.3921
B 249.678	32.1516	ppb	0.5409	1.7	512.572
Ba 389.178	4.9128	ppb	0.2909	5.9	122.875
Be 313.042	-0.0154	ppb	0.0006	3.9	-257.274
Ca 370.602	37125	ppb	163.4	0.4	115424
Cd 226.502	-0.0123	ppb	0.0383	311.3	12.0380
Co 228.615	0.1174	ppb	0.0809	68.9	-2.0607
Cr 267.716	0.3298	ppb	0.0305	9.3	30.2868
Cu 324.754	0.1731	ppb	0.0719	41.5	157.994
Fe 271.441	75.9474	ppb	5.1256	6.7	144.064
K 766.491	2715.43	ppb	4.7726	0.2	117579
Mg 279.078	9667.03	ppb	11.6084	0.1	24964.9
Mn 257.610	2.5942	ppb	0.0265	1.0	810.225
Mo 202.032	0.6177	ppb	0.3483	56.4	14.0617
Na 330.237	10577.2	ppb	207.177	2.0	467.667
Ni 231.604	1.4895	ppb	0.7035	47.2	1.6222
Pb 220.353	0.1245	ppb	0.3226	259.0	14.0712
Sb 206.834	-1.4454	ppb	1.2401	85.8	5.3545
Se 196.026	-4.6123	ppb	3.4235	74.2	5.1659
Sn 189.925	-0.3199	ppb	1.3085	409.0	-13.2479
Sr 216.596	83.5985	ppb	0.4205	0.5	1294.05
Ti 334.941	0.4567	ppb	0.0176	3.9	103.015
Tl 190.794	-3.9534	ppb	1.5820	40.0	-12.5635
V 292.401	1.2517	ppb	0.1286	10.3	26.1681
Zn 206.200	3.0001	ppb	0.5771	19.2	11.6062

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Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0078u	0.2401	-0.0593u
Al 308.215	-1.1309u	-2.1502u	-2.4585u
As 188.980	1.2441	2.8830	5.2061
B 249.678	9.6050	8.8936	9.2476
Ba 389.178	5.8703	6.5395	5.9701
Be 313.042	-0.0112u	-0.0104u	-0.0105u
Ca 370.602	3346	3312	3326
Cd 226.502	-0.0795u	-0.0865u	0.0091
Co 228.615	1.0001	1.0438	1.2427
Cr 267.716	7.8808	7.7549	7.7313
Cu 324.754	1.4324	0.9227	1.8162
Fe 271.441	14.3637	17.2732	17.2069
K 766.491	52294.1x	51903.7x	52434.3x
Mg 279.078	2846.88	2822.05	2829.15
Mn 257.610	0.1592	0.1409	0.1819
Mo 202.032	2.5539	2.3549	2.9124
Na 330.237	23309.3	23173.6	22818.0

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Label	Replicates Concentration		
Ni 231.604	1.3427	0.9287	1.6179
Pb 220.353	0.6820	0.5215	-0.3955u
Sb 206.834	-3.4915u	-0.8166u	-4.3122u
Se 196.026	2.9953	-0.5313u	1.7163
Sn 189.925	0.8142	1.2337	-1.3930u
Sr 216.596	307.205	303.989	304.164
Ti 334.941	0.0376	0.0946	0.0670
Tl 190.794	-2.8005u	-4.2050u	-2.3317u
V 292.401	0.2518	0.3996	0.1650
Zn 206.200	2.9428	2.4431	2.0715

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0577b	ppb	0.1601	277.4	-22.2019
Al 308.215	-1.9132b	ppb	0.6948	36.3	255.747
As 188.980	3.1111b	ppb	1.9908	64.0	-2.8715
B 249.678	9.2488b	ppb	0.3557	3.8	194.822
Ba 389.178	6.1266b	ppb	0.3610	5.9	134.258
Be 313.042	-0.0107b	ppb	0.0004	4.0	-265.676
Ca 370.602	3328b	ppb	16.89	0.5	10356
Cd 226.502	-0.0523b	ppb	0.0533	101.8	9.5275
Co 228.615	1.0955b	ppb	0.1293	11.8	10.9831
Cr 267.716	7.7890b	ppb	0.0804	1.0	475.267
Cu 324.754	1.3904b	ppb	0.4482	32.2	236.543
Fe 271.441	16.2813b	ppb	1.6610	10.2	40.9096
K 766.491	52210.7xb	ppb	274.970	0.5	2256186
Mg 279.078	2832.69b	ppb	12.7847	0.5	7331.80
Mn 257.610	0.1606b	ppb	0.0205	12.8	126.653
Mo 202.032	2.6071b	ppb	0.2825	10.8	30.1658
Na 330.237	23100.3b	ppb	253.698	1.1	986.537
Ni 231.604	1.2964b	ppb	0.3469	26.8	0.9330
Pb 220.353	0.2694b	ppb	0.5813	215.8	14.3349
Sb 206.834	-2.8734b	ppb	1.8280	63.6	3.3032
Se 196.026	1.3934b	ppb	1.7853	128.1	8.0514
Sn 189.925	0.2183b	ppb	1.4111	646.4	-12.7419
Sr 216.596	305.119b	ppb	1.8082	0.6	4676.17
Ti 334.941	0.0664b	ppb	0.0285	42.9	-40.9407
Tl 190.794	-3.1124b	ppb	0.9748	31.3	-11.4497
V 292.401	0.2721b	ppb	0.1186	43.6	-2.6942
Zn 206.200	2.4858b	ppb	0.4372	17.6	10.8026

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Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0132u	-0.2041u	-0.1523u
Al 308.215	239.638	238.294	239.597
As 188.980	9.1662	8.1285	3.1967
B 249.678	174.130	175.216	175.694
Ba 389.178	85.9564	86.5059	87.1686
Be 313.042	0.1191	0.1203	0.1195
Ca 370.602	33891	33920	33990
Cd 226.502	-0.1935	-0.4365	-0.3240
Co 228.615	1.9547	2.0407	1.7761
Cr 267.716	2.4295	2.4812	2.4389

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Label	Replicates Concentration		
Cu 324.754	6.7818	6.9994	6.7726
Fe 271.441	27098.3	27110.5	27209.8
K 766.491	2104.59	2107.22	2106.82
Mg 279.078	7733.64	7746.94	7762.78
Mn 257.610	567.741	566.632	569.156
Mo 202.032	0.0792u	0.2037	0.0455u
Na 330.237	7565.02	7701.82	7440.06
Ni 231.604	1.4264	1.2919	3.6445
Pb 220.353	0.3573	5.3018	2.5572
Sb 206.834	-3.1462u	0.0709	-2.8980u
Se 196.026	-4.1678u	0.7514	3.1145
Sn 189.925	4.5344	3.3844	1.6070
Sr 216.596	156.707	156.108	157.388
Ti 334.941	8.9496	8.9744	8.9660
Tl 190.794	-1.1420u	-1.7047u	-4.1335u
V 292.401	13.2187	13.3292	13.1907
Zn 206.200	6.4338	5.1701	7.4198

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1144	ppb	0.1135	99.2	-37.3689
Al 308.215	239.176	ppb	0.7647	0.3	1932.41
As 188.980	6.8305	ppb	3.1894	46.7	-0.3679
B 249.678	175.013	ppb	0.8012	0.5	2443.56
Ba 389.178	86.5436	ppb	0.6070	0.7	2222.96
Be 313.042	0.1196	ppb	0.0006	0.5	23.5918
Ca 370.602	33933	ppb	50.90	0.1	103278
Cd 226.502	-0.3180	ppb	0.1216	38.3	118.117
Co 228.615	1.9238	ppb	0.1350	7.0	23.3769
Cr 267.716	2.4499	ppb	0.0276	1.1	167.587
Cu 324.754	6.8512	ppb	0.1284	1.9	598.806
Fe 271.441	27139.5	ppb	61.1432	0.2	46984.2
K 766.491	2106.21	ppb	1.4185	0.1	91255.2
Mg 279.078	7747.79	ppb	14.5852	0.2	20001.6
Mn 257.610	567.843	ppb	1.2651	0.2	145376
Mo 202.032	0.1094	ppb	0.0833	76.1	8.4021
Na 330.237	7568.97	ppb	130.923	1.7	336.943
Ni 231.604	2.1209	ppb	1.3211	62.3	4.6183
Pb 220.353	2.7388	ppb	2.4772	90.5	21.2704
Sb 206.834	-1.9911	ppb	1.7901	89.9	5.5234
Se 196.026	-0.1006	ppb	3.7152	3691.5	7.8863
Sn 189.925	3.1753	ppb	1.4748	46.4	-9.8823
Sr 216.596	156.735	ppb	0.6402	0.4	2461.34
Ti 334.941	8.9633	ppb	0.0126	0.1	2537.37
Tl 190.794	-2.3267	ppb	1.5898	68.3	-13.7638
V 292.401	13.2462	ppb	0.0732	0.6	379.113
Zn 206.200	6.3412	ppb	1.1277	17.8	16.1432

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Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2510u	0.2078	-0.2996u
Al 308.215	-1.1620u	-2.9033u	-1.0336u
As 188.980	-1.7441u	2.2807	3.7851

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	25.4692	25.9604	25.1997
Ba 389.178	13.2240	14.1589	13.8532
Be 313.042	-0.0058u	-0.0041u	-0.0054u
Ca 370.602	12684	12685	12669
Cd 226.502	0.1184	0.1331	0.0038
Co 228.615	-0.2929u	-0.1093u	0.3975
Cr 267.716	0.4490	0.0680	0.1724
Cu 324.754	0.3595	-0.2372u	-0.3723u
Fe 271.441	12.0995	9.4340	12.8265
K 766.491	621.394	619.415	618.913
Mg 279.078	3430.80	3427.53	3416.80
Mn 257.610	0.5495	0.5179	0.5428
Mo 202.032	-0.9187u	-0.4119u	-0.2461u
Na 330.237	4781.59	4980.68	4760.31
Ni 231.604	1.6316	0.8730	1.4613
Pb 220.353	0.0595	3.4547	0.0918
Sb 206.834	-2.5865u	-2.5023u	-1.4646u
Se 196.026	1.4787	-0.6263u	3.1662
Sn 189.925	0.9904	-2.5487u	1.8120
Sr 216.596	56.5762	56.4386	56.2081
Ti 334.941	0.1253	0.1410	0.1490
Tl 190.794	-1.5504u	-3.0263u	-1.0937u
V 292.401	0.2244	0.2180	0.0502
Zn 206.200	2.4188	1.1844	1.1394

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1143	ppb	0.2799	245.0	-23.5809
Al 308.215	-1.6996	ppb	1.0444	61.4	257.064
As 188.980	1.4406	ppb	2.8587	198.4	-4.1401
B 249.678	25.5431	ppb	0.3857	1.5	420.943
Ba 389.178	13.7454	ppb	0.4767	3.5	328.292
Be 313.042	-0.0051	ppb	0.0009	17.0	-245.214
Ca 370.602	12679	ppb	9.052	0.1	39429
Cd 226.502	0.0851	ppb	0.0708	83.2	16.6320
Co 228.615	-0.0016	ppb	0.3576	22713.2	-3.6251
Cr 267.716	0.2298	ppb	0.1969	85.7	24.1900
Cu 324.754	-0.0834	ppb	0.3894	467.1	141.400
Fe 271.441	11.4533	ppb	1.7862	15.6	32.4149
K 766.491	619.907	ppb	1.3117	0.2	27034.7
Mg 279.078	3425.05	ppb	7.3241	0.2	8860.10
Mn 257.610	0.5367	ppb	0.0167	3.1	228.271
Mo 202.032	-0.5256	ppb	0.3504	66.7	4.8161
Na 330.237	4840.86	ppb	121.557	2.5	230.041
Ni 231.604	1.3219	ppb	0.3980	30.1	1.0263
Pb 220.353	1.2020	ppb	1.9509	162.3	16.0889
Sb 206.834	-2.1845	ppb	0.6249	28.6	4.2723
Se 196.026	1.3395	ppb	1.9001	141.8	8.0255
Sn 189.925	0.0845	ppb	2.3172	2740.7	-12.8726
Sr 216.596	56.4076	ppb	0.1860	0.3	874.421
Ti 334.941	0.1384	ppb	0.0121	8.7	-16.3019
Tl 190.794	-1.8901	ppb	1.0101	53.4	-9.8443
V 292.401	0.1642	ppb	0.0988	60.2	-4.6972
Zn 206.200	1.5808	ppb	0.7260	45.9	9.4151

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Cont Calib Verif (CCV) 12/18/2013, 9:31:44 PM Rack 2, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	482.061	476.174	476.034
Al 308.215	4654.23	4644.67	4626.63
As 188.980	495.052	495.035	493.670
B 249.678	477.162	479.341	477.836
Ba 389.178	4875.98	4868.68	4846.90
Be 313.042	481.232	480.133	478.090
Ca 370.602	4584	4581	4576
Cd 226.502	487.992	487.917	483.857
Co 228.615	488.786	487.248	484.380
Cr 267.716	4869.28	4866.17	4838.68
Cu 324.754	4838.42	4869.95	4814.19
Fe 271.441	4887.75	4888.73	4848.60
K 766.491	9477.59	9466.37	9460.23
Mg 279.078	4971.88	4960.12	4913.76
Mn 257.610	4802.00	4786.38	4771.94
Mo 202.032	500.405	501.631	497.793
Na 330.237	7398.51	7447.64	7147.07
Ni 231.604	2356.21	2360.75	2349.07
Pb 220.353	470.892	468.749	468.903
Sb 206.834	931.906	942.225	921.401
Se 196.026	4839.08	4854.17	4785.83
Sn 189.925	4999.73	4949.45	4951.86
Sr 216.596	2452.25	2452.35	2434.75
Ti 334.941	461.789	461.345	460.626
Tl 190.794	4848.61	4853.53	4825.41
V 292.401	4886.74	4884.01	4851.66
Zn 206.200	2417.33	2413.33	2405.78

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	478.090	ppb	3.4400	0.7	39696.6	95.61792
Al 308.215	4641.84	ppb	14.0143	0.3	32008.4	92.83688
As 188.980	494.586	ppb	0.7928	0.2	370.512	98.91714
B 249.678	478.113	ppb	1.1158	0.2	6694.97	95.62263
Ba 389.178	4863.85	ppb	15.1291	0.3	122836	97.27703
Be 313.042	479.819	ppb	1.5944	0.3	985591	95.96371
Ca 370.602	4580	ppb	4.073	0.1	14296	91.60372
Cd 226.502	486.589	ppb	2.3659	0.5	24817.5	97.31774
Co 228.615	486.805	ppb	2.2361	0.5	6502.90	97.36095
Cr 267.716	4858.04	ppb	16.8381	0.3	289639	97.16084
Cu 324.754	4840.86	ppb	27.9595	0.6	312248	96.81713
Fe 271.441	4875.03	ppb	22.8895	0.5	8565.98	97.50055
K 766.491	9468.06	ppb	8.8008	0.1	409349	94.68063
Mg 279.078	4948.58	ppb	30.7275	0.6	12693.3	98.97168
Mn 257.610	4786.77	ppb	15.0305	0.3	1223817	95.73546
Mo 202.032	499.943	ppb	1.9605	0.4	4044.19	99.98859
Na 330.237	7331.07	ppb	161.233	2.2	295.873	97.74763
Ni 231.604	2355.34	ppb	5.8897	0.3	8349.72	94.21367
Pb 220.353	469.515	ppb	1.1953	0.3	894.770	93.90297
Sb 206.834	931.844	ppb	10.4124	1.1	1489.25	93.18441
Se 196.026	4826.36	ppb	35.9025	0.7	2328.74	96.52718
Sn 189.925	4967.01	ppb	28.3559	0.6	4774.81	99.34029
Sr 216.596	2446.45	ppb	10.1333	0.4	37349.2	97.85799

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	461.253	ppb	0.5872	0.1	132243	92.25069
Tl 190.794	4842.52	ppb	15.0182	0.3	6355.32	96.85037
V 292.401	4874.14	ppb	19.5133	0.4	138670	97.48273
Zn 206.200	2412.15	ppb	5.8644	0.2	3727.00	96.48589

Cont Calib Blank (CCB)

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Rack 2, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3124	-0.2962u	-0.0998u
Al 308.215	-6.8783u	-9.0769u	-6.2507u
As 188.980	-0.4072u	-0.7773u	-0.8523u
B 249.678	3.2822	2.4591	1.8045
Ba 389.178	0.3016	-0.0634u	-0.4827u
Be 313.042	-0.0021u	0.0009	-0.0023u
Ca 370.602	2.676	4.436	1.667
Cd 226.502	0.1219	0.1004	0.0417
Co 228.615	0.5581	0.0285	-0.1328u
Cr 267.716	0.1976	0.4580	0.2514
Cu 324.754	0.1009	-0.1825u	-0.2913u
Fe 271.441	1.8127	0.6476	0.7095
K 766.491	0.5629	0.6837	1.2423
Mg 279.078	2.2917	1.0656	-0.7229u
Mn 257.610	0.0056	0.0401	0.0588
Mo 202.032	0.6149	0.3684	0.0638
Na 330.237	73.3401	-19.0082u	105.674
Ni 231.604	0.8554	1.1583	0.3377
Pb 220.353	-2.9107u	-1.4310u	0.4947
Sb 206.834	0.9529	-2.2838u	1.5842
Se 196.026	1.2975	-6.8092u	-3.4524u
Sn 189.925	2.6796	2.7880	2.0419
Sr 216.596	0.0257	0.1205	0.0243
Ti 334.941	0.1789	0.1388	0.1244
Tl 190.794	3.4089	1.3861	0.5125
V 292.401	0.2385	0.3021	0.1482
Zn 206.200	0.5602	0.4262	-0.1249u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0279	ppb	0.3106	1114.5	-13.3650	-0.02787
Al 308.215	-7.4020	ppb	1.4841	20.0	217.411	-7.40197
As 188.980	-0.6790	ppb	0.2383	35.1	-5.7513	-0.67895
B 249.678	2.5153	ppb	0.7404	29.4	101.236	2.51529
Ba 389.178	-0.0815	ppb	0.3925	481.6	-30.4800	-0.08150
Be 313.042	-0.0012	ppb	0.0018	152.4	-241.686	-0.00119
Ca 370.602	2.926	ppb	1.401	47.9	19.83	2.92602
Cd 226.502	0.0880	ppb	0.0415	47.2	16.7085	0.08798
Co 228.615	0.1513	ppb	0.3614	238.9	-1.6174	0.15128
Cr 267.716	0.3024	ppb	0.1375	45.5	28.4172	0.30237
Cu 324.754	-0.1243	ppb	0.2025	162.9	138.788	-0.12431
Fe 271.441	1.0566	ppb	0.6555	62.0	14.4397	1.05660
K 766.491	0.8296	ppb	0.3625	43.7	285.362	0.82963
Mg 279.078	0.8781	ppb	1.5160	172.6	25.5003	0.87812
Mn 257.610	0.0348	ppb	0.0270	77.4	69.4359	0.03482
Mo 202.032	0.3490	ppb	0.2761	79.1	11.8941	0.34904

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	53.3352	ppb	64.7035	121.3	31.7095	53.33522
Ni 231.604	0.7838	ppb	0.4150	52.9	-0.8833	0.78378
Pb 220.353	-1.2824	ppb	1.7076	133.2	11.4267	-1.28236
Sb 206.834	0.0844	ppb	2.0751	2457.5	7.6527	0.08444
Se 196.026	-2.9881	ppb	4.0732	136.3	5.9448	-2.98806
Sn 189.925	2.5032	ppb	0.4032	16.1	-10.5495	2.50318
Sr 216.596	0.0568	ppb	0.0552	97.1	10.7589	0.05683
Ti 334.941	0.1474	ppb	0.0283	19.2	-28.9594	0.14738
Tl 190.794	1.7692	ppb	1.4857	84.0	-5.0353	1.76916
V 292.401	0.2296	ppb	0.0773	33.7	-3.0072	0.22960
Zn 206.200	0.2872	ppb	0.3631	126.5	7.4164	0.28717

680-97139-c-9-a (Samp)

12/18/2013, 9:41:14 PM

Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0507	-0.2967u	-0.0224u
Al 308.215	-5.2387u	-4.7863u	-4.2985u
As 188.980	-1.7973u	-1.9261u	0.6705
B 249.678	0.5234	0.6367	1.0445
Ba 389.178	-0.5520u	-0.0052u	0.2323
Be 313.042	-0.0051u	-0.0105u	-0.0094u
Ca 370.602	12.97	13.56	14.86
Cd 226.502	0.0852	0.0180	0.0348
Co 228.615	-0.3943u	0.6711	0.5130
Cr 267.716	0.0648	0.0354	0.0921
Cu 324.754	-0.3550u	-0.3191u	0.1319
Fe 271.441	5.9563	-4.0511u	8.7126
K 766.491	1.8718	1.4687	2.3276
Mg 279.078	4.6241	6.5541	2.7723
Mn 257.610	-0.0037u	-0.0236u	0.0352
Mo 202.032	0.1807	0.2589	-0.3689u
Na 330.237	115.504	37.9318	174.551
Ni 231.604	0.5381	0.0944	0.2002
Pb 220.353	1.9180	0.4695	-2.0884u
Sb 206.834	-0.2633u	-2.3612u	1.5248
Se 196.026	-2.3179u	1.1785	-4.1769u
Sn 189.925	2.8024	3.2427	1.3130
Sr 216.596	0.0105	0.2094	0.1654
Ti 334.941	0.1386	0.1518	0.1755
Tl 190.794	-0.4886u	1.0702	-0.1167u
V 292.401	0.3322	-0.0604u	-0.0054u
Zn 206.200	1.9723	0.2590	0.4421

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0895	ppb	0.1831	204.7	-18.4830
Al 308.215	-4.7745	ppb	0.4702	9.8	235.701
As 188.980	-1.0177	ppb	1.4634	143.8	-6.0086
B 249.678	0.7349	ppb	0.2741	37.3	76.5107
Ba 389.178	-0.1083	ppb	0.4022	371.4	-31.1432
Be 313.042	-0.0083	ppb	0.0028	33.9	-256.349
Ca 370.602	13.80	ppb	0.9637	7.0	53.39
Cd 226.502	0.0460	ppb	0.0350	76.1	14.5837
Co 228.615	0.2633	ppb	0.5749	218.4	-0.1132

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0641	ppb	0.0283	44.2	14.2161
Cu 324.754	-0.1807	ppb	0.2714	150.2	135.141
Fe 271.441	3.5393	ppb	6.7164	189.8	18.7475
K 766.491	1.8893	ppb	0.4297	22.7	331.151
Mg 279.078	4.6502	ppb	1.8911	40.7	35.2319
Mn 257.610	0.0026	ppb	0.0299	1130.1	61.2534
Mo 202.032	0.0236	ppb	0.3421	1452.2	9.2604
Na 330.237	109.329	ppb	68.5188	62.7	34.0152
Ni 231.604	0.2776	ppb	0.2317	83.5	-2.6792
Pb 220.353	0.0997	ppb	2.0287	2034.6	14.0197
Sb 206.834	-0.3666	ppb	1.9451	530.6	6.9807
Se 196.026	-1.7721	ppb	2.7191	153.4	6.5294
Sn 189.925	2.4527	ppb	1.0113	41.2	-10.5982
Sr 216.596	0.1285	ppb	0.1045	81.3	11.8727
Ti 334.941	0.1553	ppb	0.0187	12.1	-26.6766
Tl 190.794	0.1550	ppb	0.8142	525.4	-7.1560
V 292.401	0.0888	ppb	0.2126	239.3	-6.9504
Zn 206.200	0.8911	ppb	0.9408	105.6	8.3498

680-97114-f-4-a (Samp)

12/18/2013, 9:46:00 PM

Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0489	0.1982	0.0479
Al 308.215	13.8419	15.1722	12.6093
As 188.980	-3.0604u	-0.6419u	-1.3714u
B 249.678	18.5681	18.0082	18.7178
Ba 389.178	8.8464	8.3812	9.1130
Be 313.042	-0.0084u	-0.0028u	-0.0057u
Ca 370.602	1014	984.5	989.2
Cd 226.502	-0.0090u	0.1130	0.0346
Co 228.615	0.5275	0.6698	0.1931
Cr 267.716	0.0579	0.1028	-0.0664u
Cu 324.754	-0.4007u	0.0825	-0.1569u
Fe 271.441	22.0382	22.2305	15.4881
K 766.491	340.306	330.445	338.025
Mg 279.078	290.763	283.135	284.034
Mn 257.610	8.9362	8.6386	8.7405
Mo 202.032	1.8916	1.6631	1.5972
Na 330.237	39713.3	38907.3	38640.2
Ni 231.604	0.9205	1.3204	1.5763
Pb 220.353	-0.2853u	-3.4411u	1.2206
Sb 206.834	-2.2326u	-1.0666u	-0.5454u
Se 196.026	-6.0009u	-3.3967u	0.4527
Sn 189.925	0.8632	2.3142	0.2650
Sr 216.596	17.5299	17.0671	17.1330
Ti 334.941	0.1029	0.1254	0.0890
Tl 190.794	-0.5842u	-2.1527u	-2.4385u
V 292.401	0.8603	0.7052	0.6848
Zn 206.200	0.4911	0.4505	0.6958

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0983	ppb	0.0865	88.0	-3.7209
Al 308.215	13.8745	ppb	1.2817	9.2	365.557

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.6912	ppb	1.2406	73.4	-6.5211
B 249.678	18.4314	ppb	0.3741	2.0	322.179
Ba 389.178	8.7802	ppb	0.3704	4.2	194.146
Be 313.042	-0.0056	ppb	0.0028	49.3	-254.768
Ca 370.602	995.7	ppb	15.56	1.6	3105
Cd 226.502	0.0462	ppb	0.0619	133.9	14.4190
Co 228.615	0.4635	ppb	0.2447	52.8	2.5047
Cr 267.716	0.0314	ppb	0.0876	278.9	13.0689
Cu 324.754	-0.1583	ppb	0.2416	152.6	136.644
Fe 271.441	19.9189	ppb	3.8384	19.3	47.1259
K 766.491	336.258	ppb	5.1623	1.5	14778.7
Mg 279.078	285.978	ppb	4.1690	1.5	760.896
Mn 257.610	8.7717	ppb	0.1512	1.7	2305.35
Mo 202.032	1.7173	ppb	0.1545	9.0	22.9640
Na 330.237	39086.9	ppb	558.632	1.4	1648.92
Ni 231.604	1.2724	ppb	0.3305	26.0	0.8496
Pb 220.353	-0.8353	ppb	2.3790	284.8	12.2666
Sb 206.834	-1.2815	ppb	0.8639	67.4	5.5669
Se 196.026	-2.9816	ppb	3.2467	108.9	5.9504
Sn 189.925	1.1475	ppb	1.0537	91.8	-11.8417
Sr 216.596	17.2433	ppb	0.2503	1.5	273.721
Ti 334.941	0.1057	ppb	0.0184	17.4	-42.3413
Tl 190.794	-1.7251	ppb	0.9984	57.9	-9.6336
V 292.401	0.7501	ppb	0.0960	12.8	11.3388
Zn 206.200	0.5458	ppb	0.1314	24.1	7.8158

680-97107-a-1-a (Samp)

12/18/2013, 9:50:45 PM

Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7975u	0.6521u	0.6892u
Al 308.215	540.932	544.987	539.865
As 188.980	1.0818	0.7223	-1.3348u
B 249.678	908.182	920.494	913.522
Ba 389.178	64.1879	64.6631	64.2708
Be 313.042	0.0338	0.0299	0.0362
Ca 370.602	5623	5633	5583
Cd 226.502	1.3284	1.2134	1.2468
Co 228.615	0.4658	0.8424	0.8821
Cr 267.716	138.494	138.904	137.727
Cu 324.754	8.6719	9.0244	8.7621
Fe 271.441	651.426	646.380	640.842
K 766.491	4271.18	4289.33	4246.27
Mg 279.078	1341.63	1346.31	1338.80
Mn 257.610	34.9580	34.9640	34.6470
Mo 202.032	0.7934	0.2438	-0.3447u
Na 330.237	253073x	255759x	252226x
Ni 231.604	4.4328	4.0003	2.5542
Pb 220.353	-2.2083u	3.1700	-0.1112u
Sb 206.834	-0.3853	0.1982	-0.9405
Se 196.026	4.8604	-0.3477u	-3.7618u
Sn 189.925	-0.4190u	2.8932	0.9450
Sr 216.596	1720.09	1725.02	1707.88
Ti 334.941	2.4997	2.4787	2.4907

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Label	Replicates Concentration		
Tl 190.794	-1.7268u	-1.4448u	-3.5468u
V 292.401	1.7907	1.8148	1.7021
Zn 206.200	171.768	173.689	173.365

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7129b	ppb	0.0755	10.6	-41.1620
Al 308.215	541.928b	ppb	2.7025	0.5	4041.75
As 188.980	0.1564b	ppb	1.3039	833.5	-5.1173
B 249.678	914.066b	ppb	6.1736	0.7	12756.2
Ba 389.178	64.3739b	ppb	0.2539	0.4	1602.03
Be 313.042	0.0333b	ppb	0.0032	9.6	-196.543
Ca 370.602	5613b	ppb	26.68	0.5	17410
Cd 226.502	1.2629b	ppb	0.0591	4.7	77.7625
Co 228.615	0.7301b	ppb	0.2297	31.5	6.7388
Cr 267.716	138.375b	ppb	0.5973	0.4	8266.39
Cu 324.754	8.8195b	ppb	0.1831	2.1	715.721
Fe 271.441	646.216b	ppb	5.2936	0.8	1131.41
K 766.491	4268.93b	ppb	21.6158	0.5	184703
Mg 279.078	1342.25b	ppb	3.7930	0.3	3485.43
Mn 257.610	34.8563b	ppb	0.1813	0.5	8983.84
Mo 202.032	0.2309b	ppb	0.5692	246.5	10.8989
Na 330.237	253686xb	ppb	1844.59	0.7	10537.5
Ni 231.604	3.6625b	ppb	0.9838	26.9	9.3446
Pb 220.353	0.2835b	ppb	2.7108	956.2	14.4109
Sb 206.834	-0.3758b	ppb	0.5694	151.5	9.5462
Se 196.026	0.2503b	ppb	4.3421	1734.9	7.5199
Sn 189.925	1.1397b	ppb	1.6647	146.1	-11.7689
Sr 216.596	1717.67b	ppb	8.8226	0.5	26277.9
Ti 334.941	2.4897b	ppb	0.0105	0.4	631.213
Tl 190.794	-2.2395b	ppb	1.1409	50.9	-10.3926
V 292.401	1.7692b	ppb	0.0593	3.4	32.2646
Zn 206.200	172.940b	ppb	1.0285	0.6	273.967

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Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4270u	0.4132u	0.4738u
Al 308.215	6.4398	6.4362	6.3060
As 188.980	3.0212	3.0565	-0.0747u
B 249.678	75.3034	73.9581	73.9530
Ba 389.178	4.6920	4.9458	5.1988
Be 313.042	-0.0352u	-0.0285u	-0.0310u
Ca 370.602	69257	69507	69367
Cd 226.502	0.0807	0.1502	0.0309
Co 228.615	-0.0789u	0.0515	0.5452
Cr 267.716	0.2203	0.1486	0.4351
Cu 324.754	1.5192	1.8330	1.5370
Fe 271.441	15.3133	16.7704	14.6957
K 766.491	1793.06	1795.32	1790.52
Mg 279.078	3171.90	3165.73	3174.21
Mn 257.610	3.3693	3.3954	3.3536
Mo 202.032	1.5831	2.0914	1.9285
Na 330.237	6859.77	6898.46	6836.49

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Label	Replicates Concentration		
Ni 231.604	4.7123	4.5321	4.6844
Pb 220.353	1.7684	0.5342	2.2395
Sb 206.834	-0.8023u	-1.5153u	-1.2920u
Se 196.026	-4.9502u	-3.0372u	-4.4583u
Sn 189.925	-0.0244	2.3409	1.9761
Sr 216.596	1690.70	1693.08	1692.10
Ti 334.941	0.3378	0.2570	0.2498
Tl 190.794	-0.7433u	-1.9442u	-3.7730u
V 292.401	2.6055	2.9952	2.7148
Zn 206.200	81.2436	82.0415	79.6169

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4380	ppb	0.0318	7.2	-62.8260
Al 308.215	6.3940	ppb	0.0762	1.2	313.239
As 188.980	2.0010	ppb	1.7977	89.8	-3.7149
B 249.678	74.4048	ppb	0.7782	1.0	1099.35
Ba 389.178	4.9455	ppb	0.2534	5.1	105.376
Be 313.042	-0.0315	ppb	0.0034	10.8	-276.314
Ca 370.602	69377	ppb	125.4	0.2	215698
Cd 226.502	0.0873	ppb	0.0600	68.7	16.7458
Co 228.615	0.1726	ppb	0.3292	190.7	-1.3762
Cr 267.716	0.2680	ppb	0.1491	55.6	26.4954
Cu 324.754	1.6297	ppb	0.1763	10.8	251.917
Fe 271.441	15.5931	ppb	1.0653	6.8	39.6301
K 766.491	1792.97	ppb	2.4029	0.1	77720.6
Mg 279.078	3170.61	ppb	4.3829	0.1	8203.58
Mn 257.610	3.3727	ppb	0.0211	0.6	951.880
Mo 202.032	1.8677	ppb	0.2596	13.9	24.1772
Na 330.237	6864.91	ppb	31.3013	0.5	312.747
Ni 231.604	4.6429	ppb	0.0970	2.1	12.8059
Pb 220.353	1.5140	ppb	0.8806	58.2	16.6712
Sb 206.834	-1.2032	ppb	0.3647	30.3	5.6844
Se 196.026	-4.1486	ppb	0.9934	23.9	5.3880
Sn 189.925	1.4309	ppb	1.2734	89.0	-11.5449
Sr 216.596	1691.96	ppb	1.1982	0.1	25893.4
Ti 334.941	0.2815	ppb	0.0489	17.4	23.4238
Tl 190.794	-2.1535	ppb	1.5257	70.8	-10.1918
V 292.401	2.7718	ppb	0.2010	7.3	69.2256
Zn 206.200	80.9673	ppb	1.2357	1.5	132.070

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Rack 2, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7915u	1.1814u	0.6298u
Al 308.215	6.8541	6.9394	7.2438
As 188.980	0.0349	-3.3843u	2.8701
B 249.678	52.6217	52.2047	51.9865
Ba 389.178	5.3977	5.5518	4.5317
Be 313.042	-0.0341u	-0.0269u	-0.0323u
Ca 370.602	65735	65954	65917
Cd 226.502	-0.0172u	0.1619	0.1321
Co 228.615	0.8555	-0.1946u	0.3259
Cr 267.716	-0.0301u	-0.0802u	0.1790

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Label	Replicates Concentration		
Cu 324.754	-0.1572u	0.0382	-0.3859u
Fe 271.441	111.782	113.776	113.285
K 766.491	1986.21	1986.93	1993.70
Mg 279.078	2664.95	2661.97	2654.73
Mn 257.610	4.8994	4.9170	4.9267
Mo 202.032	1.2353	0.8594	0.4996
Na 330.237	10694.8	10633.9	10629.1
Ni 231.604	3.9995	3.9024	4.9923
Pb 220.353	1.0089	1.6856	-0.9060u
Sb 206.834	-1.7870u	-0.6139u	0.4211
Se 196.026	-4.3175u	7.1024	1.7841
Sn 189.925	-0.2917u	0.2901	2.5070
Sr 216.596	2189.18	2191.85	2186.57
Ti 334.941	0.1820	0.2091	0.2343
Tl 190.794	-1.9783u	-2.0964u	-1.7828u
V 292.401	-0.0865u	-0.1507u	0.0296
Zn 206.200	1.8777	1.3569	1.0779

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8676	ppb	0.2836	32.7	-53.1418
Al 308.215	7.0124	ppb	0.2048	2.9	317.835
As 188.980	-0.1598	ppb	3.1317	1960.2	-5.3580
B 249.678	52.2710	ppb	0.3227	0.6	791.850
Ba 389.178	5.1604	ppb	0.5499	10.7	109.516
Be 313.042	-0.0311	ppb	0.0037	12.0	-278.281
Ca 370.602	65869	ppb	117.4	0.2	204783
Cd 226.502	0.0922	ppb	0.0959	104.0	17.3901
Co 228.615	0.3289	ppb	0.5251	159.6	0.7426
Cr 267.716	0.0229	ppb	0.1375	599.9	12.0208
Cu 324.754	-0.1683	ppb	0.2123	126.2	136.018
Fe 271.441	112.948	ppb	1.0391	0.9	208.109
K 766.491	1988.95	ppb	4.1339	0.2	86188.7
Mg 279.078	2660.55	ppb	5.2555	0.2	6887.55
Mn 257.610	4.9144	ppb	0.0138	0.3	1341.68
Mo 202.032	0.8648	ppb	0.3679	42.5	16.0622
Na 330.237	10652.6	ppb	36.6242	0.3	470.820
Ni 231.604	4.2981	ppb	0.6032	14.0	11.5847
Pb 220.353	0.5962	ppb	1.3442	225.5	14.9590
Sb 206.834	-0.6599	ppb	1.1048	167.4	6.5212
Se 196.026	1.5230	ppb	5.7144	375.2	8.1162
Sn 189.925	0.8351	ppb	1.4768	176.8	-12.1197
Sr 216.596	2189.20	ppb	2.6392	0.1	33496.7
Ti 334.941	0.2084	ppb	0.0261	12.5	-0.0892
Tl 190.794	-1.9525	ppb	0.1584	8.1	-9.9401
V 292.401	-0.0692	ppb	0.0914	132.0	-11.6076
Zn 206.200	1.4375	ppb	0.4059	28.2	9.1915

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Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2261u	0.3206u	0.3929u
Al 308.215	11.1399	11.7917	9.0033
As 188.980	2.5697	-0.9157u	-4.7931u

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Label	Replicates Concentration		
B 249.678	45.2842	44.2156	45.4687
Ba 389.178	3.6981	4.0308	2.8538
Be 313.042	-0.0185u	-0.0197u	-0.0264u
Ca 370.602	57127	57000	57162
Cd 226.502	0.0451	0.0501	0.0735
Co 228.615	0.3447	-0.1269u	-0.0489u
Cr 267.716	0.1999	-0.0334u	-0.0486u
Cu 324.754	-0.1951u	-0.4508u	-0.2819u
Fe 271.441	22.6378	21.9552	26.0315
K 766.491	1871.64	1861.72	1860.98
Mg 279.078	2341.51	2339.27	2332.41
Mn 257.610	2.1075	2.0066	1.9384
Mo 202.032	1.0538	0.8204	0.3596
Na 330.237	6812.09	7009.52	6664.13
Ni 231.604	1.7261	1.2604	1.9076
Pb 220.353	2.3705	3.2170	0.6105
Sb 206.834	-2.6375u	-2.5832u	-0.1643u
Se 196.026	7.5936	0.7550	4.4251
Sn 189.925	1.5153	0.9118	1.3771
Sr 216.596	1523.76	1523.26	1518.69
Ti 334.941	0.2828	0.2398	0.1991
Tl 190.794	-3.7491u	-3.0281u	-1.8688u
V 292.401	0.1864	0.3659	0.2804
Zn 206.200	2.4489	2.3257	2.0071

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3132	ppb	0.0837	26.7	-64.3256
Al 308.215	10.6450	ppb	1.4586	13.7	343.080
As 188.980	-1.0464	ppb	3.6831	352.0	-6.0308
B 249.678	44.9895	ppb	0.6765	1.5	690.923
Ba 389.178	3.5276	ppb	0.6067	17.2	67.2511
Be 313.042	-0.0215	ppb	0.0043	19.9	-261.621
Ca 370.602	57097	ppb	85.33	0.1	177518
Cd 226.502	0.0562	ppb	0.0152	27.0	15.1786
Co 228.615	0.0563	ppb	0.2528	448.9	-2.8967
Cr 267.716	0.0393	ppb	0.1393	354.4	12.8817
Cu 324.754	-0.3093	ppb	0.1300	42.0	126.888
Fe 271.441	23.5415	ppb	2.1833	9.3	53.3456
K 766.491	1864.78	ppb	5.9517	0.3	80823.5
Mg 279.078	2337.73	ppb	4.7412	0.2	6054.71
Mn 257.610	2.0175	ppb	0.0851	4.2	597.927
Mo 202.032	0.7446	ppb	0.3532	47.4	15.0940
Na 330.237	6828.58	ppb	173.286	2.5	312.378
Ni 231.604	1.6314	ppb	0.3338	20.5	2.1240
Pb 220.353	2.0660	ppb	1.3296	64.4	17.7083
Sb 206.834	-1.7950	ppb	1.4125	78.7	4.8190
Se 196.026	4.2579	ppb	3.4224	80.4	9.4289
Sn 189.925	1.2681	ppb	0.3162	24.9	-11.7083
Sr 216.596	1521.90	ppb	2.7952	0.2	23291.1
Ti 334.941	0.2405	ppb	0.0419	17.4	7.9169
Tl 190.794	-2.8820	ppb	0.9487	32.9	-11.1501
V 292.401	0.2775	ppb	0.0898	32.4	-1.7304
Zn 206.200	2.2606	ppb	0.2280	10.1	10.4652

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1440u	0.1926u	0.2935u
Al 308.215	9.3174	9.7805	8.5477
As 188.980	2.0119	5.0562	4.4362
B 249.678	68.2857	68.3793	68.3014
Ba 389.178	14.2855	13.8761	14.9928
Be 313.042	-0.0229u	-0.0220u	-0.0265u
Ca 370.602	53222	53567	53617
Cd 226.502	0.1145	0.0921	-0.0896u
Co 228.615	0.3258	-0.3330u	-0.2516u
Cr 267.716	0.4874	0.4124	0.5170
Cu 324.754	0.5900	-0.1347u	-0.1693u
Fe 271.441	37.0815	36.6769	35.5379
K 766.491	2312.67	2310.87	2315.08
Mg 279.078	4351.56	4343.95	4355.45
Mn 257.610	1.1032	1.0521	1.1118
Mo 202.032	2.3736	1.9878	2.5794
Na 330.237	20229.2	20409.4	20412.2
Ni 231.604	2.2987	2.0708	2.8433
Pb 220.353	-2.0842u	0.0186	0.1951
Sb 206.834	-2.7874u	-3.3318u	-2.5944u
Se 196.026	4.1187	5.6732	-5.8788u
Sn 189.925	1.3701	2.8113	3.5982
Sr 216.596	1110.40	1113.27	1114.47
Ti 334.941	0.3766	0.3873	0.3741
Tl 190.794	-1.5716u	-2.5871u	-2.6991u
V 292.401	0.5842	0.8134	0.6659
Zn 206.200	16.4222	16.0183	15.9662

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2100	ppb	0.0762	36.3	-51.7624
Al 308.215	9.2152	ppb	0.6227	6.8	333.170
As 188.980	3.8348	ppb	1.6088	42.0	-2.3215
B 249.678	68.3221	ppb	0.0501	0.1	1014.86
Ba 389.178	14.3848	ppb	0.5650	3.9	347.097
Be 313.042	-0.0238	ppb	0.0024	10.0	-269.396
Ca 370.602	53469	ppb	215.3	0.4	166239
Cd 226.502	0.0390	ppb	0.1119	287.1	14.2994
Co 228.615	-0.0862	ppb	0.3592	416.6	-4.8407
Cr 267.716	0.4723	ppb	0.0539	11.4	38.9555
Cu 324.754	0.0953	ppb	0.4287	449.6	153.031
Fe 271.441	36.4321	ppb	0.8004	2.2	75.6470
K 766.491	2312.87	ppb	2.1112	0.1	100185
Mg 279.078	4350.32	ppb	5.8531	0.1	11247.4
Mn 257.610	1.0890	ppb	0.0323	3.0	378.318
Mo 202.032	2.3136	ppb	0.3004	13.0	27.7890
Na 330.237	20350.2	ppb	104.857	0.5	872.397
Ni 231.604	2.4043	ppb	0.3970	16.5	4.8664
Pb 220.353	-0.6235	ppb	1.2681	203.4	12.6620
Sb 206.834	-2.9045	ppb	0.3824	13.2	3.1274
Se 196.026	1.3044	ppb	6.2692	480.6	8.0091
Sn 189.925	2.5932	ppb	1.1299	43.6	-10.4278
Sr 216.596	1112.71	ppb	2.0940	0.2	17033.3

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.3793	ppb	0.0070	1.8	55.9247
Tl 190.794	-2.2859	ppb	0.6212	27.2	-10.3688
V 292.401	0.6878	ppb	0.1162	16.9	9.6205
Zn 206.200	16.1356	ppb	0.2496	1.5	31.9018

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Rack 2, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8353u	0.9762u	0.5678u
Al 308.215	1.0293	3.3826	2.9829
As 188.980	4.4695	-0.1746u	4.8047
B 249.678	70.7328	71.0533	72.1114
Ba 389.178	12.8110	13.3133	13.2101
Be 313.042	-0.0425u	-0.0400u	-0.0353u
Ca 370.602	103584	103335	104038
Cd 226.502	0.0798	-0.0295u	-0.0324u
Co 228.615	0.1298	0.2545	0.0410
Cr 267.716	0.0134	0.0083	0.1794
Cu 324.754	1.4504	1.3003	1.3853
Fe 271.441	10.7295	4.9166	5.6839
K 766.491	1379.61	1374.48	1379.29
Mg 279.078	4214.57	4212.06	4219.45
Mn 257.610	1.1592	1.1354	1.1745
Mo 202.032	1.9729	3.4853	2.7341
Na 330.237	9877.55	10179.8	9876.95
Ni 231.604	3.2656	2.9691	2.6174
Pb 220.353	0.7463	-0.3524u	0.6442
Sb 206.834	4.1413	-1.7746u	4.3918
Se 196.026	-2.3252u	5.8641	-3.5869u
Sn 189.925	1.0635	2.3505	0.5195
Sr 216.596	3243.79	3248.68	3258.96
Ti 334.941	0.2262	0.2776	0.2431
Tl 190.794	-1.6043u	-3.5174u	-1.3870u
V 292.401	1.8414	2.0418	1.7925
Zn 206.200	11.4267	11.7240	10.5224

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7931	ppb	0.2074	26.2	-115.151
Al 308.215	2.4649	ppb	1.2592	51.1	286.048
As 188.980	3.0332	ppb	2.7831	91.8	-2.9307
B 249.678	71.2992	ppb	0.7214	1.0	1056.24
Ba 389.178	13.1115	ppb	0.2653	2.0	314.508
Be 313.042	-0.0393	ppb	0.0036	9.3	-279.205
Ca 370.602	103652	ppb	356.1	0.3	322257
Cd 226.502	0.0060	ppb	0.0640	1067.1	12.5730
Co 228.615	0.1418	ppb	0.1073	75.7	-1.8186
Cr 267.716	0.0670	ppb	0.0974	145.2	14.5678
Cu 324.754	1.3787	ppb	0.0753	5.5	235.770
Fe 271.441	7.1100	ppb	3.1580	44.4	24.9369
K 766.491	1377.80	ppb	2.8736	0.2	59781.7
Mg 279.078	4215.36	ppb	3.7548	0.1	10899.2
Mn 257.610	1.1563	ppb	0.0197	1.7	395.030
Mo 202.032	2.7307	ppb	0.7562	27.7	31.1635

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	9978.10	ppb	174.687	1.8	442.741
Ni 231.604	2.9507	ppb	0.3245	11.0	6.8031
Pb 220.353	0.3460	ppb	0.6070	175.4	14.4781
Sb 206.834	2.2529	ppb	3.4901	154.9	10.8369
Se 196.026	-0.0160	ppb	5.1313	32105.9	7.3740
Sn 189.925	1.3112	ppb	0.9403	71.7	-11.6414
Sr 216.596	3250.48	ppb	7.7392	0.2	49731.1
Ti 334.941	0.2490	ppb	0.0262	10.5	18.6250
Tl 190.794	-2.1696	ppb	1.1723	54.0	-10.2120
V 292.401	1.8919	ppb	0.1321	7.0	43.9690
Zn 206.200	11.2243	ppb	0.6259	5.6	24.3149

X (Samp) 12/18/2013, 10:19:18 PM Rack 2, Tube 35
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0462	0.1087	0.0568
Al 308.215	-6.1799u	-6.8548u	-5.5455u
As 188.980	-3.2194u	2.0774	1.8185
B 249.678	0.7612	0.2282	0.7009
Ba 389.178	-0.4238u	0.2906	-0.1143u
Be 313.042	-0.0092u	-0.0084u	-0.0052u
Ca 370.602	5.407	6.504	10.12
Cd 226.502	0.1331	0.0028	0.0116
Co 228.615	0.3882	-0.1035u	0.4105
Cr 267.716	-0.0538u	-0.0179u	0.2225
Cu 324.754	-0.5970u	0.0484	-0.1896u
Fe 271.441	7.2837	-6.1922u	0.5524
K 766.491	0.3056	0.3174	-0.1199u
Mg 279.078	2.5620	-0.1519u	-1.5087u
Mn 257.610	-0.0639u	-0.0803u	-0.1028u
Mo 202.032	-0.0763u	-0.1662u	-0.3443u
Na 330.237	-33.5090u	-174.846u	168.620
Ni 231.604	0.2676	0.1491	-0.2617u
Pb 220.353	-1.4640u	-2.2622u	-1.5306u
Sb 206.834	-0.5422u	1.0192	-2.6170u
Se 196.026	-3.1368u	-4.3728u	4.7432
Sn 189.925	3.3920	-0.2512u	-0.9075u
Sr 216.596	-0.1182u	0.0617	-0.1334u
Ti 334.941	0.0110	0.0078	0.0279
Tl 190.794	-2.3447u	0.0239	-3.2079u
V 292.401	0.2206	0.0820	-0.3450u
Zn 206.200	-2.3170u	-0.2910u	-1.2842u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0706	ppb	0.0334	47.4	-5.1522
Al 308.215	-6.1934	ppb	0.6548	10.6	225.824
As 188.980	0.2255	ppb	2.9862	1324.3	-5.0637
B 249.678	0.5634	ppb	0.2919	51.8	74.1309
Ba 389.178	-0.0825	ppb	0.3583	434.2	-30.5060
Be 313.042	-0.0076	ppb	0.0021	27.6	-254.884
Ca 370.602	7.343	ppb	2.465	33.6	33.27
Cd 226.502	0.0492	ppb	0.0728	148.1	14.7427
Co 228.615	0.2317	ppb	0.2905	125.4	-0.5309

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0503	ppb	0.1502	298.9	13.3877
Cu 324.754	-0.2461	ppb	0.3264	132.6	130.924
Fe 271.441	0.5480	ppb	6.7380	1229.6	13.5647
K 766.491	0.1677	ppb	0.2491	148.6	256.762
Mg 279.078	0.3005	ppb	2.0727	689.8	24.0121
Mn 257.610	-0.0823	ppb	0.0195	23.7	39.4882
Mo 202.032	-0.1956	ppb	0.1364	69.7	7.4870
Na 330.237	-13.2451	ppb	172.627	1303.3	28.9641
Ni 231.604	0.0516	ppb	0.2778	537.8	-3.4804
Pb 220.353	-1.7522	ppb	0.4428	25.3	10.5462
Sb 206.834	-0.7133	ppb	1.8241	255.7	6.4643
Se 196.026	-0.9221	ppb	4.9451	536.3	6.9379
Sn 189.925	0.7444	ppb	2.3162	311.1	-12.2448
Sr 216.596	-0.0633	ppb	0.1085	171.4	8.9409
Ti 334.941	0.0156	ppb	0.0108	69.3	-66.7612
Tl 190.794	-1.8429	ppb	1.6733	90.8	-9.7807
V 292.401	-0.0141	ppb	0.2948	2089.8	-9.8569
Zn 206.200	-1.2974	ppb	1.0131	78.1	4.9684

CRI (Samp)

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Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.6083	9.7093	9.3943
Al 308.215	196.449	196.995	193.552
As 188.980	19.2762	17.9498	20.3684
B 249.678	95.7861	97.1021	97.0956
Ba 389.178	9.9620	9.7223	9.9787
Be 313.042	3.9246	3.9429	3.8975
Ca 370.602	499.7	499.9	491.7
Cd 226.502	4.7990	5.0084	4.8262
Co 228.615	9.8079	10.0301	9.9188
Cr 267.716	10.0620	9.7939	9.9479
Cu 324.754	18.7880	19.0700	18.6803
Fe 271.441	53.8585	50.1551	46.2797
K 766.491	948.114	951.171	944.019
Mg 279.078	508.357	513.868	503.703
Mn 257.610	9.9507	9.9661	9.8849
Mo 202.032	9.3106	9.5265	8.9470
Na 330.237	1155.24	1008.83	1119.86
Ni 231.604	39.6604	39.2543	39.7668
Pb 220.353	8.0116	11.1740	10.3911
Sb 206.834	15.6384	17.4964	16.0408
Se 196.026	16.2436	11.1001	13.6458
Sn 189.925	49.9675	50.9300	46.6385
Sr 216.596	10.1038	9.9611	9.6769
Ti 334.941	9.6460	9.6658	9.5129
Tl 190.794	22.8280	22.6621	23.6340
V 292.401	9.7727	10.0610	9.8849
Zn 206.200	16.9524	18.8131	17.7035

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.5706	ppb	0.1608	1.7	784.857
Al 308.215	195.665	ppb	1.8503	0.9	1630.46

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	19.1981	ppb	1.2112	6.3	9.3553
B 249.678	96.6613	ppb	0.7579	0.8	1408.29
Ba 389.178	9.8877	ppb	0.1435	1.5	222.853
Be 313.042	3.9217	ppb	0.0228	0.6	7803.78
Ca 370.602	497.1	ppb	4.665	0.9	1558
Cd 226.502	4.8779	ppb	0.1138	2.3	260.898
Co 228.615	9.9189	ppb	0.1111	1.1	128.674
Cr 267.716	9.9346	ppb	0.1346	1.4	602.688
Cu 324.754	18.8461	ppb	0.2013	1.1	1362.24
Fe 271.441	50.0978	ppb	3.7897	7.6	100.508
K 766.491	947.768	ppb	3.5883	0.4	41201.0
Mg 279.078	508.643	ppb	5.0884	1.0	1335.30
Mn 257.610	9.9339	ppb	0.0431	0.4	2604.71
Mo 202.032	9.2614	ppb	0.2929	3.2	83.9918
Na 330.237	1094.64	ppb	76.3916	7.0	74.5507
Ni 231.604	39.5605	ppb	0.2705	0.7	136.635
Pb 220.353	9.8589	ppb	1.6470	16.7	32.3037
Sb 206.834	16.3919	ppb	0.9775	6.0	32.1096
Se 196.026	13.6632	ppb	2.5717	18.8	13.9525
Sn 189.925	49.1787	ppb	2.2519	4.6	34.4422
Sr 216.596	9.9139	ppb	0.2173	2.2	160.309
Ti 334.941	9.6082	ppb	0.0831	0.9	2686.76
Tl 190.794	23.0414	ppb	0.5199	2.3	22.9251
V 292.401	9.9062	ppb	0.1453	1.5	271.082
Zn 206.200	17.8230	ppb	0.9361	5.3	34.4955

Cont Calib Verif (CCV)

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Rack 2, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	483.597	483.528	484.321
Al 308.215	4650.75	4638.40	4658.42
As 188.980	491.309	491.126	492.372
B 249.678	471.424	471.438	478.378
Ba 389.178	4894.40	4882.77	4904.43
Be 313.042	482.351	482.234	482.486
Ca 370.602	4629	4603	4610
Cd 226.502	484.217	483.358	485.400
Co 228.615	488.058	484.710	487.363
Cr 267.716	4886.71	4872.84	4889.64
Cu 324.754	4847.45	4869.58	4795.65
Fe 271.441	4877.19	4862.38	4872.61
K 766.491	9493.93	9433.09	9494.82
Mg 279.078	4922.62	4911.97	4931.74
Mn 257.610	4793.06	4783.63	4795.73
Mo 202.032	497.997	498.725	501.077
Na 330.237	7219.25	7256.43	7426.76
Ni 231.604	2364.72	2334.30	2348.44
Pb 220.353	472.368	469.395	471.699
Sb 206.834	935.663	929.801	940.697
Se 196.026	4810.51	4806.26	4805.89
Sn 189.925	4896.63	4925.96	4976.65
Sr 216.596	2448.04	2441.39	2454.48
Ti 334.941	467.259	466.195	467.403

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Label	Replicates Concentration		
Tl 190.794	4853.63	4836.82	4856.21
V 292.401	4884.53	4864.98	4880.41
Zn 206.200	2406.09	2402.46	2411.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.815	ppb	0.4395	0.1	40173.9	96.76307
Al 308.215	4649.19	ppb	10.1017	0.2	32059.0	92.98379
As 188.980	491.603	ppb	0.6730	0.1	368.245	98.32050
B 249.678	473.747	ppb	4.0106	0.8	6634.37	94.74940
Ba 389.178	4893.87	ppb	10.8373	0.2	123594	97.87740
Be 313.042	482.357	ppb	0.1262	0.0	990797	96.47143
Ca 370.602	4614	ppb	13.34	0.3	14403	92.28300
Cd 226.502	484.325	ppb	1.0252	0.2	24702.2	96.86497
Co 228.615	486.710	ppb	1.7673	0.4	6501.73	97.34207
Cr 267.716	4883.06	ppb	8.9707	0.2	291131	97.66128
Cu 324.754	4837.56	ppb	37.9470	0.8	312035	96.75116
Fe 271.441	4870.73	ppb	7.5835	0.2	8558.55	97.41452
K 766.491	9473.95	ppb	35.3858	0.4	409603	94.73949
Mg 279.078	4922.11	ppb	9.8942	0.2	12625.1	98.44223
Mn 257.610	4790.81	ppb	6.3527	0.1	1224849	95.81614
Mo 202.032	499.266	ppb	1.6094	0.3	4038.71	99.85328
Na 330.237	7300.81	ppb	110.645	1.5	294.821	97.34413
Ni 231.604	2349.16	ppb	15.2238	0.6	8327.78	93.96626
Pb 220.353	471.154	ppb	1.5600	0.3	897.843	94.23078
Sb 206.834	935.387	ppb	5.4532	0.6	1494.46	93.53871
Se 196.026	4807.56	ppb	2.5655	0.1	2319.70	96.15110
Sn 189.925	4933.08	ppb	40.4822	0.8	4742.10	98.66161
Sr 216.596	2447.97	ppb	6.5475	0.3	37372.7	97.91888
Ti 334.941	466.952	ppb	0.6597	0.1	133878	93.39046
Tl 190.794	4848.89	ppb	10.5276	0.2	6363.69	96.97775
V 292.401	4876.64	ppb	10.3054	0.2	138742	97.53285
Zn 206.200	2406.68	ppb	4.5391	0.2	3718.56	96.26713

Cont Calib Blank (CCB) 12/18/2013, 10:33:36 PM Rack 2, Tube 38
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1944u	-0.1288u	-0.0710u
Al 308.215	-5.0040u	-5.2122u	-6.5072u
As 188.980	0.7413	1.3302	-2.9072u
B 249.678	2.9989	2.5890	2.1358
Ba 389.178	0.1688	0.5135	-0.4980u
Be 313.042	-0.0099u	-0.0033u	-0.0065u
Ca 370.602	1.269	0.4192	0.9690
Cd 226.502	0.0341	0.1660	0.0172
Co 228.615	0.2012	0.4486	0.5062
Cr 267.716	0.2284	0.1074	0.1946
Cu 324.754	-0.2736u	-0.3739u	0.0067
Fe 271.441	-3.3978u	3.8455	4.6460
K 766.491	0.8575	0.2775	0.3264
Mg 279.078	0.4742	3.0714	-0.5693u
Mn 257.610	-0.0273u	-0.0459u	0.0112
Mo 202.032	0.9769	0.1987	0.4062
Na 330.237	-129.432u	-165.579u	80.7262

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Label	Replicates Concentration		
Ni 231.604	-0.0111u	1.0149	0.1360
Pb 220.353	-0.1707u	0.7677	1.2686
Sb 206.834	-1.5146u	3.0648	-3.4762u
Se 196.026	-0.4347u	2.3028	-4.2203u
Sn 189.925	2.3483	3.3743	1.9488
Sr 216.596	-0.3444u	-0.2256u	0.0528
Ti 334.941	0.1879	0.1738	0.0927
Tl 190.794	2.7773	4.0660	0.1504
V 292.401	0.3630	0.4835	0.4307
Zn 206.200	-0.5255u	-0.2749u	-0.5372u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1314	ppb	0.0617	47.0	-21.9595	-0.13139
Al 308.215	-5.5744	ppb	0.8145	14.6	230.120	-5.57444
As 188.980	-0.2786	ppb	2.2954	824.0	-5.4470	-0.27857
B 249.678	2.5746	ppb	0.4317	16.8	102.065	2.57456
Ba 389.178	0.0614	ppb	0.5142	837.0	-26.8740	0.06144
Be 313.042	-0.0066	ppb	0.0033	49.9	-252.662	-0.00657
Ca 370.602	0.8858	ppb	0.4310	48.7	13.75	0.88576
Cd 226.502	0.0724	ppb	0.0815	112.5	15.9019	0.07241
Co 228.615	0.3853	ppb	0.1620	42.0	1.4988	0.38533
Cr 267.716	0.1768	ppb	0.0624	35.3	20.9280	0.17683
Cu 324.754	-0.2136	ppb	0.1973	92.4	133.035	-0.21357
Fe 271.441	1.6979	ppb	4.4311	261.0	15.5777	1.69792
K 766.491	0.4871	ppb	0.3217	66.0	270.563	0.48713
Mg 279.078	0.9921	ppb	1.8748	189.0	25.7950	0.99210
Mn 257.610	-0.0206	ppb	0.0291	141.1	55.2466	-0.02065
Mo 202.032	0.5273	ppb	0.4030	76.4	13.3363	0.52729
Na 330.237	-71.4284	ppb	133.003	186.2	26.5459	-71.42836
Ni 231.604	0.3799	ppb	0.5548	146.0	-2.3165	0.37995
Pb 220.353	0.6219	ppb	0.7307	117.5	14.9978	0.62188
Sb 206.834	-0.6420	ppb	3.3567	522.9	6.5570	-0.64198
Se 196.026	-0.7841	ppb	3.2755	417.8	7.0043	-0.78406
Sn 189.925	2.5571	ppb	0.7353	28.8	-10.4975	2.55713
Sr 216.596	-0.1724	ppb	0.2039	118.2	7.2483	-0.17243
Ti 334.941	0.1514	ppb	0.0514	33.9	-27.7911	0.15145
Tl 190.794	2.3312	ppb	1.9956	85.6	-4.2959	2.33122
V 292.401	0.4257	ppb	0.0604	14.2	2.5574	0.42571
Zn 206.200	-0.4459	ppb	0.1482	33.2	6.2840	-0.44588

mb 680-308012/1- (Samp)

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Rack 2, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0576u	-0.0854u	0.0548
Al 308.215	-5.2565u	-4.5347u	-4.9025u
As 188.980	4.4711	1.7822	-2.6614u
B 249.678	0.8707	1.4467	1.4879
Ba 389.178	-0.3453u	-0.9777u	-0.2058u
Be 313.042	-0.0124u	-0.0110u	-0.0192u
Ca 370.602	3.088	5.039	3.965
Cd 226.502	0.1708	-0.0245u	0.1164
Co 228.615	0.1323	0.0298	0.1341
Cr 267.716	0.0525	0.0399	0.0132

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Label	Replicates Concentration		
Cu 324.754	-0.4211u	-0.0944u	-0.2892u
Fe 271.441	5.7552	-2.0539u	2.1326
K 766.491	0.4506	0.0542	0.9641
Mg 279.078	0.4181	2.9547	-1.7842u
Mn 257.610	-0.0829u	-0.0470u	-0.1001u
Mo 202.032	0.0127	-0.2498u	-0.1136u
Na 330.237	290.868	14.2372	-64.0510u
Ni 231.604	-0.1537u	0.2018	0.1593
Pb 220.353	-1.5140u	-1.8763u	3.2304
Sb 206.834	-0.1830u	-0.1631u	-3.2384u
Se 196.026	-4.2024u	3.6953	-0.2050u
Sn 189.925	1.1153	2.0938	1.8341
Sr 216.596	-0.1350u	-0.1667u	0.0149
Ti 334.941	0.0825	0.0646	0.0579
Tl 190.794	0.3386	-0.9398u	-0.3961u
V 292.401	0.0067	-0.0417u	0.0367
Zn 206.200	-0.5317u	0.4212	-1.7366u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0294	ppb	0.0742	252.4	-13.4776
Al 308.215	-4.8979	ppb	0.3609	7.4	234.845
As 188.980	1.1973	ppb	3.6020	300.8	-4.3251
B 249.678	1.2685	ppb	0.3451	27.2	83.9206
Ba 389.178	-0.5096	ppb	0.4113	80.7	-41.2926
Be 313.042	-0.0142	ppb	0.0044	30.8	-268.393
Ca 370.602	4.031	ppb	0.9774	24.2	23.04
Cd 226.502	0.0876	ppb	0.1008	115.1	16.6949
Co 228.615	0.0987	ppb	0.0597	60.4	-2.3057
Cr 267.716	0.0352	ppb	0.0201	57.0	12.4906
Cu 324.754	-0.2683	ppb	0.1644	61.3	129.493
Fe 271.441	1.9446	ppb	3.9079	201.0	15.9676
K 766.491	0.4896	ppb	0.4562	93.2	270.671
Mg 279.078	0.5295	ppb	2.3714	447.8	24.6024
Mn 257.610	-0.0767	ppb	0.0271	35.3	40.9273
Mo 202.032	-0.1169	ppb	0.1313	112.3	8.1238
Na 330.237	80.3513	ppb	186.467	232.1	32.8367
Ni 231.604	0.0691	ppb	0.1941	280.9	-3.4181
Pb 220.353	-0.0533	ppb	2.8495	5346.4	13.7329
Sb 206.834	-1.1948	ppb	1.7698	148.1	5.7417
Se 196.026	-0.2373	ppb	3.9490	1663.9	7.2671
Sn 189.925	1.6811	ppb	0.5069	30.2	-11.3419
Sr 216.596	-0.0956	ppb	0.0970	101.5	8.4540
Ti 334.941	0.0684	ppb	0.0127	18.6	-51.6331
Tl 190.794	-0.3324	ppb	0.6416	193.0	-7.7966
V 292.401	0.0006	ppb	0.0395	6834.1	-9.4440
Zn 206.200	-0.6157	ppb	1.0813	175.6	6.0218

lcs 680-308012/2-b (Samp) 12/18/2013, 10:43:07 PM Rack 2, Tube 40

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	47.0235	46.6533	47.2217
Al 308.215	4512.63	4477.28	4516.37
As 188.980	99.4884	94.4022	98.9005

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	187.254	187.142	187.600
Ba 389.178	96.1437	95.2294	96.6824
Be 313.042	48.1324	47.8718	48.2385
Ca 370.602	4625	4581	4628
Cd 226.502	47.5808	47.3831	47.5605
Co 228.615	46.9832	47.8269	47.5971
Cr 267.716	96.9217	96.3753	97.0759
Cu 324.754	96.4056	94.0998	95.6176
Fe 271.441	4788.93	4758.66	4788.88
K 766.491	4567.46	4521.47	4560.18
Mg 279.078	4806.73	4779.87	4817.27
Mn 257.610	483.609	480.050	483.932
Mo 202.032	96.7868	96.7594	97.2411
Na 330.237	5083.75	5089.28	5480.78
Ni 231.604	94.1677	91.4404	93.6277
Pb 220.353	46.6726	47.1759	44.9003
Sb 206.834	46.6447	43.7896	45.7917
Se 196.026	99.3300	84.9204	98.8071
Sn 189.925	196.671	196.414	199.291
Sr 216.596	95.0629	95.9675	96.2641
Ti 334.941	92.8713	92.2493	93.1086
Tl 190.794	38.9601	36.7504	36.7703
V 292.401	97.0509	95.8930	96.8111
Zn 206.200	92.3852	92.4853	94.6944

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.9662	ppb	0.2885	0.6	3892.88
Al 308.215	4502.10	ppb	21.5710	0.5	31606.7
As 188.980	97.5970	ppb	2.7824	2.9	68.9102
B 249.678	187.332	ppb	0.2387	0.1	2658.01
Ba 389.178	96.0185	ppb	0.7346	0.8	2418.36
Be 313.042	48.0809	ppb	0.1887	0.4	98363.4
Ca 370.602	4611	ppb	26.28	0.6	14020
Cd 226.502	47.5081	ppb	0.1087	0.2	2453.46
Co 228.615	47.4691	ppb	0.4361	0.9	629.525
Cr 267.716	96.7910	ppb	0.3682	0.4	5784.34
Cu 324.754	95.3744	ppb	1.1720	1.2	6300.71
Fe 271.441	4778.82	ppb	17.4589	0.4	8289.94
K 766.491	4549.70	ppb	24.7200	0.5	196834
Mg 279.078	4801.29	ppb	19.2881	0.4	12399.6
Mn 257.610	482.530	ppb	2.1538	0.4	123473
Mo 202.032	96.9291	ppb	0.2706	0.3	792.975
Na 330.237	5217.94	ppb	227.644	4.4	242.983
Ni 231.604	93.0786	ppb	1.4442	1.6	326.498
Pb 220.353	46.2496	ppb	1.1953	2.6	100.769
Sb 206.834	45.4087	ppb	1.4656	3.2	75.7468
Se 196.026	94.3525	ppb	8.1726	8.7	52.9295
Sn 189.925	197.459	ppb	1.5921	0.8	177.375
Sr 216.596	95.7648	ppb	0.6257	0.7	1479.13
Ti 334.941	92.7430	ppb	0.4438	0.5	26550.7
Tl 190.794	37.4936	ppb	1.2701	3.4	41.1891
V 292.401	96.5850	ppb	0.6112	0.6	2726.50
Zn 206.200	93.1883	ppb	1.3053	1.4	150.709

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680-97133-d-1-b (Samp) **12/18/2013, 10:47:53 PM** **Rack 2, Tube 41****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2970	0.2844	0.1716
Al 308.215	-2.0596u	-2.3142u	-0.8863u
As 188.980	1.5187	3.3130	2.3247
B 249.678	1.0609u	1.5369u	1.7973u
Ba 389.178	54.0714	55.1776	54.9184
Be 313.042	-0.0106u	-0.0146u	-0.0201u
Ca 370.602	20885	21041	21075
Cd 226.502	-0.6281	-0.5477	-0.5092
Co 228.615	19.6208	19.6554	19.1106
Cr 267.716	-0.2088	-0.2894	-0.1852
Cu 324.754	-0.5499u	-0.4951u	-0.7491u
Fe 271.441	49328.3	49491.6	49618.2
K 766.491	1693.18	1695.73	1698.76
Mg 279.078	31123.5	31170.4	31225.6
Mn 257.610	3346.29	3361.66	3377.88
Mo 202.032	0.1438u	0.1990u	-0.0746u
Na 330.237	11201.5	11658.4	11484.3
Ni 231.604	8.8751	7.9009	8.1991
Pb 220.353	0.2341	1.7794	-1.5056
Sb 206.834	-2.4868u	0.2171	-3.9742u
Se 196.026	-0.9644	-8.1529u	4.3328
Sn 189.925	0.6213	0.8610	-1.1818u
Sr 216.596	140.734	142.378	141.461
Ti 334.941	-0.3665	-0.3880	-0.3863
Tl 190.794	1.4384u	1.2003u	-0.3084u
V 292.401	-0.1713	-0.0900	-0.1858
Zn 206.200	6.6816	6.7845	6.5647

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2510	ppb	0.0691	27.5	-1.5765
Al 308.215	-1.7534	ppb	0.7616	43.4	256.509
As 188.980	2.3855	ppb	0.8987	37.7	-4.0189
B 249.678	1.4650	ppb	0.3735	25.5	-9.4464
Ba 389.178	54.7225	ppb	0.5786	1.1	1521.44
Be 313.042	-0.0151	ppb	0.0048	31.8	-266.506
Ca 370.602	21000	ppb	101.5	0.5	61289
Cd 226.502	-0.5617	ppb	0.0607	10.8	206.601
Co 228.615	19.4623	ppb	0.3050	1.6	258.011
Cr 267.716	-0.2278	ppb	0.0546	24.0	30.0434
Cu 324.754	-0.5980	ppb	0.1337	22.4	127.207
Fe 271.441	49479.3	ppb	145.383	0.3	85650.1
K 766.491	1695.89	ppb	2.7931	0.2	73526.2
Mg 279.078	31173.2	ppb	51.0704	0.2	80385.0
Mn 257.610	3361.95	ppb	15.7972	0.5	859941
Mo 202.032	0.0894	ppb	0.1447	161.8	7.0115
Na 330.237	11448.1	ppb	230.578	2.0	492.715
Ni 231.604	8.3250	ppb	0.4992	6.0	27.2042
Pb 220.353	0.1693	ppb	1.6434	970.8	18.9404
Sb 206.834	-2.0813	ppb	2.1248	102.1	6.1116
Se 196.026	-1.5948	ppb	6.2667	392.9	8.1955
Sn 189.925	0.1002	ppb	1.1167	1114.6	-12.8525
Sr 216.596	141.524	ppb	0.8237	0.6	2267.41

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.3803	ppb	0.0119	3.1	-33.5330
Tl 190.794	0.7768	ppb	0.9473	121.9	-13.8775
V 292.401	-0.1491	ppb	0.0516	34.6	6.2131
Zn 206.200	6.6769	ppb	0.1100	1.6	16.1512

680-97133-c-2-b (Samp) 12/18/2013, 10:52:38 PM Rack 2, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6392	0.7051	0.4983
Al 308.215	-4.0129u	-3.4695u	-2.2923u
As 188.980	6.8402	1.9215	2.7674
B 249.678	-20.5357u	-20.7931u	-21.4329u
Ba 389.178	44.8782	44.1128	44.6926
Be 313.042	-0.0190u	-0.0251u	-0.0218u
Ca 370.602	41749	42035	42035
Cd 226.502	-1.3068	-1.3865	-1.4884
Co 228.615	35.9911	36.1241	36.0419
Cr 267.716	-1.0261	-0.9551	-0.7318
Cu 324.754	-1.4084u	-1.2028u	-1.2744u
Fe 271.441	117841	118020	117643
K 766.491	2131.38	2128.38	2123.34
Mg 279.078	21828.4	21875.7	21803.8
Mn 257.610	8635.70	8659.20	8650.37
Mo 202.032	0.5195u	-0.2066u	0.1414u
Na 330.237	9958.52	9870.58	9842.36
Ni 231.604	3.6131	3.6695	4.9799
Pb 220.353	0.1384	0.8952	1.7407
Sb 206.834	-3.8636u	-1.1633	-0.7334
Se 196.026	5.3631	1.6505	-2.9293
Sn 189.925	1.6450	2.9221	1.3303
Sr 216.596	180.364	181.028	180.591
Ti 334.941	-0.2369	-0.2510	-0.2327
Tl 190.794	4.4016u	4.6976u	3.3956u
V 292.401	-0.7703	-0.8969	-0.7598
Zn 206.200	6.2078	9.4943	9.8138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6142	ppb	0.1057	17.2	25.3012
Al 308.215	-3.2582	ppb	0.8796	27.0	245.838
As 188.980	3.8430	ppb	2.6299	68.4	-3.7349
B 249.678	-20.9206	ppb	0.4620	2.2	-452.901
Ba 389.178	44.5612	ppb	0.3992	0.9	1349.73
Be 313.042	-0.0219	ppb	0.0030	13.8	-274.651
Ca 370.602	41940	ppb	165.1	0.4	120875
Cd 226.502	-1.3939	ppb	0.0910	6.5	471.211
Co 228.615	36.0523	ppb	0.0671	0.2	482.075
Cr 267.716	-0.9043	ppb	0.1536	17.0	38.8370
Cu 324.754	-1.2952	ppb	0.1044	8.1	108.445
Fe 271.441	117835	ppb	188.372	0.2	203957
K 766.491	2127.70	ppb	4.0622	0.2	92183.7
Mg 279.078	21836.0	ppb	36.5799	0.2	56188.3
Mn 257.610	8648.42	ppb	11.8733	0.1	2211508
Mo 202.032	0.1514	ppb	0.3632	239.8	3.6742

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	9890.49	ppb	60.5836	0.6	412.980
Ni 231.604	4.0875	ppb	0.7733	18.9	14.0485
Pb 220.353	0.9247	ppb	0.8016	86.7	27.1363
Sb 206.834	-1.9201	ppb	1.6968	88.4	8.6992
Se 196.026	1.3615	ppb	4.1537	305.1	11.9594
Sn 189.925	1.9658	ppb	0.8430	42.9	-11.0463
Sr 216.596	180.661	ppb	0.3373	0.2	2993.93
Ti 334.941	-0.2402	ppb	0.0096	4.0	-27.9198
Tl 190.794	4.1649	ppb	0.6825	16.4	-20.2646
V 292.401	-0.8090	ppb	0.0763	9.4	14.4253
Zn 206.200	8.5053	ppb	1.9961	23.5	17.4059

680-97133-d-3-b (Samp) 12/18/2013, 10:57:24 PM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0514u	-0.2216u	0.6267
Al 308.215	-4.6227u	-4.4623u	-4.5073u
As 188.980	3.1442	-1.7427u	1.8735
B 249.678	-1.2904u	-1.5119u	-1.6509u
Ba 389.178	36.7810	37.7971	37.0471
Be 313.042	-0.0112u	-0.0108u	-0.0158u
Ca 370.602	15086	15092	15074
Cd 226.502	-0.2878	-0.1717	-0.2470
Co 228.615	6.7104	6.6547	6.6177
Cr 267.716	-0.2293u	-0.0793	-0.1768
Cu 324.754	-0.7292u	-0.2324u	-0.0609
Fe 271.441	15119.9	15173.6	15118.1
K 766.491	992.628	991.069	984.875
Mg 279.078	7387.53	7402.84	7398.40
Mn 257.610	1553.15	1557.24	1555.94
Mo 202.032	-0.3359u	-0.1463u	-0.6326u
Na 330.237	8025.57	8122.70	7948.91
Ni 231.604	2.5933	1.7927	1.7906
Pb 220.353	0.7001	0.2751	2.4011
Sb 206.834	-1.0911u	-2.6370u	-4.6576u
Se 196.026	-0.7907	-4.4089u	-4.9313u
Sn 189.925	3.6256	3.3220	-1.5474u
Sr 216.596	99.3415	100.102	100.206
Ti 334.941	-0.0087	-0.0662	0.0074
Tl 190.794	-2.3269u	0.1567u	-1.6524u
V 292.401	-0.0553	-0.4719u	-0.3739u
Zn 206.200	2.0130	2.9981	3.2330

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1179	ppb	0.4488	380.7	-4.9124
Al 308.215	-4.5308	ppb	0.0827	1.8	237.344
As 188.980	1.0917	ppb	2.5356	232.3	-4.5878
B 249.678	-1.4844	ppb	0.1818	12.2	16.3144
Ba 389.178	37.2084	ppb	0.5269	1.4	956.542
Be 313.042	-0.0126	ppb	0.0028	21.9	-261.223
Ca 370.602	15084	ppb	9.444	0.1	45694
Cd 226.502	-0.2355	ppb	0.0589	25.0	68.3599
Co 228.615	6.6609	ppb	0.0467	0.7	85.8551

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.1618	ppb	0.0761	47.0	13.8996
Cu 324.754	-0.3408	ppb	0.3471	101.8	130.611
Fe 271.441	15137.2	ppb	31.5557	0.2	26211.7
K 766.491	989.524	ppb	4.1007	0.4	43005.2
Mg 279.078	7396.26	ppb	7.8803	0.1	19074.9
Mn 257.610	1555.44	ppb	2.0881	0.1	397808
Mo 202.032	-0.3716	ppb	0.2451	66.0	5.2126
Na 330.237	8032.39	ppb	87.0955	1.1	358.892
Ni 231.604	2.0589	ppb	0.4629	22.5	4.0470
Pb 220.353	1.1255	ppb	1.1250	100.0	17.5407
Sb 206.834	-2.7953	ppb	1.7885	64.0	3.8673
Se 196.026	-3.3770	ppb	2.2550	66.8	6.3713
Sn 189.925	1.8001	ppb	2.9030	161.3	-11.2171
Sr 216.596	99.8830	ppb	0.4718	0.5	1567.18
Ti 334.941	-0.0225	ppb	0.0387	171.8	-42.8913
Tl 190.794	-1.2742	ppb	1.2843	100.8	-11.6685
V 292.401	-0.3003	ppb	0.2178	72.5	-11.9430
Zn 206.200	2.7480	ppb	0.6473	23.6	10.8710

680-97133-c-4-b (Samp)

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Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6129u	1.0224	0.2096u
Al 308.215	-0.6648u	-2.2285u	-0.5582u
As 188.980	4.0130	0.0187u	3.9575
B 249.678	14.3913u	15.4372u	16.1676u
Ba 389.178	82.2831	83.1855	83.6300
Be 313.042	-0.0328u	-0.0228u	-0.0352u
Ca 370.602	73544	73328	73638
Cd 226.502	-1.6951	-1.6863	-1.5656
Co 228.615	72.1177	71.2801	72.1902
Cr 267.716	-0.8836	-1.0680	-0.9136
Cu 324.754	-1.6471u	-1.4562u	-1.4413u
Fe 271.441	152420	152416	153342
K 766.491	3432.47	3427.42	3431.64
Mg 279.078	153742	153888	154881
Mn 257.610	5240.31	5229.99	5279.87
Mo 202.032	0.6496u	0.7264u	0.4890u
Na 330.237	11944.8	11835.8	11784.3
Ni 231.604	21.2889	21.2802	22.5058
Pb 220.353	-0.0325	1.9953	2.9949
Sb 206.834	-1.7928	-6.2367u	-1.0878
Se 196.026	-8.5011u	-2.8552	-11.4281u
Sn 189.925	0.0801	0.3873	3.4166
Sr 216.596	327.768	329.288	331.111
Ti 334.941	-2.3611	-2.2902	-2.3205
Tl 190.794	-3.9667u	-0.3332u	3.2890u
V 292.401	-0.1172	-0.2852	-0.5232
Zn 206.200	65.0793	64.1821	67.5847

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6150	ppb	0.4064	66.1	-17.1030
Al 308.215	-1.1505	ppb	0.9351	81.3	260.143

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.6631	ppb	2.2902	86.0	-5.0534
B 249.678	15.3321	ppb	0.8928	5.8	-17.4263
Ba 389.178	83.0329	ppb	0.6863	0.8	2749.03
Be 313.042	-0.0303	ppb	0.0066	21.8	-284.215
Ca 370.602	73503	ppb	158.7	0.2	216009
Cd 226.502	-1.6490	ppb	0.0724	4.4	617.590
Co 228.615	71.8627	ppb	0.5058	0.7	961.225
Cr 267.716	-0.9551	ppb	0.0990	10.4	27.5078
Cu 324.754	-1.5149	ppb	0.1147	7.6	107.689
Fe 271.441	152726	ppb	533.461	0.3	264348
K 766.491	3430.51	ppb	2.7089	0.1	148476
Mg 279.078	154170	ppb	619.662	0.4	397689
Mn 257.610	5250.06	ppb	26.3281	0.5	1344025
Mo 202.032	0.6216	ppb	0.1212	19.5	5.5131
Na 330.237	11854.9	ppb	81.9495	0.7	485.773
Ni 231.604	21.6916	ppb	0.7051	3.3	77.3743
Pb 220.353	1.6526	ppb	1.5425	93.3	30.4375
Sb 206.834	-3.0391	ppb	2.7915	91.9	8.2086
Se 196.026	-7.5948	ppb	4.3577	57.4	7.3531
Sn 189.925	1.2947	ppb	1.8441	142.4	-11.6775
Sr 216.596	329.389	ppb	1.6739	0.5	5336.33
Ti 334.941	-2.3240	ppb	0.0356	1.5	-19.8736
Tl 190.794	-0.3369	ppb	3.6278	1076.7	-27.8391
V 292.401	-0.3085	ppb	0.2040	66.1	44.1122
Zn 206.200	65.6154	ppb	1.7635	2.7	104.840

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Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7128	1.4119	0.3813u
Al 308.215	0.9556	4.9335	2.6977
As 188.980	8.6848	3.7619u	8.3151
B 249.678	-34.2762u	-34.1106u	-33.1539u
Ba 389.178	216.610	215.357	215.386
Be 313.042	-0.0373u	-0.0304u	-0.0292u
Ca 370.602	123391	119779	122610
Cd 226.502	-2.4228	-2.8860	-2.6135
Co 228.615	121.930	121.487	121.166
Cr 267.716	-2.0104	-1.9721	-1.7857
Cu 324.754	-1.2818	-2.7831u	-1.9830u
Fe 271.441	249548	248754	248152
K 766.491	5515.41	5512.51	5486.15
Mg 279.078	118510	117988	117954
Mn 257.610	19019.9	19644.9	19394.8
Mo 202.032	-0.0321u	-0.2089u	-0.1571u
Na 330.237	13842.9	14047.1	13631.6
Ni 231.604	48.9585	48.8115	48.0716
Pb 220.353	2.4640	2.7258	0.6705
Sb 206.834	-9.7964u	-10.8251u	-4.0355
Se 196.026	-1.4659	0.5032	-7.9264
Sn 189.925	3.0555	2.8945	0.0607
Sr 216.596	505.327	504.220	502.716
Ti 334.941	-1.6443	-1.6807	-1.7169

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	16.7357u	14.8699u	14.3852u
V 292.401	-1.2797	-0.9729	-0.9057
Zn 206.200	8.0715	7.5567	10.0967

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8354	ppb	0.5261	63.0	25.1314
Al 308.215	2.8623	ppb	1.9941	69.7	287.545
As 188.980	6.9206	ppb	2.7417	39.6	-2.9755
B 249.678	-33.8469	ppb	0.6058	1.8	-886.751
Ba 389.178	215.784	ppb	0.7148	0.3	6157.09
Be 313.042	-0.0323	ppb	0.0044	13.5	-274.355
Ca 370.602	121927	ppb	1900	1.6	358987
Cd 226.502	-2.6408	ppb	0.2328	8.8	998.337
Co 228.615	121.528	ppb	0.3837	0.3	1627.71
Cr 267.716	-1.9228	ppb	0.1202	6.3	75.3703
Cu 324.754	-2.0160	ppb	0.7512	37.3	112.171
Fe 271.441	248818	ppb	700.271	0.3	430663
K 766.491	5504.69	ppb	16.1248	0.3	238098
Mg 279.078	118151	ppb	311.655	0.3	304474
Mn 257.610	19353.2	ppb	314.572	1.6	4949353
Mo 202.032	-0.1327	ppb	0.0909	68.5	-5.9899
Na 330.237	13840.6	ppb	207.751	1.5	547.533
Ni 231.604	48.6139	ppb	0.4753	1.0	175.432
Pb 220.353	1.9534	ppb	1.1188	57.3	42.1788
Sb 206.834	-8.2190	ppb	3.6594	44.5	3.7730
Se 196.026	-2.9631	ppb	4.4097	148.8	14.5041
Sn 189.925	2.0036	ppb	1.6845	84.1	-10.9718
Sr 216.596	504.088	ppb	1.3105	0.3	8189.72
Ti 334.941	-1.6806	ppb	0.0363	2.2	12.3574
Tl 190.794	15.3303	ppb	1.2410	8.1	-26.5844
V 292.401	-1.0528	ppb	0.1994	18.9	60.7266
Zn 206.200	8.5750	ppb	1.3427	15.7	14.5017

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Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0355	0.2987	0.2050
Al 308.215	0.1607	-1.6012u	-2.4466u
As 188.980	2.6612	4.8332	1.1517
B 249.678	-7.4030u	-8.3459u	-7.2433u
Ba 389.178	33.8884	33.9251	33.8203
Be 313.042	-0.0152u	-0.0185u	-0.0194u
Ca 370.602	27873	27944	27860
Cd 226.502	-0.5806	-0.6579	-0.5448
Co 228.615	23.0691	22.9853	23.0697
Cr 267.716	-0.8225	-0.7563	-0.7306
Cu 324.754	-0.6046u	-0.8665u	-0.6433u
Fe 271.441	51154.3	51381.6	51316.1
K 766.491	1846.01	1857.09	1850.46
Mg 279.078	13011.2	13029.2	13055.0
Mn 257.610	9324.68	9332.94	9326.30
Mo 202.032	-0.1071u	-0.1365u	-0.4389u
Na 330.237	10086.7	9988.44	10026.1

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Label	Replicates Concentration		
Ni 231.604	2.1511	2.8868	1.9833
Pb 220.353	0.4395	-0.3520	0.2720
Sb 206.834	-4.7771u	-1.5709u	-4.1165u
Se 196.026	-6.2908	4.1497	1.9951
Sn 189.925	-0.2225u	-1.0791u	0.9870
Sr 216.596	150.416	150.406	149.385
Ti 334.941	-0.0862	-0.0595	-0.1649
Tl 190.794	10.7241	6.9567u	6.9024u
V 292.401	-0.1611	-0.3646	-0.6517
Zn 206.200	8.2675	6.7364	5.1316

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1561	ppb	0.1724	110.4	20.4843
Al 308.215	-1.2957	ppb	1.3302	102.7	259.685
As 188.980	2.8820	ppb	1.8507	64.2	-3.6629
B 249.678	-7.6641	ppb	0.5959	7.8	-139.656
Ba 389.178	33.8779	ppb	0.0532	0.2	946.958
Be 313.042	-0.0177	ppb	0.0023	12.7	-270.151
Ca 370.602	27893	ppb	45.35	0.2	82738
Cd 226.502	-0.5945	ppb	0.0578	9.7	212.642
Co 228.615	23.0414	ppb	0.0485	0.2	305.841
Cr 267.716	-0.7698	ppb	0.0474	6.2	30.8561
Cu 324.754	-0.7048	ppb	0.1414	20.1	120.996
Fe 271.441	51284.0	ppb	117.010	0.2	88773.9
K 766.491	1851.19	ppb	5.5731	0.3	80236.2
Mg 279.078	13031.8	ppb	22.0093	0.2	33459.6
Mn 257.610	9327.97	ppb	4.3752	0.0	2384948
Mo 202.032	-0.2275	ppb	0.1837	80.7	4.3471
Na 330.237	10033.7	ppb	49.5758	0.5	433.714
Ni 231.604	2.3404	ppb	0.4805	20.5	6.0161
Pb 220.353	0.1198	ppb	0.4172	348.1	20.4717
Sb 206.834	-3.4882	ppb	1.6929	48.5	4.0679
Se 196.026	-0.0487	ppb	5.5122	11324.1	10.4272
Sn 189.925	-0.1049	ppb	1.0381	989.8	-13.0473
Sr 216.596	150.069	ppb	0.5924	0.4	2402.53
Ti 334.941	-0.1036	ppb	0.0548	52.9	-36.5803
Tl 190.794	8.1944	ppb	2.1910	26.7	-8.0429
V 292.401	-0.3925	ppb	0.2465	62.8	-0.1775
Zn 206.200	6.7118	ppb	1.5681	23.4	16.1645

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Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1594	-0.2210u	0.0764
Al 308.215	-4.7457u	-4.9622u	-4.0756u
As 188.980	0.7845	-1.9237u	-1.8707u
B 249.678	-0.6005u	-1.3712u	-1.5238u
Ba 389.178	7.0317	7.5961	7.0058
Be 313.042	-0.0121u	-0.0060u	-0.0115u
Ca 370.602	5605	5621	5548
Cd 226.502	-0.0739	-0.2163	-0.1519
Co 228.615	3.9870	4.5145	4.0290
Cr 267.716	-0.1592	-0.0652	0.0043

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Label	Replicates Concentration		
Cu 324.754	-0.3914u	-0.3278u	-0.5585u
Fe 271.441	10411.2	10398.2	10237.5
K 766.491	362.764	362.675	359.858
Mg 279.078	2615.88	2613.13	2567.94
Mn 257.610	1948.63	1950.32	1921.10
Mo 202.032	-0.3134u	-0.5366u	-1.0109u
Na 330.237	1810.48	1792.15	1876.80
Ni 231.604	0.7937	1.0989	1.3236
Pb 220.353	-2.5265u	1.2011	0.1379
Sb 206.834	-2.8285u	-4.9642u	-2.5440u
Se 196.026	-0.9498	-2.4943u	1.1155
Sn 189.925	0.7933	0.7889	1.8421
Sr 216.596	30.1893	29.6797	29.1965
Ti 334.941	0.0252	0.0254	0.0151
Tl 190.794	0.2929u	-1.0344u	1.0316u
V 292.401	-0.1857u	-0.0136	-0.1073
Zn 206.200	1.3286	1.6853	1.6909

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0049	ppb	0.2000	4058.1	-6.5451
Al 308.215	-4.5945	ppb	0.4622	10.1	236.887
As 188.980	-1.0033	ppb	1.5485	154.3	-6.1222
B 249.678	-1.1651	ppb	0.4949	42.5	30.0531
Ba 389.178	7.2112	ppb	0.3336	4.6	177.772
Be 313.042	-0.0099	ppb	0.0034	34.5	-258.371
Ca 370.602	5591	ppb	38.02	0.7	16590
Cd 226.502	-0.1474	ppb	0.0713	48.4	51.2565
Co 228.615	4.1768	ppb	0.2932	7.0	52.5318
Cr 267.716	-0.0734	ppb	0.0820	111.8	19.7201
Cu 324.754	-0.4259	ppb	0.1191	28.0	123.277
Fe 271.441	10349.0	ppb	96.7350	0.9	17924.3
K 766.491	361.766	ppb	1.6530	0.5	15880.8
Mg 279.078	2598.98	ppb	26.9187	1.0	6690.01
Mn 257.610	1940.01	ppb	16.4041	0.8	496063
Mo 202.032	-0.6203	ppb	0.3562	57.4	3.4690
Na 330.237	1826.48	ppb	44.5349	2.4	102.850
Ni 231.604	1.0721	ppb	0.2660	24.8	0.4189
Pb 220.353	-0.3958	ppb	1.9203	485.1	14.3995
Sb 206.834	-3.4456	ppb	1.3228	38.4	2.7375
Se 196.026	-0.7762	ppb	1.8112	233.3	7.6415
Sn 189.925	1.1414	ppb	0.6068	53.2	-11.8589
Sr 216.596	29.6885	ppb	0.4965	1.7	483.621
Ti 334.941	0.0219	ppb	0.0059	26.8	-52.0904
Tl 190.794	0.0967	ppb	1.0469	1082.9	-9.5794
V 292.401	-0.1022	ppb	0.0861	84.3	-8.1658
Zn 206.200	1.5683	ppb	0.2076	13.2	9.1583

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	20.6186	21.0940	20.9626
Al 308.215	1878.86	1876.75	1878.64
As 188.980	198.572	198.340	197.565

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Label	Replicates Concentration		
B 249.678	470.849	473.816	475.834
Ba 389.178	231.939	231.082	232.465
Be 313.042	49.4727	49.4844	49.5371
Ca 370.602	29545	29522	29533
Cd 226.502	48.1978	48.1631	48.1647
Co 228.615	219.474	218.896	217.170
Cr 267.716	196.915	196.955	197.176
Cu 324.754	197.247	197.990	197.893
Fe 271.441	53021.0	52964.3	52964.4
K 766.491	3827.46	3821.44	3834.55
Mg 279.078	15048.1	15037.8	15054.8
Mn 257.610	9485.05	9446.13	9451.17
Mo 202.032	201.547	202.282	201.091
Na 330.237	11719.8	12025.4	11792.7
Ni 231.604	193.967	191.972	193.192
Pb 220.353	189.718	189.790	189.838
Sb 206.834	180.022	176.292	186.786
Se 196.026	193.967	193.501	195.663
Sn 189.925	201.290	206.186	205.358
Sr 216.596	350.216	351.847	351.722
Ti 334.941	193.428	193.424	193.970
Tl 190.794	202.144	203.721	207.355
V 292.401	198.361	197.956	198.072
Zn 206.200	201.454	197.773	200.276

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.8917	ppb	0.2455	1.2	1736.66
Al 308.215	1878.08	ppb	1.1614	0.1	13330.5
As 188.980	198.159	ppb	0.5271	0.3	144.694
B 249.678	473.500	ppb	2.5074	0.5	6537.61
Ba 389.178	231.829	ppb	0.6980	0.3	5955.87
Be 313.042	49.4981	ppb	0.0343	0.1	101302
Ca 370.602	29534	ppb	11.68	0.0	87818
Cd 226.502	48.1752	ppb	0.0196	0.0	2704.36
Co 228.615	218.513	ppb	1.1986	0.5	2913.25
Cr 267.716	197.015	ppb	0.1405	0.1	11822.8
Cu 324.754	197.710	ppb	0.4040	0.2	12920.3
Fe 271.441	52983.2	ppb	32.7353	0.1	91738.7
K 766.491	3827.82	ppb	6.5626	0.2	165643
Mg 279.078	15046.9	ppb	8.5640	0.1	38655.2
Mn 257.610	9460.78	ppb	21.1648	0.2	2418924
Mo 202.032	201.640	ppb	0.6010	0.3	1637.40
Na 330.237	11846.0	ppb	159.609	1.3	505.042
Ni 231.604	193.044	ppb	1.0057	0.5	681.956
Pb 220.353	189.782	ppb	0.0604	0.0	375.859
Sb 206.834	181.033	ppb	5.3193	2.9	279.924
Se 196.026	194.377	ppb	1.1374	0.6	103.953
Sn 189.925	204.278	ppb	2.6203	1.3	183.962
Sr 216.596	351.262	ppb	0.9077	0.3	5472.98
Ti 334.941	193.608	ppb	0.3142	0.2	55531.0
Tl 190.794	204.407	ppb	2.6721	1.3	249.943
V 292.401	198.129	ppb	0.2087	0.1	5619.90
Zn 206.200	199.835	ppb	1.8797	0.9	314.235

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Cont Calib Verif (CCV) 12/18/2013, 11:26:00 PM Rack 2, Tube 49

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	483.663	482.439	485.069
Al 308.215	4686.35	4649.66	4642.55
As 188.980	505.238	497.067	493.719
B 249.678	478.769	478.183	477.727
Ba 389.178	4947.83	4909.09	4908.70
Be 313.042	488.022	482.810	481.150
Ca 370.602	4677	4641	4626
Cd 226.502	491.637	488.298	487.152
Co 228.615	491.682	489.530	488.190
Cr 267.716	4928.63	4893.41	4884.63
Cu 324.754	4833.12	4776.78	4840.98
Fe 271.441	4922.46	4907.16	4888.19
K 766.491	9556.88	9521.49	9483.62
Mg 279.078	4979.86	4960.46	4933.34
Mn 257.610	4850.92	4810.10	4798.29
Mo 202.032	506.534	502.544	502.127
Na 330.237	7404.06	7456.26	7386.76
Ni 231.604	2359.41	2376.73	2356.62
Pb 220.353	478.524	469.255	473.177
Sb 206.834	933.719	941.179	926.590
Se 196.026	4852.60	4827.23	4817.65
Sn 189.925	5035.72	4937.94	4946.17
Sr 216.596	2487.18	2468.38	2460.57
Ti 334.941	469.373	465.848	465.764
Tl 190.794	4917.53	4880.32	4880.27
V 292.401	4914.37	4886.04	4882.61
Zn 206.200	2442.55	2421.37	2417.95

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.724	ppb	1.3158	0.3	40165.0	96.74471
Al 308.215	4659.52	ppb	23.5084	0.5	32128.9	93.19038
As 188.980	498.675	ppb	5.9256	1.2	373.619	99.73494
B 249.678	478.226	ppb	0.5227	0.1	6696.49	95.64528
Ba 389.178	4921.87	ppb	22.4800	0.5	124301	98.43746
Be 313.042	483.994	ppb	3.5855	0.7	994160	96.79875
Ca 370.602	4648	ppb	26.11	0.6	14507	92.96365
Cd 226.502	489.029	ppb	2.3303	0.5	24941.9	97.80573
Co 228.615	489.801	ppb	1.7615	0.4	6542.97	97.96017
Cr 267.716	4902.22	ppb	23.2887	0.5	292273	98.04443
Cu 324.754	4816.96	ppb	35.0188	0.7	310707	96.33916
Fe 271.441	4905.94	ppb	17.1674	0.3	8620.11	98.11877
K 766.491	9520.66	ppb	36.6349	0.4	411621	95.20661
Mg 279.078	4957.89	ppb	23.3641	0.5	12716.7	99.15775
Mn 257.610	4819.77	ppb	27.6145	0.6	1232252	96.39533
Mo 202.032	503.735	ppb	2.4330	0.5	4074.83	100.74699
Na 330.237	7415.70	ppb	36.1802	0.5	299.253	98.87594
Ni 231.604	2364.25	ppb	10.8917	0.5	8381.32	94.57014
Pb 220.353	473.652	ppb	4.6527	1.0	902.532	94.73035
Sb 206.834	933.829	ppb	7.2953	0.8	1492.79	93.38291
Se 196.026	4832.49	ppb	18.0598	0.4	2331.69	96.64983
Sn 189.925	4973.28	ppb	54.2368	1.1	4780.85	99.46551
Sr 216.596	2472.04	ppb	13.6775	0.6	37740.3	98.88167

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	466.995	ppb	2.0597	0.4	133890	93.39900
Tl 190.794	4892.70	ppb	21.4971	0.4	6421.25	97.85410
V 292.401	4894.34	ppb	17.4317	0.4	139244	97.88676
Zn 206.200	2427.29	ppb	13.3267	0.5	3750.35	97.09155

Cont Calib Blank (CCB) 12/18/2013, 11:30:46 PM Rack 2, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1606u	0.1072	0.0949
Al 308.215	-5.3083u	-6.1806u	-6.3389u
As 188.980	0.1476	2.3456	1.2363
B 249.678	3.1392	3.0444	1.5186
Ba 389.178	0.4623	0.2961	-0.2004u
Be 313.042	-0.0040u	-0.0017u	-0.0025u
Ca 370.602	0.7410	-0.8703u	-0.4683u
Cd 226.502	0.0814	0.0706	-0.0442u
Co 228.615	-0.1036u	0.0749	-0.3530u
Cr 267.716	0.1368	0.1126	0.1387
Cu 324.754	-0.3849u	-0.3028u	-0.4777u
Fe 271.441	4.7958	-1.0349u	5.5975
K 766.491	-0.0126u	0.5033	0.6335
Mg 279.078	0.9963	0.8017	1.8297
Mn 257.610	0.1019	0.1552	0.1623
Mo 202.032	0.6233	0.7163	0.3993
Na 330.237	-96.9990u	142.832	45.7905
Ni 231.604	0.7218	-0.0057u	0.8749
Pb 220.353	-1.0059u	-1.2588u	-0.3816u
Sb 206.834	-0.0560u	-2.7630u	-1.2818u
Se 196.026	-1.2595u	2.8502	4.4003
Sn 189.925	2.8884	3.7102	4.4567
Sr 216.596	-0.3162u	-0.0209u	-0.0596u
Ti 334.941	0.1782	0.1494	0.1425
Tl 190.794	2.4822	3.5893	2.9482
V 292.401	0.1720	-0.2032u	0.2650
Zn 206.200	-1.0579u	-1.9274u	-1.7850u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0139	ppb	0.1512	1091.0	-9.8729	0.01386
Al 308.215	-5.9426	ppb	0.5550	9.3	227.606	-5.94258
As 188.980	1.2432	ppb	1.0990	88.4	-4.2905	1.24320
B 249.678	2.5674	ppb	0.9095	35.4	101.951	2.56739
Ba 389.178	0.1860	ppb	0.3448	185.4	-23.7158	0.18601
Be 313.042	-0.0027	ppb	0.0012	42.7	-244.938	-0.00272
Ca 370.602	-0.1992	ppb	0.8387	421.0	9.757	-0.19921
Cd 226.502	0.0359	ppb	0.0696	193.7	14.0763	0.03592
Co 228.615	-0.1272	ppb	0.2149	168.9	-5.3416	-0.12723
Cr 267.716	0.1294	ppb	0.0145	11.2	18.1089	0.12939
Cu 324.754	-0.3885	ppb	0.0875	22.5	121.766	-0.38848
Fe 271.441	3.1195	ppb	3.6200	116.0	17.9791	3.11949
K 766.491	0.3747	ppb	0.3417	91.2	265.707	0.37474
Mg 279.078	1.2092	ppb	0.5461	45.2	26.3523	1.20923
Mn 257.610	0.1398	ppb	0.0330	23.6	96.2903	0.13981
Mo 202.032	0.5796	ppb	0.1630	28.1	13.7600	0.57961

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	30.5413	ppb	120.641	395.0	30.7757	30.54131
Ni 231.604	0.5304	ppb	0.4705	88.7	-1.7813	0.53036
Pb 220.353	-0.8821	ppb	0.4515	51.2	12.1775	-0.88210
Sb 206.834	-1.3669	ppb	1.3555	99.2	5.4697	-1.36692
Se 196.026	1.9970	ppb	2.9248	146.5	8.3413	1.99701
Sn 189.925	3.6851	ppb	0.7845	21.3	-9.4102	3.68510
Sr 216.596	-0.1323	ppb	0.1605	121.3	7.8672	-0.13225
Ti 334.941	0.1567	ppb	0.0190	12.1	-26.2902	0.15670
Tl 190.794	3.0066	ppb	0.5559	18.5	-3.4110	3.00658
V 292.401	0.0779	ppb	0.2479	318.1	-7.3641	0.07793
Zn 206.200	-1.5901	ppb	0.4664	29.3	4.5160	-1.59011

680-97133-c-6-e ms (Samp)

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Rack 2, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.2781	50.6308	49.7862
Al 308.215	4782.94	4787.36	4780.23
As 188.980	108.118	105.609	109.388
B 249.678	188.976	189.943	189.670
Ba 389.178	133.688	133.806	133.701
Be 313.042	50.5010	50.5715	50.3064
Ca 370.602	32167	32235	32215
Cd 226.502	48.6274	49.0304	48.5850
Co 228.615	72.9330	72.4561	72.5492
Cr 267.716	101.022	100.966	100.623
Cu 324.754	100.695	100.752	99.6665
Fe 271.441	55317.6	55473.9	55230.2
K 766.491	6862.22	6829.81	6808.65
Mg 279.078	17952.0	17994.5	17951.0
Mn 257.610	9616.74	9671.52	9639.87
Mo 202.032	101.626	102.068	101.618
Na 330.237	15193.8	15462.2	15049.0
Ni 231.604	98.4119	98.5670	100.065
Pb 220.353	51.9527	48.4606	48.0905
Sb 206.834	45.8970	46.5076	48.7027
Se 196.026	105.432	98.1386	106.333
Sn 189.925	207.290	209.467	212.292
Sr 216.596	248.341	249.578	248.546
Ti 334.941	96.7335	96.7403	96.8419
Tl 190.794	50.2420	48.9090	50.3356
V 292.401	100.721	101.472	100.899
Zn 206.200	103.834	105.703	104.043

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.2317	ppb	0.4242	0.8	4182.58
Al 308.215	4783.51	ppb	3.5997	0.1	33565.4
As 188.980	107.705	ppb	1.9229	1.8	75.9847
B 249.678	189.529	ppb	0.4987	0.3	2590.28
Ba 389.178	133.732	ppb	0.0646	0.0	3489.86
Be 313.042	50.4596	ppb	0.1373	0.3	103247
Ca 370.602	32206	ppb	34.97	0.1	95875
Cd 226.502	48.7476	ppb	0.2459	0.5	2744.21
Co 228.615	72.6461	ppb	0.2528	0.3	967.424

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	100.870	ppb	0.2163	0.2	6092.91
Cu 324.754	100.371	ppb	0.6111	0.6	6642.43
Fe 271.441	55340.6	ppb	123.497	0.2	95801.5
K 766.491	6833.56	ppb	26.9808	0.4	295516
Mg 279.078	17965.8	ppb	24.8350	0.1	46181.2
Mn 257.610	9642.71	ppb	27.5026	0.3	2465465
Mo 202.032	101.771	ppb	0.2575	0.3	829.299
Na 330.237	15235.0	ppb	209.631	1.4	646.587
Ni 231.604	99.0145	ppb	0.9127	0.9	348.906
Pb 220.353	49.5013	ppb	2.1310	4.3	113.176
Sb 206.834	47.0358	ppb	1.4755	3.1	79.9280
Se 196.026	103.301	ppb	4.4937	4.4	60.2561
Sn 189.925	209.683	ppb	2.5079	1.2	189.174
Sr 216.596	248.822	ppb	0.6629	0.3	3915.96
Ti 334.941	96.7719	ppb	0.0607	0.1	27771.0
Tl 190.794	49.8288	ppb	0.7980	1.6	46.1146
V 292.401	101.031	ppb	0.3922	0.4	2872.44
Zn 206.200	104.526	ppb	1.0242	1.0	167.057

680-97133-c-6-f msd (Samp)

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Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.6992	51.1804	49.7141
Al 308.215	4826.90	4814.02	4844.43
As 188.980	104.478	100.696	105.776
B 249.678	190.833	192.241	192.969
Ba 389.178	136.260	135.018	136.845
Be 313.042	50.9845	50.7432	51.1007
Ca 370.602	32987	32905	33215
Cd 226.502	48.9706	49.0348	49.3800
Co 228.615	73.6589	73.4279	73.6092
Cr 267.716	101.848	101.358	102.120
Cu 324.754	107.385	106.464	107.128
Fe 271.441	56622.7	56453.1	56910.0
K 766.491	6974.03	6939.67	6983.97
Mg 279.078	18318.9	18294.6	18390.8
Mn 257.610	9877.22	9849.40	9929.49
Mo 202.032	103.670	102.479	103.308
Na 330.237	15615.7	15660.1	15902.3
Ni 231.604	101.228	99.7265	100.350
Pb 220.353	47.4077	51.3597	47.9244
Sb 206.834	46.9753	50.0211	47.7179
Se 196.026	95.5984	95.5152	100.203
Sn 189.925	208.498	209.652	212.266
Sr 216.596	251.759	251.751	253.046
Ti 334.941	97.8608	97.3893	98.1576
Tl 190.794	48.4879	48.4266	48.2515
V 292.401	101.912	101.986	102.566
Zn 206.200	108.260	108.003	111.425

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.1979	ppb	0.8509	1.7	4180.23
Al 308.215	4828.45	ppb	15.2616	0.3	33878.2

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	103.650	ppb	2.6391	2.5	72.8870
B 249.678	192.014	ppb	1.0859	0.6	2622.30
Ba 389.178	136.041	ppb	0.9328	0.7	3551.31
Be 313.042	50.9428	ppb	0.1824	0.4	104238
Ca 370.602	33036	ppb	160.7	0.5	98357
Cd 226.502	49.1285	ppb	0.2201	0.4	2769.38
Co 228.615	73.5653	ppb	0.1216	0.2	979.722
Cr 267.716	101.775	ppb	0.3858	0.4	6148.52
Cu 324.754	106.992	ppb	0.4752	0.4	7069.87
Fe 271.441	56661.9	ppb	230.977	0.4	98088.5
K 766.491	6965.89	ppb	23.2449	0.3	301234
Mg 279.078	18334.8	ppb	50.0053	0.3	47128.4
Mn 257.610	9885.37	ppb	40.6617	0.4	2527506
Mo 202.032	103.152	ppb	0.6108	0.6	840.405
Na 330.237	15726.1	ppb	154.279	1.0	666.574
Ni 231.604	100.435	ppb	0.7542	0.8	353.977
Pb 220.353	48.8973	ppb	2.1481	4.4	112.200
Sb 206.834	48.2381	ppb	1.5881	3.3	81.7591
Se 196.026	97.1057	ppb	2.6830	2.8	57.3545
Sn 189.925	210.139	ppb	1.9308	0.9	189.614
Sr 216.596	252.185	ppb	0.7450	0.3	3969.79
Ti 334.941	97.8026	ppb	0.3875	0.4	28068.4
Tl 190.794	48.3887	ppb	0.1226	0.3	43.9370
V 292.401	102.155	ppb	0.3580	0.4	2904.74
Zn 206.200	109.229	ppb	1.9061	1.7	174.293

680-97117-d-2-h (Samp)

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Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0620	-0.0110u	0.1032
Al 308.215	132.626	131.817	132.574
As 188.980	108.674	107.270	105.127
B 249.678	1191.54	1210.51	1217.51
Ba 389.178	0.4643	-0.2925u	0.1482
Be 313.042	-0.0013u	0.0056	-0.0019u
Ca 370.602	7451	7476	7488
Cd 226.502	0.2807	0.3006	0.3937
Co 228.615	3.9344	3.5851	2.9715
Cr 267.716	1.6674	1.6694	1.7090
Cu 324.754	63.7099	64.4976	64.4147
Fe 271.441	3.6515	5.9583	2.4926
K 766.491	142051x	143118x	143468x
Mg 279.078	2183.73	2203.22	2209.85
Mn 257.610	77.0020	77.4548	77.7461
Mo 202.032	12.7471	12.9538	12.7341
Na 330.237	90226.7x	90416.7x	90544.4x
Ni 231.604	8.0236	7.8482	7.4300
Pb 220.353	0.1927	0.5883	1.7926
Sb 206.834	0.4054	-0.8127u	-3.0524u
Se 196.026	2.5994	6.9366	4.8964
Sn 189.925	-0.2141u	0.9265	0.0441
Sr 216.596	7.3816	7.1202	7.4663
Ti 334.941	0.0699	0.1193	0.0687

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Label	Replicates Concentration		
Tl 190.794	-1.7627u	-1.6555u	1.9878
V 292.401	38.5566	37.8125	38.8004
Zn 206.200	61.3119	62.5148	62.1261

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0514b	ppb	0.0578	112.5	-6.5292
Al 308.215	132.339b	ppb	0.4527	0.3	1186.30
As 188.980	107.024b	ppb	1.7865	1.7	76.1064
B 249.678	1206.52b	ppb	13.4356	1.1	16818.2
Ba 389.178	0.1067b	ppb	0.3801	356.3	-19.3932
Be 313.042	0.0008b	ppb	0.0042	522.6	-237.427
Ca 370.602	7472b	ppb	19.05	0.3	23242
Cd 226.502	0.3250b	ppb	0.0603	18.6	28.2438
Co 228.615	3.4970b	ppb	0.4875	13.9	42.7420
Cr 267.716	1.6819b	ppb	0.0234	1.4	112.406
Cu 324.754	64.2074b	ppb	0.4328	0.7	4286.93
Fe 271.441	4.0341b	ppb	1.7642	43.7	20.3847
K 766.491	142879xb	ppb	738.253	0.5	6173803
Mg 279.078	2198.94b	ppb	13.5786	0.6	5695.05
Mn 257.610	77.4010b	ppb	0.3749	0.5	19866.6
Mo 202.032	12.8117b	ppb	0.1233	1.0	112.664
Na 330.237	90395.9xb	ppb	159.828	0.2	3773.86
Ni 231.604	7.7673b	ppb	0.3050	3.9	23.8787
Pb 220.353	0.8578b	ppb	0.8333	97.1	15.4380
Sb 206.834	-1.1532b	ppb	1.7538	152.1	5.5188
Se 196.026	4.8108b	ppb	2.1699	45.1	9.7130
Sn 189.925	0.2522b	ppb	0.5981	237.2	-12.6827
Sr 216.596	7.3227b	ppb	0.1804	2.5	122.586
Ti 334.941	0.0859b	ppb	0.0289	33.6	-42.9366
Tl 190.794	-0.4768b	ppb	2.1351	447.8	-8.0095
V 292.401	38.3898b	ppb	0.5146	1.3	1082.38
Zn 206.200	61.9843b	ppb	0.6139	1.0	102.738

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Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0466	0.0155	-0.2589u
Al 308.215	-4.2316u	-4.1495u	-5.5507u
As 188.980	-1.4723u	0.7575	-1.0699u
B 249.678	8.5931	6.9125	6.3631
Ba 389.178	-0.1658u	-0.3835u	0.0341
Be 313.042	-0.0128u	-0.0107u	-0.0156u
Ca 370.602	1.801	2.078	1.819
Cd 226.502	0.1817	0.1031	0.0550
Co 228.615	0.3684	0.4068	0.1600
Cr 267.716	-0.0480u	-0.0509u	0.0552
Cu 324.754	-0.3272u	-0.4070u	-0.7218u
Fe 271.441	2.2490	-0.5398u	7.5602
K 766.491	6.4874	5.1390	4.8935
Mg 279.078	3.2404	0.7225	1.6368
Mn 257.610	-0.0318u	-0.0577u	-0.0459u
Mo 202.032	0.0142	0.3005	0.1212
Na 330.237	127.280	119.370	187.676

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Label	Replicates Concentration		
Ni 231.604	-0.2457u	-0.0060u	0.8211
Pb 220.353	-0.5991u	1.5891	2.7347
Sb 206.834	0.9501	1.3709	-0.1021u
Se 196.026	1.4164	-2.5997u	0.6552
Sn 189.925	2.8822	1.7679	1.9740
Sr 216.596	-0.0718u	0.3311	-0.4362u
Ti 334.941	0.1052	0.0609	0.0688
Tl 190.794	-3.2125u	1.1546	0.1030
V 292.401	0.0798	0.0121	-0.2900u
Zn 206.200	-0.3191u	-0.3152u	-0.2503u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0656	ppb	0.1681	256.2	-16.4891
Al 308.215	-4.6439	ppb	0.7864	16.9	236.637
As 188.980	-0.5949	ppb	1.1884	199.8	-5.6874
B 249.678	7.2895	ppb	1.1618	15.9	167.515
Ba 389.178	-0.1717	ppb	0.2089	121.6	-32.7512
Be 313.042	-0.0130	ppb	0.0024	18.7	-266.087
Ca 370.602	1.899	ppb	0.1548	8.2	16.24
Cd 226.502	0.1133	ppb	0.0640	56.5	18.0142
Co 228.615	0.3117	ppb	0.1328	42.6	0.5255
Cr 267.716	-0.0146	ppb	0.0604	414.5	9.5242
Cu 324.754	-0.4853	ppb	0.2086	43.0	115.509
Fe 271.441	3.0898	ppb	4.1149	133.2	17.9725
K 766.491	5.5067	ppb	0.8582	15.6	487.449
Mg 279.078	1.8666	ppb	1.2746	68.3	28.0514
Mn 257.610	-0.0451	ppb	0.0130	28.8	49.0126
Mo 202.032	0.1453	ppb	0.1447	99.6	10.2456
Na 330.237	144.775	ppb	37.3626	25.8	35.5017
Ni 231.604	0.1898	ppb	0.5597	294.9	-2.9906
Pb 220.353	1.2416	ppb	1.6939	136.4	16.1614
Sb 206.834	0.7396	ppb	0.7587	102.6	8.6333
Se 196.026	-0.1760	ppb	2.1332	1211.8	7.2966
Sn 189.925	2.2080	ppb	0.5929	26.9	-10.8340
Sr 216.596	-0.0590	ppb	0.3838	651.1	8.9997
Ti 334.941	0.0783	ppb	0.0237	30.2	-48.7747
Tl 190.794	-0.6516	ppb	2.2793	349.8	-8.2158
V 292.401	-0.0660	ppb	0.1969	298.2	-11.3920
Zn 206.200	-0.2949	ppb	0.0387	13.1	6.5174

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Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.3908	49.3002	49.0926
Al 308.215	4734.35	4719.70	4721.71
As 188.980	105.305	101.224	104.247
B 249.678	195.364	196.905	197.172
Ba 389.178	102.229	101.046	101.955
Be 313.042	50.4475	50.4875	50.3753
Ca 370.602	4900	4904	4880
Cd 226.502	50.0211	49.9142	49.8447
Co 228.615	49.9582	50.1113	50.6028
Cr 267.716	102.737	102.789	102.513

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Label	Replicates Concentration		
Cu 324.754	101.260	100.464	100.845
Fe 271.441	5077.65	5062.54	5061.72
K 766.491	4763.07	4771.94	4768.27
Mg 279.078	5031.75	5014.90	5021.02
Mn 257.610	512.700	511.883	510.340
Mo 202.032	104.581	104.223	104.510
Na 330.237	5575.61	5126.72	5301.99
Ni 231.604	98.8496	97.9985	98.0586
Pb 220.353	49.6490	49.5301	50.3454
Sb 206.834	46.0684	44.7172	46.0835
Se 196.026	101.389	99.7859	99.2716
Sn 189.925	206.100	208.187	209.432
Sr 216.596	101.232	100.000	101.490
Ti 334.941	98.9957	99.0920	98.9873
Tl 190.794	37.4462	39.6260	36.3746
V 292.401	102.446	103.092	102.473
Zn 206.200	97.8090	97.2329	98.2219

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.2612	ppb	0.1529	0.3	4083.64
Al 308.215	4725.25	ppb	7.9404	0.2	33160.0
As 188.980	103.592	ppb	2.1181	2.0	73.4635
B 249.678	196.480	ppb	0.9764	0.5	2784.46
Ba 389.178	101.743	ppb	0.6195	0.6	2564.07
Be 313.042	50.4368	ppb	0.0569	0.1	103195
Ca 370.602	4894	ppb	12.70	0.3	14880
Cd 226.502	49.9267	ppb	0.0889	0.2	2577.96
Co 228.615	50.2241	ppb	0.3368	0.7	666.237
Cr 267.716	102.680	ppb	0.1466	0.1	6135.65
Cu 324.754	100.857	ppb	0.3981	0.4	6654.51
Fe 271.441	5067.30	ppb	8.9686	0.2	8789.60
K 766.491	4767.76	ppb	4.4564	0.1	206256
Mg 279.078	5022.56	ppb	8.5296	0.2	12969.8
Mn 257.610	511.641	ppb	1.1987	0.2	130917
Mo 202.032	104.438	ppb	0.1896	0.2	853.707
Na 330.237	5334.77	ppb	226.230	4.2	247.690
Ni 231.604	98.3022	ppb	0.4750	0.5	345.027
Pb 220.353	49.8415	ppb	0.4404	0.9	107.516
Sb 206.834	45.6230	ppb	0.7845	1.7	76.0326
Se 196.026	100.149	ppb	1.1041	1.1	55.7274
Sn 189.925	207.906	ppb	1.6835	0.8	187.445
Sr 216.596	100.907	ppb	0.7963	0.8	1558.05
Ti 334.941	99.0250	ppb	0.0581	0.1	28353.4
Tl 190.794	37.8156	ppb	1.6568	4.4	41.5679
V 292.401	102.670	ppb	0.3656	0.4	2898.69
Zn 206.200	97.7546	ppb	0.4967	0.5	157.750

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Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0299u	0.1305	0.1253
Al 308.215	253.820	251.545	252.653
As 188.980	0.3638	3.9299	3.9641

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	24.2784	23.1726	24.2431
Ba 389.178	27.5609	27.7949	27.8169
Be 313.042	0.1076	0.1074	0.1072
Ca 370.602	8349	8312	8341
Cd 226.502	-0.0158	0.0834	0.0470
Co 228.615	-0.0358u	0.4627	0.4449
Cr 267.716	1.1759	1.0999	1.1316
Cu 324.754	2.1825	1.8335	2.2212
Fe 271.441	387.826	390.356	381.236
K 766.491	52.1200	51.9053	52.7195
Mg 279.078	3564.81	3555.66	3545.61
Mn 257.610	30.6559	30.5386	30.5603
Mo 202.032	0.1915	-0.1799u	-0.1007u
Na 330.237	10795.9	10592.4	10774.4
Ni 231.604	1.5986	1.9551	0.9070
Pb 220.353	-0.3779u	0.0967	1.9936
Sb 206.834	0.4033	-2.3396u	-2.2877u
Se 196.026	-3.9413u	-0.4785u	-5.7907u
Sn 189.925	4.4943	3.9544	-0.7752u
Sr 216.596	32.8025	33.0340	32.8234
Ti 334.941	5.3024	5.2842	5.3759
Tl 190.794	-3.9526u	-2.1643u	0.8471
V 292.401	4.0197	3.8911	3.9106
Zn 206.200	4.6374	4.5104	4.2563

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0753	ppb	0.0912	121.1	-6.5417
Al 308.215	252.673	ppb	1.1374	0.5	2027.60
As 188.980	2.7526	ppb	2.0688	75.2	-3.1445
B 249.678	23.8980	ppb	0.6285	2.6	397.369
Ba 389.178	27.7242	ppb	0.1419	0.5	682.298
Be 313.042	0.1074	ppb	0.0002	0.2	-15.3278
Ca 370.602	8334	ppb	19.35	0.2	25892
Cd 226.502	0.0382	ppb	0.0502	131.4	15.8991
Co 228.615	0.2906	ppb	0.2828	97.3	0.4138
Cr 267.716	1.1358	ppb	0.0382	3.4	78.5721
Cu 324.754	2.0791	ppb	0.2135	10.3	280.952
Fe 271.441	386.473	ppb	4.7084	1.2	681.549
K 766.491	52.2483	ppb	0.4220	0.8	2507.07
Mg 279.078	3555.36	ppb	9.6074	0.3	9195.63
Mn 257.610	30.5849	ppb	0.0624	0.2	7912.06
Mo 202.032	-0.0297	ppb	0.1956	658.9	8.7998
Na 330.237	10720.9	ppb	111.830	1.0	473.505
Ni 231.604	1.4869	ppb	0.5329	35.8	1.6213
Pb 220.353	0.5708	ppb	1.2549	219.8	14.9329
Sb 206.834	-1.4080	ppb	1.5689	111.4	5.4552
Se 196.026	-3.4035	ppb	2.6966	79.2	5.7585
Sn 189.925	2.5578	ppb	2.8991	113.3	-10.4887
Sr 216.596	32.8866	ppb	0.1280	0.4	514.743
Ti 334.941	5.3208	ppb	0.0486	0.9	1470.30
Tl 190.794	-1.7566	ppb	2.4257	138.1	-9.7264
V 292.401	3.9405	ppb	0.0693	1.8	103.053
Zn 206.200	4.4680	ppb	0.1941	4.3	13.8659

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680-97139-c-2-a (Samp) 12/19/2013, 12:04:06 AM Rack 2, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2073u	0.0241	-0.0256u
Al 308.215	9.0698	7.8694	7.6759
As 188.980	-2.8748u	-1.6451u	1.3044
B 249.678	7.4714	7.4122	7.7833
Ba 389.178	0.6300	0.6481	0.6401
Be 313.042	-0.0160u	-0.0090u	-0.0102u
Ca 370.602	17794	17744	17734
Cd 226.502	0.1060	-0.0394u	-0.0104u
Co 228.615	0.0239	-0.1530u	0.8872
Cr 267.716	0.6598	0.6087	0.5485
Cu 324.754	-0.4052u	0.0917	-0.4534u
Fe 271.441	79.0911	73.3355	66.3814
K 766.491	1034.22	1033.82	1030.76
Mg 279.078	5972.11	5967.62	5974.46
Mn 257.610	1.1203	1.0881	1.1102
Mo 202.032	1.9611	1.4350	1.7593
Na 330.237	6301.53	6342.98	6282.81
Ni 231.604	0.4488	0.6195	2.0070
Pb 220.353	1.5161	-0.7539u	0.6018
Sb 206.834	-1.9780u	-0.6618u	-2.1772u
Se 196.026	-1.2837u	-1.6374u	-6.2679u
Sn 189.925	1.2850	1.2839	1.5465
Sr 216.596	33.0026	33.7763	33.3643
Ti 334.941	0.6916	0.6249	0.6931
Tl 190.794	0.9542	0.3743	-1.2345u
V 292.401	1.7667	1.7853	1.4257
Zn 206.200	2.7254	0.3899	1.6571

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0696	ppb	0.1218	174.9	-18.7140
Al 308.215	8.2050	ppb	0.7551	9.2	325.973
As 188.980	-1.0718	ppb	2.1477	200.4	-6.0511
B 249.678	7.5556	ppb	0.1994	2.6	171.074
Ba 389.178	0.6394	ppb	0.0091	1.4	4.6102
Be 313.042	-0.0117	ppb	0.0037	31.7	-256.845
Ca 370.602	17757	ppb	32.13	0.2	55211
Cd 226.502	0.0187	ppb	0.0770	410.6	13.5784
Co 228.615	0.2527	ppb	0.5566	220.2	-0.2863
Cr 267.716	0.6057	ppb	0.0557	9.2	46.6391
Cu 324.754	-0.2557	ppb	0.3018	118.0	130.378
Fe 271.441	72.9360	ppb	6.3642	8.7	138.872
K 766.491	1032.93	ppb	1.8923	0.2	44880.9
Mg 279.078	5971.39	ppb	3.4779	0.1	15429.9
Mn 257.610	1.1062	ppb	0.0164	1.5	396.782
Mo 202.032	1.7185	ppb	0.2654	15.4	22.9686
Na 330.237	6309.11	ppb	30.7933	0.5	290.855
Ni 231.604	1.0251	ppb	0.8546	83.4	-0.0255
Pb 220.353	0.4547	ppb	1.1421	251.2	14.6884
Sb 206.834	-1.6057	ppb	0.8234	51.3	5.0933
Se 196.026	-3.0630	ppb	2.7811	90.8	5.9103
Sn 189.925	1.3718	ppb	0.1513	11.0	-11.6288
Sr 216.596	33.3810	ppb	0.3871	1.2	523.130

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.6699	ppb	0.0390	5.8	147.643
Tl 190.794	0.0313	ppb	1.1340	3618.6	-7.3272
V 292.401	1.6592	ppb	0.2025	12.2	37.5782
Zn 206.200	1.5908	ppb	1.1692	73.5	9.4283

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4385u	-0.0945u	-0.2132u
Al 308.215	45.6222	47.1113	45.8932
As 188.980	-3.2667u	1.2583	0.1915
B 249.678	2.4498	2.6163	2.8729
Ba 389.178	8.0445	7.3486	7.7101
Be 313.042	-0.0040u	0.0042	0.0035
Ca 370.602	2397	2398	2389
Cd 226.502	-0.0111u	-0.0608u	0.1631
Co 228.615	0.1858	-0.3736u	-0.0921u
Cr 267.716	0.5198	0.3530	0.4152
Cu 324.754	0.0071	0.1365	-0.2375u
Fe 271.441	53.2295	58.4361	55.5414
K 766.491	696.832	700.792	696.363
Mg 279.078	1069.87	1071.15	1068.02
Mn 257.610	0.8236	0.8429	0.8149
Mo 202.032	0.0594	-0.6571u	0.0015
Na 330.237	2901.63	3113.27	2879.61
Ni 231.604	0.6680	1.3590	0.7738
Pb 220.353	1.4098	0.9985	1.6433
Sb 206.834	-0.1430u	-1.4276u	-1.2175u
Se 196.026	1.2272	-1.6785u	-0.4034u
Sn 189.925	0.0185	0.8170	2.0097
Sr 216.596	12.3801	12.9930	12.5993
Ti 334.941	1.5735	1.6177	1.4444
Tl 190.794	0.3751	-3.4662u	-3.1327u
V 292.401	-0.0783u	0.4139	0.1228
Zn 206.200	0.6343	1.0086	1.2275

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2487	ppb	0.1747	70.2	-32.4376
Al 308.215	46.2089	ppb	0.7932	1.7	590.638
As 188.980	-0.6056	ppb	2.3655	390.6	-5.6955
B 249.678	2.6463	ppb	0.2132	8.1	102.941
Ba 389.178	7.7011	ppb	0.3481	4.5	169.144
Be 313.042	0.0012	ppb	0.0045	367.3	-236.126
Ca 370.602	2395	ppb	4.854	0.2	7453
Cd 226.502	0.0304	ppb	0.1176	387.1	14.0423
Co 228.615	-0.0933	ppb	0.2797	299.9	-4.8215
Cr 267.716	0.4293	ppb	0.0843	19.6	36.0726
Cu 324.754	-0.0313	ppb	0.1900	606.7	144.792
Fe 271.441	55.7357	ppb	2.6088	4.7	109.048
K 766.491	697.996	ppb	2.4328	0.3	30408.7
Mg 279.078	1069.68	ppb	1.5738	0.1	2783.05
Mn 257.610	0.8272	ppb	0.0143	1.7	281.667
Mo 202.032	-0.1987	ppb	0.3980	200.3	7.4582

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	2964.84	ppb	129.018	4.4	152.301
Ni 231.604	0.9336	ppb	0.3722	39.9	-0.3495
Pb 220.353	1.3505	ppb	0.3265	24.2	16.3690
Sb 206.834	-0.9294	ppb	0.6891	74.1	6.1497
Se 196.026	-0.2849	ppb	1.4565	511.2	7.2454
Sn 189.925	0.9484	ppb	1.0021	105.7	-12.0459
Sr 216.596	12.6574	ppb	0.3106	2.5	203.910
Ti 334.941	1.5452	ppb	0.0901	5.8	376.615
Tl 190.794	-2.0746	ppb	2.1281	102.6	-10.0928
V 292.401	0.1528	ppb	0.2475	162.0	-5.0822
Zn 206.200	0.9568	ppb	0.3000	31.3	8.4494

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5354u	0.1153u	0.3235u
Al 308.215	7.1301	9.3864	8.6268
As 188.980	1.8555	7.0861	2.4069
B 249.678	792.643	793.752	791.224
Ba 389.178	38.3943	38.4597	37.7707
Be 313.042	0.1157u	0.1202u	0.1230u
Ca 370.602	89960	90052	89964
Cd 226.502	0.3437	0.3851	0.2868
Co 228.615	0.1601	0.2818	-0.3447u
Cr 267.716	-0.7592	-0.8869	-1.1274u
Cu 324.754	0.8412	0.8445	0.9541
Fe 271.441	254.460	253.188	252.942
K 766.491	121371x	121254x	121168x
Mg 279.078	243053	242264	241747
Mn 257.610	355.430	356.389	355.184
Mo 202.032	0.7475	0.5745	0.8533
Na 330.237	2837283x	2817489x	2817617x
Ni 231.604	4.1119	5.2819	5.3168
Pb 220.353	1.4262	-0.9691u	2.4854
Sb 206.834	2.7793	1.6328	-3.5445u
Se 196.026	-0.4085u	17.6357	16.1921
Sn 189.925	-0.7228	-0.1817	-0.6150
Sr 216.596	1418.40	1414.89	1410.66
Ti 334.941	-3.4613u	-3.3896u	-3.3835u
Tl 190.794	-6.6811u	-2.3813u	-7.7278u
V 292.401	1.4169	1.4343	1.4259
Zn 206.200	7.3217	5.7878	3.8688

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3248b	ppb	0.2101	64.7	-60.0581
Al 308.215	8.3811b	ppb	1.1480	13.7	327.249
As 188.980	3.7828b	ppb	2.8739	76.0	-2.3632
B 249.678	792.540b	ppb	1.2668	0.2	11069.9
Ba 389.178	38.2082b	ppb	0.3803	1.0	1615.81
Be 313.042	0.1197b	ppb	0.0037	3.1	-287.748
Ca 370.602	89992b	ppb	52.17	0.1	279777
Cd 226.502	0.3385b	ppb	0.0493	14.6	15.7888
Co 228.615	0.0324b	ppb	0.3322	1025.8	-3.1187

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.9245b	ppb	0.1870	20.2	12.3218
Cu 324.754	0.8799b	ppb	0.0643	7.3	203.653
Fe 271.441	253.530b	ppb	0.8146	0.3	451.399
K 766.491	121264xb	ppb	102.269	0.1	5239884
Mg 279.078	242355b	ppb	657.253	0.3	625310
Mn 257.610	355.668b	ppb	0.6364	0.2	93118.9
Mo 202.032	0.7251b	ppb	0.1407	19.4	14.9210
Na 330.237	2824130xb	ppb	11391.3	0.4	117038
Ni 231.604	4.9035b	ppb	0.6858	14.0	13.7377
Pb 220.353	0.9808b	ppb	1.7698	180.4	15.7830
Sb 206.834	0.2892b	ppb	3.3692	1165.1	7.9477
Se 196.026	11.1398b	ppb	10.0271	90.0	12.8296
Sn 189.925	-0.5065b	ppb	0.2864	56.5	-12.3805
Sr 216.596	1414.65b	ppb	3.8757	0.3	21656.3
Ti 334.941	-3.4115b	ppb	0.0433	1.3	-146.561
Tl 190.794	-5.5968b	ppb	2.8334	50.6	-14.9698
V 292.401	1.4257b	ppb	0.0087	0.6	13.6692
Zn 206.200	5.6594b	ppb	1.7300	30.6	15.7110

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Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5120u	-0.4562u	-0.4982u
Al 308.215	38527.6	38702.4	38431.3
As 188.980	106.796	114.726	110.176
B 249.678	1206.02	1217.62	1207.23
Ba 389.178	15.7339	17.5256	16.8665
Be 313.042	3.0185	3.0399	3.0163
Ca 370.602	14067	14199	14097
Cd 226.502	1.9385	1.8441	1.9409
Co 228.615	3.4866	3.9072	3.7497
Cr 267.716	2.9103	2.9539	3.0328
Cu 324.754	321.998	322.393	316.706
Fe 271.441	207.870	201.609	206.027
K 766.491	147350x	148193x	145991x
Mg 279.078	2282.80	2296.00	2278.99
Mn 257.610	105.665	106.393	105.576
Mo 202.032	12.9920	13.0387	13.6099
Na 330.237	91114.5x	91196.5x	90293.1
Ni 231.604	8.5886	7.2873	8.6704
Pb 220.353	0.4024u	1.4653	3.0730
Sb 206.834	-2.3650u	-1.9651u	-2.4684u
Se 196.026	4.7885	6.0301	5.5172
Sn 189.925	0.1730	-1.1432u	2.1741
Sr 216.596	107.251	107.868	106.632
Ti 334.941	2.1325	2.1688	2.1182
Tl 190.794	0.5855	-1.4737u	-4.5171u
V 292.401	41.4212	42.1397	41.1543
Zn 206.200	989.874	1001.20	998.338

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4888b	ppb	0.0291	5.9	-56.3673
Al 308.215	38553.8b	ppb	137.434	0.4	268681

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	110.566b	ppb	3.9795	3.6	79.2704
B 249.678	1210.29b	ppb	6.3751	0.5	16870.2
Ba 389.178	16.7087b	ppb	0.9062	5.4	400.415
Be 313.042	3.0249b	ppb	0.0130	0.4	5970.48
Ca 370.602	14121b	ppb	68.96	0.5	43900
Cd 226.502	1.9078b	ppb	0.0552	2.9	109.748
Co 228.615	3.7145b	ppb	0.2125	5.7	45.7025
Cr 267.716	2.9657b	ppb	0.0621	2.1	189.580
Cu 324.754	320.366b	ppb	3.1755	1.0	20804.4
Fe 271.441	205.168b	ppb	3.2176	1.6	368.556
K 766.491	147178xb	ppb	1111.41	0.8	6359556
Mg 279.078	2285.93b	ppb	8.9271	0.4	5904.65
Mn 257.610	105.878b	ppb	0.4481	0.4	27147.9
Mo 202.032	13.2136b	ppb	0.3441	2.6	115.898
Na 330.237	90868.0xb	ppb	499.591	0.5	3779.83
Ni 231.604	8.1821b	ppb	0.7760	9.5	25.3760
Pb 220.353	1.6469b	ppb	1.3445	81.6	16.1343
Sb 206.834	-2.2662b	ppb	0.2658	11.7	3.9118
Se 196.026	5.4452b	ppb	0.6239	11.5	10.0279
Sn 189.925	0.4013b	ppb	1.6704	416.2	-12.5353
Sr 216.596	107.250b	ppb	0.6180	0.6	1651.99
Ti 334.941	2.1399b	ppb	0.0261	1.2	548.495
Tl 190.794	-1.8018b	ppb	2.5671	142.5	-9.7874
V 292.401	41.5717b	ppb	0.5096	1.2	1172.79
Zn 206.200	996.471b	ppb	5.8889	0.6	1546.55

Cont Calib Verif (CCV) 12/19/2013, 12:23:11 AM Rack 3, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	478.935	481.245	485.077
Al 308.215	4616.38	4641.99	4634.96
As 188.980	495.624	485.963	487.036
B 249.678	476.992	483.469	480.699
Ba 389.178	4869.59	4901.95	4880.07
Be 313.042	478.614	481.110	479.583
Ca 370.602	4569	4603	4600
Cd 226.502	481.830	487.063	484.920
Co 228.615	484.541	487.231	487.756
Cr 267.716	4847.92	4882.27	4865.49
Cu 324.754	4699.38	4870.97	4865.72
Fe 271.441	4837.03	4880.73	4857.01
K 766.491	9429.17	9500.60	9471.03
Mg 279.078	4914.36	4951.55	4926.86
Mn 257.610	4759.46	4791.99	4788.33
Mo 202.032	496.679	503.028	500.864
Na 330.237	7240.07	7376.38	7044.84
Ni 231.604	2331.95	2346.41	2356.64
Pb 220.353	465.368	471.046	470.084
Sb 206.834	926.849	930.720	924.658
Se 196.026	4791.35	4832.43	4778.80
Sn 189.925	4883.05	4960.24	4999.65
Sr 216.596	2434.31	2457.78	2449.59
Ti 334.941	462.467	464.960	464.039

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Label	Replicates Concentration		
Tl 190.794	4810.24	4865.43	4848.29
V 292.401	4844.98	4881.26	4863.99
Zn 206.200	2389.00	2426.01	2401.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	481.752	ppb	3.1026	0.6	40001.4	96.35049
Al 308.215	4631.11	ppb	13.2325	0.3	31934.8	92.62214
As 188.980	489.541	ppb	5.2954	1.1	366.678	97.90823
B 249.678	480.387	ppb	3.2501	0.7	6726.56	96.07732
Ba 389.178	4883.87	ppb	16.5136	0.3	123341	97.67741
Be 313.042	479.769	ppb	1.2584	0.3	985485	95.95384
Ca 370.602	4591	ppb	18.63	0.4	14329	91.81049
Cd 226.502	484.604	ppb	2.6309	0.5	24716.4	96.92083
Co 228.615	486.509	ppb	1.7247	0.4	6498.98	97.30183
Cr 267.716	4865.22	ppb	17.1771	0.4	290068	97.30448
Cu 324.754	4812.02	ppb	97.5878	2.0	310389	96.24042
Fe 271.441	4858.26	ppb	21.8761	0.5	8536.82	97.16511
K 766.491	9466.93	ppb	35.8884	0.4	409300	94.66933
Mg 279.078	4930.93	ppb	18.9259	0.4	12647.8	98.61852
Mn 257.610	4779.92	ppb	17.8181	0.4	1222066	95.59846
Mo 202.032	500.191	ppb	3.2277	0.6	4046.21	100.03812
Na 330.237	7220.43	ppb	166.642	2.3	291.497	96.27239
Ni 231.604	2345.00	ppb	12.4038	0.5	8313.04	93.79998
Pb 220.353	468.833	ppb	3.0387	0.6	893.489	93.76653
Sb 206.834	927.409	ppb	3.0696	0.3	1482.61	92.74090
Se 196.026	4800.86	ppb	28.0493	0.6	2316.48	96.01718
Sn 189.925	4947.65	ppb	59.3122	1.2	4756.15	98.95299
Sr 216.596	2447.23	ppb	11.9107	0.5	37361.4	97.88903
Ti 334.941	463.822	ppb	1.2603	0.3	132980	92.76437
Tl 190.794	4841.32	ppb	28.2450	0.6	6353.74	96.82641
V 292.401	4863.41	ppb	18.1496	0.4	138364	97.26820
Zn 206.200	2405.61	ppb	18.7899	0.8	3716.90	96.22443

Cont Calib Blank (CCB) 12/19/2013, 12:27:58 AM Rack 3, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0375	-0.1581u	0.0971
Al 308.215	-4.6954u	-5.9555u	-5.9387u
As 188.980	-2.2773u	-1.9528u	1.0569
B 249.678	4.2930	3.6876	3.3699
Ba 389.178	0.0192	0.8795	0.1954
Be 313.042	0.0282	0.0185	0.0091
Ca 370.602	4.019	1.131	0.0204
Cd 226.502	0.0905	0.2447	0.0153
Co 228.615	0.4697	0.6329	0.4466
Cr 267.716	0.5457	0.4898	0.2836
Cu 324.754	0.3130	-0.1646u	-0.3148u
Fe 271.441	-0.7357u	2.2842	1.9587
K 766.491	5.1765	4.6495	4.1776
Mg 279.078	4.0159	0.1165	1.4058
Mn 257.610	0.3774	0.1864	0.1322
Mo 202.032	0.6388	0.6926	0.0836
Na 330.237	-41.3818u	85.3484	73.0810

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Ni 231.604	0.0913	-0.4070u	0.8989
Pb 220.353	0.7990	0.3419	-0.0534u
Sb 206.834	2.8726	0.2702	-0.9927u
Se 196.026	1.5913	3.3767	4.5547
Sn 189.925	0.1311	0.9937	2.5691
Sr 216.596	0.2916	0.4038	0.0896
Ti 334.941	0.2359	0.1752	0.1784
Tl 190.794	3.6274	3.1901	3.0913
V 292.401	0.3499	0.1760	0.2216
Zn 206.200	-0.9795u	-0.9374u	-1.5401u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0078	ppb	0.1335	1705.3	-11.6969	-0.00783
Al 308.215	-5.5299	ppb	0.7227	13.1	230.447	-5.52986
As 188.980	-1.0577	ppb	1.8385	173.8	-6.0393	-1.05774
B 249.678	3.7835	ppb	0.4690	12.4	118.843	3.78351
Ba 389.178	0.3647	ppb	0.4544	124.6	-19.2068	0.36471
Be 313.042	0.0186	ppb	0.0096	51.5	-201.125	0.01860
Ca 370.602	1.724	ppb	2.064	119.8	16.07	1.72356
Cd 226.502	0.1168	ppb	0.1169	100.1	18.1814	0.11683
Co 228.615	0.5164	ppb	0.1015	19.7	3.2526	0.51638
Cr 267.716	0.4397	ppb	0.1380	31.4	36.6057	0.43969
Cu 324.754	-0.0555	ppb	0.3278	591.0	143.231	-0.05547
Fe 271.441	1.1691	ppb	1.6576	141.8	14.6740	1.16909
K 766.491	4.6679	ppb	0.4997	10.7	451.205	4.66785
Mg 279.078	1.8460	ppb	1.9866	107.6	27.9935	1.84605
Mn 257.610	0.2320	ppb	0.1288	55.5	119.861	0.23202
Mo 202.032	0.4717	ppb	0.3372	71.5	12.8863	0.47166
Na 330.237	39.0159	ppb	69.8961	179.1	31.1298	39.01588
Ni 231.604	0.1944	ppb	0.6591	339.0	-2.9749	0.19439
Pb 220.353	0.3625	ppb	0.4266	117.7	14.5117	0.36248
Sb 206.834	0.7167	ppb	1.9709	275.0	8.6000	0.71668
Se 196.026	3.1742	ppb	1.4920	47.0	8.9072	3.17423
Sn 189.925	1.2313	ppb	1.2362	100.4	-11.7755	1.23128
Sr 216.596	0.2617	ppb	0.1592	60.8	13.8996	0.26168
Ti 334.941	0.1965	ppb	0.0342	17.4	-14.8600	0.19651
Tl 190.794	3.3029	ppb	0.2853	8.6	-3.0196	3.30291
V 292.401	0.2492	ppb	0.0901	36.2	-2.4743	0.24915
Zn 206.200	-1.1523	ppb	0.3365	29.2	5.1921	-1.15235

680-97117-d-3-b (Samp)

12/19/2013, 12:32:44 AM

Rack 3, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9989u	0.8553u	0.9734u
Al 308.215	13.6498	14.7814	13.7551
As 188.980	10.4392	13.5712	9.6881
B 249.678	323.586	324.294	324.868
Ba 389.178	44.8588	45.1579	45.6506
Be 313.042	-0.0914u	-0.0939u	-0.0905u
Ca 370.602	587439	580916	581836
Cd 226.502	1.0391	1.2210	1.0440
Co 228.615	2.1155	1.5730	1.7863
Cr 267.716	-0.1772	-0.0736	-0.1426

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Label	Replicates Concentration		
Cu 324.754	0.2540	0.1709	0.0134
Fe 271.441	12.6611	9.1709	13.8331
K 766.491	103039x	102813x	102204x
Mg 279.078	119647	119601	119484
Mn 257.610	1000.37	997.803	996.230
Mo 202.032	26.2242	26.1807	26.4951
Na 330.237	610082x	610112x	606877x
Ni 231.604	12.3351	10.2557	11.6958
Pb 220.353	0.7728	0.2707	0.2973
Sb 206.834	-1.2895u	1.3600	-4.9128u
Se 196.026	17.9415	4.5168	-6.0183u
Sn 189.925	4.2785	-1.8601u	-1.2154u
Sr 216.596	3108.97	3104.66	3100.92
Ti 334.941	-0.7570	-0.7956	-0.7048
Tl 190.794	-0.3327u	-0.1365u	-3.8388u
V 292.401	3.1319	2.8758	3.0920
Zn 206.200	68.2851	67.4022	65.8105

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9425b	ppb	0.0766	8.1	-91.9575
Al 308.215	14.0621b	ppb	0.6252	4.4	368.091
As 188.980	11.2329b	ppb	2.0596	18.3	3.2938
B 249.678	324.249b	ppb	0.6423	0.2	4568.49
Ba 389.178	45.2224b	ppb	0.3999	0.9	1449.29
Be 313.042	-0.0919b	ppb	0.0018	1.9	-277.834
Ca 370.602	583397b	ppb	3531	0.6	1813775
Cd 226.502	1.1014b	ppb	0.1036	9.4	66.3226
Co 228.615	1.8250b	ppb	0.2733	15.0	19.9760
Cr 267.716	-0.1311b	ppb	0.0527	40.2	19.9163
Cu 324.754	0.1461b	ppb	0.1222	83.7	157.126
Fe 271.441	11.8884b	ppb	2.4253	20.4	33.4236
K 766.491	102685xb	ppb	432.195	0.4	4437110
Mg 279.078	119577b	ppb	83.8811	0.1	308522
Mn 257.610	998.135b	ppb	2.0909	0.2	256292
Mo 202.032	26.3000b	ppb	0.1704	0.6	221.890
Na 330.237	609024xb	ppb	1859.24	0.3	25261.4
Ni 231.604	11.4289b	ppb	1.0651	9.3	36.8719
Pb 220.353	0.4469b	ppb	0.2825	63.2	14.8803
Sb 206.834	-1.6141b	ppb	3.1490	195.1	4.4506
Se 196.026	5.4800b	ppb	12.0089	219.1	10.2614
Sn 189.925	0.4010b	ppb	3.3734	841.2	-12.0556
Sr 216.596	3104.85b	ppb	4.0299	0.1	47576.4
Ti 334.941	-0.7525b	ppb	0.0456	6.1	214.389
Tl 190.794	-1.4360b	ppb	2.0832	145.1	-9.8833
V 292.401	3.0332b	ppb	0.1378	4.5	69.4569
Zn 206.200	67.1659b	ppb	1.2541	1.9	110.747

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1535u	-0.0751u	-0.2694u
Al 308.215	16.1612	14.0375	13.4435
As 188.980	2.4165	1.9232	3.0548

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Label	Replicates Concentration		
B 249.678	1302.02	1309.42	1319.11
Ba 389.178	43.2870	42.5846	42.6389
Be 313.042	-0.0042u	0.0027	-0.0084u
Ca 370.602	36912	36794	36809
Cd 226.502	0.2760	0.2436	0.3392
Co 228.615	0.4462	0.3244	0.0957
Cr 267.716	0.1888	0.0149	0.1368
Cu 324.754	-0.0116u	-0.0382u	-0.2432u
Fe 271.441	115.252	108.497	96.8807
K 766.491	13083.4	13043.3	13145.6
Mg 279.078	14363.0	14335.7	14398.6
Mn 257.610	266.119	265.005	265.542
Mo 202.032	-0.0090u	-0.4276u	0.0794
Na 330.237	90709.7x	90937.2x	90969.5x
Ni 231.604	2.7211	1.4042	1.7184
Pb 220.353	3.1319	1.5744	-0.1819u
Sb 206.834	-1.5021u	-0.5698u	-2.8101u
Se 196.026	0.2984	0.8091	-9.3203u
Sn 189.925	0.2334	1.3016	2.7781
Sr 216.596	288.522	288.756	289.430
Ti 334.941	-0.0239	0.0591	-0.0041
Tl 190.794	-1.3723u	-3.2517u	0.2554
V 292.401	0.3604	0.3824	0.4073
Zn 206.200	3.2016	3.8965	3.2887

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1660	ppb	0.0977	58.9	-38.8558
Al 308.215	14.5474	ppb	1.4288	9.8	370.177
As 188.980	2.4648	ppb	0.5674	23.0	-3.3627
B 249.678	1310.18	ppb	8.5696	0.7	18257.0
Ba 389.178	42.8368	ppb	0.3908	0.9	1093.83
Be 313.042	-0.0033	ppb	0.0056	171.5	-242.645
Ca 370.602	36838	ppb	64.64	0.2	114537
Cd 226.502	0.2863	ppb	0.0486	17.0	26.9139
Co 228.615	0.2888	ppb	0.1779	61.6	0.2487
Cr 267.716	0.1135	ppb	0.0892	78.6	20.4096
Cu 324.754	-0.0977	ppb	0.1267	129.8	140.527
Fe 271.441	106.876	ppb	9.2921	8.7	197.600
K 766.491	13090.7	ppb	51.5540	0.4	565879
Mg 279.078	14365.7	ppb	31.5383	0.2	37082.6
Mn 257.610	265.555	ppb	0.5573	0.2	68075.4
Mo 202.032	-0.1191	ppb	0.2709	227.5	8.0997
Na 330.237	90872.1x	ppb	141.566	0.2	3794.40
Ni 231.604	1.9479	ppb	0.6878	35.3	3.2486
Pb 220.353	1.5082	ppb	1.6579	109.9	16.7357
Sb 206.834	-1.6274	ppb	1.1254	69.2	5.0998
Se 196.026	-2.7376	ppb	5.7065	208.4	6.1320
Sn 189.925	1.4377	ppb	1.2778	88.9	-11.5247
Sr 216.596	288.903	ppb	0.4712	0.2	4433.48
Ti 334.941	0.0104	ppb	0.0433	417.4	-9.2111
Tl 190.794	-1.4562	ppb	1.7551	120.5	-9.4498
V 292.401	0.3834	ppb	0.0235	6.1	1.0320
Zn 206.200	3.4623	ppb	0.3785	10.9	12.3198

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680-97135-f-1-a (Samp) **12/19/2013, 12:42:17 AM** **Rack 3, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1694	0.2847	0.1949
Al 308.215	-2.7306u	-1.8667u	-2.0584u
As 188.980	0.8778	3.4571	3.8976
B 249.678	7.4992	6.2058	5.4187
Ba 389.178	-0.3286u	-0.1446u	0.2033
Be 313.042	-0.0041u	-0.0081u	-0.0039u
Ca 370.602	31.61	31.42	32.25
Cd 226.502	0.0173	0.1823	-0.0169u
Co 228.615	0.5288	0.1670	0.4149
Cr 267.716	0.1213	-0.2206u	-0.0349u
Cu 324.754	0.0029	0.3813	-0.7258u
Fe 271.441	7.1903	9.2632	7.4454
K 766.491	3.4299	3.0239	2.6772
Mg 279.078	4.6913	3.0723	2.6688
Mn 257.610	0.0307	-0.0154u	-0.0062u
Mo 202.032	-0.4296u	-0.0431u	-0.1015u
Na 330.237	304.097	-61.0540u	187.261
Ni 231.604	-0.2217u	0.5311	0.5177
Pb 220.353	-0.9148u	1.1529	0.0451
Sb 206.834	2.0368	-0.5872u	-2.0049u
Se 196.026	5.4933	-1.4460u	2.9631
Sn 189.925	3.0490	-0.0635u	2.0112
Sr 216.596	0.2024	0.7245	0.3071
Ti 334.941	0.1092	0.1171	0.1143
Tl 190.794	-1.2478u	-4.8198u	-2.9872u
V 292.401	-0.1942u	-0.0302u	0.0201
Zn 206.200	0.2140	1.8618	1.0656

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2163	ppb	0.0605	28.0	6.9393
Al 308.215	-2.2185	ppb	0.4537	20.5	253.498
As 188.980	2.7442	ppb	1.6313	59.4	-3.1494
B 249.678	6.3746	ppb	1.0505	16.5	154.808
Ba 389.178	-0.0900	ppb	0.2701	300.3	-30.6819
Be 313.042	-0.0054	ppb	0.0024	44.1	-250.349
Ca 370.602	31.76	ppb	0.4330	1.4	109.0
Cd 226.502	0.0609	ppb	0.1065	174.8	15.3549
Co 228.615	0.3702	ppb	0.1850	50.0	1.3203
Cr 267.716	-0.0447	ppb	0.1712	382.7	7.7285
Cu 324.754	-0.1139	ppb	0.5627	494.2	139.447
Fe 271.441	7.9663	ppb	1.1304	14.2	26.4188
K 766.491	3.0437	ppb	0.3767	12.4	381.028
Mg 279.078	3.4775	ppb	1.0704	30.8	32.2059
Mn 257.610	0.0030	ppb	0.0244	808.4	61.3433
Mo 202.032	-0.1914	ppb	0.2084	108.9	7.5210
Na 330.237	143.434	ppb	186.479	130.0	35.4218
Ni 231.604	0.2757	ppb	0.4309	156.3	-2.6860
Pb 220.353	0.0944	ppb	1.0347	1096.4	14.0102
Sb 206.834	-0.1851	ppb	2.0506	1107.7	7.2578
Se 196.026	2.3368	ppb	3.5118	150.3	8.5046
Sn 189.925	1.6656	ppb	1.5848	95.2	-11.3569
Sr 216.596	0.4113	ppb	0.2762	67.2	16.2197

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.1135	ppb	0.0040	3.5	-38.6748
Tl 190.794	-3.0183	ppb	1.7862	59.2	-11.3250
V 292.401	-0.0681	ppb	0.1121	164.6	-11.3822
Zn 206.200	1.0471	ppb	0.8241	78.7	8.5908

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0649u	0.0725	0.1436
Al 308.215	-3.2584u	-2.7516u	-3.8369u
As 188.980	4.2448	-1.1450u	-0.8490u
B 249.678	1.1281	1.3994	0.5907
Ba 389.178	-0.7539u	-0.1487u	-0.5680u
Be 313.042	-0.0061u	-0.0168u	-0.0102u
Ca 370.602	218.5	216.2	211.4
Cd 226.502	0.1652	0.0662	0.1025
Co 228.615	0.3173	-0.2561u	0.1980
Cr 267.716	0.1250	0.0474	0.0193
Cu 324.754	-0.0670u	-0.3717u	-0.2684u
Fe 271.441	-1.9812u	4.5085	4.9028
K 766.491	9.0001	8.9429	9.1372
Mg 279.078	6.6427	6.7268	7.5919
Mn 257.610	0.0168	-0.0227u	-0.0281u
Mo 202.032	-0.6122u	-0.0840u	-0.4253u
Na 330.237	173.352	7.0455	26.2991
Ni 231.604	1.3936	1.2858	0.0186
Pb 220.353	1.2907	0.1460	-0.6329u
Sb 206.834	1.9941	-0.2610u	-3.8233u
Se 196.026	1.5126	7.2660	5.1967
Sn 189.925	-1.3538u	2.2512	1.0203
Sr 216.596	0.6663	0.4692	-0.0215u
Ti 334.941	0.0741	0.0853	0.1191
Tl 190.794	-1.6377u	-1.4728u	-0.2312u
V 292.401	0.1343	0.2110	0.1066
Zn 206.200	3.4500	3.6535	3.3787

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0504	ppb	0.1060	210.3	-6.8581
Al 308.215	-3.2823	ppb	0.5430	16.5	246.056
As 188.980	0.7503	ppb	3.0300	403.9	-4.6648
B 249.678	1.0394	ppb	0.4116	39.6	80.7358
Ba 389.178	-0.4902	ppb	0.3100	63.2	-40.7813
Be 313.042	-0.0110	ppb	0.0054	48.9	-261.703
Ca 370.602	215.4	ppb	3.585	1.7	679.9
Cd 226.502	0.1113	ppb	0.0500	45.0	17.9161
Co 228.615	0.0864	ppb	0.3026	350.2	-2.4607
Cr 267.716	0.0639	ppb	0.0547	85.7	14.1991
Cu 324.754	-0.2357	ppb	0.1550	65.8	131.583
Fe 271.441	2.4767	ppb	3.8657	156.1	16.8891
K 766.491	9.0267	ppb	0.0999	1.1	639.544
Mg 279.078	6.9871	ppb	0.5254	7.5	41.2616
Mn 257.610	-0.0113	ppb	0.0245	216.5	57.7104
Mo 202.032	-0.3738	ppb	0.2678	71.6	6.0443

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	68.8988	ppb	90.9696	132.0	32.2970
Ni 231.604	0.8993	ppb	0.7646	85.0	-0.4731
Pb 220.353	0.2679	ppb	0.9676	361.1	14.3360
Sb 206.834	-0.6967	ppb	2.9331	421.0	6.4950
Se 196.026	4.6585	ppb	2.9143	62.6	9.6207
Sn 189.925	0.6392	ppb	1.8325	286.7	-12.3461
Sr 216.596	0.3713	ppb	0.3542	95.4	15.6200
Ti 334.941	0.0928	ppb	0.0234	25.2	-44.5754
Tl 190.794	-1.1139	ppb	0.7688	69.0	-8.8233
V 292.401	0.1506	ppb	0.0541	35.9	-5.1222
Zn 206.200	3.4941	ppb	0.1426	4.1	12.3714

680-97135-f-3-a (Samp) 12/19/2013, 12:51:50 AM Rack 3, Tube 7
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9806u	1.0737u	1.0931u
Al 308.215	-0.0304	2.5955	2.2171
As 188.980	163.557	159.174	158.423
B 249.678	179.469	180.471	180.969
Ba 389.178	9.9176	8.8177	9.5817
Be 313.042	-0.0406u	-0.0336u	-0.0363u
Ca 370.602	108720	108634	108580
Cd 226.502	0.0024	0.0117	0.1853
Co 228.615	0.5774	-0.1829u	0.4552
Cr 267.716	0.4073	0.1050	0.0148
Cu 324.754	1.3874	1.1274	0.9408
Fe 271.441	24.4280	23.5716	30.2432
K 766.491	2651.40	2653.59	2659.21
Mg 279.078	13969.7	13901.6	13948.7
Mn 257.610	0.4642	0.4830	0.4674
Mo 202.032	7.4534	6.5753	7.3906
Na 330.237	32446.8	32116.0	32196.3
Ni 231.604	3.5318	2.9177	3.0968
Pb 220.353	1.0902	1.2063	0.0808
Sb 206.834	4.1280	6.0038	3.6291
Se 196.026	5.1932	6.4256	-1.3958u
Sn 189.925	-0.0563	-1.1323u	1.2535
Sr 216.596	3064.39	3047.58	3059.65
Ti 334.941	0.1299	0.1430	0.0978
Tl 190.794	-4.6776u	-4.2001u	-2.4786u
V 292.401	1.4619	1.5913	1.6611
Zn 206.200	2.8208	3.2417	2.6379

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0491	ppb	0.0601	5.7	-82.4545
Al 308.215	1.5941	ppb	1.4195	89.0	280.291
As 188.980	160.385	ppb	2.7729	1.7	116.664
B 249.678	180.303	ppb	0.7638	0.4	2569.64
Ba 389.178	9.4390	ppb	0.5637	6.0	249.185
Be 313.042	-0.0368	ppb	0.0035	9.5	-276.472
Ca 370.602	108644	ppb	70.69	0.1	337776
Cd 226.502	0.0665	ppb	0.1030	155.0	15.7491
Co 228.615	0.2832	ppb	0.4083	144.1	-0.0697

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.1757	ppb	0.2056	117.0	21.4906
Cu 324.754	1.1519	ppb	0.2243	19.5	221.315
Fe 271.441	26.0809	ppb	3.6300	13.9	57.7852
K 766.491	2654.73	ppb	4.0272	0.2	114956
Mg 279.078	13940.0	ppb	34.8573	0.3	35989.5
Mn 257.610	0.4715	ppb	0.0100	2.1	306.521
Mo 202.032	7.1398	ppb	0.4898	6.9	66.8422
Na 330.237	32253.1	ppb	172.563	0.5	1365.75
Ni 231.604	3.1821	ppb	0.3158	9.9	7.6242
Pb 220.353	0.7924	ppb	0.6190	78.1	15.3101
Sb 206.834	4.5870	ppb	1.2521	27.3	14.2269
Se 196.026	3.4076	ppb	4.2053	123.4	9.0199
Sn 189.925	0.0216	ppb	1.1948	5527.1	-12.8742
Sr 216.596	3057.21	ppb	8.6654	0.3	46776.3
Ti 334.941	0.1236	ppb	0.0233	18.8	25.4889
Tl 190.794	-3.7854	ppb	1.1567	30.6	-12.3392
V 292.401	1.5714	ppb	0.1011	6.4	34.0141
Zn 206.200	2.9001	ppb	0.3097	10.7	11.4531

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Rack 3, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5750u	0.7538u	0.6860u
Al 308.215	418.494	417.600	416.893
As 188.980	8.7595	9.1067	4.8116
B 249.678	806.813	809.702	810.325
Ba 389.178	822.003	820.437	821.340
Be 313.042	0.3468	0.3558	0.3639
Ca 370.602	110224	109851	109830
Cd 226.502	0.1031	0.1541	0.1254
Co 228.615	-0.1630	0.6496	0.6291
Cr 267.716	4.3989	4.0487	4.2973
Cu 324.754	1.0414	1.2114	1.1450
Fe 271.441	60793.9	60775.9	60664.9
K 766.491	96688.4x	96800.0x	96313.7x
Mg 279.078	260446	259882	259420
Mn 257.610	4403.77	4397.26	4383.85
Mo 202.032	-0.5647u	-0.8034u	0.0863u
Na 330.237	3366325x	3399357x	3401928x
Ni 231.604	10.1744	9.1468	9.6412
Pb 220.353	1.2320	3.4192	5.0608
Sb 206.834	0.1748	0.3353	-3.8650u
Se 196.026	14.9439	8.3318	7.0956
Sn 189.925	-3.1276u	-1.7191u	-1.8925u
Sr 216.596	1543.57	1537.71	1534.75
Ti 334.941	2.5843	2.4175	2.3275
Tl 190.794	-3.3599u	-7.0289u	-2.6894u
V 292.401	7.5050	7.9339	7.4344
Zn 206.200	10.6859	10.7224	8.8038

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6716b	ppb	0.0903	13.4	-42.3931
Al 308.215	417.662b	ppb	0.8022	0.2	3175.75

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	7.5593b	ppb	2.3859	31.6	-0.2170
B 249.678	808.947b	ppb	1.8740	0.2	11180.2
Ba 389.178	821.260b	ppb	0.7862	0.1	21539.5
Be 313.042	0.3555b	ppb	0.0085	2.4	140.997
Ca 370.602	109968b	ppb	221.6	0.2	336984
Cd 226.502	0.1276b	ppb	0.0255	20.0	273.465
Co 228.615	0.3719b	ppb	0.4633	124.6	4.0299
Cr 267.716	4.2483b	ppb	0.1802	4.2	371.733
Cu 324.754	1.1326b	ppb	0.0857	7.6	243.011
Fe 271.441	60744.9b	ppb	69.8322	0.1	105146
K 766.491	96600.7xb	ppb	254.736	0.3	4174204
Mg 279.078	259916b	ppb	513.949	0.2	670538
Mn 257.610	4394.96b	ppb	10.1578	0.2	1126070
Mo 202.032	-0.4273b	ppb	0.4605	107.8	2.1821
Na 330.237	3389203xb	ppb	19855.2	0.6	140436
Ni 231.604	9.6541b	ppb	0.5139	5.3	32.2897
Pb 220.353	3.2374b	ppb	1.9208	59.3	25.8467
Sb 206.834	-1.1183b	ppb	2.3801	212.8	8.0531
Se 196.026	10.1238b	ppb	4.2199	41.7	14.2519
Sn 189.925	-2.2464b	ppb	0.7681	34.2	-13.8416
Sr 216.596	1538.68b	ppb	4.4848	0.3	23666.3
Ti 334.941	2.4431b	ppb	0.1303	5.3	1581.66
Tl 190.794	-4.3594b	ppb	2.3360	53.6	-22.5538
V 292.401	7.6244b	ppb	0.2703	3.5	210.551
Zn 206.200	10.0707b	ppb	1.0973	10.9	21.1282

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Rack 3, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3674u	0.4108u	0.3541u
Al 308.215	9.5122	9.1767	7.8702
As 188.980	4.2536	3.2550	4.3465
B 249.678	791.427	793.471	793.853
Ba 389.178	40.5997	39.9514	39.2616
Be 313.042	0.1177u	0.1189u	0.1132u
Ca 370.602	81442	81573	81492
Cd 226.502	0.4367	0.1886u	0.3200
Co 228.615	0.3221	-0.0681u	-0.3810u
Cr 267.716	-0.9067	-0.8835	-0.6938
Cu 324.754	0.4305	0.4545	0.4544
Fe 271.441	482.165	475.014	466.823
K 766.491	117362x	117777x	118292x
Mg 279.078	234555	234522	234312
Mn 257.610	242.021	242.326	241.911
Mo 202.032	0.9225	0.6325	0.4724
Na 330.237	2698624x	2726550x	2710399x
Ni 231.604	4.7282	4.6171	4.2217
Pb 220.353	1.1222	-0.0025	-0.1454u
Sb 206.834	-0.2723u	1.1401	1.9011
Se 196.026	9.8089	12.0940	6.3949
Sn 189.925	-3.3563u	3.2917	-0.5220
Sr 216.596	1339.64	1343.19	1340.93
Ti 334.941	-3.3630u	-3.2789u	-3.2929u

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Label	Replicates Concentration		
Tl 190.794	-3.2839u	-5.1580u	-3.2768u
V 292.401	1.8113	2.3266	2.2891
Zn 206.200	7.3593	5.5404	9.2390

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3774b	ppb	0.0297	7.9	-52.1294
Al 308.215	8.8530b	ppb	0.8675	9.8	330.436
As 188.980	3.9517b	ppb	0.6051	15.3	-2.2375
B 249.678	792.917b	ppb	1.3043	0.2	11074.7
Ba 389.178	39.9376b	ppb	0.6691	1.7	1638.65
Be 313.042	0.1166b	ppb	0.0030	2.6	-284.524
Ca 370.602	81502b	ppb	66.44	0.1	253362
Cd 226.502	0.3151b	ppb	0.1241	39.4	16.1698
Co 228.615	-0.0423b	ppb	0.3522	831.8	-4.1061
Cr 267.716	-0.8280b	ppb	0.1168	14.1	15.3787
Cu 324.754	0.4465b	ppb	0.0139	3.1	175.774
Fe 271.441	474.667b	ppb	7.6769	1.6	834.127
K 766.491	117811xb	ppb	466.130	0.4	5090649
Mg 279.078	234463b	ppb	132.192	0.1	604951
Mn 257.610	242.086b	ppb	0.2151	0.1	64016.7
Mo 202.032	0.6758b	ppb	0.2282	33.8	14.5082
Na 330.237	2711858xb	ppb	14020.0	0.5	112386
Ni 231.604	4.5223b	ppb	0.2662	5.9	12.3918
Pb 220.353	0.3248b	ppb	0.6943	213.8	14.5414
Sb 206.834	0.9229b	ppb	1.1028	119.5	8.9083
Se 196.026	9.4326b	ppb	2.8681	30.4	11.9842
Sn 189.925	-0.1955b	ppb	3.3360	1706.2	-12.1248
Sr 216.596	1341.26b	ppb	1.7983	0.1	20533.1
Ti 334.941	-3.3116b	ppb	0.0451	1.4	-144.603
Tl 190.794	-3.9062b	ppb	1.0840	27.8	-12.7009
V 292.401	2.1423b	ppb	0.2873	13.4	34.9060
Zn 206.200	7.3796b	ppb	1.8494	25.1	18.3637

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Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3175u	0.2428u	0.3300u
Al 308.215	10.5883	8.9124	9.0822
As 188.980	7.5506	3.0100	-2.7958u
B 249.678	791.601	791.050	792.616
Ba 389.178	32.9541	31.6968	32.5549
Be 313.042	0.1123u	0.1159u	0.1081u
Ca 370.602	82729	83056	83086
Cd 226.502	0.3143	0.3539	0.2365u
Co 228.615	0.1830	0.1753	-0.2967u
Cr 267.716	-0.9760u	-0.8656	-0.7748
Cu 324.754	0.6165	0.7184	0.8431
Fe 271.441	249.429	259.679	240.187
K 766.491	118314x	117699x	117806x
Mg 279.078	237224	236569	236603
Mn 257.610	264.790	265.542	265.793
Mo 202.032	1.1939	0.7833	0.6481
Na 330.237	2731518x	2729979x	2734327x

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Label	Replicates Concentration		
Ni 231.604	4.7681	5.2703	5.5884
Pb 220.353	4.0728	1.5646	1.5095
Sb 206.834	-0.1968u	-3.0493u	-2.4217u
Se 196.026	4.2010	8.5905	5.5525
Sn 189.925	0.5226	-2.4971u	-1.2852u
Sr 216.596	1356.98	1358.58	1357.46
Ti 334.941	-3.3150u	-3.4012u	-3.3844u
Tl 190.794	-5.2074u	-7.8877u	-5.8520u
V 292.401	1.4878	1.8385	1.3823
Zn 206.200	5.2745	3.5692	6.0018

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2968b	ppb	0.0471	15.9	-59.8162
Al 308.215	9.5276b	ppb	0.9225	9.7	335.220
As 188.980	2.5883b	ppb	5.1861	200.4	-3.2711
B 249.678	791.756b	ppb	0.7942	0.1	11059.0
Ba 389.178	32.4020b	ppb	0.6424	2.0	1454.17
Be 313.042	0.1121b	ppb	0.0039	3.5	-295.928
Ca 370.602	82957b	ppb	198.1	0.2	257904
Cd 226.502	0.3016b	ppb	0.0597	19.8	14.3547
Co 228.615	0.0205b	ppb	0.2748	1338.5	-3.2836
Cr 267.716	-0.8721b	ppb	0.1007	11.5	13.2670
Cu 324.754	0.7260b	ppb	0.1135	15.6	193.728
Fe 271.441	249.765b	ppb	9.7505	3.9	444.883
K 766.491	117940xb	ppb	328.430	0.3	5096230
Mg 279.078	236799b	ppb	368.751	0.2	610976
Mn 257.610	265.375b	ppb	0.5219	0.2	69989.2
Mo 202.032	0.8751b	ppb	0.2843	32.5	16.1351
Na 330.237	2731941xb	ppb	2204.70	0.1	113218
Ni 231.604	5.2090b	ppb	0.4136	7.9	14.8209
Pb 220.353	2.3823b	ppb	1.4643	61.5	18.3883
Sb 206.834	-1.8893b	ppb	1.4989	79.3	4.6783
Se 196.026	6.1147b	ppb	2.2481	36.8	10.3916
Sn 189.925	-1.0866b	ppb	1.5196	139.9	-12.9744
Sr 216.596	1357.67b	ppb	0.8201	0.1	20784.0
Ti 334.941	-3.3669b	ppb	0.0457	1.4	-152.046
Tl 190.794	-6.3157b	ppb	1.3990	22.2	-15.8568
V 292.401	1.5695b	ppb	0.2388	15.2	18.2998
Zn 206.200	4.9485b	ppb	1.2487	25.2	14.6128

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Rack 3, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2559u	0.3788u	0.1389u
Al 308.215	6.5061	8.2730	8.5094
As 188.980	4.8510	1.9470	6.8341
B 249.678	754.095	758.804	755.490
Ba 389.178	33.5334	33.2578	32.6594
Be 313.042	0.1089u	0.1108u	0.1223u
Ca 370.602	84559	85206	85204
Cd 226.502	0.3466	0.1522u	0.4409
Co 228.615	0.3019	-0.5299u	-0.1429u
Cr 267.716	-0.7857	-0.8857	-0.6860

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Label	Replicates Concentration		
Cu 324.754	0.7709	0.9743	0.6791
Fe 271.441	128.574	133.775	129.134
K 766.491	115162x	115026x	115059x
Mg 279.078	234159	234582	234073
Mn 257.610	263.142	265.266	264.697
Mo 202.032	0.5885	0.6324	0.6217
Na 330.237	2710570x	2682927x	2672194x
Ni 231.604	6.2078	5.0608	4.7567
Pb 220.353	0.2469	1.1922	-0.3153u
Sb 206.834	3.6030	-1.3234u	-1.6168u
Se 196.026	-0.2182u	8.1804	11.4137
Sn 189.925	-4.0956u	-1.7082u	-3.0429u
Sr 216.596	1337.23	1347.53	1341.83
Ti 334.941	-3.2797u	-3.3676u	-3.4117u
Tl 190.794	-4.6302u	-4.1309u	-4.0088u
V 292.401	1.5373	1.5453	1.7475
Zn 206.200	4.1278	5.5434	2.0491

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2579b	ppb	0.1200	46.5	-62.1602
Al 308.215	7.7629b	ppb	1.0948	14.1	322.906
As 188.980	4.5440b	ppb	2.4579	54.1	-1.7832
B 249.678	756.130b	ppb	2.4190	0.3	10564.6
Ba 389.178	33.1502b	ppb	0.4469	1.3	1465.86
Be 313.042	0.1140b	ppb	0.0072	6.3	-285.547
Ca 370.602	84990b	ppb	372.9	0.4	264234
Cd 226.502	0.3132b	ppb	0.1472	47.0	14.7138
Co 228.615	-0.1236b	ppb	0.4162	336.7	-5.2027
Cr 267.716	-0.7858b	ppb	0.0999	12.7	17.4360
Cu 324.754	0.8081b	ppb	0.1511	18.7	198.965
Fe 271.441	130.494b	ppb	2.8551	2.2	238.443
K 766.491	115082xb	ppb	70.4750	0.1	4972766
Mg 279.078	234272b	ppb	272.173	0.1	604456
Mn 257.610	264.369b	ppb	1.0995	0.4	69709.7
Mo 202.032	0.6142b	ppb	0.0229	3.7	14.0300
Na 330.237	2688564xb	ppb	19799.4	0.7	111421
Ni 231.604	5.3417b	ppb	0.7653	14.3	15.2890
Pb 220.353	0.3746b	ppb	0.7618	203.4	14.6135
Sb 206.834	0.2209b	ppb	2.9326	1327.4	7.8458
Se 196.026	6.4586b	ppb	6.0040	93.0	10.5549
Sn 189.925	-2.9489b	ppb	1.1965	40.6	-14.7859
Sr 216.596	1342.20b	ppb	5.1601	0.4	20547.5
Ti 334.941	-3.3530b	ppb	0.0672	2.0	-156.100
Tl 190.794	-4.2566b	ppb	0.3292	7.7	-13.1382
V 292.401	1.6100b	ppb	0.1191	7.4	19.7761
Zn 206.200	3.9068b	ppb	1.7576	45.0	13.0058

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Rack 3, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0255u	-0.0392u	0.0660u
Al 308.215	11.9924	10.3111	10.7891
As 188.980	-2.9958u	4.5733	3.0398

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Label	Replicates Concentration		
B 249.678	75.6060	75.2649	74.6827
Ba 389.178	160.468	160.270	160.330
Be 313.042	0.0410	0.0331	0.0353
Ca 370.602	124532	124715	125509
Cd 226.502	-0.1754	-0.2391	-0.2289
Co 228.615	0.3286	-0.4257u	-0.2015u
Cr 267.716	0.0960	0.2730	0.3274
Cu 324.754	-0.5265u	-0.7984u	-0.5404u
Fe 271.441	13859.8	13835.2	13857.6
K 766.491	7577.59	7568.50	7582.57
Mg 279.078	11733.5	11720.3	11704.9
Mn 257.610	1566.24	1565.65	1569.23
Mo 202.032	-0.0921u	-0.4015u	-0.4478u
Na 330.237	57689.5	58008.5	57513.4
Ni 231.604	2.9056	1.5813	1.9846
Pb 220.353	0.7500	-0.8257u	-2.5577u
Sb 206.834	-4.5569u	-1.4469u	-0.3702u
Se 196.026	-0.4543	3.5206	-9.0671u
Sn 189.925	2.2732	0.7154	-0.4098u
Sr 216.596	458.602	459.540	456.845
Ti 334.941	0.4697	0.4551	0.4799
Tl 190.794	-1.8859u	-3.7999u	-2.6975u
V 292.401	1.4913	1.5032	1.3717
Zn 206.200	0.0593u	1.4089	1.7525

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0004	ppb	0.0572	13818.3	-33.0250
Al 308.215	11.0309	ppb	0.8663	7.9	345.522
As 188.980	1.5391	ppb	4.0014	260.0	-4.2321
B 249.678	75.1845	ppb	0.4669	0.6	1083.32
Ba 389.178	160.356	ppb	0.1014	0.1	4076.44
Be 313.042	0.0365	ppb	0.0041	11.2	-122.279
Ca 370.602	124919	ppb	519.1	0.4	387270
Cd 226.502	-0.2145	ppb	0.0342	16.0	63.3831
Co 228.615	-0.0995	ppb	0.3873	389.3	-4.3705
Cr 267.716	0.2322	ppb	0.1210	52.1	37.9982
Cu 324.754	-0.6217	ppb	0.1531	24.6	111.982
Fe 271.441	13850.9	ppb	13.6346	0.1	23984.7
K 766.491	7576.22	ppb	7.1351	0.1	327605
Mg 279.078	11719.6	ppb	14.3050	0.1	30229.3
Mn 257.610	1567.04	ppb	1.9195	0.1	400809
Mo 202.032	-0.3138	ppb	0.1934	61.6	5.7492
Na 330.237	57737.1	ppb	250.951	0.4	2418.55
Ni 231.604	2.1572	ppb	0.6788	31.5	4.3786
Pb 220.353	-0.8778	ppb	1.6545	188.5	13.6837
Sb 206.834	-2.1246	ppb	2.1741	102.3	4.8360
Se 196.026	-2.0003	ppb	6.4347	321.7	7.0150
Sn 189.925	0.8596	ppb	1.3473	156.7	-12.0493
Sr 216.596	458.329	ppb	1.3681	0.3	7062.81
Ti 334.941	0.4683	ppb	0.0125	2.7	113.886
Tl 190.794	-2.7945	ppb	0.9607	34.4	-13.5424
V 292.401	1.4554	ppb	0.0727	5.0	37.2961
Zn 206.200	1.0735	ppb	0.8950	83.4	8.3128

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Cont Calib Verif (CCV) 12/19/2013, 1:20:29 AM Rack 3, Tube 13**Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	480.765	482.252	480.135
Al 308.215	4640.45	4651.61	4634.51
As 188.980	490.060	493.526	488.597
B 249.678	470.053	474.186	476.449
Ba 389.178	4905.93	4914.09	4896.12
Be 313.042	484.504	484.397	482.724
Ca 370.602	4641	4643	4619
Cd 226.502	484.414	486.633	486.112
Co 228.615	486.481	491.104	487.484
Cr 267.716	4888.89	4901.69	4884.79
Cu 324.754	4877.03	4877.65	4749.16
Fe 271.441	4898.16	4896.17	4887.88
K 766.491	9457.77	9429.48	9333.05
Mg 279.078	4937.35	4954.72	4936.56
Mn 257.610	4796.03	4810.93	4799.41
Mo 202.032	499.202	502.002	502.226
Na 330.237	7394.37	7227.30	7331.33
Ni 231.604	2340.54	2346.49	2375.23
Pb 220.353	471.283	477.186	471.417
Sb 206.834	923.781	931.412	927.240
Se 196.026	4740.63	4789.82	4772.09
Sn 189.925	4947.35	4949.55	4947.24
Sr 216.596	2453.44	2464.14	2461.21
Ti 334.941	466.154	466.503	464.043
Tl 190.794	4853.06	4865.10	4862.98
V 292.401	4889.20	4895.71	4872.68
Zn 206.200	2412.63	2424.03	2419.05

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	481.051	ppb	1.0866	0.2	39942.9	96.21016
Al 308.215	4642.19	ppb	8.6809	0.2	32009.4	92.84373
As 188.980	490.728	ppb	2.5314	0.5	367.579	98.14552
B 249.678	473.563	ppb	3.2431	0.7	6631.76	94.71251
Ba 389.178	4905.38	ppb	8.9983	0.2	123884	98.10764
Be 313.042	483.875	ppb	0.9980	0.2	993912	96.77502
Ca 370.602	4634	ppb	13.18	0.3	14464	92.68484
Cd 226.502	485.720	ppb	1.1603	0.2	24773.3	97.14399
Co 228.615	488.356	ppb	2.4315	0.5	6523.72	97.67123
Cr 267.716	4891.79	ppb	8.8117	0.2	291651	97.83578
Cu 324.754	4834.61	ppb	74.0048	1.5	311845	96.69218
Fe 271.441	4894.07	ppb	5.4549	0.1	8599.26	97.88137
K 766.491	9406.77	ppb	65.3875	0.7	406700	94.06770
Mg 279.078	4942.88	ppb	10.2658	0.2	12678.4	98.85752
Mn 257.610	4802.12	ppb	7.8144	0.2	1227742	96.04249
Mo 202.032	501.143	ppb	1.6850	0.3	4053.88	100.22863
Na 330.237	7317.67	ppb	84.3695	1.2	295.309	97.56887
Ni 231.604	2354.09	ppb	18.5494	0.8	8345.27	94.16353
Pb 220.353	473.295	ppb	3.3701	0.7	901.863	94.65903
Sb 206.834	927.477	ppb	3.8212	0.4	1483.02	92.74775
Se 196.026	4767.52	ppb	24.9108	0.5	2300.45	95.35031
Sn 189.925	4948.05	ppb	1.3051	0.0	4756.53	98.96096
Sr 216.596	2459.60	ppb	5.5269	0.2	37550.3	98.38381

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	465.567	ppb	1.3310	0.3	133481	93.11339
Tl 190.794	4860.38	ppb	6.4285	0.1	6378.79	97.20761
V 292.401	4885.86	ppb	11.8728	0.2	139004	97.71722
Zn 206.200	2418.57	ppb	5.7145	0.2	3736.91	96.74291

Cont Calib Blank (CCB)

12/19/2013, 1:25:15 AM

Rack 3, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2072	-0.0999u	-0.0666u
Al 308.215	-7.0032u	-6.2235u	-5.4478u
As 188.980	2.6445	0.8127	-0.9647u
B 249.678	4.2635	2.9023	2.7164
Ba 389.178	0.2923	0.2215	0.5948
Be 313.042	-0.0037u	0.0045	0.0012
Ca 370.602	0.4468	1.630	1.776
Cd 226.502	-0.0961u	-0.0639u	0.0843
Co 228.615	0.1909	-0.0152u	0.4293
Cr 267.716	0.1950	0.0123	0.2373
Cu 324.754	-0.4732u	-0.4727u	-0.8476u
Fe 271.441	8.0750	1.7210	-3.8271u
K 766.491	1.8677	1.6166	1.9966
Mg 279.078	1.3488	4.1925	5.8873
Mn 257.610	0.0175	-0.0102u	0.0277
Mo 202.032	0.9512	0.5830	0.3019
Na 330.237	191.951	397.582	132.532
Ni 231.604	0.5435	0.2993	0.2408
Pb 220.353	-0.8767u	-2.1387u	1.0584
Sb 206.834	-2.5316u	0.1488	-1.0578u
Se 196.026	-2.3586u	-0.1012u	8.0298
Sn 189.925	2.9268	3.2853	2.1765
Sr 216.596	-0.0462u	0.0338	0.1472
Ti 334.941	0.1681	0.2262	0.1967
Tl 190.794	0.4139	1.1803	2.2567
V 292.401	0.0607	0.5117	0.2663
Zn 206.200	-1.3143u	0.0208	-2.3045u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0136	ppb	0.1685	1241.1	-9.9125	0.01358
Al 308.215	-6.2248	ppb	0.7777	12.5	225.620	-6.22481
As 188.980	0.8308	ppb	1.8047	217.2	-4.6039	0.83084
B 249.678	3.2941	ppb	0.8446	25.6	112.049	3.29408
Ba 389.178	0.3695	ppb	0.1983	53.7	-19.0811	0.36955
Be 313.042	0.0007	ppb	0.0041	625.1	-237.945	0.00066
Ca 370.602	1.284	ppb	0.7288	56.8	14.76	1.28408
Cd 226.502	-0.0252	ppb	0.0962	381.4	10.9411	-0.02523
Co 228.615	0.2016	ppb	0.2225	110.3	-0.9543	0.20164
Cr 267.716	0.1482	ppb	0.1196	80.7	19.2262	0.14817
Cu 324.754	-0.5978	ppb	0.2163	36.2	108.265	-0.59783
Fe 271.441	1.9896	ppb	5.9556	299.3	16.0600	1.98963
K 766.491	1.8270	ppb	0.1933	10.6	328.455	1.82696
Mg 279.078	3.8095	ppb	2.2933	60.2	33.0639	3.80952
Mn 257.610	0.0116	ppb	0.0196	168.5	63.5337	0.01165
Mo 202.032	0.6121	ppb	0.3256	53.2	14.0225	0.61206

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	240.689	ppb	139.084	57.8	39.4780	240.68852
Ni 231.604	0.3612	ppb	0.1606	44.5	-2.3824	0.36120
Pb 220.353	-0.6523	ppb	1.6103	246.9	12.6080	-0.65232
Sb 206.834	-1.1468	ppb	1.3424	117.1	5.7983	-1.14685
Se 196.026	1.8567	ppb	5.4639	294.3	8.2737	1.85668
Sn 189.925	2.7962	ppb	0.5658	20.2	-10.2671	2.79619
Sr 216.596	0.0449	ppb	0.0972	216.3	10.5835	0.04493
Ti 334.941	0.1970	ppb	0.0290	14.7	-14.7198	0.19701
Tl 190.794	1.2836	ppb	0.9257	72.1	-5.6732	1.28361
V 292.401	0.2796	ppb	0.2258	80.8	-1.6241	0.27956
Zn 206.200	-1.1994	ppb	1.1669	97.3	5.1198	-1.19936

680-97094-c-10-a (Samp)

12/19/2013, 1:30:02 AM

Rack 3, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1262u	0.1326u	0.3110
Al 308.215	-3.5380u	-2.5310u	-4.9026u
As 188.980	0.8706	3.0958	2.8986
B 249.678	22.5857	23.6105	22.9222
Ba 389.178	4.9555	5.9928	6.2690
Be 313.042	-0.0161u	-0.0146u	-0.0147u
Ca 370.602	21269	21344	21144
Cd 226.502	-0.1074u	-0.0971u	0.0032
Co 228.615	0.0544	0.3133	-0.5189u
Cr 267.716	0.5390	0.3859	0.5027
Cu 324.754	2.6528	3.0249	2.3931
Fe 271.441	13.8619	12.8335	10.7509
K 766.491	2837.95	2850.40	2833.32
Mg 279.078	8135.29	8172.62	8125.58
Mn 257.610	-0.0898	-0.0521	-0.0977
Mo 202.032	1.6215	1.1469	1.0221
Na 330.237	13852.6	14158.2	13855.4
Ni 231.604	0.6368	0.6655	0.3859
Pb 220.353	3.3590	-0.0118u	-0.7327u
Sb 206.834	-2.5835u	-5.4329u	-4.1528u
Se 196.026	2.3360	-3.3952u	0.4632
Sn 189.925	1.1490	3.0263	2.9519
Sr 216.596	337.996	340.236	337.999
Ti 334.941	0.0527	0.0663	0.0301
Tl 190.794	-2.2632u	-2.8991u	-2.2751u
V 292.401	0.1964	0.0836	-0.4571u
Zn 206.200	43.6075	43.9785	43.2504

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1058	ppb	0.2198	207.8	-20.0389
Al 308.215	-3.6572	ppb	1.1903	32.5	243.580
As 188.980	2.2883	ppb	1.2317	53.8	-3.4964
B 249.678	23.0395	ppb	0.5224	2.3	386.182
Ba 389.178	5.7391	ppb	0.6925	12.1	139.356
Be 313.042	-0.0151	ppb	0.0009	5.7	-264.146
Ca 370.602	21252	ppb	101.1	0.5	66081
Cd 226.502	-0.0671	ppb	0.0611	91.0	8.9094
Co 228.615	-0.0504	ppb	0.4259	845.0	-4.3358

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.4759	ppb	0.0800	16.8	39.0402
Cu 324.754	2.6902	ppb	0.3175	11.8	320.317
Fe 271.441	12.4821	ppb	1.5850	12.7	34.1915
K 766.491	2840.56	ppb	8.8349	0.3	122985
Mg 279.078	8144.49	ppb	24.8340	0.3	21036.6
Mn 257.610	-0.0799	ppb	0.0244	30.6	112.606
Mo 202.032	1.2635	ppb	0.3163	25.0	19.2940
Na 330.237	13955.4	ppb	175.614	1.3	607.044
Ni 231.604	0.5627	ppb	0.1538	27.3	-1.6665
Pb 220.353	0.8715	ppb	2.1842	250.6	15.4662
Sb 206.834	-4.0564	ppb	1.4271	35.2	1.4262
Se 196.026	-0.1987	ppb	2.9224	1471.1	7.2860
Sn 189.925	2.3757	ppb	1.0630	44.7	-10.6565
Sr 216.596	338.744	ppb	1.2920	0.4	5193.12
Ti 334.941	0.0497	ppb	0.0183	36.8	-20.9202
Tl 190.794	-2.4791	ppb	0.3637	14.7	-10.6194
V 292.401	-0.0591	ppb	0.3493	591.5	-11.4140
Zn 206.200	43.6121	ppb	0.3641	0.8	74.3547

490-42665-a-5-a (Samp)

12/19/2013, 1:34:48 AM

Rack 3, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3089	0.1363	-0.1308u
Al 308.215	-0.2641u	-0.3909u	-0.9274u
As 188.980	0.2782	5.3943	6.2042
B 249.678	55.3130	54.9279	56.6599
Ba 389.178	22.7059	22.4475	22.6571
Be 313.042	-0.0368u	-0.0343u	-0.0425u
Ca 370.602	121516	124271	122256
Cd 226.502	0.0432	0.0644	-0.0663u
Co 228.615	-0.0297u	-0.0925u	-0.4664u
Cr 267.716	0.1759	0.1798	0.2149
Cu 324.754	17.8652	17.7916	17.7110
Fe 271.441	46.3579	46.5632	41.8206
K 766.491	2804.96	2798.81	2791.42
Mg 279.078	25446.6	25420.7	25523.7
Mn 257.610	2.3069	2.2979	2.2926
Mo 202.032	15.5014	14.5361	15.2875
Na 330.237	36485.1	36561.3	36462.5
Ni 231.604	2.0349	3.1163	1.9029
Pb 220.353	2.0826	0.5775	-1.2129u
Sb 206.834	-0.2313u	0.3319	0.3416
Se 196.026	0.5781	2.7143	-4.7992u
Sn 189.925	2.0176	2.3807	1.9655
Sr 216.596	201.392	200.569	201.496
Ti 334.941	-0.0730	-0.0626	-0.0687
Tl 190.794	-1.3985u	-2.7890u	-3.2470u
V 292.401	0.8839	0.5573	0.4320
Zn 206.200	485.605	481.555	482.480

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1048	ppb	0.2215	211.4	-13.5032
Al 308.215	-0.5275	ppb	0.3521	66.8	266.124

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.9589	ppb	3.2132	81.2	-2.2316
B 249.678	55.6336	ppb	0.9094	1.6	838.669
Ba 389.178	22.6035	ppb	0.1373	0.6	613.980
Be 313.042	-0.0379	ppb	0.0042	11.0	-275.824
Ca 370.602	122681	ppb	1426	1.2	381413
Cd 226.502	0.0138	ppb	0.0701	509.0	13.3022
Co 228.615	-0.1962	ppb	0.2361	120.3	-6.7216
Cr 267.716	0.1902	ppb	0.0215	11.3	22.4618
Cu 324.754	17.7893	ppb	0.0771	0.4	1294.42
Fe 271.441	44.9139	ppb	2.6809	6.0	90.3261
K 766.491	2798.39	ppb	6.7799	0.2	121163
Mg 279.078	25463.7	ppb	53.5868	0.2	65721.4
Mn 257.610	2.2991	ppb	0.0072	0.3	876.095
Mo 202.032	15.1083	ppb	0.5070	3.4	131.327
Na 330.237	36502.9	ppb	51.7728	0.1	1534.90
Ni 231.604	2.3513	ppb	0.6657	28.3	4.6798
Pb 220.353	0.4824	ppb	1.6498	342.0	14.7188
Sb 206.834	0.1474	ppb	0.3280	222.5	7.3774
Se 196.026	-0.5023	ppb	3.8715	770.8	7.1412
Sn 189.925	2.1213	ppb	0.2262	10.7	-10.8416
Sr 216.596	201.152	ppb	0.5075	0.3	3104.29
Ti 334.941	-0.0681	ppb	0.0052	7.6	22.5760
Tl 190.794	-2.4782	ppb	0.9627	38.8	-10.6313
V 292.401	0.6244	ppb	0.2333	37.4	5.7382
Zn 206.200	483.213	ppb	2.1226	0.4	753.556

680-97086-r-3-a (Samp)

12/19/2013, 1:39:34 AM

Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1353u	0.8404u	0.8605u
Al 308.215	1.0566	0.7781	0.9330
As 188.980	2.7326	0.9496	-0.4731u
B 249.678	129.239	129.165	132.918
Ba 389.178	45.7889	46.4876	46.1048
Be 313.042	-0.0332u	-0.0307u	-0.0372u
Ca 370.602	113140	112768	115311
Cd 226.502	0.0740	-0.1804	0.1483
Co 228.615	-0.6408u	-0.4300u	-0.2907u
Cr 267.716	-0.0247u	0.1768	0.2009
Cu 324.754	-0.5674u	-0.1433u	-0.7563u
Fe 271.441	2356.45	2340.00	2385.76
K 766.491	2510.24	2507.39	2568.52
Mg 279.078	97312.2	96625.5	98632.8
Mn 257.610	25.9200	25.7863	26.3993
Mo 202.032	10.5248	10.1713	10.4637
Na 330.237	26912.4	26628.7	26835.6
Ni 231.604	3.9774	4.0740	4.1507
Pb 220.353	3.0099	0.0776	-0.4489u
Sb 206.834	-3.0356u	-3.6920u	-3.6278u
Se 196.026	0.5408	-2.0327u	-1.7556u
Sn 189.925	2.1504	2.8430	3.0802
Sr 216.596	2714.24	2696.49	2750.19
Ti 334.941	-1.1016	-1.1794	-1.1380

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	-0.4679u	-1.7062u	-4.3276u
V 292.401	0.5866	0.7714	0.4484
Zn 206.200	1.5922	0.7545	0.0703

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9454	ppb	0.1648	17.4	-76.4650
Al 308.215	0.9226	ppb	0.1395	15.1	275.927
As 188.980	1.0697	ppb	1.6063	150.2	-4.4540
B 249.678	130.441	ppb	2.1454	1.6	1872.80
Ba 389.178	46.1271	ppb	0.3499	0.8	1413.95
Be 313.042	-0.0337	ppb	0.0033	9.7	-271.838
Ca 370.602	113740	ppb	1373	1.2	353423
Cd 226.502	0.0139	ppb	0.1724	1236.7	25.0339
Co 228.615	-0.4539	ppb	0.1762	38.8	-9.9149
Cr 267.716	0.1177	ppb	0.1239	105.3	18.7789
Cu 324.754	-0.4890	ppb	0.3140	64.2	116.532
Fe 271.441	2360.74	ppb	23.1819	1.0	4098.36
K 766.491	2528.72	ppb	34.4999	1.4	109511
Mg 279.078	97523.5	ppb	1020.20	1.0	251641
Mn 257.610	26.0352	ppb	0.3223	1.2	7590.56
Mo 202.032	10.3866	ppb	0.1890	1.8	92.9869
Na 330.237	26792.3	ppb	146.768	0.5	1139.01
Ni 231.604	4.0674	ppb	0.0868	2.1	10.8322
Pb 220.353	0.8795	ppb	1.8637	211.9	15.6630
Sb 206.834	-3.4518	ppb	0.3619	10.5	2.1796
Se 196.026	-1.0825	ppb	1.4126	130.5	6.9041
Sn 189.925	2.6912	ppb	0.4831	18.0	-10.3004
Sr 216.596	2720.31	ppb	27.3577	1.0	41629.4
Ti 334.941	-1.1397	ppb	0.0389	3.4	44.2331
Tl 190.794	-2.1672	ppb	1.9707	90.9	-10.4941
V 292.401	0.6021	ppb	0.1621	26.9	7.8093
Zn 206.200	0.8057	ppb	0.7623	94.6	8.1633

680-97086-r-3-aSD^5 (Samp) 12/19/2013, 1:44:21 AM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3810u	0.4413	0.1109u
Al 308.215	-0.5007u	-3.8907u	-3.2303u
As 188.980	-0.1621u	3.0568	2.6143
B 249.678	32.5279	30.7721	30.9362
Ba 389.178	10.5693	10.3987	10.5318
Be 313.042	-0.0122u	-0.0160u	-0.0188u
Ca 370.602	27341	25852	25525
Cd 226.502	-0.1192u	0.1281	-0.0008
Co 228.615	0.1606	0.1636	0.5529
Cr 267.716	0.2375	0.0900	0.0706
Cu 324.754	-0.5854u	-0.4740u	-0.6023u
Fe 271.441	591.808	554.905	553.806
K 766.491	548.177	524.335	515.594
Mg 279.078	23604.0	22297.3	21899.6
Mn 257.610	6.4638	6.1234	6.0078
Mo 202.032	2.8437	1.9429	2.3093
Na 330.237	6073.22	6089.75	5837.72

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Ni 231.604	2.0999	1.8005	1.2044
Pb 220.353	1.7831	2.1898	0.8968
Sb 206.834	1.9405	-2.0517u	-2.2913u
Se 196.026	-2.0985u	-1.0277u	-7.5382u
Sn 189.925	3.4133	-0.6382u	0.9762
Sr 216.596	676.626	638.169	627.757
Ti 334.941	-0.2298	-0.2020	-0.2118
Tl 190.794	-2.0059u	0.4030	-2.8412u
V 292.401	-0.1973u	0.2010	-0.0152u
Zn 206.200	1.4982	-0.8307u	-1.0565u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3111	ppb	0.1759	56.6	-19.5199
Al 308.215	-2.5406	ppb	1.7972	70.7	251.402
As 188.980	1.8363	ppb	1.7448	95.0	-3.8470
B 249.678	31.4121	ppb	0.9698	3.1	501.344
Ba 389.178	10.4999	ppb	0.0896	0.9	300.946
Be 313.042	-0.0157	ppb	0.0033	21.3	-263.044
Ca 370.602	26240	ppb	967.9	3.7	81541
Cd 226.502	0.0027	ppb	0.1237	4616.1	15.2599
Co 228.615	0.2924	ppb	0.2256	77.2	0.2237
Cr 267.716	0.1327	ppb	0.0913	68.8	18.6264
Cu 324.754	-0.5539	ppb	0.0697	12.6	111.382
Fe 271.441	566.840	ppb	21.6302	3.8	993.673
K 766.491	529.369	ppb	16.8648	3.2	23122.7
Mg 279.078	22600.3	ppb	891.680	3.9	58333.6
Mn 257.610	6.1983	ppb	0.2371	3.8	1847.35
Mo 202.032	2.3653	ppb	0.4530	19.2	28.1786
Na 330.237	6000.23	ppb	140.981	2.3	277.969
Ni 231.604	1.7016	ppb	0.4559	26.8	2.3879
Pb 220.353	1.6233	ppb	0.6611	40.7	16.9209
Sb 206.834	-0.8009	ppb	2.3771	296.8	6.2921
Se 196.026	-3.5548	ppb	3.4910	98.2	5.6827
Sn 189.925	1.2505	ppb	2.0396	163.1	-11.7415
Sr 216.596	647.518	ppb	25.7403	4.0	9916.50
Ti 334.941	-0.2146	ppb	0.0141	6.6	-30.4533
Tl 190.794	-1.4814	ppb	1.6845	113.7	-9.3741
V 292.401	-0.0039	ppb	0.1994	5177.5	-9.5515
Zn 206.200	-0.1297	ppb	1.4143	1090.8	6.7595

680-97086-r-3-aPDS (Samp)

12/19/2013, 1:49:08 AM

Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7181u	0.7599u	0.5195u
Al 308.215	0.4634	1.0041	0.4114
As 188.980	8.0744	5.3126	-0.1717u
B 249.678	129.812	132.110	134.894
Ba 389.178	46.1985	46.4982	47.0747
Be 313.042	-0.0384u	-0.0349u	-0.0325u
Ca 370.602	114936	115661	117338
Cd 226.502	-0.0033	-0.0516	-0.0157
Co 228.615	-0.2205u	0.2917	-0.3790u
Cr 267.716	0.0500	0.2309	-0.0304u

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-0.2147u	-0.7252u	-0.5800u
Fe 271.441	2389.04	2396.88	2443.67
K 766.491	2552.36	2557.55	2591.21
Mg 279.078	98947.8	99620.9	101134
Mn 257.610	26.2709	26.4158	26.9374
Mo 202.032	9.9151	10.3050	10.3133
Na 330.237	26845.9	27512.8	27734.4
Ni 231.604	5.5781	3.3724	4.8734
Pb 220.353	2.0888	1.4745	0.1449
Sb 206.834	-0.1241u	-2.9216u	-2.0654u
Se 196.026	-4.9219u	2.5468	-7.7146u
Sn 189.925	-0.2636u	1.9039	2.9079
Sr 216.596	2749.62	2770.45	2812.05
Ti 334.941	-1.1890	-1.1971	-1.1790
Tl 190.794	-0.8456u	-3.2429u	-7.3867u
V 292.401	0.5891	0.2298	0.7353
Zn 206.200	1.5958	1.2316	0.5656

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6658	ppb	0.1284	19.3	-102.882
Al 308.215	0.6263	ppb	0.3282	52.4	273.856
As 188.980	4.4051	ppb	4.1973	95.3	-1.9194
B 249.678	132.272	ppb	2.5449	1.9	1898.13
Ba 389.178	46.5905	ppb	0.4453	1.0	1432.00
Be 313.042	-0.0353	ppb	0.0030	8.4	-274.317
Ca 370.602	115978	ppb	1232	1.1	360379
Cd 226.502	-0.0235	ppb	0.0251	106.5	23.3929
Co 228.615	-0.1026	ppb	0.3505	341.7	-5.2167
Cr 267.716	0.0835	ppb	0.1338	160.3	16.7743
Cu 324.754	-0.5067	ppb	0.2630	51.9	115.405
Fe 271.441	2409.86	ppb	29.5356	1.2	4183.42
K 766.491	2567.04	ppb	21.0946	0.8	111167
Mg 279.078	99900.8	ppb	1119.57	1.1	257774
Mn 257.610	26.5414	ppb	0.3505	1.3	7739.98
Mo 202.032	10.1778	ppb	0.2275	2.2	91.2949
Na 330.237	27364.3	ppb	462.465	1.7	1162.70
Ni 231.604	4.6080	ppb	1.1265	24.4	12.7501
Pb 220.353	1.2361	ppb	0.9937	80.4	16.3364
Sb 206.834	-1.7037	ppb	1.4334	84.1	4.8074
Se 196.026	-3.3632	ppb	5.3052	157.7	5.8087
Sn 189.925	1.5161	ppb	1.6209	106.9	-11.4318
Sr 216.596	2777.37	ppb	31.7871	1.1	42502.5
Ti 334.941	-1.1884	ppb	0.0091	0.8	40.3868
Tl 190.794	-3.8251	ppb	3.3092	86.5	-12.6774
V 292.401	0.5181	ppb	0.2602	50.2	5.5061
Zn 206.200	1.1310	ppb	0.5224	46.2	8.6648

680-97086-o-3-a ms (Samp)

12/19/2013, 1:53:54 AM

Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.7068	52.3337	51.3619
Al 308.215	4881.04	4975.98	4861.22
As 188.980	106.510	103.996	113.846

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	330.654	337.915	329.834
Ba 389.178	144.651	148.284	144.520
Be 313.042	49.5021	50.4569	49.3991
Ca 370.602	120390	122902	120285
Cd 226.502	47.9792	49.1354	47.8040
Co 228.615	48.2803	48.5466	48.0560
Cr 267.716	99.8016	101.232	99.3280
Cu 324.754	101.830	103.156	99.4807
Fe 271.441	7288.36	7423.51	7252.02
K 766.491	8046.19	8231.71	8038.55
Mg 279.078	105137	107243	104810
Mn 257.610	523.429	533.318	522.296
Mo 202.032	110.789	112.757	111.822
Na 330.237	33674.9	34096.1	32684.6
Ni 231.604	97.0482	99.8817	96.4905
Pb 220.353	47.3654	48.4468	48.9837
Sb 206.834	44.8401	46.9815	48.8988
Se 196.026	94.4320	93.0212	102.218
Sn 189.925	206.060	210.802	207.022
Sr 216.596	2866.38	2918.68	2856.22
Ti 334.941	94.4484	96.5680	94.3701
Tl 190.794	37.6235	37.2459	34.3972
V 292.401	100.264	102.560	100.331
Zn 206.200	95.2910	99.4002	94.9752

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4675	ppb	0.8186	1.6	4119.62
Al 308.215	4906.08	ppb	61.3372	1.3	34419.6
As 188.980	108.117	ppb	5.1183	4.7	76.8756
B 249.678	332.801	ppb	4.4477	1.3	4672.78
Ba 389.178	145.818	ppb	2.1364	1.5	3962.89
Be 313.042	49.7861	ppb	0.5833	1.2	101898
Ca 370.602	121192	ppb	1481	1.2	376253
Cd 226.502	48.3062	ppb	0.7234	1.5	2507.13
Co 228.615	48.2943	ppb	0.2456	0.5	640.284
Cr 267.716	100.120	ppb	0.9911	1.0	5984.38
Cu 324.754	101.489	ppb	1.8615	1.8	6696.44
Fe 271.441	7321.30	ppb	90.3668	1.2	12690.4
K 766.491	8105.49	ppb	109.380	1.3	350474
Mg 279.078	105730	ppb	1320.69	1.2	272803
Mn 257.610	526.348	ppb	6.0631	1.2	135578
Mo 202.032	111.790	ppb	0.9844	0.9	913.076
Na 330.237	33485.2	ppb	724.645	2.2	1413.53
Ni 231.604	97.8068	ppb	1.8184	1.9	343.339
Pb 220.353	48.2653	ppb	0.8243	1.7	104.733
Sb 206.834	46.9068	ppb	2.0304	4.3	77.7989
Se 196.026	96.5571	ppb	4.9530	5.1	54.0397
Sn 189.925	207.961	ppb	2.5069	1.2	187.568
Sr 216.596	2880.43	ppb	33.5130	1.2	44083.5
Ti 334.941	95.1288	ppb	1.2469	1.3	27691.9
Tl 190.794	36.4222	ppb	1.7638	4.8	39.4657
V 292.401	101.052	ppb	1.3068	1.3	2853.33
Zn 206.200	96.5555	ppb	2.4686	2.6	155.849

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

680-97086-o-3-b msd (Samp) 12/19/2013, 1:58:40 AM Rack 3, Tube 21**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.9887	49.8498	50.8471
Al 308.215	4704.06	4721.19	4706.93
As 188.980	107.225	109.623	101.444
B 249.678	317.941	320.747	319.408
Ba 389.178	140.388	139.873	140.139
Be 313.042	47.7331	47.8628	47.7265
Ca 370.602	114483	115113	115084
Cd 226.502	46.6983	47.1644	46.9359
Co 228.615	46.9500	47.2246	46.7260
Cr 267.716	96.4670	96.7184	96.4636
Cu 324.754	97.3084	97.3385	97.7279
Fe 271.441	7019.12	7026.92	7015.47
K 766.491	7730.42	7721.20	7713.98
Mg 279.078	100446	100681	100151
Mn 257.610	505.278	507.383	506.394
Mo 202.032	107.176	107.825	107.895
Na 330.237	32050.1	31871.5	31646.2
Ni 231.604	94.1261	94.1059	94.5408
Pb 220.353	46.7815	46.6084	48.6986
Sb 206.834	45.7234	46.4919	44.1557
Se 196.026	90.1111	91.4891	91.0235
Sn 189.925	198.317	202.088	197.374
Sr 216.596	2740.77	2748.41	2737.64
Ti 334.941	91.0803	91.4711	91.3933
Tl 190.794	36.8821	37.0227	34.4037
V 292.401	97.1824	97.7416	97.1724
Zn 206.200	90.6042	93.8634	93.3185

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.2285	ppb	0.5402	1.1	4023.38
Al 308.215	4710.73	ppb	9.1779	0.2	33059.7
As 188.980	106.098	ppb	4.2045	4.0	75.3430
B 249.678	319.365	ppb	1.4032	0.4	4486.81
Ba 389.178	140.133	ppb	0.2573	0.2	3803.60
Be 313.042	47.7741	ppb	0.0769	0.2	97769.8
Ca 370.602	114893	ppb	355.9	0.3	356692
Cd 226.502	46.9329	ppb	0.2331	0.5	2435.76
Co 228.615	46.9668	ppb	0.2497	0.5	622.584
Cr 267.716	96.5497	ppb	0.1462	0.2	5771.30
Cu 324.754	97.4583	ppb	0.2340	0.2	6436.32
Fe 271.441	7020.50	ppb	5.8479	0.1	12169.7
K 766.491	7721.87	ppb	8.2401	0.1	333899
Mg 279.078	100426	ppb	265.899	0.3	259118
Mn 257.610	506.352	ppb	1.0534	0.2	130417
Mo 202.032	107.632	ppb	0.3964	0.4	879.459
Na 330.237	31855.9	ppb	202.413	0.6	1346.15
Ni 231.604	94.2576	ppb	0.2455	0.3	330.745
Pb 220.353	47.3628	ppb	1.1601	2.4	103.024
Sb 206.834	45.4570	ppb	1.1907	2.6	75.6239
Se 196.026	90.8745	ppb	0.7010	0.8	51.2988
Sn 189.925	199.259	ppb	2.4944	1.3	179.177
Sr 216.596	2742.27	ppb	5.5364	0.2	41969.6

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	91.3149	ppb	0.2069	0.2	26573.4
Tl 190.794	36.1028	ppb	1.4732	4.1	39.0873
V 292.401	97.3655	ppb	0.3258	0.3	2748.79
Zn 206.200	92.5954	ppb	1.7458	1.9	149.741

680-97094-c-1-a (Samp) 12/19/2013, 2:03:27 AM Rack 3, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4657u	0.5044u	0.4965u
Al 308.215	13.5552	13.1977	11.1072
As 188.980	-1.4208u	3.9356	1.7220
B 249.678	966.544	968.271	969.777
Ba 389.178	21.4404	21.4800	21.4158
Be 313.042	0.1480u	0.1465u	0.1351u
Ca 370.602	90576	90747	91027
Cd 226.502	0.3761	0.4280	0.3905
Co 228.615	-0.1508u	0.6244	-0.1157u
Cr 267.716	-0.6994	-1.0497	-1.0733u
Cu 324.754	0.6349	0.4454	0.4315
Fe 271.441	19.3397	17.0266	17.9960
K 766.491	141921x	141786x	141005x
Mg 279.078	271500	271658	271933
Mn 257.610	69.1265	68.9668	69.1811
Mo 202.032	1.7702	1.1537	1.7015
Na 330.237	3238588x	3242758x	3229127x
Ni 231.604	5.0199	6.5091	5.3139
Pb 220.353	1.4329	0.7075	3.8856
Sb 206.834	2.0208	-0.0417u	-4.1519u
Se 196.026	7.6415	8.5482	13.9611
Sn 189.925	-3.1603u	-0.2375	-0.8490
Sr 216.596	1584.27	1583.78	1588.77
Ti 334.941	-3.8473u	-3.7769u	-3.7750u
Tl 190.794	-1.2662u	-9.1534u	-4.1481u
V 292.401	2.6713	2.4510	2.5821
Zn 206.200	0.4606	3.3874	2.8722

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4889b	ppb	0.0204	4.2	-57.4263
Al 308.215	12.6200b	ppb	1.3223	10.5	356.672
As 188.980	1.4123b	ppb	2.6916	190.6	-4.1624
B 249.678	968.197b	ppb	1.6178	0.2	13509.3
Ba 389.178	21.4454b	ppb	0.0324	0.2	1273.60
Be 313.042	0.1432b	ppb	0.0070	4.9	-286.258
Ca 370.602	90783b	ppb	227.7	0.3	282248
Cd 226.502	0.3982b	ppb	0.0268	6.7	15.5107
Co 228.615	0.1193b	ppb	0.4378	367.0	-1.9759
Cr 267.716	-0.9408b	ppb	0.2094	22.3	17.6793
Cu 324.754	0.5040b	ppb	0.1136	22.5	179.335
Fe 271.441	18.1208b	ppb	1.1616	6.4	43.9917
K 766.491	141571xb	ppb	494.346	0.3	6117276
Mg 279.078	271697b	ppb	218.870	0.1	701021
Mn 257.610	69.0915b	ppb	0.1114	0.2	20113.0
Mo 202.032	1.5418b	ppb	0.3379	21.9	21.5408

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	3236825xb	ppb	6984.31	0.2	134136
Ni 231.604	5.6143b	ppb	0.7887	14.0	16.2518
Pb 220.353	2.0087b	ppb	1.6655	82.9	17.6199
Sb 206.834	-0.7243b	ppb	3.1424	433.9	6.4030
Se 196.026	10.0503b	ppb	3.4171	34.0	12.2323
Sn 189.925	-1.4156b	ppb	1.5416	108.9	-13.1077
Sr 216.596	1585.60b	ppb	2.7499	0.2	24270.2
Ti 334.941	-3.7997b	ppb	0.0412	1.1	-154.514
Tl 190.794	-4.8559b	ppb	3.9909	82.2	-13.7917
V 292.401	2.5681b	ppb	0.1108	4.3	43.4062
Zn 206.200	2.2400b	ppb	1.5625	69.8	10.4331

680-97094-c-2-a (Samp)

12/19/2013, 2:08:14 AM

Rack 3, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5944u	0.4481u	0.3791u
Al 308.215	13.7865	13.2619	12.6193
As 188.980	0.4506	6.4426	4.1268
B 249.678	877.065	879.092	881.855
Ba 389.178	30.5720	30.7651	31.1905
Be 313.042	0.1307u	0.1275u	0.1248u
Ca 370.602	89876	90216	90235
Cd 226.502	0.4021	0.5244	0.4612
Co 228.615	0.2923	-0.6835u	0.2835
Cr 267.716	-1.0340u	-0.7901	-0.9263
Cu 324.754	1.0111	0.8174	0.5025
Fe 271.441	10.5495	22.0433	16.9285
K 766.491	130718x	130620x	130569x
Mg 279.078	254503	254643	253620
Mn 257.610	228.763	230.115	229.734
Mo 202.032	1.2883	1.7903	1.6005
Na 330.237	2982511x	2990645x	2988232x
Ni 231.604	5.4801	3.9870	5.3447
Pb 220.353	2.0208	0.2752	-0.6708u
Sb 206.834	1.0606	-2.3698u	2.9984
Se 196.026	12.2197	3.1391	5.1368
Sn 189.925	2.5356	-2.4240u	-6.2114u
Sr 216.596	1484.95	1496.03	1492.65
Ti 334.941	-3.2618	-3.2170	-3.2518
Tl 190.794	-2.8229u	-7.0196u	-6.5989u
V 292.401	1.8950	1.9390	1.9636
Zn 206.200	7.9364	4.0740	3.9554

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4739b	ppb	0.1100	23.2	-52.5009
Al 308.215	13.2226b	ppb	0.5846	4.4	360.945
As 188.980	3.6733b	ppb	3.0216	82.3	-2.4438
B 249.678	879.337b	ppb	2.4045	0.3	12275.5
Ba 389.178	30.8425b	ppb	0.3164	1.0	1462.74
Be 313.042	0.1277b	ppb	0.0030	2.3	-289.660
Ca 370.602	90109b	ppb	202.1	0.2	280156
Cd 226.502	0.4626b	ppb	0.0612	13.2	20.1845
Co 228.615	-0.0359b	ppb	0.5608	1561.1	-4.0483

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.9168b	ppb	0.1222	13.3	15.0997
Cu 324.754	0.7770b	ppb	0.2567	33.0	196.949
Fe 271.441	16.5071b	ppb	5.7585	34.9	41.1760
K 766.491	130636xb	ppb	75.8100	0.1	5644792
Mg 279.078	254255b	ppb	554.577	0.2	656016
Mn 257.610	229.537b	ppb	0.6970	0.3	60978.6
Mo 202.032	1.5597b	ppb	0.2535	16.3	21.6871
Na 330.237	2987129xb	ppb	4177.92	0.1	123791
Ni 231.604	4.9373b	ppb	0.8258	16.7	13.8509
Pb 220.353	0.5417b	ppb	1.3655	252.1	14.9076
Sb 206.834	0.5631b	ppb	2.7184	482.8	8.3291
Se 196.026	6.8319b	ppb	4.7717	69.8	10.7243
Sn 189.925	-2.0333b	ppb	4.3866	215.7	-13.7946
Sr 216.596	1491.21b	ppb	5.6747	0.4	22826.7
Ti 334.941	-3.2436b	ppb	0.0235	0.7	-55.4996
Tl 190.794	-5.4805b	ppb	2.3111	42.2	-14.7127
V 292.401	1.9325b	ppb	0.0348	1.8	26.8832
Zn 206.200	5.3219b	ppb	2.2650	42.6	15.1949

CRI^2 (Samp)

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Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.0415	4.5217	5.0845
Al 308.215	94.8452	94.3662	94.5339
As 188.980	12.6658	15.5234	9.4705
B 249.678	52.2889	51.2386	51.9922
Ba 389.178	4.8344	5.2700	5.0718
Be 313.042	1.9081	1.8968	1.9010
Ca 370.602	249.3	246.5	251.7
Cd 226.502	2.4434	2.3833	2.4204
Co 228.615	4.4585	5.8475	4.8572
Cr 267.716	4.9401	4.9032	5.0170
Cu 324.754	9.0784	8.7136	9.0200
Fe 271.441	22.8630	29.8021	33.4386
K 766.491	463.778	457.940	460.551
Mg 279.078	267.501	264.801	263.484
Mn 257.610	4.8931	4.8454	4.8671
Mo 202.032	4.8798	4.7548	4.5165
Na 330.237	561.097	812.280	776.037
Ni 231.604	18.6527	20.2788	20.7721
Pb 220.353	6.3482	3.8701	5.7092
Sb 206.834	9.3688	5.7843	7.5919
Se 196.026	13.2957	9.7094	4.1151
Sn 189.925	26.0002	24.0750	25.5058
Sr 216.596	4.8322	4.7317	4.9019
Ti 334.941	4.7217	4.6625	4.7482
Tl 190.794	12.6604	11.1459	10.2094
V 292.401	4.5590	4.8772	4.4914
Zn 206.200	9.5714	9.0277	9.9388

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.8825	ppb	0.3132	6.4	395.014
Al 308.215	94.5818	ppb	0.2431	0.3	927.116

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	12.5533	ppb	3.0280	24.1	4.3054
B 249.678	51.8399	ppb	0.5415	1.0	786.016
Ba 389.178	5.0588	ppb	0.2181	4.3	100.152
Be 313.042	1.9020	ppb	0.0057	0.3	3661.41
Ca 370.602	249.2	ppb	2.584	1.0	785.8
Cd 226.502	2.4157	ppb	0.0303	1.3	135.395
Co 228.615	5.0544	ppb	0.7152	14.1	63.7841
Cr 267.716	4.9534	ppb	0.0581	1.2	305.721
Cu 324.754	8.9373	ppb	0.1959	2.2	723.205
Fe 271.441	28.7012	ppb	5.3731	18.7	62.8777
K 766.491	460.756	ppb	2.9240	0.6	20158.0
Mg 279.078	265.262	ppb	2.0476	0.8	707.496
Mn 257.610	4.8685	ppb	0.0239	0.5	1307.56
Mo 202.032	4.7170	ppb	0.1845	3.9	47.2300
Na 330.237	716.471	ppb	135.773	19.0	59.0190
Ni 231.604	19.9012	ppb	1.1090	5.6	66.9150
Pb 220.353	5.3092	ppb	1.2866	24.2	23.7807
Sb 206.834	7.5816	ppb	1.7923	23.6	18.8967
Se 196.026	9.0401	ppb	4.6268	51.2	11.7286
Sn 189.925	25.1937	ppb	0.9998	4.0	11.3225
Sr 216.596	4.8219	ppb	0.0856	1.8	83.0369
Ti 334.941	4.7108	ppb	0.0439	0.9	1281.03
Tl 190.794	11.3386	ppb	1.2368	10.9	7.5429
V 292.401	4.6425	ppb	0.2060	4.4	121.927
Zn 206.200	9.5126	ppb	0.4584	4.8	21.6630

Cont Calib Verif (CCV)

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Rack 3, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	483.480	481.882	480.909
Al 308.215	4634.21	4648.98	4648.19
As 188.980	493.269	494.925	488.833
B 249.678	469.201	475.867	476.931
Ba 389.178	4895.66	4915.13	4913.01
Be 313.042	481.945	483.143	482.320
Ca 370.602	4607	4620	4623
Cd 226.502	483.136	486.346	486.516
Co 228.615	486.124	487.661	488.486
Cr 267.716	4868.23	4890.34	4888.20
Cu 324.754	4826.40	4801.90	4803.59
Fe 271.441	4868.00	4894.74	4885.80
K 766.491	9430.29	9441.59	9402.78
Mg 279.078	4914.31	4955.02	4950.98
Mn 257.610	4790.91	4810.36	4805.41
Mo 202.032	497.977	501.444	501.768
Na 330.237	7088.23	7464.90	7542.63
Ni 231.604	2330.09	2366.47	2354.85
Pb 220.353	468.727	471.675	472.258
Sb 206.834	918.104	932.554	929.644
Se 196.026	4718.83	4768.34	4723.91
Sn 189.925	4906.31	4957.15	4928.31
Sr 216.596	2442.66	2461.41	2460.66
Ti 334.941	465.421	466.115	465.792

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Label	Replicates Concentration		
Tl 190.794	4826.52	4882.57	4870.68
V 292.401	4865.50	4889.47	4889.79
Zn 206.200	2408.05	2420.42	2410.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	482.091	ppb	1.2981	0.3	40029.4	96.41812
Al 308.215	4643.79	ppb	8.3064	0.2	32021.0	92.87584
As 188.980	492.342	ppb	3.1498	0.6	368.807	98.46849
B 249.678	474.000	ppb	4.1899	0.9	6637.83	94.79991
Ba 389.178	4907.93	ppb	10.6837	0.2	123949	98.15867
Be 313.042	482.469	ppb	0.6128	0.1	991029	96.49388
Ca 370.602	4616	ppb	8.612	0.2	14408	92.32542
Cd 226.502	485.333	ppb	1.9045	0.4	24753.6	97.06652
Co 228.615	487.424	ppb	1.1990	0.2	6511.32	97.48473
Cr 267.716	4882.26	ppb	12.1960	0.2	291083	97.64513
Cu 324.754	4810.63	ppb	13.6841	0.3	310299	96.21262
Fe 271.441	4882.85	ppb	13.6126	0.3	8579.70	97.65701
K 766.491	9424.89	ppb	19.9597	0.2	407483	94.24887
Mg 279.078	4940.10	ppb	22.4286	0.5	12671.1	98.80207
Mn 257.610	4802.22	ppb	10.1060	0.2	1227767	96.04449
Mo 202.032	500.396	ppb	2.1013	0.4	4047.84	100.07930
Na 330.237	7365.25	ppb	243.038	3.3	297.382	98.20335
Ni 231.604	2350.47	ppb	18.5820	0.8	8332.44	94.01878
Pb 220.353	470.887	ppb	1.8931	0.4	897.347	94.17731
Sb 206.834	926.767	ppb	7.6425	0.8	1481.92	92.67672
Se 196.026	4737.02	ppb	27.2402	0.6	2285.80	94.74050
Sn 189.925	4930.59	ppb	25.5002	0.5	4739.70	98.61178
Sr 216.596	2454.91	ppb	10.6149	0.4	37478.9	98.19650
Ti 334.941	465.776	ppb	0.3472	0.1	133541	93.15526
Tl 190.794	4859.92	ppb	29.5348	0.6	6378.18	97.19849
V 292.401	4881.58	ppb	13.9315	0.3	138882	97.63167
Zn 206.200	2413.16	ppb	6.4639	0.3	3728.54	96.52622

Cont Calib Blank (CCB)

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Rack 3, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2472u	-0.0472u	-0.1850u
Al 308.215	-5.9720u	-5.5568u	-5.3139u
As 188.980	3.5099	3.7180	1.5833
B 249.678	4.0528	3.4674	2.9005
Ba 389.178	0.4434	0.1917	0.7209
Be 313.042	0.0027	0.0007	0.0064
Ca 370.602	5.383	4.536	3.023
Cd 226.502	-0.0553u	-0.0130u	0.1557
Co 228.615	-0.2498u	0.3717	0.2508
Cr 267.716	0.0684	0.2064	-0.0525u
Cu 324.754	-0.4687u	-0.3968u	-0.6266u
Fe 271.441	13.5397	3.7124	4.4547
K 766.491	1.9979	2.0286	1.9429
Mg 279.078	3.4164	4.7058	7.6458
Mn 257.610	0.0360	0.0316	0.0213
Mo 202.032	0.9560	0.6185	0.5146
Na 330.237	-93.1262u	143.667	13.4523

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Label	Replicates Concentration		
Ni 231.604	0.0494	-0.8220u	0.0783
Pb 220.353	2.3198	-1.4678u	-0.7865u
Sb 206.834	-0.2338u	0.1840	0.9789
Se 196.026	0.9788	0.2460	-7.4695u
Sn 189.925	0.7530	1.7450	2.1431
Sr 216.596	-0.1572u	-0.2957u	0.2674
Ti 334.941	0.1910	0.1746	0.1499
Tl 190.794	2.6548	0.8731	4.8556
V 292.401	-0.1194u	0.4937	0.3754
Zn 206.200	-0.8067u	-1.3279u	-0.1445u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1598	ppb	0.1024	64.1	-24.3319	-0.15979
Al 308.215	-5.6142	ppb	0.3328	5.9	229.874	-5.61421
As 188.980	2.9371	ppb	1.1770	40.1	-3.0031	2.93706
B 249.678	3.4736	ppb	0.5762	16.6	114.533	3.47356
Ba 389.178	0.4520	ppb	0.2647	58.6	-16.9878	0.45199
Be 313.042	0.0033	ppb	0.0029	87.7	-232.591	0.00327
Ca 370.602	4.314	ppb	1.196	27.7	23.82	4.31393
Cd 226.502	0.0291	ppb	0.1117	383.2	13.7306	0.02914
Co 228.615	0.1243	ppb	0.3295	265.2	-1.9884	0.12425
Cr 267.716	0.0741	ppb	0.1295	174.8	14.8079	0.07410
Cu 324.754	-0.4974	ppb	0.1175	23.6	114.746	-0.49738
Fe 271.441	7.2356	ppb	5.4721	75.6	25.1316	7.23560
K 766.491	1.9898	ppb	0.0434	2.2	335.492	1.98981
Mg 279.078	5.2560	ppb	2.1677	41.2	36.7952	5.25603
Mn 257.610	0.0296	ppb	0.0075	25.3	68.1601	0.02964
Mo 202.032	0.6964	ppb	0.2308	33.1	14.7045	0.69638
Na 330.237	21.3309	ppb	118.593	556.0	30.3930	21.33091
Ni 231.604	-0.2314	ppb	0.5117	221.1	-4.4841	-0.23142
Pb 220.353	0.0218	ppb	2.0191	9241.6	13.8728	0.02185
Sb 206.834	0.3097	ppb	0.6160	198.9	7.9774	0.30968
Se 196.026	-2.0816	ppb	4.6804	224.9	6.3806	-2.08157
Sn 189.925	1.5470	ppb	0.7159	46.3	-11.4712	1.54703
Sr 216.596	-0.0618	ppb	0.2934	474.7	8.9645	-0.06181
Ti 334.941	0.1718	ppb	0.0207	12.0	-21.9227	0.17185
Tl 190.794	2.7945	ppb	1.9949	71.4	-3.6889	2.79453
V 292.401	0.2499	ppb	0.3253	130.2	-2.4798	0.24991
Zn 206.200	-0.7597	ppb	0.5931	78.1	5.7991	-0.75969

mb 680-308059/1-a (Samp)

12/19/2013, 2:27:20 AM

Rack 3, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0013	0.0895	-0.2162u
Al 308.215	-6.3200u	-4.6667u	-6.4775u
As 188.980	1.9969	2.0535	1.7796
B 249.678	1.6726	1.5383	1.8810
Ba 389.178	-0.3819u	-0.2366u	-0.7518u
Be 313.042	-0.0028u	-0.0165u	-0.0120u
Ca 370.602	3.272	1.690	1.526
Cd 226.502	0.0248	-0.0257u	0.1234
Co 228.615	0.2386	0.3489	0.0012
Cr 267.716	-0.0383u	0.2397	0.0059

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Label	Replicates Concentration		
Cu 324.754	-0.5412u	-0.2257u	-0.7069u
Fe 271.441	4.4972	-0.7062u	4.3556
K 766.491	0.7310	1.4713	0.8694
Mg 279.078	1.1599	4.3869	-2.5175u
Mn 257.610	-0.0639u	-0.0835u	-0.0793u
Mo 202.032	-0.0106u	0.0316	0.1309
Na 330.237	139.038	156.852	-101.673u
Ni 231.604	-0.0635u	-0.2944u	0.5257
Pb 220.353	1.3211	-0.1284u	1.2540
Sb 206.834	-1.5030u	-1.3203u	-1.3443u
Se 196.026	-1.4732u	-2.4806u	-5.8599u
Sn 189.925	-0.5366u	3.1293	2.2405
Sr 216.596	-0.3175u	-0.0252u	0.3587
Ti 334.941	0.0320	0.0681	0.0945
Tl 190.794	0.1794	-2.3987u	-3.5287u
V 292.401	-0.2345u	-0.2855u	0.1007
Zn 206.200	0.5670	-1.1163u	-0.3949u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0418	ppb	0.1573	376.2	-14.5242
Al 308.215	-5.8214	ppb	1.0031	17.2	228.440
As 188.980	1.9433	ppb	0.1446	7.4	-3.7581
B 249.678	1.6973	ppb	0.1727	10.2	89.8752
Ba 389.178	-0.4568	ppb	0.2656	58.2	-39.9583
Be 313.042	-0.0104	ppb	0.0070	66.8	-260.732
Ca 370.602	2.163	ppb	0.9640	44.6	17.27
Cd 226.502	0.0408	ppb	0.0759	185.8	14.3151
Co 228.615	0.1962	ppb	0.1777	90.5	-1.0083
Cr 267.716	0.0691	ppb	0.1494	216.2	14.5148
Cu 324.754	-0.4913	ppb	0.2445	49.8	115.117
Fe 271.441	2.7155	ppb	2.9641	109.2	17.3118
K 766.491	1.0239	ppb	0.3936	38.4	293.756
Mg 279.078	1.0098	ppb	3.4546	342.1	25.8416
Mn 257.610	-0.0756	ppb	0.0103	13.7	41.2185
Mo 202.032	0.0506	ppb	0.0727	143.5	9.4801
Na 330.237	64.7391	ppb	144.392	223.0	32.1814
Ni 231.604	0.0559	ppb	0.4229	756.1	-3.4652
Pb 220.353	0.8156	ppb	0.8182	100.3	15.3625
Sb 206.834	-1.3892	ppb	0.0993	7.1	5.4496
Se 196.026	-3.2712	ppb	2.2977	70.2	5.8087
Sn 189.925	1.6111	ppb	1.9123	118.7	-11.4095
Sr 216.596	0.0053	ppb	0.3391	6360.7	9.9877
Ti 334.941	0.0649	ppb	0.0314	48.4	-52.6330
Tl 190.794	-1.9160	ppb	1.9006	99.2	-9.8769
V 292.401	-0.1398	ppb	0.2098	150.1	-13.4737
Zn 206.200	-0.3147	ppb	0.8445	268.3	6.4866

lcs 680-308059/2-a (Samp) 12/19/2013, 2:32:07 AM Rack 3, Tube 28

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	94.8485	95.1833	94.7985
Al 308.215	9113.78	9126.84	9101.18
As 188.980	194.567	191.686	198.746

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Label	Replicates Concentration		
B 249.678	370.899	372.484	375.550
Ba 389.178	194.381	194.693	194.322
Be 313.042	96.0396	96.1488	95.9390
Ca 370.602	9359	9356	9288
Cd 226.502	95.6896	95.8536	95.0664
Co 228.615	95.8274	95.7052	95.1887
Cr 267.716	197.304	197.267	196.704
Cu 324.754	191.047	190.963	191.491
Fe 271.441	9662.71	9681.31	9656.99
K 766.491	9241.24	9267.74	9247.48
Mg 279.078	9629.36	9647.89	9635.94
Mn 257.610	980.063	980.176	975.329
Mo 202.032	199.210	199.005	197.864
Na 330.237	10237.7	9978.06	10277.2
Ni 231.604	189.177	186.896	188.280
Pb 220.353	94.0900	91.0010	90.5413
Sb 206.834	90.7896	91.7051	89.8144
Se 196.026	187.601	192.779	193.583
Sn 189.925	396.144	400.837	397.154
Sr 216.596	193.458	193.152	192.030
Ti 334.941	188.808	188.990	188.180
Tl 190.794	73.1849	76.6756	77.5483
V 292.401	196.907	196.971	196.929
Zn 206.200	187.697	191.478	190.993

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	94.9434	ppb	0.2092	0.2	7880.89
Al 308.215	9113.93	ppb	12.8342	0.1	63708.2
As 188.980	195.000	ppb	3.5498	1.8	142.907
B 249.678	372.977	ppb	2.3643	0.6	5226.04
Ba 389.178	194.465	ppb	0.1993	0.1	4926.77
Be 313.042	96.0425	ppb	0.1049	0.1	196722
Ca 370.602	9334	ppb	39.95	0.4	28369
Cd 226.502	95.5365	ppb	0.4153	0.4	4921.76
Co 228.615	95.5737	ppb	0.3390	0.4	1271.14
Cr 267.716	197.091	ppb	0.3362	0.2	11767.6
Cu 324.754	191.167	ppb	0.2834	0.1	12481.7
Fe 271.441	9667.01	ppb	12.7160	0.1	16756.7
K 766.491	9252.16	ppb	13.8550	0.1	400020
Mg 279.078	9637.73	ppb	9.3922	0.1	24866.3
Mn 257.610	978.522	ppb	2.7665	0.3	250326
Mo 202.032	198.693	ppb	0.7250	0.4	1615.99
Na 330.237	10164.3	ppb	162.500	1.6	445.148
Ni 231.604	188.118	ppb	1.1491	0.6	663.615
Pb 220.353	91.8774	ppb	1.9299	2.1	186.540
Sb 206.834	90.7697	ppb	0.9455	1.0	143.852
Se 196.026	191.321	ppb	3.2468	1.7	99.7405
Sn 189.925	398.045	ppb	2.4704	0.6	370.726
Sr 216.596	192.880	ppb	0.7520	0.4	2969.11
Ti 334.941	188.659	ppb	0.4252	0.2	54082.8
Tl 190.794	75.8029	ppb	2.3089	3.0	90.7892
V 292.401	196.936	ppb	0.0325	0.0	5569.11
Zn 206.200	190.056	ppb	2.0572	1.1	300.123

E12182013.vvq. All Data Report 12/19/2013, 11:30:38 AM

lb 680-307802/27-b (Samp) 12/19/2013, 2:36:54 AM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0575	-0.0244u	-0.2363u
Al 308.215	23.5853	21.6517	23.1292
As 188.980	0.4764	0.1284	-0.8503u
B 249.678	224.508	227.502	226.706
Ba 389.178	5.6333	5.3448	5.8446
Be 313.042	-0.0072u	-0.0064u	0.0006u
Ca 370.602	1674	1704	1686
Cd 226.502	0.1339	-0.0149u	0.2879
Co 228.615	-0.1138u	0.1620	0.2830
Cr 267.716	1.0080	1.0513	0.9511
Cu 324.754	1.5196	1.4446	1.3463
Fe 271.441	44.9278	44.0467	45.0087
K 766.491	352.186	360.669	357.346
Mg 279.078	322.083	325.260	322.692
Mn 257.610	6.7453	6.8792	6.8553
Mo 202.032	-0.0534u	0.4037	-0.2890u
Na 330.237	39511.4	39979.9	39708.6
Ni 231.604	1.5743	1.1586	0.5201
Pb 220.353	0.7202	1.1171	-0.5876u
Sb 206.834	-0.8111u	-1.8286u	-2.1396u
Se 196.026	5.6989	-5.6514u	3.6779
Sn 189.925	-1.6011u	-0.6145u	2.3425
Sr 216.596	2.8321	3.0294	2.9589
Ti 334.941	0.4887	0.5060	0.4775
Tl 190.794	-1.5320u	0.2430	-3.7225u
V 292.401	-0.3751u	-0.0158u	0.1781
Zn 206.200	8.5752	7.7816	8.2586

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0678	ppb	0.1516	223.7	-16.8114
Al 308.215	22.7887	ppb	1.0108	4.4	427.620
As 188.980	-0.0818	ppb	0.6879	840.8	-5.2975
B 249.678	226.239	ppb	1.5506	0.7	3207.39
Ba 389.178	5.6076	ppb	0.2509	4.5	114.159
Be 313.042	-0.0044	ppb	0.0043	98.5	-252.023
Ca 370.602	1688	ppb	15.30	0.9	5255
Cd 226.502	0.1356	ppb	0.1514	111.6	19.0759
Co 228.615	0.1104	ppb	0.2034	184.2	-2.1353
Cr 267.716	1.0034	ppb	0.0503	5.0	71.0438
Cu 324.754	1.4368	ppb	0.0869	6.0	239.461
Fe 271.441	44.6611	ppb	0.5336	1.2	89.9009
K 766.491	356.734	ppb	4.2743	1.2	15663.4
Mg 279.078	323.345	ppb	1.6860	0.5	857.342
Mn 257.610	6.8266	ppb	0.0714	1.0	1808.51
Mo 202.032	0.0204	ppb	0.3522	1725.7	9.2329
Na 330.237	39733.3	ppb	235.208	0.6	1675.59
Ni 231.604	1.0843	ppb	0.5310	49.0	0.1842
Pb 220.353	0.4166	ppb	0.8920	214.1	14.6184
Sb 206.834	-1.5931	ppb	0.6948	43.6	5.1610
Se 196.026	1.2418	ppb	6.0547	487.6	7.9805
Sn 189.925	0.0423	ppb	2.0522	4852.1	-12.9064
Sr 216.596	2.9401	ppb	0.1000	3.4	55.1783

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.4907	ppb	0.0143	2.9	68.2077
Tl 190.794	-1.6705	ppb	1.9864	118.9	-9.5637
V 292.401	-0.0710	ppb	0.2807	395.6	-11.8143
Zn 206.200	8.2051	ppb	0.3995	4.9	19.6480

660-57603-a-196-d (Samp) 12/19/2013, 2:41:41 AM Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1695	-0.2882u	0.3095
Al 308.215	3482.47	3502.79	3471.69
As 188.980	41.6100	36.9907	31.9855
B 249.678	171.449	172.772	172.049
Ba 389.178	22.2592	22.6289	22.8994
Be 313.042	0.0382	0.0363	0.0352
Ca 370.602	3651	3655	3619
Cd 226.502	0.7212	0.6234	0.6574
Co 228.615	-0.0371u	0.3312	0.3198
Cr 267.716	5.4169	5.2870	5.3056
Cu 324.754	22.2219	21.7610	21.3583
Fe 271.441	748.693	754.206	750.311
K 766.491	137.380	138.024	136.215
Mg 279.078	401.554	405.324	398.101
Mn 257.610	2.5452	2.5121	2.4562
Mo 202.032	0.8492	0.2361	-0.0694u
Na 330.237	4137.28	4182.70	4220.63
Ni 231.604	2.1372	1.3348	2.7840
Pb 220.353	5.2854	4.7974	5.1798
Sb 206.834	-2.3882u	-0.0647	-3.4676u
Se 196.026	0.2463	-4.2651u	3.1918
Sn 189.925	0.6218	0.6219	0.5477
Sr 216.596	49.1451	48.6672	48.9187
Ti 334.941	6.1885	5.7611	5.7802
Tl 190.794	1.8140	-1.6047u	-3.4712u
V 292.401	3.1229	3.2050	3.0266
Zn 206.200	26.6420	27.1373	24.2501

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0636	ppb	0.3126	491.4	-8.5736
Al 308.215	3485.65	ppb	15.7896	0.5	24536.1
As 188.980	36.8621	ppb	4.8135	13.1	22.8160
B 249.678	172.090	ppb	0.6623	0.4	2454.19
Ba 389.178	22.5958	ppb	0.3214	1.4	544.549
Be 313.042	0.0366	ppb	0.0016	4.3	-161.643
Ca 370.602	3642	ppb	19.67	0.5	11274
Cd 226.502	0.6673	ppb	0.0496	7.4	49.5791
Co 228.615	0.2046	ppb	0.2094	102.3	-0.6952
Cr 267.716	5.3365	ppb	0.0703	1.3	328.912
Cu 324.754	21.7804	ppb	0.4321	2.0	1551.48
Fe 271.441	751.070	ppb	2.8340	0.4	1312.56
K 766.491	137.206	ppb	0.9170	0.7	6177.98
Mg 279.078	401.660	ppb	3.6126	0.9	1058.20
Mn 257.610	2.5045	ppb	0.0450	1.8	706.663
Mo 202.032	0.3386	ppb	0.4678	138.1	11.7615

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4180.20	ppb	41.7271	1.0	202.128
Ni 231.604	2.0853	ppb	0.7260	34.8	3.7561
Pb 220.353	5.0876	ppb	0.2568	5.0	23.3590
Sb 206.834	-1.9735	ppb	1.7389	88.1	4.6881
Se 196.026	-0.2757	ppb	3.7558	1362.5	7.2608
Sn 189.925	0.5972	ppb	0.0428	7.2	-12.3834
Sr 216.596	48.9104	ppb	0.2391	0.5	759.698
Ti 334.941	5.9100	ppb	0.2414	4.1	1625.61
Tl 190.794	-1.0873	ppb	2.6803	246.5	-8.8710
V 292.401	3.1181	ppb	0.0893	2.9	79.4690
Zn 206.200	26.0098	ppb	1.5439	5.9	47.1347

660-57603-a-196-dSD^ (Samp) 12/19/2013, 2:46:28 AM Rack 3, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1622u	-0.1147u	-0.2584u
Al 308.215	802.773	798.059	788.195
As 188.980	10.5518	7.3839	10.8754
B 249.678	41.0507	40.8167	40.1028
Ba 389.178	5.7552	4.5295	4.7213
Be 313.042	0.0044	0.0044	0.0028
Ca 370.602	852.4	844.6	828.7
Cd 226.502	0.1096	0.1384	0.2975
Co 228.615	0.2718	0.0815	-0.2315u
Cr 267.716	1.3401	1.2902	1.3811
Cu 324.754	4.7650	4.5363	4.0769
Fe 271.441	180.823	172.017	164.877
K 766.491	32.9551	32.8664	32.2107
Mg 279.078	98.8905	95.3711	94.0369
Mn 257.610	0.5331	0.4970	0.5380
Mo 202.032	-0.0427u	-0.1820u	0.0033
Na 330.237	1071.38	1093.97	739.261
Ni 231.604	0.5146	1.1489	0.3531
Pb 220.353	2.0832	1.4113	1.6166
Sb 206.834	-0.2678u	0.1706	-2.8826u
Se 196.026	5.2227	-4.3069u	-1.1115u
Sn 189.925	3.8024	0.4526	1.2792
Sr 216.596	10.9017	11.4867	10.9774
Ti 334.941	1.3415	1.3691	1.3809
Tl 190.794	-2.2136u	-3.3198u	-3.4271u
V 292.401	0.7137	0.8752	0.4586
Zn 206.200	5.4136	5.6666	4.8389

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1784	ppb	0.0732	41.0	-26.5412
Al 308.215	796.342	ppb	7.4394	0.9	5813.09
As 188.980	9.6037	ppb	1.9292	20.1	2.0720
B 249.678	40.6568	ppb	0.4938	1.2	630.461
Ba 389.178	5.0020	ppb	0.6593	13.2	98.4451
Be 313.042	0.0038	ppb	0.0009	24.1	-230.834
Ca 370.602	841.9	ppb	12.04	1.4	2614
Cd 226.502	0.1819	ppb	0.1012	55.7	22.2745
Co 228.615	0.0406	ppb	0.2542	626.2	-3.0346

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1.3371	ppb	0.0455	3.4	90.1938
Cu 324.754	4.4594	ppb	0.3504	7.9	434.397
Fe 271.441	172.573	ppb	7.9873	4.6	311.283
K 766.491	32.6774	ppb	0.4066	1.2	1661.45
Mg 279.078	96.0995	ppb	2.5075	2.6	270.870
Mn 257.610	0.5227	ppb	0.0224	4.3	195.546
Mo 202.032	-0.0738	ppb	0.0965	130.7	8.4616
Na 330.237	968.204	ppb	198.592	20.5	69.4864
Ni 231.604	0.6722	ppb	0.4206	62.6	-1.2734
Pb 220.353	1.7037	ppb	0.3443	20.2	17.0250
Sb 206.834	-0.9933	ppb	1.6508	166.2	6.0750
Se 196.026	-0.0652	ppb	4.8502	7436.3	7.3527
Sn 189.925	1.8447	ppb	1.7451	94.6	-11.1835
Sr 216.596	11.1219	ppb	0.3182	2.9	180.426
Ti 334.941	1.3639	ppb	0.0202	1.5	320.366
Tl 190.794	-2.9868	ppb	0.6717	22.5	-11.3032
V 292.401	0.6825	ppb	0.2100	30.8	10.0136
Zn 206.200	5.3064	ppb	0.4241	8.0	15.1657

660-57603-a-196-dPDS (Samp) 12/19/2013, 2:51:14 AM

Rack 3, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3160u	0.0529	0.0296u
Al 308.215	3481.44	3482.41	3487.41
As 188.980	39.6528	34.1165	39.7994
B 249.678	170.097	170.142	171.169
Ba 389.178	22.1606	22.7992	22.7954
Be 313.042	0.0411	0.0388	0.0373
Ca 370.602	3634	3640	3640
Cd 226.502	0.6432	0.5469	0.7548
Co 228.615	0.4223	0.0414	0.2997
Cr 267.716	5.5352	5.3888	5.5575
Cu 324.754	22.0601	21.4502	21.7902
Fe 271.441	756.471	751.029	753.398
K 766.491	137.158	136.863	137.348
Mg 279.078	403.052	404.469	404.817
Mn 257.610	2.5051	2.4995	2.4969
Mo 202.032	0.3903	0.2835	0.5059
Na 330.237	4052.39	4449.60	4107.53
Ni 231.604	2.2157	2.4662	2.9603
Pb 220.353	4.8654	4.2860	4.9271
Sb 206.834	-3.1346u	-3.2051u	-2.3279u
Se 196.026	-1.7125u	-1.4151u	-4.3262u
Sn 189.925	2.9523	1.6962	1.7803
Sr 216.596	49.5959	48.8493	49.2137
Ti 334.941	5.8118	5.7844	5.9473
Tl 190.794	-0.1137u	-0.0594u	-1.1120u
V 292.401	2.9382	3.0529	3.2547
Zn 206.200	26.6938	26.4501	27.5597

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0778	ppb	0.2066	265.4	-20.3487
Al 308.215	3483.75	ppb	3.2028	0.1	24522.9

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	37.8563	ppb	3.2395	8.6	23.5716
B 249.678	170.470	ppb	0.6065	0.4	2431.70
Ba 389.178	22.5851	ppb	0.3676	1.6	544.275
Be 313.042	0.0391	ppb	0.0019	5.0	-156.560
Ca 370.602	3638	ppb	3.799	0.1	11262
Cd 226.502	0.6483	ppb	0.1040	16.0	48.5931
Co 228.615	0.2545	ppb	0.1944	76.4	-0.0358
Cr 267.716	5.4938	ppb	0.0917	1.7	338.296
Cu 324.754	21.7668	ppb	0.3057	1.4	1550.61
Fe 271.441	753.632	ppb	2.7288	0.4	1317.00
K 766.491	137.123	ppb	0.2443	0.2	6174.38
Mg 279.078	404.113	ppb	0.9349	0.2	1064.53
Mn 257.610	2.5005	ppb	0.0042	0.2	705.628
Mo 202.032	0.3932	ppb	0.1112	28.3	12.2035
Na 330.237	4203.17	ppb	215.186	5.1	203.064
Ni 231.604	2.5474	ppb	0.3789	14.9	5.3949
Pb 220.353	4.6928	ppb	0.3537	7.5	22.6182
Sb 206.834	-2.8892	ppb	0.4874	16.9	3.3173
Se 196.026	-2.4846	ppb	1.6018	64.5	6.1989
Sn 189.925	2.1430	ppb	0.7022	32.8	-10.8934
Sr 216.596	49.2196	ppb	0.3734	0.8	764.400
Ti 334.941	5.8479	ppb	0.0872	1.5	1607.79
Tl 190.794	-0.4283	ppb	0.5926	138.4	-8.0048
V 292.401	3.0819	ppb	0.1602	5.2	78.3998
Zn 206.200	26.9012	ppb	0.5832	2.2	48.5117

660-57603-a-196-e ms (Samp) 12/19/2013, 2:56:01 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	95.0685	95.6841	94.2234
Al 308.215	12306.6	12297.8	12269.7
As 188.980	227.384	230.466	225.254
B 249.678	527.585	528.153	528.870
Ba 389.178	214.664	214.351	215.072
Be 313.042	96.5483	96.2888	96.0839
Ca 370.602	12792	12771	12726
Cd 226.502	95.2245	95.0933	94.8390
Co 228.615	96.4508	94.9745	94.6785
Cr 267.716	200.822	200.684	199.808
Cu 324.754	213.509	212.501	210.201
Fe 271.441	10317.7	10296.8	10269.0
K 766.491	9226.09	9175.28	9149.36
Mg 279.078	9982.10	9962.44	9936.53
Mn 257.610	981.185	979.492	975.851
Mo 202.032	198.884	199.416	196.604
Na 330.237	14392.4	14006.4	14093.9
Ni 231.604	188.392	186.610	183.707
Pb 220.353	94.9575	97.7780	98.9586
Sb 206.834	91.7848	88.5761	93.0760
Se 196.026	185.700	186.067	181.032
Sn 189.925	400.824	398.331	388.500
Sr 216.596	238.660	238.125	237.017
Ti 334.941	193.050	192.858	192.601

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Label	Replicates Concentration		
Tl 190.794	74.0276	72.3173	71.9061
V 292.401	199.201	199.526	198.313
Zn 206.200	206.939	209.078	207.524

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	94.9920	ppb	0.7334	0.8	7882.33
Al 308.215	12291.4	ppb	19.3008	0.2	85829.8
As 188.980	227.701	ppb	2.6205	1.2	167.793
B 249.678	528.203	ppb	0.6436	0.1	7380.01
Ba 389.178	214.696	ppb	0.3617	0.2	5439.55
Be 313.042	96.3070	ppb	0.2328	0.2	197267
Ca 370.602	12763	ppb	33.92	0.3	38978
Cd 226.502	95.0523	ppb	0.1960	0.2	4899.89
Co 228.615	95.3679	ppb	0.9494	1.0	1268.55
Cr 267.716	200.438	ppb	0.5502	0.3	11967.5
Cu 324.754	212.071	ppb	1.6953	0.8	13829.8
Fe 271.441	10294.5	ppb	24.4382	0.2	17842.7
K 766.491	9183.58	ppb	39.0340	0.4	397057
Mg 279.078	9960.35	ppb	22.8555	0.2	25697.5
Mn 257.610	978.843	ppb	2.7259	0.3	250413
Mo 202.032	198.302	ppb	1.4937	0.8	1612.78
Na 330.237	14164.3	ppb	202.396	1.4	610.450
Ni 231.604	186.236	ppb	2.3647	1.3	656.961
Pb 220.353	97.2314	ppb	2.0558	2.1	196.565
Sb 206.834	91.1456	ppb	2.3170	2.5	144.514
Se 196.026	184.266	ppb	2.8073	1.5	96.3585
Sn 189.925	395.885	ppb	6.5159	1.6	368.648
Sr 216.596	237.934	ppb	0.8379	0.4	3659.81
Ti 334.941	192.836	ppb	0.2254	0.1	55282.2
Tl 190.794	72.7503	ppb	1.1251	1.5	86.7110
V 292.401	199.013	ppb	0.6279	0.3	5628.52
Zn 206.200	207.847	ppb	1.1055	0.5	327.591

660-57603-a-196-f ms (Samp) 12/19/2013, 3:00:48 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	95.7555	95.3538	96.0182
Al 308.215	12319.4	12366.5	12406.1
As 188.980	228.500	228.203	237.436
B 249.678	530.354	535.076	535.247
Ba 389.178	215.447	214.878	216.068
Be 313.042	96.5212	96.9038	97.1288
Ca 370.602	12813	12890	12971
Cd 226.502	94.9187	95.7673	96.3015
Co 228.615	95.3819	95.8299	96.0516
Cr 267.716	201.204	202.137	202.798
Cu 324.754	216.359	214.405	214.098
Fe 271.441	10344.2	10377.1	10423.9
K 766.491	9285.81	9276.36	9306.99
Mg 279.078	9987.98	10011.5	10041.8
Mn 257.610	981.364	987.581	991.112
Mo 202.032	197.588	200.174	199.954
Na 330.237	14222.8	14220.4	14316.7

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Ni 231.604	186.816	186.486	188.913
Pb 220.353	97.7755	97.4296	96.9934
Sb 206.834	90.8197	87.6781	93.4157
Se 196.026	189.770	179.801	194.005
Sn 189.925	398.340	397.085	400.227
Sr 216.596	239.676	240.817	239.415
Ti 334.941	193.282	194.438	195.600
Tl 190.794	76.9157	77.2363	74.3263
V 292.401	200.122	200.404	201.499
Zn 206.200	211.666	212.892	215.908

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	95.7091	ppb	0.3346	0.3	7941.92
Al 308.215	12364.0	ppb	43.4153	0.4	86335.1
As 188.980	231.380	ppb	5.2469	2.3	170.589
B 249.678	533.559	ppb	2.7767	0.5	7454.21
Ba 389.178	215.465	ppb	0.5950	0.3	5459.28
Be 313.042	96.8513	ppb	0.3072	0.3	198383
Ca 370.602	12892	ppb	79.00	0.6	39372
Cd 226.502	95.6625	ppb	0.6973	0.7	4931.37
Co 228.615	95.7545	ppb	0.3412	0.4	1273.73
Cr 267.716	202.046	ppb	0.8007	0.4	12063.4
Cu 324.754	214.954	ppb	1.2260	0.6	14015.8
Fe 271.441	10381.7	ppb	40.0320	0.4	17993.7
K 766.491	9289.72	ppb	15.6853	0.2	401643
Mg 279.078	10013.7	ppb	26.9686	0.3	25835.1
Mn 257.610	986.686	ppb	4.9353	0.5	252419
Mo 202.032	199.239	ppb	1.4340	0.7	1620.36
Na 330.237	14253.3	ppb	54.8948	0.4	614.041
Ni 231.604	187.405	ppb	1.3167	0.7	661.108
Pb 220.353	97.3995	ppb	0.3919	0.4	196.885
Sb 206.834	90.6378	ppb	2.8731	3.2	143.766
Se 196.026	187.859	ppb	7.2925	3.9	98.0889
Sn 189.925	398.551	ppb	1.5816	0.4	371.217
Sr 216.596	239.969	ppb	0.7454	0.3	3691.05
Ti 334.941	194.440	ppb	1.1588	0.6	55742.3
Tl 190.794	76.1595	ppb	1.5956	2.1	91.1766
V 292.401	200.675	ppb	0.7274	0.4	5675.75
Zn 206.200	213.489	ppb	2.1830	1.0	336.304

660-57603-a-198-d (Samp)

12/19/2013, 3:05:35 AM

Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1532	0.3148	0.3664
Al 308.215	673.484	673.912	664.982
As 188.980	47.8029	51.5891	51.7898
B 249.678	311.156	312.305	308.435
Ba 389.178	47.0103	48.0099	46.3781
Be 313.042	0.1902	0.1941	0.1873
Ca 370.602	31203	31245	30983
Cd 226.502	1.7829	1.7195	1.7365
Co 228.615	0.9197	-0.0712u	1.0590
Cr 267.716	4.1549	4.2207	4.1963

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	15.0725	15.5070	15.0770
Fe 271.441	81.8604	77.6641	83.9059
K 766.491	761.892	759.120	747.959
Mg 279.078	1911.76	1909.22	1883.14
Mn 257.610	685.281	685.739	678.997
Mo 202.032	0.1941	0.1467	-0.1909u
Na 330.237	22906.9	22869.4	22723.3
Ni 231.604	3.2622	3.5379	3.2443
Pb 220.353	8.2893	10.5697	6.5968
Sb 206.834	-5.3859u	-1.8007u	-2.5963u
Se 196.026	2.8917	5.1096	-2.6104u
Sn 189.925	1.2557	3.0669	0.2157
Sr 216.596	271.812	272.153	269.451
Ti 334.941	2.2497	2.1933	2.1731
Tl 190.794	0.3519	-2.3561u	-1.1884u
V 292.401	1.2510	1.1979	1.1613
Zn 206.200	250.131	248.291	248.225

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2781	ppb	0.1112	40.0	1.4021
Al 308.215	670.793	ppb	5.0371	0.8	4938.95
As 188.980	50.3939	ppb	2.2461	4.5	33.0745
B 249.678	310.632	ppb	1.9876	0.6	4379.06
Ba 389.178	47.1328	ppb	0.8228	1.7	1167.27
Be 313.042	0.1905	ppb	0.0034	1.8	161.440
Ca 370.602	31144	ppb	140.4	0.5	96848
Cd 226.502	1.7463	ppb	0.0328	1.9	101.402
Co 228.615	0.6358	ppb	0.6162	96.9	4.9317
Cr 267.716	4.1907	ppb	0.0333	0.8	264.450
Cu 324.754	15.2188	ppb	0.2496	1.6	1128.14
Fe 271.441	81.1434	ppb	3.1821	3.9	153.120
K 766.491	756.324	ppb	7.3755	1.0	32929.0
Mg 279.078	1901.37	ppb	15.8389	0.8	4914.98
Mn 257.610	683.339	ppb	3.7673	0.6	174768
Mo 202.032	0.0500	ppb	0.2099	419.9	9.4677
Na 330.237	22833.2	ppb	96.9722	0.4	971.881
Ni 231.604	3.3482	ppb	0.1646	4.9	8.2143
Pb 220.353	8.4852	ppb	1.9937	23.5	29.9093
Sb 206.834	-3.2610	ppb	1.8828	57.7	2.7229
Se 196.026	1.7970	ppb	3.9747	221.2	8.4140
Sn 189.925	1.5128	ppb	1.4429	95.4	-11.4799
Sr 216.596	271.139	ppb	1.4716	0.5	4160.88
Ti 334.941	2.2054	ppb	0.0397	1.8	568.359
Tl 190.794	-1.0642	ppb	1.3582	127.6	-9.1919
V 292.401	1.2034	ppb	0.0451	3.7	24.5296
Zn 206.200	248.882	ppb	1.0816	0.4	391.499

660-57603-a-201-d (Samp)

12/19/2013, 3:10:21 AM

Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0445u	0.0106u	-0.1079u
Al 308.215	692.825	690.389	694.145
As 188.980	29.5891	28.5750	33.1996

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	297.660	299.063	301.817
Ba 389.178	8.6350	8.9116	8.4637
Be 313.042	0.0071	0.0083	0.0123
Ca 370.602	3399	3394	3417
Cd 226.502	0.1577	0.1545	0.0745
Co 228.615	0.2289	0.6489	0.1174
Cr 267.716	6.6293	6.7285	6.7182
Cu 324.754	6.8511	7.3956	7.9032
Fe 271.441	757.213	753.087	760.567
K 766.491	432.157	428.637	429.895
Mg 279.078	548.877	547.798	550.716
Mn 257.610	8.0877	8.0243	8.1316
Mo 202.032	1.1514	0.6773	0.6756
Na 330.237	20130.6	20268.0	20516.4
Ni 231.604	2.0367	2.2004	0.8088
Pb 220.353	1.7715	0.1371	0.1716
Sb 206.834	0.9564	-4.7510u	-1.9249u
Se 196.026	1.7569	2.1437	0.7528
Sn 189.925	1.7238	0.4118	2.5600
Sr 216.596	26.2317	26.6439	26.3594
Ti 334.941	18.0559	17.9955	18.2012
Tl 190.794	-3.0968u	-6.3631u	-4.7094u
V 292.401	2.1841	1.8579	1.9667
Zn 206.200	16.6477	16.0446	18.2151

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0473	ppb	0.0593	125.3	-16.6335
Al 308.215	692.453	ppb	1.9057	0.3	5089.69
As 188.980	30.4546	ppb	2.4307	8.0	17.9113
B 249.678	299.513	ppb	2.1147	0.7	4223.36
Ba 389.178	8.6701	ppb	0.2260	2.6	193.304
Be 313.042	0.0092	ppb	0.0028	29.9	-220.447
Ca 370.602	3403	ppb	12.02	0.4	10538
Cd 226.502	0.1289	ppb	0.0471	36.6	22.0765
Co 228.615	0.3317	ppb	0.2803	84.5	1.3250
Cr 267.716	6.6920	ppb	0.0545	0.8	410.098
Cu 324.754	7.3833	ppb	0.5262	7.1	623.172
Fe 271.441	756.956	ppb	3.7464	0.5	1322.75
K 766.491	430.230	ppb	1.7836	0.4	18839.0
Mg 279.078	549.130	ppb	1.4755	0.3	1439.61
Mn 257.610	8.0812	ppb	0.0540	0.7	2133.54
Mo 202.032	0.8348	ppb	0.2742	32.8	15.7782
Na 330.237	20305.0	ppb	195.549	1.0	870.292
Ni 231.604	1.6819	ppb	0.7606	45.2	2.3236
Pb 220.353	0.6934	ppb	0.9338	134.7	15.1684
Sb 206.834	-1.9065	ppb	2.8538	149.7	4.8019
Se 196.026	1.5511	ppb	0.7179	46.3	8.1404
Sn 189.925	1.5652	ppb	1.0829	69.2	-11.4446
Sr 216.596	26.4116	ppb	0.2110	0.8	415.640
Ti 334.941	18.0842	ppb	0.1058	0.6	5116.70
Tl 190.794	-4.7231	ppb	1.6332	34.6	-13.6524
V 292.401	2.0029	ppb	0.1661	8.3	47.6212
Zn 206.200	16.9691	ppb	1.1204	6.6	33.1644

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Cont Calib Verif (CCV) 12/19/2013, 3:15:08 AM Rack 3, Tube 37

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	478.020	479.740	478.009
Al 308.215	4614.06	4615.02	4636.67
As 188.980	488.760	489.159	479.925
B 249.678	468.639	472.314	474.195
Ba 389.178	4883.90	4887.70	4899.66
Be 313.042	480.111	480.751	482.332
Ca 370.602	4590	4590	4616
Cd 226.502	481.790	481.686	484.959
Co 228.615	485.289	485.011	486.909
Cr 267.716	4862.98	4854.53	4876.62
Cu 324.754	4815.29	4780.75	4777.26
Fe 271.441	4868.42	4850.54	4873.04
K 766.491	9318.88	9345.83	9362.22
Mg 279.078	4895.95	4917.80	4930.25
Mn 257.610	4776.69	4766.12	4803.51
Mo 202.032	498.235	497.250	500.833
Na 330.237	7398.22	7009.87	7102.28
Ni 231.604	2312.35	2320.89	2336.43
Pb 220.353	467.573	468.073	470.594
Sb 206.834	915.971	917.332	928.084
Se 196.026	4723.92	4690.35	4739.74
Sn 189.925	4875.03	4900.30	4901.48
Sr 216.596	2439.14	2440.70	2454.44
Ti 334.941	464.092	462.041	464.774
Tl 190.794	4816.83	4831.01	4857.21
V 292.401	4862.21	4860.89	4866.82
Zn 206.200	2395.01	2401.95	2409.50

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	478.590	ppb	0.9966	0.2	39738.4	95.71794
Al 308.215	4621.92	ppb	12.7839	0.3	31870.9	92.43831
As 188.980	485.948	ppb	5.2197	1.1	363.947	97.18959
B 249.678	471.716	ppb	2.8261	0.6	6606.16	94.34319
Ba 389.178	4890.42	ppb	8.2233	0.2	123506	97.80835
Be 313.042	481.065	ppb	1.1435	0.2	988141	96.21297
Ca 370.602	4599	ppb	15.17	0.3	14353	91.97212
Cd 226.502	482.812	ppb	1.8601	0.4	24625.1	96.56231
Co 228.615	485.737	ppb	1.0249	0.2	6488.77	97.14733
Cr 267.716	4864.71	ppb	11.1440	0.2	290037	97.29418
Cu 324.754	4791.10	ppb	21.0184	0.4	309040	95.82198
Fe 271.441	4864.00	ppb	11.8856	0.2	8546.66	97.28003
K 766.491	9342.31	ppb	21.8821	0.2	403915	93.42313
Mg 279.078	4914.67	ppb	17.3645	0.4	12605.9	98.29334
Mn 257.610	4782.11	ppb	19.2750	0.4	1222625	95.64220
Mo 202.032	498.772	ppb	1.8509	0.4	4034.74	99.75448
Na 330.237	7170.12	ppb	202.872	2.8	289.452	95.60163
Ni 231.604	2323.22	ppb	12.2095	0.5	8235.80	92.92895
Pb 220.353	468.747	ppb	1.6192	0.3	893.331	93.74933
Sb 206.834	920.463	ppb	6.6356	0.7	1472.18	92.04625
Se 196.026	4718.00	ppb	25.2236	0.5	2276.65	94.36001
Sn 189.925	4892.27	ppb	14.9406	0.3	4702.77	97.84538
Sr 216.596	2444.76	ppb	8.4202	0.3	37324.4	97.79038

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	463.636	ppb	1.4224	0.3	132927	92.72719
Tl 190.794	4835.01	ppb	20.4846	0.4	6345.45	96.70029
V 292.401	4863.31	ppb	3.1142	0.1	138362	97.26614
Zn 206.200	2402.15	ppb	7.2477	0.3	3711.56	96.08608

Cont Calib Blank (CCB)

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Rack 3, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4685u	0.0284	0.3258
Al 308.215	-5.8302u	-6.6821u	-7.8927u
As 188.980	0.3823	2.1587	0.9858
B 249.678	4.3319	3.1702	2.5452
Ba 389.178	-0.3507u	0.3387	-0.2634u
Be 313.042	0.0042	-0.0037u	-0.0045u
Ca 370.602	1.936	-1.545u	1.121
Cd 226.502	0.0062	0.0632	-0.1113u
Co 228.615	0.4492	0.3540	-0.0085u
Cr 267.716	0.0405	0.1009	0.1208
Cu 324.754	-0.2067u	-0.5865u	-0.3646u
Fe 271.441	0.9346	2.4434	13.5244
K 766.491	1.2950	0.6712	0.7662
Mg 279.078	2.2564	3.7440	1.3866
Mn 257.610	-0.0580u	-0.0768u	-0.0192u
Mo 202.032	0.9805	0.6670	0.5320
Na 330.237	105.585	-17.4090u	253.678
Ni 231.604	0.9587	0.5387	0.8233
Pb 220.353	-1.5614u	1.0243	-0.3371u
Sb 206.834	1.7095	0.5479	-0.2699u
Se 196.026	-2.0288u	10.8494	1.4027
Sn 189.925	1.5630	2.5918	2.3734
Sr 216.596	0.1354	-0.3223u	0.1076
Ti 334.941	0.1830	0.1201	0.1146
Tl 190.794	3.8435	2.4934	-0.4577u
V 292.401	-0.0705u	0.1874	0.1490
Zn 206.200	-0.6142u	-0.8539u	-1.4173u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0381	ppb	0.4013	1053.5	-14.2132	-0.03809
Al 308.215	-6.8017	ppb	1.0365	15.2	221.630	-6.80166
As 188.980	1.1756	ppb	0.9032	76.8	-4.3419	1.17561
B 249.678	3.3491	ppb	0.9067	27.1	112.807	3.34909
Ba 389.178	-0.0918	ppb	0.3754	408.9	-30.7306	-0.09181
Be 313.042	-0.0013	ppb	0.0048	369.4	-242.045	-0.00130
Ca 370.602	0.5037	ppb	1.821	361.5	12.05	0.50372
Cd 226.502	-0.0140	ppb	0.0890	637.7	11.5309	-0.01396
Co 228.615	0.2649	ppb	0.2416	91.2	-0.1140	0.26492
Cr 267.716	0.0874	ppb	0.0418	47.8	15.6024	0.08741
Cu 324.754	-0.3859	ppb	0.1908	49.4	121.936	-0.38592
Fe 271.441	5.6342	ppb	6.8747	122.0	22.3729	5.63415
K 766.491	0.9108	ppb	0.3361	36.9	288.869	0.91080
Mg 279.078	2.4623	ppb	1.1921	48.4	29.5895	2.46234
Mn 257.610	-0.0513	ppb	0.0293	57.2	47.4303	-0.05133
Mo 202.032	0.7265	ppb	0.2301	31.7	14.9488	0.72651

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	113.952	ppb	135.737	119.1	34.2287	113.95155
Ni 231.604	0.7736	ppb	0.2144	27.7	-0.9198	0.77356
Pb 220.353	-0.2914	ppb	1.2935	443.9	13.2850	-0.29142
Sb 206.834	0.6625	ppb	0.9947	150.1	8.5058	0.66253
Se 196.026	3.4077	ppb	6.6691	195.7	9.0194	3.40774
Sn 189.925	2.1761	ppb	0.5420	24.9	-10.8649	2.17607
Sr 216.596	-0.0264	ppb	0.2566	972.1	9.4823	-0.02640
Ti 334.941	0.1392	ppb	0.0380	27.3	-31.2843	0.13924
Tl 190.794	1.9597	ppb	2.1997	112.2	-4.7853	1.95973
V 292.401	0.0886	ppb	0.1391	157.0	-7.0829	0.08861
Zn 206.200	-0.9618	ppb	0.4123	42.9	5.4869	-0.96179

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0970	0.0541	0.2858
Al 308.215	2673.31	2654.50	2637.97
As 188.980	134.659	136.862	136.741
B 249.678	268.399	268.929	270.343
Ba 389.178	19.2695	20.2016	19.3288
Be 313.042	0.0150	0.0135	0.0167
Ca 370.602	6230	6150	6105
Cd 226.502	0.1225	0.2784	0.1771
Co 228.615	0.1734	-0.4799u	0.6984
Cr 267.716	6.8856	6.7470	6.6577
Cu 324.754	6.1107	5.7293	6.2953
Fe 271.441	785.208	793.096	788.721
K 766.491	419.713	416.362	414.071
Mg 279.078	751.979	748.391	740.060
Mn 257.610	23.6983	23.5427	23.3850
Mo 202.032	0.3499	0.2281	-0.0017u
Na 330.237	20679.9	20550.7	20597.7
Ni 231.604	2.7284	1.7195	1.5930
Pb 220.353	3.3638	0.0525	1.6911
Sb 206.834	-2.9504u	-3.1226u	-0.1454u
Se 196.026	-7.0244u	4.2362	-0.8755u
Sn 189.925	-0.4224u	2.2522	-0.9833u
Sr 216.596	60.6894	61.1568	60.8576
Ti 334.941	7.3431	7.0409	7.1149
Tl 190.794	-2.9957u	-2.5053u	0.7561
V 292.401	2.7073	2.4908	2.7201
Zn 206.200	7.1715	8.4765	6.4069

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1456	ppb	0.1232	84.6	-2.3011
Al 308.215	2655.26	ppb	17.6866	0.7	18754.9
As 188.980	136.087	ppb	1.2385	0.9	98.2223
B 249.678	269.224	ppb	1.0051	0.4	3802.76
Ba 389.178	19.6000	ppb	0.5219	2.7	469.918
Be 313.042	0.0151	ppb	0.0016	10.7	-206.851
Ca 370.602	6162	ppb	63.59	1.0	19107
Cd 226.502	0.1927	ppb	0.0791	41.1	25.4641
Co 228.615	0.1306	ppb	0.5903	451.9	-1.6382

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	6.7634	ppb	0.1148	1.7	414.447
Cu 324.754	6.0451	ppb	0.2886	4.8	536.868
Fe 271.441	789.008	ppb	3.9518	0.5	1378.21
K 766.491	416.716	ppb	2.8375	0.7	18255.1
Mg 279.078	746.810	ppb	6.1147	0.8	1948.60
Mn 257.610	23.5420	ppb	0.1566	0.7	6087.84
Mo 202.032	0.1921	ppb	0.1785	92.9	10.5748
Na 330.237	20609.4	ppb	65.3874	0.3	883.073
Ni 231.604	2.0136	ppb	0.6223	30.9	3.5027
Pb 220.353	1.7025	ppb	1.6557	97.3	17.0343
Sb 206.834	-2.0728	ppb	1.6714	80.6	4.5692
Se 196.026	-1.2212	ppb	5.6383	461.7	6.8120
Sn 189.925	0.2822	ppb	1.7290	612.8	-12.6798
Sr 216.596	60.9013	ppb	0.2367	0.4	943.513
Ti 334.941	7.1663	ppb	0.1575	2.2	1986.31
Tl 190.794	-1.5816	ppb	2.0393	128.9	-9.5381
V 292.401	2.6394	ppb	0.1289	4.9	65.6775
Zn 206.200	7.3516	ppb	1.0465	14.2	18.3041

660-57603-a-214-d (Samp)

12/19/2013, 3:29:30 AM

Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2738	-0.1567u	0.0443
Al 308.215	1323.05	1325.48	1317.80
As 188.980	59.5514	54.0193	58.6056
B 249.678	216.930	218.370	218.723
Ba 389.178	17.3078	17.2165	17.3272
Be 313.042	0.0528	0.0485	0.0480
Ca 370.602	6213	6224	6185
Cd 226.502	0.6691	0.6678	0.6088
Co 228.615	-0.0408u	0.5353	0.4683
Cr 267.716	2.1232	2.2229	2.1838
Cu 324.754	12.1486	11.3184	11.7299
Fe 271.441	207.187	210.995	209.866
K 766.491	472.847	474.409	472.415
Mg 279.078	643.392	644.750	636.766
Mn 257.610	5.2879	5.2784	5.2995
Mo 202.032	0.0914	-0.1903u	-0.3272u
Na 330.237	22519.4	22559.7	22213.8
Ni 231.604	3.0099	3.1200	2.5385
Pb 220.353	2.6033	1.6320	-0.0992u
Sb 206.834	-2.8435u	-1.4282u	-1.9951u
Se 196.026	5.3242	5.6968	0.3604
Sn 189.925	0.1236	0.9963	1.8520
Sr 216.596	55.4685	55.3436	55.2011
Ti 334.941	2.4413	2.6366	2.5779
Tl 190.794	-4.6326u	0.4145	-2.0497u
V 292.401	1.2124	0.8355	1.0926
Zn 206.200	28.5800	27.2707	27.5984

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0538	ppb	0.2154	400.5	-9.5091
Al 308.215	1322.11	ppb	3.9239	0.3	9473.50

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	57.3921	ppb	2.9589	5.2	38.4000
B 249.678	218.007	ppb	0.9501	0.4	3092.78
Ba 389.178	17.2838	ppb	0.0591	0.3	410.181
Be 313.042	0.0497	ppb	0.0026	5.3	-136.746
Ca 370.602	6208	ppb	20.09	0.3	19294
Cd 226.502	0.6486	ppb	0.0344	5.3	46.0557
Co 228.615	0.3210	ppb	0.3151	98.2	0.7435
Cr 267.716	2.1766	ppb	0.0502	2.3	140.699
Cu 324.754	11.7323	ppb	0.4151	3.5	903.370
Fe 271.441	209.349	ppb	1.9554	0.9	374.971
K 766.491	473.224	ppb	1.0492	0.2	20696.7
Mg 279.078	641.636	ppb	4.2716	0.7	1678.10
Mn 257.610	5.2886	ppb	0.0106	0.2	1418.79
Mo 202.032	-0.1420	ppb	0.2134	150.3	7.9068
Na 330.237	22431.0	ppb	189.183	0.8	958.389
Ni 231.604	2.8895	ppb	0.3089	10.7	6.5918
Pb 220.353	1.3787	ppb	1.3689	99.3	16.4072
Sb 206.834	-2.0889	ppb	0.7123	34.1	4.4493
Se 196.026	3.7938	ppb	2.9792	78.5	9.2094
Sn 189.925	0.9906	ppb	0.8642	87.2	-11.9963
Sr 216.596	55.3377	ppb	0.1338	0.2	857.362
Ti 334.941	2.5519	ppb	0.1002	3.9	662.119
Tl 190.794	-2.0893	ppb	2.5238	120.8	-10.1296
V 292.401	1.0468	ppb	0.1926	18.4	20.2385
Zn 206.200	27.8164	ppb	0.6813	2.4	49.9427

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12/19/2013, 3:34:18 AM

Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0301u	-0.1660u	0.0845u
Al 308.215	117.561	117.468	118.988
As 188.980	19.7808	15.0376	13.8315
B 249.678	46.6656	47.3004	47.0470
Ba 389.178	1.9743	1.8827	1.3044
Be 313.042	-0.0218u	-0.0216u	-0.0203u
Ca 370.602	65084	65255	65034
Cd 226.502	0.0805	0.0370	-0.1614u
Co 228.615	0.3042	0.3470	-0.0140u
Cr 267.716	9.1654	9.1810	9.4016
Cu 324.754	2.3008	2.0927	2.4743
Fe 271.441	20.0486	23.9648	21.1198
K 766.491	61.9678	62.2251	62.5165
Mg 279.078	275.349	268.853	289.694
Mn 257.610	0.2970	0.2948	0.8369
Mo 202.032	0.3592	0.4302	0.3613
Na 330.237	18106.3	18092.1	18133.5
Ni 231.604	0.2380	1.5234	1.4032
Pb 220.353	1.2727	0.3833	-1.8744u
Sb 206.834	-3.6849u	0.3492	-4.3837u
Se 196.026	1.1014	-1.9549u	-1.6594u
Sn 189.925	4.0648	-3.2727u	3.1338
Sr 216.596	573.008	573.376	575.282
Ti 334.941	0.9390	0.9239	0.8554

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Label	Replicates Concentration		
Tl 190.794	-2.4867u	-5.2598u	-1.7811u
V 292.401	4.3666	4.2819	4.2223
Zn 206.200	0.1617	-0.1025u	-0.0249u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0172	ppb	0.1318	767.9	-42.4340
Al 308.215	118.006	ppb	0.8518	0.7	1090.01
As 188.980	16.2166	ppb	3.1450	19.4	7.0915
B 249.678	47.0043	ppb	0.3196	0.7	718.896
Ba 389.178	1.7205	ppb	0.3632	21.1	15.8420
Be 313.042	-0.0212	ppb	0.0008	3.8	-256.986
Ca 370.602	65124	ppb	116.0	0.2	202476
Cd 226.502	-0.0146	ppb	0.1290	881.2	11.4533
Co 228.615	0.2124	ppb	0.1973	92.9	-0.7496
Cr 267.716	9.2494	ppb	0.1321	1.4	562.200
Cu 324.754	2.2893	ppb	0.1911	8.3	294.377
Fe 271.441	21.7110	ppb	2.0239	9.3	50.2572
K 766.491	62.2365	ppb	0.2746	0.4	2938.65
Mg 279.078	277.965	ppb	10.6639	3.8	740.351
Mn 257.610	0.4763	ppb	0.3124	65.6	185.699
Mo 202.032	0.3836	ppb	0.0404	10.5	12.1639
Na 330.237	18110.6	ppb	21.0392	0.1	779.840
Ni 231.604	1.0549	ppb	0.7100	67.3	0.0787
Pb 220.353	-0.0728	ppb	1.6224	2228.4	13.6939
Sb 206.834	-2.5731	ppb	2.5548	99.3	3.8331
Se 196.026	-0.8376	ppb	1.6857	201.3	6.9790
Sn 189.925	1.3086	ppb	3.9948	305.3	-11.6611
Sr 216.596	573.888	ppb	1.2205	0.2	8795.60
Ti 334.941	0.9061	ppb	0.0446	4.9	188.658
Tl 190.794	-3.1759	ppb	1.8389	57.9	-11.5318
V 292.401	4.2903	ppb	0.0725	1.7	112.217
Zn 206.200	0.0114	ppb	0.1358	1190.8	6.9775

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12/19/2013, 3:39:05 AM

Rack 3, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2313u	-0.4930u	0.0123u
Al 308.215	184.540	183.749	183.977
As 188.980	14.1612	11.4331	13.0493
B 249.678	54.0260	53.6447	53.1198
Ba 389.178	3.6079	4.7095	3.9412
Be 313.042	-0.0196u	-0.0203u	-0.0255u
Ca 370.602	89725	89972	89649
Cd 226.502	0.0744	-0.1329u	0.0206
Co 228.615	0.1105	-0.5827u	-0.1094u
Cr 267.716	1.5521	1.4195	1.6136
Cu 324.754	1.1320	1.4339	1.7429
Fe 271.441	116.970	119.299	121.689
K 766.491	96.0263	95.6935	96.1246
Mg 279.078	828.201	826.681	826.067
Mn 257.610	1.6455	1.6363	1.6639
Mo 202.032	-0.0199u	0.0063	-0.4378u
Na 330.237	20071.3	19764.4	19829.1

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Label	Replicates Concentration		
Ni 231.604	1.3664	0.8467	0.3040
Pb 220.353	-0.1740u	-0.5302u	0.2877
Sb 206.834	-1.8101u	-0.0735u	-2.5209u
Se 196.026	-2.9685u	2.4513	6.0887
Sn 189.925	1.8218	-0.9587u	-0.0298
Sr 216.596	925.055	927.828	918.897
Ti 334.941	3.7105	3.7218	3.7439
Tl 190.794	-2.9310u	-3.4109u	-4.3635u
V 292.401	3.2638	3.5630	3.5231
Zn 206.200	1.3888	1.6274	1.2370

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0831	ppb	0.3714	446.7	-66.2636
Al 308.215	184.089	ppb	0.4073	0.2	1550.16
As 188.980	12.8812	ppb	1.3718	10.6	4.5563
B 249.678	53.5968	ppb	0.4550	0.8	810.247
Ba 389.178	4.0862	ppb	0.5649	13.8	77.2680
Be 313.042	-0.0218	ppb	0.0032	14.8	-248.933
Ca 370.602	89782	ppb	168.8	0.2	279130
Cd 226.502	-0.0126	ppb	0.1076	852.7	11.9713
Co 228.615	-0.1939	ppb	0.3542	182.7	-6.0993
Cr 267.716	1.5284	ppb	0.0992	6.5	101.924
Cu 324.754	1.4363	ppb	0.3055	21.3	239.399
Fe 271.441	119.319	ppb	2.3594	2.0	219.122
K 766.491	95.9482	ppb	0.2259	0.2	4395.27
Mg 279.078	826.983	ppb	1.0987	0.1	2156.81
Mn 257.610	1.6485	ppb	0.0140	0.9	490.899
Mo 202.032	-0.1505	ppb	0.2492	165.6	7.8388
Na 330.237	19888.3	ppb	161.791	0.8	853.441
Ni 231.604	0.8390	ppb	0.5312	63.3	-0.6832
Pb 220.353	-0.1388	ppb	0.4101	295.4	13.5756
Sb 206.834	-1.4682	ppb	1.2590	85.8	5.3643
Se 196.026	1.8572	ppb	4.5577	245.4	8.2761
Sn 189.925	0.2778	ppb	1.4155	509.6	-12.6413
Sr 216.596	923.927	ppb	4.5714	0.5	14152.2
Ti 334.941	3.7254	ppb	0.0170	0.5	999.621
Tl 190.794	-3.5685	ppb	0.7291	20.4	-12.0598
V 292.401	3.4500	ppb	0.1625	4.7	88.8259
Zn 206.200	1.4177	ppb	0.1968	13.9	9.1588

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12/19/2013, 3:43:52 AM

Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0647u	0.5568u	0.0887u
Al 308.215	57.1876	57.1807	58.1581
As 188.980	8.9206	11.2856	9.8304
B 249.678	52.9960	53.4185	53.2643
Ba 389.178	3.8999	4.8649	3.3385
Be 313.042	-0.0202u	-0.0251u	-0.0231u
Ca 370.602	84143	84576	84197
Cd 226.502	-0.0465u	0.0723	-0.0633u
Co 228.615	-0.0517u	0.2676	-0.1893u
Cr 267.716	0.8450	0.9085	0.8334

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Label	Replicates Concentration		
Cu 324.754	0.1175	0.2276	-0.5097u
Fe 271.441	34.6019	35.4114	35.2279
K 766.491	91.7107	92.8065	91.6320
Mg 279.078	751.929	758.217	752.082
Mn 257.610	-0.0946u	-0.0929u	-0.1043u
Mo 202.032	0.6331	0.2061	0.1038
Na 330.237	18314.4	18196.4	18465.4
Ni 231.604	0.9782	0.5107	1.4014
Pb 220.353	1.5783	0.7296	-0.5922u
Sb 206.834	-2.0766u	0.6448	0.5758
Se 196.026	-5.3004u	-5.0195u	1.8068
Sn 189.925	0.7829	1.4912	0.5829
Sr 216.596	1391.18	1394.09	1390.95
Ti 334.941	1.2956	1.3307	1.3213
Tl 190.794	-1.2221u	-1.2607u	-0.5411u
V 292.401	2.8404	2.5181	2.5223
Zn 206.200	0.4693	0.2158	0.5406

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2368	ppb	0.2775	117.2	-64.0860
Al 308.215	57.5088	ppb	0.5623	1.0	669.030
As 188.980	10.0122	ppb	1.1930	11.9	2.3750
B 249.678	53.2263	ppb	0.2138	0.4	805.256
Ba 389.178	4.0344	ppb	0.7721	19.1	75.6247
Be 313.042	-0.0228	ppb	0.0025	11.0	-253.317
Ca 370.602	84305	ppb	236.2	0.3	262108
Cd 226.502	-0.0125	ppb	0.0739	591.3	11.6292
Co 228.615	0.0089	ppb	0.2344	2640.9	-3.4812
Cr 267.716	0.8623	ppb	0.0405	4.7	62.1466
Cu 324.754	-0.0549	ppb	0.3977	724.6	143.245
Fe 271.441	35.0804	ppb	0.4244	1.2	73.3381
K 766.491	92.0497	ppb	0.6566	0.7	4226.83
Mg 279.078	754.076	ppb	3.5872	0.5	1968.79
Mn 257.610	-0.0973	ppb	0.0062	6.3	43.6278
Mo 202.032	0.3143	ppb	0.2808	89.3	11.6063
Na 330.237	18325.4	ppb	134.822	0.7	788.737
Ni 231.604	0.9634	ppb	0.4455	46.2	-0.2447
Pb 220.353	0.5719	ppb	1.0938	191.3	14.9054
Sb 206.834	-0.2853	ppb	1.5516	543.8	7.1122
Se 196.026	-2.8377	ppb	4.0247	141.8	6.0176
Sn 189.925	0.9523	ppb	0.4772	50.1	-11.9944
Sr 216.596	1392.07	ppb	1.7505	0.1	21310.0
Ti 334.941	1.3158	ppb	0.0182	1.4	308.298
Tl 190.794	-1.0080	ppb	0.4048	40.2	-8.6862
V 292.401	2.6269	ppb	0.1849	7.0	65.2463
Zn 206.200	0.4086	ppb	0.1707	41.8	7.6024

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Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3092u	-0.0236u	0.2504u
Al 308.215	125.078	122.277	122.070
As 188.980	36.4994	31.0809	31.0343

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Label	Replicates Concentration		
B 249.678	62.2200	61.6205	62.3750
Ba 389.178	4.3977	5.0561	5.7277
Be 313.042	-0.0277u	-0.0244u	-0.0270u
Ca 370.602	75834	75326	75180
Cd 226.502	0.0854	-0.0161u	0.1068
Co 228.615	-0.0341u	0.0205	0.4832
Cr 267.716	1.1371	1.1098	1.0359
Cu 324.754	0.5757	-0.0640u	0.0141
Fe 271.441	88.9475	85.2993	82.9584
K 766.491	90.4231	90.0426	88.9528
Mg 279.078	710.343	710.714	712.936
Mn 257.610	1.2525	1.2117	1.2225
Mo 202.032	0.2558	-0.0290u	0.4446
Na 330.237	20210.0	20437.4	20112.7
Ni 231.604	0.5694	0.6116	1.2250
Pb 220.353	-0.4021u	-3.2761u	2.2288
Sb 206.834	-1.3233u	-1.3380u	-3.7057u
Se 196.026	1.6347	-9.1665u	-2.8506u
Sn 189.925	1.9249	0.5768	4.6105
Sr 216.596	725.384	720.618	719.875
Ti 334.941	2.4109	2.3426	2.4042
Tl 190.794	0.6077	-1.5087u	-5.2460u
V 292.401	1.1115	1.0163	1.1618
Zn 206.200	-0.1570u	-0.0192u	0.4657

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1787	ppb	0.1776	99.4	-34.0784
Al 308.215	123.142	ppb	1.6803	1.4	1126.16
As 188.980	32.8715	ppb	3.1419	9.6	19.7496
B 249.678	62.0718	ppb	0.3984	0.6	927.976
Ba 389.178	5.0605	ppb	0.6650	13.1	101.490
Be 313.042	-0.0264	ppb	0.0018	6.7	-264.978
Ca 370.602	75446	ppb	343.2	0.5	234563
Cd 226.502	0.0587	ppb	0.0657	111.9	15.4623
Co 228.615	0.1565	ppb	0.2842	181.6	-1.4779
Cr 267.716	1.0943	ppb	0.0524	4.8	76.0549
Cu 324.754	0.1752	ppb	0.3490	199.2	158.119
Fe 271.441	85.7351	ppb	3.0182	3.5	161.008
K 766.491	89.8062	ppb	0.7631	0.8	4129.89
Mg 279.078	711.331	ppb	1.4021	0.2	1858.45
Mn 257.610	1.2289	ppb	0.0211	1.7	382.267
Mo 202.032	0.2238	ppb	0.2384	106.5	10.8741
Na 330.237	20253.4	ppb	166.668	0.8	868.593
Ni 231.604	0.8020	ppb	0.3669	45.8	-0.8165
Pb 220.353	-0.4831	ppb	2.7534	569.9	12.9287
Sb 206.834	-2.1223	ppb	1.3713	64.6	4.3659
Se 196.026	-3.4608	ppb	5.4264	156.8	5.7191
Sn 189.925	2.3707	ppb	2.0535	86.6	-10.6311
Sr 216.596	721.959	ppb	2.9895	0.4	11061.6
Ti 334.941	2.3859	ppb	0.0376	1.6	614.891
Tl 190.794	-2.0490	ppb	2.9641	144.7	-10.0608
V 292.401	1.0965	ppb	0.0739	6.7	21.6274
Zn 206.200	0.0965	ppb	0.3271	339.0	7.1188

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

660-57715-a-34-d (Samp) 12/19/2013, 3:53:27 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2958	-0.0808u	-0.1354u
Al 308.215	1471.75	1475.74	1477.23
As 188.980	34.8134	40.7536	38.3521
B 249.678	166.341	167.473	168.144
Ba 389.178	22.7232	22.9702	23.4989
Be 313.042	0.0483	0.0518	0.0467
Ca 370.602	4478	4495	4505
Cd 226.502	0.8920	1.0223	1.0070
Co 228.615	0.2474	0.1695	0.0494
Cr 267.716	2.5340	2.5774	2.6656
Cu 324.754	17.1166	16.9280	16.9571
Fe 271.441	206.454	212.827	217.332
K 766.491	322.360	324.337	323.556
Mg 279.078	469.411	470.913	467.215
Mn 257.610	3.7322	3.7585	3.7528
Mo 202.032	0.4682	0.1355	-0.5045u
Na 330.237	17634.1	17427.6	17800.5
Ni 231.604	1.5192	2.3011	1.7382
Pb 220.353	1.6730	-0.3778u	0.2844
Sb 206.834	-2.0790u	-4.1516u	-2.0893u
Se 196.026	1.4542	1.7589	3.3394
Sn 189.925	0.9911	2.6452	-1.8632u
Sr 216.596	55.6994	55.8637	55.6243
Ti 334.941	1.9002	1.8872	1.9744
Tl 190.794	-3.6965u	-0.9705u	-1.3280u
V 292.401	1.1693	1.2167	1.5096
Zn 206.200	42.4952	43.9021	42.9690

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0265	ppb	0.2348	885.1	-11.8021
Al 308.215	1474.91	ppb	2.8349	0.2	10537.3
As 188.980	37.9730	ppb	2.9882	7.9	23.6423
B 249.678	167.319	ppb	0.9114	0.5	2389.02
Ba 389.178	23.0641	ppb	0.3963	1.7	555.666
Be 313.042	0.0489	ppb	0.0026	5.3	-138.479
Ca 370.602	4493	ppb	13.41	0.3	13963
Cd 226.502	0.9738	ppb	0.0712	7.3	62.6493
Co 228.615	0.1554	ppb	0.0997	64.1	-1.4833
Cr 267.716	2.5923	ppb	0.0671	2.6	165.379
Cu 324.754	17.0006	ppb	0.1016	0.6	1243.08
Fe 271.441	212.204	ppb	5.4656	2.6	379.898
K 766.491	323.418	ppb	0.9956	0.3	14223.8
Mg 279.078	469.180	ppb	1.8602	0.4	1233.13
Mn 257.610	3.7478	ppb	0.0138	0.4	1023.38
Mo 202.032	0.0331	ppb	0.4944	1495.3	9.3232
Na 330.237	17620.7	ppb	186.784	1.1	758.873
Ni 231.604	1.8528	ppb	0.4033	21.8	2.9153
Pb 220.353	0.5265	ppb	1.0466	198.8	14.8055
Sb 206.834	-2.7733	ppb	1.1937	43.0	3.4286
Se 196.026	2.1842	ppb	1.0120	46.3	8.4353
Sn 189.925	0.5910	ppb	2.2806	385.9	-12.3840
Sr 216.596	55.7291	ppb	0.1225	0.2	863.117

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1.9206	ppb	0.0471	2.5	480.608
Tl 190.794	-1.9984	ppb	1.4815	74.1	-10.0095
V 292.401	1.2985	ppb	0.1843	14.2	27.3960
Zn 206.200	43.1221	ppb	0.7158	1.7	73.5901

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1563	-0.2249u	-0.2634u
Al 308.215	2402.64	2411.66	2395.58
As 188.980	110.815	110.745	110.478
B 249.678	223.256	223.347	223.156
Ba 389.178	26.8392	26.4450	27.1957
Be 313.042	0.1466	0.1398	0.1378
Ca 370.602	9881	9940	9896
Cd 226.502	0.1129	0.0715	0.3091
Co 228.615	0.4784	-0.5783u	0.5778
Cr 267.716	2.4151	2.2548	2.3218
Cu 324.754	3.9018	3.6821	4.1401
Fe 271.441	154.230	155.587	156.283
K 766.491	363.144	364.212	363.492
Mg 279.078	791.916	791.289	781.642
Mn 257.610	1.1253	1.1367	1.1433
Mo 202.032	-0.3357u	-0.4652u	-0.3626u
Na 330.237	21230.5	21080.0	20838.3
Ni 231.604	1.2464	0.8142	2.2119
Pb 220.353	0.9063	2.1403	2.8524
Sb 206.834	-2.9190u	0.2932	-2.0113u
Se 196.026	-1.4812u	-4.6248u	-1.5501u
Sn 189.925	2.2124	1.9186	-0.1700u
Sr 216.596	122.300	123.473	122.596
Ti 334.941	0.6181	0.6396	0.6657
Tl 190.794	-0.5637u	-2.5676u	-2.0547u
V 292.401	1.1156	1.5952	1.3858
Zn 206.200	3.9145	5.2636	3.8893

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1107	ppb	0.2320	209.6	-26.7452
Al 308.215	2403.29	ppb	8.0587	0.3	17000.8
As 188.980	110.679	ppb	0.1782	0.2	78.9156
B 249.678	223.253	ppb	0.0953	0.0	3165.71
Ba 389.178	26.8266	ppb	0.3755	1.4	651.485
Be 313.042	0.1414	ppb	0.0046	3.3	53.0851
Ca 370.602	9905	ppb	30.63	0.3	30793
Cd 226.502	0.1645	ppb	0.1269	77.2	21.1858
Co 228.615	0.1593	ppb	0.6407	402.3	-1.4562
Cr 267.716	2.3305	ppb	0.0805	3.5	149.823
Cu 324.754	3.9080	ppb	0.2290	5.9	398.813
Fe 271.441	155.367	ppb	1.0440	0.7	281.526
K 766.491	363.616	ppb	0.5446	0.1	15960.8
Mg 279.078	788.282	ppb	5.7589	0.7	2056.14
Mn 257.610	1.1351	ppb	0.0091	0.8	358.176
Mo 202.032	-0.3879	ppb	0.0684	17.6	5.9197

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	21049.6	ppb	197.853	0.9	901.517
Ni 231.604	1.4241	ppb	0.7156	50.2	1.3937
Pb 220.353	1.9663	ppb	0.9847	50.1	17.4834
Sb 206.834	-1.5457	ppb	1.6560	107.1	5.2744
Se 196.026	-2.5520	ppb	1.7954	70.4	6.1571
Sn 189.925	1.3203	ppb	1.2990	98.4	-11.6771
Sr 216.596	122.790	ppb	0.6097	0.5	1889.35
Ti 334.941	0.6411	ppb	0.0238	3.7	114.894
Tl 190.794	-1.7287	ppb	1.0410	60.2	-9.6476
V 292.401	1.3655	ppb	0.2405	17.6	29.3327
Zn 206.200	4.3558	ppb	0.7862	18.1	13.6962

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Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0471u	-0.2818u	-0.1420u
Al 308.215	1648.47	1649.49	1639.76
As 188.980	152.680	152.542	154.035
B 249.678	188.513	188.949	188.999
Ba 389.178	30.0586	28.9042	29.0725
Be 313.042	0.0362	0.0322	0.0446
Ca 370.602	9048	9056	9020
Cd 226.502	0.1462	0.0406	0.1643
Co 228.615	0.1851	-0.2180u	-0.0114u
Cr 267.716	2.8262	2.8047	2.8579
Cu 324.754	8.1578	8.0902	8.3450
Fe 271.441	143.949	139.824	138.898
K 766.491	343.897	344.595	339.162
Mg 279.078	628.156	635.488	628.445
Mn 257.610	1.1771	1.1620	1.1991
Mo 202.032	-0.5631u	-0.5421u	-0.3288u
Na 330.237	21384.3	21458.6	21222.9
Ni 231.604	2.1642	1.5576	1.6169
Pb 220.353	2.4299	0.3349	1.7589
Sb 206.834	-3.0813u	-1.3152u	-0.8624u
Se 196.026	-1.3380u	2.3723	-0.6454u
Sn 189.925	-0.5236u	-1.2729u	0.6373
Sr 216.596	113.967	112.920	112.558
Ti 334.941	0.6725	0.5757	0.6471
Tl 190.794	-2.8540u	-0.9353u	-1.7476u
V 292.401	1.5703	1.4902	1.4398
Zn 206.200	9.7558	10.0151	9.8451

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1569	ppb	0.1181	75.2	-30.0798
Al 308.215	1645.91	ppb	5.3499	0.3	11727.7
As 188.980	153.086	ppb	0.8253	0.5	111.138
B 249.678	188.820	ppb	0.2672	0.1	2687.67
Ba 389.178	29.3451	ppb	0.6236	2.1	714.621
Be 313.042	0.0377	ppb	0.0063	16.8	-159.924
Ca 370.602	9041	ppb	18.98	0.2	28108
Cd 226.502	0.1170	ppb	0.0668	57.1	18.6880
Co 228.615	-0.0148	ppb	0.2016	1365.3	-3.7750

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	2.8296	ppb	0.0268	0.9	179.571
Cu 324.754	8.1977	ppb	0.1320	1.6	675.408
Fe 271.441	140.891	ppb	2.6887	1.9	256.456
K 766.491	342.551	ppb	2.9560	0.9	15050.6
Mg 279.078	630.696	ppb	4.1520	0.7	1649.84
Mn 257.610	1.1794	ppb	0.0187	1.6	368.048
Mo 202.032	-0.4780	ppb	0.1296	27.1	5.1911
Na 330.237	21355.3	ppb	120.526	0.6	914.095
Ni 231.604	1.7796	ppb	0.3344	18.8	2.6541
Pb 220.353	1.5079	ppb	1.0698	70.9	16.6382
Sb 206.834	-1.7530	ppb	1.1724	66.9	4.9722
Se 196.026	0.1296	ppb	1.9728	1522.1	7.4460
Sn 189.925	-0.3864	ppb	0.9625	249.1	-13.3225
Sr 216.596	113.148	ppb	0.7319	0.6	1741.74
Ti 334.941	0.6318	ppb	0.0502	7.9	111.427
Tl 190.794	-1.8456	ppb	0.9631	52.2	-9.7998
V 292.401	1.5001	ppb	0.0658	4.4	33.1439
Zn 206.200	9.8720	ppb	0.1318	1.3	22.2185

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Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1053	-0.0693u	-0.1148u
Al 308.215	526.704	527.549	529.278
As 188.980	48.7039	48.0902	48.1580
B 249.678	188.902	189.696	189.950
Ba 389.178	11.6643	12.3254	11.9010
Be 313.042	0.0151	0.0080	0.0096
Ca 370.602	4876	4904	4936
Cd 226.502	0.1853	0.3859	0.2741
Co 228.615	-0.4771u	-0.0447u	0.1319
Cr 267.716	3.4059	3.3791	3.4851
Cu 324.754	6.2333	6.5969	6.6036
Fe 271.441	563.986	565.312	559.428
K 766.491	336.909	340.204	340.421
Mg 279.078	538.166	541.436	541.342
Mn 257.610	8.3490	8.3649	8.4272
Mo 202.032	-0.1426u	0.1215	0.2330
Na 330.237	17214.5	17212.3	17046.5
Ni 231.604	1.3605	2.7725	1.3370
Pb 220.353	-1.1830u	-0.2720u	1.4096
Sb 206.834	-2.8595u	-2.1398u	-3.4733u
Se 196.026	-1.5884u	-2.5257u	-5.4268u
Sn 189.925	1.4692	3.4816	0.6537
Sr 216.596	44.8070	43.7855	44.0121
Ti 334.941	12.9331	12.9305	12.8670
Tl 190.794	-0.2059u	-4.3067u	-2.5543u
V 292.401	1.7464	1.7515	2.0843
Zn 206.200	18.0009	16.7629	15.9132

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0263	ppb	0.1162	442.5	-15.7411
Al 308.215	527.844	ppb	1.3119	0.2	3943.64

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	48.3174	ppb	0.3365	0.7	31.4886
B 249.678	189.516	ppb	0.5466	0.3	2696.51
Ba 389.178	11.9636	ppb	0.3350	2.8	276.122
Be 313.042	0.0109	ppb	0.0037	34.1	-216.089
Ca 370.602	4905	ppb	30.31	0.6	15222
Cd 226.502	0.2818	ppb	0.1005	35.7	29.0006
Co 228.615	-0.1300	ppb	0.3133	241.1	-4.9744
Cr 267.716	3.4233	ppb	0.0551	1.6	215.067
Cu 324.754	6.4779	ppb	0.2119	3.3	564.697
Fe 271.441	562.908	ppb	3.0862	0.5	986.851
K 766.491	339.178	ppb	1.9683	0.6	14904.8
Mg 279.078	540.315	ppb	1.8616	0.3	1416.92
Mn 257.610	8.3804	ppb	0.0414	0.5	2209.37
Mo 202.032	0.0706	ppb	0.1928	273.1	9.6061
Na 330.237	17157.8	ppb	96.3600	0.6	739.963
Ni 231.604	1.8233	ppb	0.8221	45.1	2.8208
Pb 220.353	-0.0151	ppb	1.3153	8682.0	13.8315
Sb 206.834	-2.8242	ppb	0.6674	23.6	3.3761
Se 196.026	-3.1803	ppb	2.0011	62.9	5.8630
Sn 189.925	1.8681	ppb	1.4555	77.9	-11.1530
Sr 216.596	44.2016	ppb	0.5365	1.2	687.560
Ti 334.941	12.9102	ppb	0.0374	0.3	3632.88
Tl 190.794	-2.3556	ppb	2.0576	87.3	-10.5214
V 292.401	1.8608	ppb	0.1936	10.4	43.7107
Zn 206.200	16.8923	ppb	1.0498	6.2	33.0548

Cont Calib Verif (CCV)

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Rack 3, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	474.851	478.461	479.918
Al 308.215	4594.27	4609.74	4613.47
As 188.980	479.448	483.442	485.646
B 249.678	467.761	471.407	472.871
Ba 389.178	4864.20	4883.34	4884.40
Be 313.042	479.195	478.879	479.943
Ca 370.602	4572	4585	4599
Cd 226.502	482.570	483.849	484.349
Co 228.615	484.928	486.266	484.743
Cr 267.716	4848.53	4858.83	4867.02
Cu 324.754	4731.37	4767.65	4764.54
Fe 271.441	4838.49	4855.18	4853.14
K 766.491	9222.10	9229.01	9210.87
Mg 279.078	4923.61	4909.33	4922.00
Mn 257.610	4769.85	4779.86	4795.60
Mo 202.032	496.854	500.077	500.535
Na 330.237	7258.52	7085.08	7119.34
Ni 231.604	2338.44	2343.32	2349.12
Pb 220.353	466.657	467.090	472.266
Sb 206.834	915.367	916.760	915.913
Se 196.026	4680.21	4714.65	4718.50
Sn 189.925	4901.81	4951.90	4950.50
Sr 216.596	2441.50	2446.80	2450.16
Ti 334.941	459.757	460.910	461.613

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Label	Replicates Concentration		
Tl 190.794	4815.30	4829.20	4848.21
V 292.401	4848.56	4847.73	4852.67
Zn 206.200	2410.47	2412.40	2415.65

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	477.743	ppb	2.6086	0.5	39667.6	95.54865
Al 308.215	4605.82	ppb	10.1815	0.2	31760.7	92.11648
As 188.980	482.845	ppb	3.1420	0.7	361.589	96.56908
B 249.678	470.680	ppb	2.6317	0.6	6591.80	94.13593
Ba 389.178	4877.31	ppb	11.3653	0.2	123175	97.54628
Be 313.042	479.339	ppb	0.5465	0.1	984596	95.86781
Ca 370.602	4586	ppb	13.68	0.3	14313	91.71027
Cd 226.502	483.589	ppb	0.9174	0.2	24664.6	96.71785
Co 228.615	485.312	ppb	0.8314	0.2	6483.00	97.06245
Cr 267.716	4858.13	ppb	9.2679	0.2	289645	97.16259
Cu 324.754	4754.52	ppb	20.1076	0.4	306681	95.09043
Fe 271.441	4848.94	ppb	9.1059	0.2	8520.37	96.97870
K 766.491	9220.66	ppb	9.1539	0.1	398659	92.20659
Mg 279.078	4918.31	ppb	7.8240	0.2	12615.3	98.36629
Mn 257.610	4781.77	ppb	12.9822	0.3	1222537	95.63536
Mo 202.032	499.155	ppb	2.0060	0.4	4037.87	99.83109
Na 330.237	7154.31	ppb	91.8600	1.3	288.592	95.39085
Ni 231.604	2343.62	ppb	5.3473	0.2	8308.16	93.74496
Pb 220.353	468.671	ppb	3.1206	0.7	893.189	93.73418
Sb 206.834	916.013	ppb	0.7022	0.1	1465.39	91.60133
Se 196.026	4704.45	ppb	21.0812	0.4	2270.13	94.08904
Sn 189.925	4934.73	ppb	28.5226	0.6	4743.70	98.69466
Sr 216.596	2446.16	ppb	4.3666	0.2	37345.1	97.84620
Ti 334.941	460.760	ppb	0.9371	0.2	132102	92.15202
Tl 190.794	4830.90	ppb	16.5203	0.3	6340.04	96.61807
V 292.401	4849.66	ppb	2.6416	0.1	137973	96.99310
Zn 206.200	2412.84	ppb	2.6175	0.1	3728.08	96.51353

Cont Calib Blank (CCB)

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Rack 3, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0508u	-0.1839u	-0.0590u
Al 308.215	-6.9935u	-7.4752u	-5.2776u
As 188.980	3.2784	-0.4032u	1.0216
B 249.678	3.3722	3.0868	2.3654
Ba 389.178	0.6101	0.2151	0.4600
Be 313.042	-0.0062u	0.0018	0.0002
Ca 370.602	-4.376u	1.201	11.28
Cd 226.502	0.0926	-0.0852u	0.0807
Co 228.615	0.4905	-0.1068u	0.4565
Cr 267.716	0.1555	0.0947	0.2407
Cu 324.754	-0.3901u	-0.1683u	-0.1480u
Fe 271.441	1.2068	1.6769	2.7585
K 766.491	0.2732	0.2830	2.0031
Mg 279.078	-0.3435u	-1.0058u	11.8141
Mn 257.610	-0.0271u	-0.0393u	-0.0260u
Mo 202.032	0.5613	0.7154	-0.0124u
Na 330.237	41.1200	161.737	88.7605

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Label	Replicates Concentration		
Ni 231.604	-1.0027u	-0.3367u	1.0404
Pb 220.353	0.9034	-0.9723u	-1.7798u
Sb 206.834	-0.8587u	0.5105	-0.6199u
Se 196.026	4.3505	-0.3611u	0.8736
Sn 189.925	2.8895	2.6286	0.0251
Sr 216.596	-0.1959u	-0.2425u	-0.1960u
Ti 334.941	0.2015	0.1575	0.2037
Tl 190.794	5.8208	1.1742	0.6527
V 292.401	0.2496	0.1893	0.1000
Zn 206.200	-0.3677u	-1.6739u	-1.4107u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0979	ppb	0.0746	76.2	-19.1784	-0.09792
Al 308.215	-6.5821	ppb	1.1551	17.5	223.127	-6.58211
As 188.980	1.2989	ppb	1.8564	142.9	-4.2481	1.29893
B 249.678	2.9415	ppb	0.5189	17.6	107.149	2.94147
Ba 389.178	0.4284	ppb	0.1994	46.5	-17.5940	0.42838
Be 313.042	-0.0014	ppb	0.0043	309.7	-242.108	-0.00138
Ca 370.602	2.701	ppb	7.933	293.8	18.97	2.70062
Cd 226.502	0.0294	ppb	0.0994	338.3	13.7333	0.02938
Co 228.615	0.2800	ppb	0.3355	119.8	0.0994	0.28004
Cr 267.716	0.1636	ppb	0.0733	44.8	20.1478	0.16364
Cu 324.754	-0.2354	ppb	0.1343	57.0	131.626	-0.23544
Fe 271.441	1.8807	ppb	0.7957	42.3	15.8787	1.88073
K 766.491	0.8531	ppb	0.9959	116.7	286.376	0.85310
Mg 279.078	3.4883	ppb	7.2180	206.9	32.2364	3.48827
Mn 257.610	-0.0308	ppb	0.0074	24.1	52.6857	-0.03080
Mo 202.032	0.4214	ppb	0.3835	91.0	12.4798	0.42142
Na 330.237	97.2057	ppb	60.7501	62.5	33.5375	97.20566
Ni 231.604	-0.0997	ppb	1.0420	1045.5	-4.0173	-0.09967
Pb 220.353	-0.6162	ppb	1.3766	223.4	12.6761	-0.61624
Sb 206.834	-0.3227	ppb	0.7314	226.6	7.0388	-0.32271
Se 196.026	1.6210	ppb	2.4431	150.7	8.1605	1.62101
Sn 189.925	1.8477	ppb	1.5838	85.7	-11.1813	1.84774
Sr 216.596	-0.2115	ppb	0.0268	12.7	6.6796	-0.21145
Ti 334.941	0.1876	ppb	0.0260	13.9	-17.4232	0.18757
Tl 190.794	2.5492	ppb	2.8452	111.6	-4.0105	2.54920
V 292.401	0.1796	ppb	0.0753	41.9	-4.4358	0.17962
Zn 206.200	-1.1508	ppb	0.6908	60.0	5.1949	-1.15076

660-57715-a-65-d (Samp)

12/19/2013, 4:22:10 AM

Rack 3, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1810u	0.2782u	0.3617u
Al 308.215	142.937	143.423	143.105
As 188.980	21.9881	23.2713	22.7366
B 249.678	47.6681	48.6161	47.9154
Ba 389.178	3.4003	2.4151	2.3065
Be 313.042	-0.0228u	-0.0155u	-0.0188u
Ca 370.602	53676	53604	53775
Cd 226.502	0.2156	0.1780	0.0662
Co 228.615	0.4717	0.0072	0.6547
Cr 267.716	1.2411	1.2447	1.3284

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Label	Replicates Concentration		
Cu 324.754	-0.3548u	-0.5620u	-0.3721u
Fe 271.441	88.2271	83.5902	89.6576
K 766.491	81.0830	80.1596	80.7703
Mg 279.078	718.116	723.304	724.287
Mn 257.610	0.0139	-0.0299u	-0.0157
Mo 202.032	-0.1906u	0.1939	-0.0895u
Na 330.237	18132.3	18328.7	18062.8
Ni 231.604	0.9091	0.5980	0.9960
Pb 220.353	2.8176	1.5856	1.7921
Sb 206.834	-0.0056	-4.8031u	-0.6330u
Se 196.026	7.1345	-2.5481u	-4.6469u
Sn 189.925	1.9545	-0.6296u	2.6257
Sr 216.596	763.930	761.916	760.898
Ti 334.941	2.8386	2.8443	2.7589
Tl 190.794	-3.5325u	-0.7194u	-2.0742u
V 292.401	1.5811	1.0414	1.2406
Zn 206.200	0.3191	-0.2218u	0.1032

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2737	ppb	0.0904	33.0	-28.1747
Al 308.215	143.155	ppb	0.2466	0.2	1265.45
As 188.980	22.6654	ppb	0.6445	2.8	11.9926
B 249.678	48.0665	ppb	0.4917	1.0	733.519
Ba 389.178	2.7073	ppb	0.6026	22.3	42.0977
Be 313.042	-0.0190	ppb	0.0037	19.3	-258.344
Ca 370.602	53685	ppb	86.03	0.2	166908
Cd 226.502	0.1533	ppb	0.0777	50.7	20.2998
Co 228.615	0.3779	ppb	0.3338	88.3	1.4975
Cr 267.716	1.2714	ppb	0.0494	3.9	86.5681
Cu 324.754	-0.4296	ppb	0.1149	26.7	119.105
Fe 271.441	87.1583	ppb	3.1718	3.6	163.497
K 766.491	80.6710	ppb	0.4696	0.6	3735.17
Mg 279.078	721.902	ppb	3.3154	0.5	1885.74
Mn 257.610	-0.0106	ppb	0.0224	211.5	65.1911
Mo 202.032	-0.0287	ppb	0.1993	693.3	8.8300
Na 330.237	18174.6	ppb	137.912	0.8	782.472
Ni 231.604	0.8344	ppb	0.2093	25.1	-0.7020
Pb 220.353	2.0651	ppb	0.6598	32.0	17.7079
Sb 206.834	-1.8139	ppb	2.6077	143.8	4.8375
Se 196.026	-0.0202	ppb	6.2844	31187.7	7.3728
Sn 189.925	1.3169	ppb	1.7187	130.5	-11.6589
Sr 216.596	762.248	ppb	1.5431	0.2	11674.3
Ti 334.941	2.8139	ppb	0.0478	1.7	737.847
Tl 190.794	-2.1087	ppb	1.4068	66.7	-10.1379
V 292.401	1.2877	ppb	0.2729	21.2	27.1384
Zn 206.200	0.0668	ppb	0.2723	407.5	7.0727

660-57715-a-102-d (Samp)

12/19/2013, 4:26:57 AM

Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3940	-0.1531u	0.0829u
Al 308.215	265.397	265.206	263.903
As 188.980	29.0192	30.7569	31.8027

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Label	Replicates Concentration		
B 249.678	59.8112	59.8815	60.2305
Ba 389.178	2.3817	1.8087	1.9385
Be 313.042	-0.0089u	-0.0009	-0.0006
Ca 370.602	28325	28373	28339
Cd 226.502	0.0699	0.0693	-0.0586u
Co 228.615	0.0562	0.3718	0.1830
Cr 267.716	2.1766	2.1768	2.3766
Cu 324.754	-0.1805u	0.3966	0.2419
Fe 271.441	78.4700	77.4280	75.7461
K 766.491	72.3603	72.4379	71.2873
Mg 279.078	492.280	492.543	485.647
Mn 257.610	1.0870	1.0510	1.0496
Mo 202.032	0.7437	0.1446	-0.3650u
Na 330.237	19717.3	19556.5	19836.9
Ni 231.604	0.8408	1.9017	0.3441
Pb 220.353	0.6381	0.9165	-1.3685u
Sb 206.834	3.3222	-1.0730u	-0.6463u
Se 196.026	-2.3187u	-1.3672u	5.6490
Sn 189.925	1.6898	2.8248	0.8139
Sr 216.596	348.526	351.252	350.685
Ti 334.941	6.0139	5.9360	5.9822
Tl 190.794	-1.0259u	-0.3699u	-1.7864u
V 292.401	0.7625	0.5414	0.1683
Zn 206.200	0.2769	1.3323	0.1188

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1080	ppb	0.2744	254.2	-20.3629
Al 308.215	264.835	ppb	0.8133	0.3	2112.71
As 188.980	30.5263	ppb	1.4060	4.6	17.9689
B 249.678	59.9744	ppb	0.2246	0.4	898.864
Ba 389.178	2.0430	ppb	0.3005	14.7	24.6665
Be 313.042	-0.0035	ppb	0.0047	135.9	-237.064
Ca 370.602	28346	ppb	24.38	0.1	88133
Cd 226.502	0.0269	ppb	0.0740	275.3	13.8209
Co 228.615	0.2037	ppb	0.1588	78.0	-0.7414
Cr 267.716	2.2433	ppb	0.1154	5.1	144.570
Cu 324.754	0.1527	ppb	0.2987	195.7	156.666
Fe 271.441	77.2147	ppb	1.3744	1.8	146.263
K 766.491	72.0285	ppb	0.6431	0.9	3361.75
Mg 279.078	490.157	ppb	3.9077	0.8	1287.75
Mn 257.610	1.0625	ppb	0.0212	2.0	337.062
Mo 202.032	0.1745	ppb	0.5549	318.1	10.4764
Na 330.237	19703.6	ppb	140.701	0.7	845.820
Ni 231.604	1.0288	ppb	0.7957	77.3	-0.0120
Pb 220.353	0.0620	ppb	1.2467	2011.1	13.9456
Sb 206.834	0.5343	ppb	2.4238	453.6	8.3700
Se 196.026	0.6544	ppb	4.3515	665.0	7.6972
Sn 189.925	1.7762	ppb	1.0082	56.8	-11.2287
Sr 216.596	350.154	ppb	1.4387	0.4	5368.82
Ti 334.941	5.9773	ppb	0.0392	0.7	1644.01
Tl 190.794	-1.0607	ppb	0.7089	66.8	-8.7619
V 292.401	0.4907	ppb	0.3003	61.2	4.3690
Zn 206.200	0.5760	ppb	0.6597	114.5	7.8583

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660-57741-a-1-e (Samp) 12/19/2013, 4:31:45 AM Rack 3, Tube 53

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0495	0.0611	-0.0421u
Al 308.215	710.040	704.688	709.712
As 188.980	28.6159	27.2904	27.2260
B 249.678	198.704	197.992	202.335
Ba 389.178	10.2707	10.8031	10.3803
Be 313.042	0.0036	0.0046	0.0076
Ca 370.602	4236	4218	4257
Cd 226.502	0.2754	0.2238	0.2437
Co 228.615	0.6834	0.1441	0.1646
Cr 267.716	2.3970	2.4152	2.3706
Cu 324.754	9.6206	9.7883	9.1953
Fe 271.441	353.941	348.060	355.113
K 766.491	358.845	359.231	361.755
Mg 279.078	436.397	438.181	440.685
Mn 257.610	2.4161	2.3536	2.3770
Mo 202.032	-0.0267u	0.1683	-0.2775u
Na 330.237	19118.5	19138.0	19154.1
Ni 231.604	1.5516	1.0347	1.0335
Pb 220.353	0.2878	-1.6255u	-0.8465u
Sb 206.834	-8.2064u	-2.8677u	-1.0166u
Se 196.026	-4.9664u	-1.4099u	1.7496
Sn 189.925	1.3954	-0.5514u	0.6133
Sr 216.596	31.7675	31.8800	32.1995
Ti 334.941	10.9107	10.5765	10.6155
Tl 190.794	-1.0186u	-5.1708u	0.4045
V 292.401	1.1868	1.3653	1.3049
Zn 206.200	11.9167	11.5716	10.0816

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0228	ppb	0.0565	247.5	-10.9559
Al 308.215	708.146	ppb	2.9999	0.4	5198.99
As 188.980	27.7108	ppb	0.7846	2.8	15.8312
B 249.678	199.677	ppb	2.3290	1.2	2838.00
Ba 389.178	10.4847	ppb	0.2811	2.7	238.151
Be 313.042	0.0053	ppb	0.0021	39.4	-228.293
Ca 370.602	4237	ppb	19.58	0.5	13160
Cd 226.502	0.2476	ppb	0.0260	10.5	26.3094
Co 228.615	0.3307	ppb	0.3056	92.4	1.1032
Cr 267.716	2.3943	ppb	0.0224	0.9	153.658
Cu 324.754	9.5347	ppb	0.3056	3.2	761.723
Fe 271.441	352.372	ppb	3.7793	1.1	622.508
K 766.491	359.944	ppb	1.5809	0.4	15802.1
Mg 279.078	438.421	ppb	2.1539	0.5	1154.08
Mn 257.610	2.3822	ppb	0.0315	1.3	674.439
Mo 202.032	-0.0453	ppb	0.2235	493.4	8.6809
Na 330.237	19136.9	ppb	17.8459	0.1	822.095
Ni 231.604	1.2066	ppb	0.2988	24.8	0.6262
Pb 220.353	-0.7281	ppb	0.9621	132.1	12.4740
Sb 206.834	-4.0302	ppb	3.7332	92.6	1.5473
Se 196.026	-1.5422	ppb	3.3600	217.9	6.6458
Sn 189.925	0.4858	ppb	0.9797	201.7	-12.4850
Sr 216.596	31.9490	ppb	0.2241	0.7	499.729

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10.7009	ppb	0.1828	1.7	2998.62
Tl 190.794	-1.9283	ppb	2.8968	150.2	-9.9323
V 292.401	1.2856	ppb	0.0908	7.1	27.2526
Zn 206.200	11.1899	ppb	0.9752	8.7	24.2505

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2543	0.2135	-0.0932u
Al 308.215	3129.00	3133.34	3130.61
As 188.980	45.1326	45.6374	45.0268
B 249.678	138.933	140.518	141.006
Ba 389.178	20.3907	21.2174	21.7704
Be 313.042	0.0271	0.0336	0.0247
Ca 370.602	7260	7270	7240
Cd 226.502	0.3331	0.4428	0.1153
Co 228.615	0.4192	0.3266	-0.1887u
Cr 267.716	3.4394	3.3316	3.2656
Cu 324.754	4.8671	5.1902	5.4062
Fe 271.441	154.185	150.524	148.978
K 766.491	288.330	288.339	286.682
Mg 279.078	426.679	427.653	429.311
Mn 257.610	2.4723	2.4324	2.3855
Mo 202.032	-0.0193u	-0.3023u	-0.2405u
Na 330.237	18358.8	18607.9	18707.3
Ni 231.604	1.0973	2.1553	1.1137
Pb 220.353	-1.4074u	-0.1429u	-1.3916u
Sb 206.834	-3.4945u	-5.2116u	-2.6095u
Se 196.026	-1.5139u	2.6480	4.4622
Sn 189.925	1.6847	2.9949	1.3903
Sr 216.596	81.3110	81.5662	81.2128
Ti 334.941	0.6536	0.5778	0.6046
Tl 190.794	-0.9890u	-2.5986u	-2.3522u
V 292.401	0.6637	0.6186	0.5391
Zn 206.200	3.7370	4.2796	2.1020

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1249	ppb	0.1899	152.1	-4.9365
Al 308.215	3130.99	ppb	2.1958	0.1	22067.2
As 188.980	45.2656	ppb	0.3263	0.7	29.2062
B 249.678	140.152	ppb	1.0838	0.8	2011.93
Ba 389.178	21.1262	ppb	0.6943	3.3	506.525
Be 313.042	0.0285	ppb	0.0046	16.3	-179.517
Ca 370.602	7256	ppb	15.26	0.2	22558
Cd 226.502	0.2970	ppb	0.1667	56.1	27.9321
Co 228.615	0.1857	ppb	0.3275	176.4	-1.1094
Cr 267.716	3.3455	ppb	0.0877	2.6	210.318
Cu 324.754	5.1545	ppb	0.2713	5.3	479.206
Fe 271.441	151.229	ppb	2.6743	1.8	274.362
K 766.491	287.784	ppb	0.9542	0.3	12684.2
Mg 279.078	427.881	ppb	1.3305	0.3	1125.99
Mn 257.610	2.4301	ppb	0.0434	1.8	686.023
Mo 202.032	-0.1874	ppb	0.1488	79.4	7.5440

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	18558.0	ppb	179.522	1.0	798.299
Ni 231.604	1.4554	ppb	0.6062	41.6	1.5049
Pb 220.353	-0.9806	ppb	0.7256	74.0	11.9403
Sb 206.834	-3.7719	ppb	1.3230	35.1	1.9491
Se 196.026	1.8654	ppb	3.0639	164.2	8.2809
Sn 189.925	2.0233	ppb	0.8542	42.2	-11.0017
Sr 216.596	81.3633	ppb	0.1824	0.2	1255.45
Ti 334.941	0.6120	ppb	0.0385	6.3	105.124
Tl 190.794	-1.9799	ppb	0.8670	43.8	-9.9788
V 292.401	0.6072	ppb	0.0631	10.4	7.6193
Zn 206.200	3.3729	ppb	1.1335	33.6	12.1762

660-57741-a-3-d (Samp)

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Rack 3, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2984	-0.3118u	-0.3190u
Al 308.215	1532.50	1535.17	1533.12
As 188.980	54.9370	57.3689	57.1255
B 249.678	165.981	167.176	169.155
Ba 389.178	20.8096	21.5141	21.2284
Be 313.042	0.0855	0.0795	0.0869
Ca 370.602	11456	11461	11430
Cd 226.502	0.3520	0.4101	0.1294
Co 228.615	0.1676	0.1208	0.4678
Cr 267.716	3.7065	3.6605	3.5122
Cu 324.754	3.9997	4.3102	4.3799
Fe 271.441	222.932	214.914	221.497
K 766.491	337.035	337.022	336.920
Mg 279.078	528.176	524.406	526.166
Mn 257.610	11.1229	11.1243	11.1040
Mo 202.032	-0.2943u	-0.0101u	-0.2096u
Na 330.237	20142.4	20398.5	20179.6
Ni 231.604	1.2815	2.0428	1.2576
Pb 220.353	-2.3237u	1.8487	-0.4542u
Sb 206.834	-1.0792u	-1.3062u	-0.1944u
Se 196.026	4.0555	-2.8348u	-0.6221u
Sn 189.925	0.8047	0.9602	0.7701
Sr 216.596	107.952	107.709	107.208
Ti 334.941	0.4545	0.4170	0.4500
Tl 190.794	-1.4075u	-2.2151u	-2.3785u
V 292.401	1.0990	1.5444	1.2398
Zn 206.200	5.5667	4.6353	4.9339

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1108	ppb	0.3544	319.8	-25.9143
Al 308.215	1533.59	ppb	1.3976	0.1	10945.8
As 188.980	56.4771	ppb	1.3394	2.4	37.7071
B 249.678	167.437	ppb	1.6031	1.0	2390.64
Ba 389.178	21.1841	ppb	0.3543	1.7	508.364
Be 313.042	0.0839	ppb	0.0039	4.7	-64.1547
Ca 370.602	11449	ppb	16.54	0.1	35588
Cd 226.502	0.2971	ppb	0.1482	49.9	28.2023
Co 228.615	0.2520	ppb	0.1883	74.7	-0.2269

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	3.6264	ppb	0.1016	2.8	227.139
Cu 324.754	4.2299	ppb	0.2024	4.8	419.606
Fe 271.441	219.781	ppb	4.2755	1.9	393.021
K 766.491	336.992	ppb	0.0633	0.0	14810.4
Mg 279.078	526.250	ppb	1.8861	0.4	1380.20
Mn 257.610	11.1171	ppb	0.0113	0.1	2907.90
Mo 202.032	-0.1714	ppb	0.1459	85.2	7.6686
Na 330.237	20240.1	ppb	138.356	0.7	867.957
Ni 231.604	1.5273	ppb	0.4466	29.2	1.7606
Pb 220.353	-0.3097	ppb	2.0899	674.8	13.2394
Sb 206.834	-0.8600	ppb	0.5874	68.3	6.3195
Se 196.026	0.1995	ppb	3.5179	1763.1	7.4831
Sn 189.925	0.8450	ppb	0.1012	12.0	-12.1346
Sr 216.596	107.623	ppb	0.3791	0.4	1657.75
Ti 334.941	0.4405	ppb	0.0205	4.6	56.1712
Tl 190.794	-2.0004	ppb	0.5199	26.0	-10.0173
V 292.401	1.2944	ppb	0.2276	17.6	27.2148
Zn 206.200	5.0453	ppb	0.4756	9.4	14.7584

660-57741-a-4-d (Samp)

12/19/2013, 4:46:06 AM

Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2809u	0.4538u	0.7818u
Al 308.215	29.9034	27.2675	27.4076
As 188.980	7.5695	6.7812	4.0832
B 249.678	45.2353	45.0942	45.3710
Ba 389.178	5.0231	5.5413	6.0767
Be 313.042	-0.0266u	-0.0215u	-0.0317u
Ca 370.602	78143	77770	77864
Cd 226.502	0.1556	0.0592	0.0814
Co 228.615	-0.0081u	0.3431	-0.4250u
Cr 267.716	0.8564	0.8225	0.6984
Cu 324.754	-0.3234u	0.0851	-0.4205u
Fe 271.441	22.6805	16.6290	23.2624
K 766.491	83.9801	84.0065	84.9399
Mg 279.078	618.296	614.268	619.430
Mn 257.610	-0.0472u	-0.0603u	-0.0681u
Mo 202.032	-0.6320u	-0.1198u	-0.2877u
Na 330.237	18242.9	18097.7	18207.9
Ni 231.604	0.6751	0.6405	0.4378
Pb 220.353	0.5918	0.0565	-2.1019u
Sb 206.834	-1.8262u	-0.6269u	-2.1344u
Se 196.026	-4.2930u	-2.2432u	-10.2183u
Sn 189.925	1.9898	-0.5168u	2.8177
Sr 216.596	1247.94	1244.87	1251.46
Ti 334.941	0.7493	0.7116	0.7080
Tl 190.794	-1.1329u	-3.6402u	-1.8415u
V 292.401	0.9074	1.1589	1.0665
Zn 206.200	0.6231	0.9924	1.0619

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5055	ppb	0.2544	50.3	-34.1197
Al 308.215	28.1928	ppb	1.4830	5.3	465.091

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.1446	ppb	1.8282	29.8	-0.5646
B 249.678	45.2335	ppb	0.1384	0.3	694.311
Ba 389.178	5.5470	ppb	0.5268	9.5	113.410
Be 313.042	-0.0266	ppb	0.0051	19.2	-264.300
Ca 370.602	77926	ppb	194.1	0.2	242275
Cd 226.502	0.0987	ppb	0.0505	51.1	17.2265
Co 228.615	-0.0300	ppb	0.3845	1281.8	-3.9994
Cr 267.716	0.7924	ppb	0.0831	10.5	57.9911
Cu 324.754	-0.2196	ppb	0.2683	122.2	132.619
Fe 271.441	20.8573	ppb	3.6734	17.6	48.6981
K 766.491	84.3088	ppb	0.5467	0.6	3892.36
Mg 279.078	617.331	ppb	2.7128	0.4	1615.99
Mn 257.610	-0.0585	ppb	0.0105	18.0	52.1820
Mo 202.032	-0.3465	ppb	0.2611	75.4	6.2629
Na 330.237	18182.8	ppb	75.7683	0.4	782.810
Ni 231.604	0.5845	ppb	0.1282	21.9	-1.5892
Pb 220.353	-0.4845	ppb	1.4260	294.3	12.9245
Sb 206.834	-1.5292	ppb	0.7965	52.1	5.2589
Se 196.026	-5.5848	ppb	4.1415	74.2	4.6968
Sn 189.925	1.4303	ppb	1.7363	121.4	-11.5370
Sr 216.596	1248.09	ppb	3.2975	0.3	19107.3
Ti 334.941	0.7230	ppb	0.0229	3.2	137.645
Tl 190.794	-2.2049	ppb	1.2925	58.6	-10.2580
V 292.401	1.0443	ppb	0.1272	12.2	20.1993
Zn 206.200	0.8925	ppb	0.2359	26.4	8.3505

660-57741-a-6-d (Samp)

12/19/2013, 4:50:53 AM

Rack 3, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0725	0.1161	-0.0216u
Al 308.215	1514.29	1515.66	1509.02
As 188.980	60.6890	51.3725	52.6837
B 249.678	190.602	190.471	190.539
Ba 389.178	21.8028	21.4062	21.3317
Be 313.042	0.0092	0.0052	0.0070
Ca 370.602	4700	4706	4672
Cd 226.502	0.7385	0.6785	0.7104
Co 228.615	0.6798	-0.2589u	0.0747
Cr 267.716	4.7530	4.6840	4.6648
Cu 324.754	21.0386	20.8989	21.5008
Fe 271.441	268.420	267.134	262.341
K 766.491	347.069	347.972	346.236
Mg 279.078	529.595	530.159	530.488
Mn 257.610	13.2487	13.2660	13.2352
Mo 202.032	-0.0624u	-0.1838u	-0.1201u
Na 330.237	19120.9	19033.3	18863.6
Ni 231.604	2.3405	0.5989	2.8739
Pb 220.353	1.7915	-0.3727u	2.4818
Sb 206.834	1.5332	2.1276	-0.3368u
Se 196.026	2.2623	-2.5480u	-3.9775u
Sn 189.925	3.2189	1.3176	-0.0389u
Sr 216.596	49.3641	49.4884	49.3055
Ti 334.941	0.5776	0.5877	0.6247

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	-2.8689u	0.1438	-1.2134u
V 292.401	1.3579	1.4874	1.3634
Zn 206.200	29.6409	27.9020	28.6050

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0557	ppb	0.0704	126.4	-9.0249
Al 308.215	1512.99	ppb	3.5065	0.2	10802.4
As 188.980	54.9151	ppb	5.0431	9.2	36.5190
B 249.678	190.538	ppb	0.0656	0.0	2711.28
Ba 389.178	21.5135	ppb	0.2532	1.2	516.775
Be 313.042	0.0071	ppb	0.0020	27.9	-224.125
Ca 370.602	4693	ppb	17.89	0.4	14579
Cd 226.502	0.7091	ppb	0.0300	4.2	49.4093
Co 228.615	0.1652	ppb	0.4758	288.0	-1.3751
Cr 267.716	4.7006	ppb	0.0464	1.0	291.182
Cu 324.754	21.1461	ppb	0.3150	1.5	1510.40
Fe 271.441	265.965	ppb	3.2037	1.2	472.950
K 766.491	347.092	ppb	0.8684	0.3	15246.8
Mg 279.078	530.081	ppb	0.4512	0.1	1390.05
Mn 257.610	13.2500	ppb	0.0155	0.1	3453.24
Mo 202.032	-0.1221	ppb	0.0607	49.8	8.0644
Na 330.237	19005.9	ppb	130.802	0.7	816.470
Ni 231.604	1.9378	ppb	1.1898	61.4	3.2182
Pb 220.353	1.3002	ppb	1.4893	114.5	16.2639
Sb 206.834	1.1080	ppb	1.2860	116.1	9.2887
Se 196.026	-1.4211	ppb	3.2690	230.0	6.7053
Sn 189.925	1.4992	ppb	1.6365	109.2	-11.5080
Sr 216.596	49.3860	ppb	0.0934	0.2	766.250
Ti 334.941	0.5967	ppb	0.0248	4.2	101.092
Tl 190.794	-1.3129	ppb	1.5088	114.9	-9.1208
V 292.401	1.4029	ppb	0.0732	5.2	30.2867
Zn 206.200	28.7159	ppb	0.8748	3.0	51.3279

CRI^2 (Samp)

12/19/2013, 4:55:41 AM

Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.3233	4.4132	4.8088
Al 308.215	91.9950	90.2265	93.6144
As 188.980	15.8635	5.3915	17.9996
B 249.678	47.3452	46.8283	46.8098
Ba 389.178	4.6844	4.8088	5.0531
Be 313.042	1.8939	1.8828	1.9090
Ca 370.602	244.8	245.2	245.4
Cd 226.502	2.2985	2.3573	2.3572
Co 228.615	5.0003	4.9740	4.8822
Cr 267.716	5.0475	5.0656	4.7960
Cu 324.754	8.9074	8.7637	8.5179
Fe 271.441	29.1324	26.4360	31.6553
K 766.491	444.029	440.441	449.070
Mg 279.078	250.412	246.021	252.245
Mn 257.610	4.8575	4.7224	4.8296
Mo 202.032	4.1211	4.5304	4.2369
Na 330.237	531.132	803.649	509.020

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Label	Replicates Concentration		
Ni 231.604	20.7836	19.7343	20.0542
Pb 220.353	3.5925	1.3394	2.9546
Sb 206.834	7.8949	6.8968	8.6796
Se 196.026	5.5787	9.7651	1.0320
Sn 189.925	25.9417	24.6332	23.1723
Sr 216.596	5.1896	4.7118	4.8527
Ti 334.941	4.6829	4.6131	4.6818
Tl 190.794	11.1429	11.3358	9.5826
V 292.401	4.7484	4.8356	4.8009
Zn 206.200	8.5434	7.9322	9.3692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.5151	ppb	0.2583	5.7	364.428
Al 308.215	91.9453	ppb	1.6945	1.8	908.720
As 188.980	13.0849	ppb	6.7477	51.6	4.7095
B 249.678	46.9945	ppb	0.3039	0.6	718.746
Ba 389.178	4.8488	ppb	0.1875	3.9	94.7968
Be 313.042	1.8952	ppb	0.0132	0.7	3647.72
Ca 370.602	245.2	ppb	0.3387	0.1	773.6
Cd 226.502	2.3377	ppb	0.0339	1.5	131.408
Co 228.615	4.9522	ppb	0.0620	1.3	62.4314
Cr 267.716	4.9697	ppb	0.1507	3.0	306.685
Cu 324.754	8.7297	ppb	0.1970	2.3	709.799
Fe 271.441	29.0746	ppb	2.6102	9.0	63.5136
K 766.491	444.513	ppb	4.3347	1.0	19456.2
Mg 279.078	249.559	ppb	3.1984	1.3	666.985
Mn 257.610	4.8032	ppb	0.0713	1.5	1290.71
Mo 202.032	4.2961	ppb	0.2110	4.9	43.8240
Na 330.237	614.600	ppb	164.094	26.7	54.8045
Ni 231.604	20.1907	ppb	0.5378	2.7	67.9420
Pb 220.353	2.6288	ppb	1.1614	44.2	18.7535
Sb 206.834	7.8238	ppb	0.8935	11.4	19.2698
Se 196.026	5.4586	ppb	4.3678	80.0	10.0068
Sn 189.925	24.5824	ppb	1.3854	5.6	10.7332
Sr 216.596	4.9181	ppb	0.2455	5.0	84.5014
Ti 334.941	4.6593	ppb	0.0400	0.9	1266.20
Tl 190.794	10.6871	ppb	0.9614	9.0	6.6875
V 292.401	4.7950	ppb	0.0439	0.9	126.340
Zn 206.200	8.6150	ppb	0.7212	8.4	20.2761

mb 680-308061/1-a (Samp)

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Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2397	-0.0254u	-0.1621u
Al 308.215	-6.9686u	-6.9640u	-5.3556u
As 188.980	-3.3617u	1.5753	2.4571
B 249.678	1.4655	2.3155	1.6840
Ba 389.178	-0.0519u	-0.2586u	-0.0111u
Be 313.042	-0.0084u	-0.0054u	-0.0055u
Ca 370.602	-1.098u	0.0740	-0.4329u
Cd 226.502	0.0967	-0.0191u	-0.0390u
Co 228.615	-0.1524u	0.4757	0.0393
Cr 267.716	-0.1828u	0.0776	0.1370

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-0.5277u	-0.7582u	-0.6306u
Fe 271.441	3.2801	4.5624	-0.1627u
K 766.491	0.4712	0.7771	0.8939
Mg 279.078	0.6109	0.7594	1.9428
Mn 257.610	-0.1002u	-0.0606u	-0.0895u
Mo 202.032	-0.4975u	-0.3787u	-0.3214u
Na 330.237	-128.039u	9.9920	125.995
Ni 231.604	1.0024	0.6298	0.8573
Pb 220.353	-2.5431u	-2.4099u	-1.2936u
Sb 206.834	-2.9770u	-2.5606u	-3.1536u
Se 196.026	0.8447	-2.9019u	-1.9139u
Sn 189.925	-1.5706u	2.5919	5.5650
Sr 216.596	0.2070	0.0422	0.4463
Ti 334.941	-0.0110u	0.0058	0.0313
Tl 190.794	-4.7427u	-1.1163u	-1.1217u
V 292.401	0.0042	0.0941	-0.0746u
Zn 206.200	-0.6074u	0.3483	-0.2452u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0174	ppb	0.2043	1174.4	-9.5998
Al 308.215	-6.4294	ppb	0.9300	14.5	224.168
As 188.980	0.2236	ppb	3.1361	1402.6	-5.0651
B 249.678	1.8216	ppb	0.4414	24.2	91.6031
Ba 389.178	-0.1072	ppb	0.1327	123.8	-31.1310
Be 313.042	-0.0064	ppb	0.0017	26.3	-252.386
Ca 370.602	-0.4856	ppb	0.5878	121.0	9.058
Cd 226.502	0.0129	ppb	0.0733	569.2	12.8878
Co 228.615	0.1209	ppb	0.3219	266.3	-2.0047
Cr 267.716	0.0106	ppb	0.1701	1604.0	11.0239
Cu 324.754	-0.6389	ppb	0.1155	18.1	105.588
Fe 271.441	2.5599	ppb	2.4435	95.5	17.0347
K 766.491	0.7141	ppb	0.2183	30.6	280.369
Mg 279.078	1.1044	ppb	0.7299	66.1	26.0869
Mn 257.610	-0.0834	ppb	0.0205	24.6	39.2157
Mo 202.032	-0.3992	ppb	0.0898	22.5	5.8393
Na 330.237	2.6491	ppb	127.176	4800.7	29.6117
Ni 231.604	0.8298	ppb	0.1878	22.6	-0.7200
Pb 220.353	-2.0822	ppb	0.6862	33.0	9.9276
Sb 206.834	-2.8971	ppb	0.3045	10.5	3.1975
Se 196.026	-1.3237	ppb	1.9418	146.7	6.7449
Sn 189.925	2.1954	ppb	3.5843	163.3	-10.8462
Sr 216.596	0.2319	ppb	0.2032	87.6	13.4433
Ti 334.941	0.0087	ppb	0.0213	245.0	-68.7327
Tl 190.794	-2.3269	ppb	2.0922	89.9	-10.4166
V 292.401	0.0079	ppb	0.0844	1068.2	-9.1929
Zn 206.200	-0.1681	ppb	0.4825	287.0	6.7133

lles 680-308061/2-a (Samp) 12/19/2013, 5:05:16 AM Rack 3, Tube 60

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.6256	9.3664	9.9192
Al 308.215	197.463	192.417	196.713
As 188.980	20.2199	20.9656	19.8207

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	98.6501	97.5113	99.1834
Ba 389.178	9.7813	10.2641	9.8357
Be 313.042	3.9734	3.9229	3.9705
Ca 370.602	508.9	502.1	505.6
Cd 226.502	5.1016	4.9688	5.0590
Co 228.615	9.7330	9.8339	9.9161
Cr 267.716	10.1471	10.1628	10.2074
Cu 324.754	19.2853	18.7262	18.8177
Fe 271.441	51.7821	46.7909	47.5642
K 766.491	967.608	951.893	968.177
Mg 279.078	527.566	520.464	525.465
Mn 257.610	10.1657	10.0026	10.1126
Mo 202.032	9.3743	9.5721	9.8228
Na 330.237	1149.87	991.198	899.686
Ni 231.604	42.7551	40.2062	39.6795
Pb 220.353	8.6486	9.1191	10.7847
Sb 206.834	20.5858	16.8754	16.2274
Se 196.026	22.2303	10.2038	13.9947
Sn 189.925	53.0117	49.3600	51.8549
Sr 216.596	10.1858	9.9767	10.4598
Ti 334.941	9.8777	9.7585	9.8032
Tl 190.794	27.9753	24.0602	24.6109
V 292.401	10.1362	10.1831	10.3520
Zn 206.200	20.8337	18.6118	17.6918

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.6371	ppb	0.2766	2.9	790.372
Al 308.215	195.531	ppb	2.7225	1.4	1629.52
As 188.980	20.3354	ppb	0.5811	2.9	10.2196
B 249.678	98.4483	ppb	0.8542	0.9	1433.10
Ba 389.178	9.9603	ppb	0.2645	2.7	224.733
Be 313.042	3.9556	ppb	0.0283	0.7	7873.44
Ca 370.602	505.5	ppb	3.412	0.7	1584
Cd 226.502	5.0431	ppb	0.0678	1.3	269.320
Co 228.615	9.8277	ppb	0.0917	0.9	127.451
Cr 267.716	10.1725	ppb	0.0313	0.3	616.866
Cu 324.754	18.9430	ppb	0.2999	1.6	1368.50
Fe 271.441	48.7124	ppb	2.6864	5.5	98.1021
K 766.491	962.560	ppb	9.2414	1.0	41840.1
Mg 279.078	524.498	ppb	3.6486	0.7	1376.20
Mn 257.610	10.0936	ppb	0.0832	0.8	2645.68
Mo 202.032	9.5897	ppb	0.2248	2.3	86.6485
Na 330.237	1013.59	ppb	126.586	12.5	71.1765
Ni 231.604	40.8802	ppb	1.6449	4.0	141.317
Pb 220.353	9.5175	ppb	1.1224	11.8	31.6628
Sb 206.834	17.8962	ppb	2.3517	13.1	34.3629
Se 196.026	15.4763	ppb	6.1486	39.7	14.8242
Sn 189.925	51.4088	ppb	1.8663	3.6	36.5919
Sr 216.596	10.2074	ppb	0.2423	2.4	164.757
Ti 334.941	9.8131	ppb	0.0602	0.6	2745.60
Tl 190.794	25.5488	ppb	2.1193	8.3	26.2189
V 292.401	10.2238	ppb	0.1135	1.1	280.067
Zn 206.200	19.0457	ppb	1.6153	8.5	36.3843

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Cont Calib Verif (CCV) **12/19/2013, 5:10:03 AM** **Rack 4, Tube 1**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	476.903	478.146	478.175
Al 308.215	4608.23	4599.93	4616.64
As 188.980	485.506	482.930	494.760
B 249.678	468.175	470.688	473.028
Ba 389.178	4885.51	4882.82	4907.53
Be 313.042	480.231	479.294	482.342
Ca 370.602	4590	4591	4613
Cd 226.502	486.537	485.642	486.584
Co 228.615	488.304	487.431	488.617
Cr 267.716	4862.04	4859.99	4877.40
Cu 324.754	4834.87	4749.30	4799.41
Fe 271.441	4879.61	4875.02	4898.08
K 766.491	9188.05	9178.27	9243.91
Mg 279.078	4946.01	4935.57	4939.54
Mn 257.610	4787.14	4783.50	4803.31
Mo 202.032	500.218	499.665	500.589
Na 330.237	7382.39	7415.56	7433.13
Ni 231.604	2351.76	2345.43	2351.10
Pb 220.353	475.306	471.614	474.246
Sb 206.834	919.814	916.690	922.042
Se 196.026	4726.99	4737.79	4721.46
Sn 189.925	4954.88	4928.65	4952.46
Sr 216.596	2453.04	2447.61	2452.67
Ti 334.941	460.174	460.747	463.093
Tl 190.794	4843.84	4853.74	4855.19
V 292.401	4863.08	4860.35	4887.59
Zn 206.200	2422.06	2415.72	2430.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	477.741	ppb	0.7259	0.2	39667.2	95.54821
Al 308.215	4608.27	ppb	8.3533	0.2	31775.3	92.16535
As 188.980	487.732	ppb	6.2210	1.3	365.303	97.54637
B 249.678	470.630	ppb	2.4272	0.5	6591.07	94.12607
Ba 389.178	4891.96	ppb	13.5546	0.3	123545	97.83913
Be 313.042	480.622	ppb	1.5612	0.3	987236	96.12448
Ca 370.602	4598	ppb	12.84	0.3	14351	91.96114
Cd 226.502	486.254	ppb	0.5310	0.1	24800.5	97.25089
Co 228.615	488.117	ppb	0.6146	0.1	6520.47	97.62343
Cr 267.716	4866.48	ppb	9.5143	0.2	290142	97.32955
Cu 324.754	4794.53	ppb	42.9933	0.9	309261	95.89053
Fe 271.441	4884.24	ppb	12.2075	0.2	8581.92	97.68472
K 766.491	9203.41	ppb	35.4124	0.4	397913	92.03407
Mg 279.078	4940.37	ppb	5.2684	0.1	12671.8	98.80743
Mn 257.610	4791.32	ppb	10.5399	0.2	1224979	95.82635
Mo 202.032	500.157	ppb	0.4651	0.1	4045.94	100.03142
Na 330.237	7410.36	ppb	25.7677	0.3	299.073	98.80481
Ni 231.604	2349.43	ppb	3.4795	0.1	8328.75	93.97723
Pb 220.353	473.722	ppb	1.9010	0.4	902.669	94.74438
Sb 206.834	919.516	ppb	2.6882	0.3	1470.73	91.95155
Se 196.026	4728.75	ppb	8.3087	0.2	2281.82	94.57493
Sn 189.925	4945.33	ppb	14.4932	0.3	4753.91	98.90659
Sr 216.596	2451.11	ppb	3.0380	0.1	37420.8	98.04430

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	461.338	ppb	1.5467	0.3	132268	92.26760
Tl 190.794	4850.92	ppb	6.1746	0.1	6366.34	97.01842
V 292.401	4870.34	ppb	15.0000	0.3	138562	97.40677
Zn 206.200	2422.87	ppb	7.5869	0.3	3743.57	96.91473

Cont Calib Blank (CCB) 12/19/2013, 5:14:51 AM Rack 4, Tube 2
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1933	0.1755	-0.2375u
Al 308.215	-6.3852u	-7.6384u	-8.7825u
As 188.980	-2.4081u	1.1329	1.9023
B 249.678	3.2187	2.7646	2.6193
Ba 389.178	0.1872	0.7549	0.0709
Be 313.042	-0.0002u	-0.0012u	-0.0019u
Ca 370.602	0.9350	2.537	1.311
Cd 226.502	0.0009	-0.0001u	-0.1760u
Co 228.615	-0.0917u	0.1514	0.7473
Cr 267.716	0.3327	0.1175	0.1638
Cu 324.754	-0.4535u	-0.5754u	-0.7820u
Fe 271.441	-0.9591u	1.6154	3.5234
K 766.491	-0.0785u	0.4174	0.1104
Mg 279.078	0.6251	-0.1802u	-1.3549u
Mn 257.610	-0.0198u	-0.0189u	-0.0028u
Mo 202.032	0.7579	0.5139	0.4098
Na 330.237	106.187	7.1054	152.315
Ni 231.604	0.4946	0.2391	-0.1393u
Pb 220.353	-0.4079u	-1.7607u	-0.4544u
Sb 206.834	0.1530	-0.3225u	-2.6160u
Se 196.026	-2.1698u	2.4438	0.9429
Sn 189.925	1.7158	3.1563	1.0151
Sr 216.596	0.1674	0.1644	0.3514
Ti 334.941	0.1485	0.1353	0.1269
Tl 190.794	4.7943	4.5400	0.5677
V 292.401	0.4120	0.1068	-0.2052u
Zn 206.200	-1.2651u	-0.9996u	-1.8006u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0438	ppb	0.2437	556.9	-7.4113	0.04376
Al 308.215	-7.6020	ppb	1.1991	15.8	216.043	-7.60203
As 188.980	0.2090	ppb	2.2989	1099.8	-5.0765	0.20904
B 249.678	2.8675	ppb	0.3127	10.9	106.129	2.86752
Ba 389.178	0.3376	ppb	0.3660	108.4	-19.8993	0.33765
Be 313.042	-0.0011	ppb	0.0008	78.6	-241.554	-0.00108
Ca 370.602	1.594	ppb	0.8376	52.5	15.79	1.59417
Cd 226.502	-0.0584	ppb	0.1019	174.5	9.2487	-0.05838
Co 228.615	0.2690	ppb	0.4317	160.5	-0.0531	0.26899
Cr 267.716	0.2047	ppb	0.1133	55.3	22.5954	0.20468
Cu 324.754	-0.6036	ppb	0.1660	27.5	107.888	-0.60364
Fe 271.441	1.3932	ppb	2.2495	161.5	15.0334	1.39323
K 766.491	0.1498	ppb	0.2503	167.1	255.987	0.14978
Mg 279.078	-0.3033	ppb	0.9957	328.2	22.4537	-0.30335
Mn 257.610	-0.0138	ppb	0.0096	69.3	56.9894	-0.01382
Mo 202.032	0.5605	ppb	0.1787	31.9	13.6058	0.56053

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	88.5360	ppb	74.1968	83.8	33.1807	88.53603
Ni 231.604	0.1982	ppb	0.3189	160.9	-2.9609	0.19816
Pb 220.353	-0.8743	ppb	0.7679	87.8	12.1916	-0.87434
Sb 206.834	-0.9285	ppb	1.4807	159.5	6.1284	-0.92853
Se 196.026	0.4056	ppb	2.3533	580.1	7.5762	0.40564
Sn 189.925	1.9624	ppb	1.0917	55.6	-11.0708	1.96241
Sr 216.596	0.2277	ppb	0.1071	47.0	13.3797	0.22775
Ti 334.941	0.1369	ppb	0.0109	7.9	-31.9696	0.13691
Tl 190.794	3.3007	ppb	2.3702	71.8	-3.0230	3.30066
V 292.401	0.1045	ppb	0.3086	295.3	-6.6033	0.10451
Zn 206.200	-1.3551	ppb	0.4080	30.1	4.8792	-1.35510

ics 680-308061/3-a (Samp) 12/19/2013, 5:19:39 AM Rack 4, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	20.0036	20.4861	20.4563
Al 308.215	1890.32	1907.59	1898.27
As 188.980	45.3104	41.3940	42.2930
B 249.678	79.0287	80.1319	79.7456
Ba 389.178	41.5053	41.6868	41.4429
Be 313.042	20.2807	20.3467	20.2767
Ca 370.602	1967	1975	1970
Cd 226.502	20.3806	20.5656	20.3709
Co 228.615	21.0133	20.8160	20.5172
Cr 267.716	41.8168	41.9690	41.6635
Cu 324.754	39.5551	40.1467	40.1063
Fe 271.441	2070.14	2077.08	2063.86
K 766.491	1887.25	1904.96	1907.47
Mg 279.078	2072.82	2080.56	2072.08
Mn 257.610	208.050	208.935	207.748
Mo 202.032	41.0944	41.2969	40.5552
Na 330.237	2125.27	2057.17	2091.07
Ni 231.604	40.6625	40.4645	40.8728
Pb 220.353	20.8026	20.1971	20.1763
Sb 206.834	16.8598	14.6710	20.1307
Se 196.026	35.3257	44.9291	35.7261
Sn 189.925	87.3125	88.8851	85.9531
Sr 216.596	40.9593	41.3498	40.9016
Ti 334.941	39.3337	39.4812	39.3866
Tl 190.794	16.0687	17.5716	10.8537
V 292.401	41.3456	41.5636	41.5717
Zn 206.200	40.2912	39.4477	38.2335

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.3153	ppb	0.2704	1.3	1677.62
Al 308.215	1898.73	ppb	8.6417	0.5	13485.3
As 188.980	42.9992	ppb	2.0515	4.8	27.4318
B 249.678	79.6354	ppb	0.5598	0.7	1167.98
Ba 389.178	41.5450	ppb	0.1267	0.3	1030.20
Be 313.042	20.3014	ppb	0.0393	0.2	41394.4
Ca 370.602	1971	ppb	4.292	0.2	5995
Cd 226.502	20.4391	ppb	0.1097	0.5	1062.54
Co 228.615	20.7822	ppb	0.2498	1.2	273.589

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	41.8164	ppb	0.1528	0.4	2504.90
Cu 324.754	39.9360	ppb	0.3305	0.8	2723.64
Fe 271.441	2070.36	ppb	6.6154	0.3	3598.65
K 766.491	1899.89	ppb	11.0236	0.6	82340.8
Mg 279.078	2075.15	ppb	4.7009	0.2	5372.40
Mn 257.610	208.244	ppb	0.6167	0.3	53321.1
Mo 202.032	40.9822	ppb	0.3834	0.9	340.505
Na 330.237	2091.17	ppb	34.0493	1.6	114.982
Ni 231.604	40.6666	ppb	0.2041	0.5	140.586
Pb 220.353	20.3920	ppb	0.3558	1.7	52.1648
Sb 206.834	17.2205	ppb	2.7477	16.0	33.4288
Se 196.026	38.6603	ppb	5.4327	14.1	26.0486
Sn 189.925	87.3836	ppb	1.4673	1.7	71.2696
Sr 216.596	41.0703	ppb	0.2438	0.6	640.037
Ti 334.941	39.4005	ppb	0.0748	0.2	11238.8
Tl 190.794	14.8313	ppb	3.5257	23.8	11.8196
V 292.401	41.4936	ppb	0.1283	0.3	1166.05
Zn 206.200	39.3241	ppb	1.0344	2.6	67.6253

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12/19/2013, 5:24:27 AM

Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5134u	-0.0676u	-0.7185u
Al 308.215	145950	146170	146634
As 188.980	5.5998	3.0650	6.5686
B 249.678	21.9936	22.3664	21.7516
Ba 389.178	23.3349	22.5557	23.4043
Be 313.042	0.7109	0.7237	0.7296
Ca 370.602	253590	253836	253220
Cd 226.502	0.3886	0.3884	0.3495
Co 228.615	1.2186	1.0779	1.0997
Cr 267.716	2.2705	2.3025	2.4174
Cu 324.754	-0.7916u	-1.0063u	-0.9651u
Fe 271.441	3330.44	3341.72	3348.16
K 766.491	376.697	376.493	378.858
Mg 279.078	7617.72	7627.70	7676.90
Mn 257.610	31.6373	31.6723	31.9149
Mo 202.032	0.1790	0.3727	-0.2109u
Na 330.237	9314.68	9415.51	9219.11
Ni 231.604	11.8214	10.9984	11.6306
Pb 220.353	1.5164	-1.1434u	0.6235u
Sb 206.834	1.5026	-4.2620u	0.3601
Se 196.026	-1.7830u	-6.3127u	0.1095
Sn 189.925	0.3289	-0.5527u	0.2237
Sr 216.596	225.322	226.086	226.038
Ti 334.941	0.6243	0.5241	0.5887
Tl 190.794	-4.3264u	-1.5434u	-2.7611u
V 292.401	1.2302	1.1185	1.1047
Zn 206.200	13.9183	14.5627	12.8188

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4331	ppb	0.3328	76.8	-60.0502
Al 308.215	146251	ppb	348.975	0.2	1018489

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	5.0778	ppb	1.8092	35.6	0.3944
B 249.678	22.0372	ppb	0.3097	1.4	365.811
Ba 389.178	23.0983	ppb	0.4712	2.0	581.590
Be 313.042	0.7214	ppb	0.0095	1.3	1356.01
Ca 370.602	253549	ppb	310.0	0.1	788000
Cd 226.502	0.3755	ppb	0.0225	6.0	46.4092
Co 228.615	1.1321	ppb	0.0757	6.7	11.6313
Cr 267.716	2.3301	ppb	0.0773	3.3	152.472
Cu 324.754	-0.9210	ppb	0.1139	12.4	88.6744
Fe 271.441	3340.11	ppb	8.9706	0.3	5793.56
K 766.491	377.349	ppb	1.3105	0.3	16554.2
Mg 279.078	7640.77	ppb	31.6821	0.4	19681.8
Mn 257.610	31.7415	ppb	0.1512	0.5	8256.30
Mo 202.032	0.1136	ppb	0.2973	261.7	9.7994
Na 330.237	9316.43	ppb	98.2114	1.1	414.553
Ni 231.604	11.4835	ppb	0.4308	3.8	37.2357
Pb 220.353	0.3322	ppb	1.3536	407.5	11.6579
Sb 206.834	-0.7998	ppb	3.0523	381.7	6.4967
Se 196.026	-2.6621	ppb	3.3001	124.0	6.1603
Sn 189.925	-0.0000	ppb	0.48151042299.9		-12.8285
Sr 216.596	225.815	ppb	0.4280	0.2	3507.65
Ti 334.941	0.5790	ppb	0.0508	8.8	136.731
Tl 190.794	-2.8770	ppb	1.3951	48.5	-11.5256
V 292.401	1.1511	ppb	0.0688	6.0	23.4728
Zn 206.200	13.7666	ppb	0.8818	6.4	28.1632

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12/19/2013, 5:29:15 AM

Rack 4, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0436u	-0.8702u	-0.5228u
Al 308.215	184161	184532	185032
As 188.980	8.5228	3.1522	6.5138
B 249.678	44.1839	44.1718	44.8161
Ba 389.178	13.4606	12.2662	14.3781
Be 313.042	1.4643	1.4704	1.4899
Ca 370.602	250497	250581	251295
Cd 226.502	0.3004	0.5671	0.3939
Co 228.615	7.0500	7.9111	8.0130
Cr 267.716	13.1625	13.1621	13.4243
Cu 324.754	-0.5580u	-0.7917u	0.2334
Fe 271.441	8352.09	8346.64	8415.61
K 766.491	1573.69	1558.31	1568.83
Mg 279.078	27563.7	27602.0	27707.4
Mn 257.610	88.7108	88.7139	90.0651
Mo 202.032	0.1391	0.4997	-0.0063u
Na 330.237	12537.7	12666.9	12850.7
Ni 231.604	44.5463	45.8293	46.0334
Pb 220.353	0.0076u	3.3024	1.6272u
Sb 206.834	1.4558	-5.6855u	2.5265
Se 196.026	-7.6957u	-0.6082u	-6.4048u
Sn 189.925	0.5829	2.6563	1.1313
Sr 216.596	471.400	469.480	472.338
Ti 334.941	0.2251	0.2460	0.2578

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Label	Replicates Concentration		
Tl 190.794	-6.0846u	0.2541u	-3.5253u
V 292.401	2.9005	2.9423	2.8405
Zn 206.200	63.7103	64.2745	65.2408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8122	ppb	0.2652	32.7	-106.342
Al 308.215	184575	ppb	437.368	0.2	1285301
As 188.980	6.0629	ppb	2.7135	44.8	1.5544
B 249.678	44.3906	ppb	0.3685	0.8	666.395
Ba 389.178	13.3683	ppb	1.0590	7.9	399.935
Be 313.042	1.4749	ppb	0.0133	0.9	2903.22
Ca 370.602	250791	ppb	438.6	0.2	779010
Cd 226.502	0.4205	ppb	0.1353	32.2	71.6567
Co 228.615	7.6580	ppb	0.5290	6.9	98.9414
Cr 267.716	13.2496	ppb	0.1513	1.1	805.882
Cu 324.754	-0.3721	ppb	0.5373	144.4	125.977
Fe 271.441	8371.45	ppb	38.3444	0.5	14502.2
K 766.491	1566.94	ppb	7.8636	0.5	67954.4
Mg 279.078	27624.4	ppb	74.4307	0.3	71225.7
Mn 257.610	89.1633	ppb	0.7810	0.9	23127.6
Mo 202.032	0.2108	ppb	0.2606	123.6	10.2997
Na 330.237	12685.1	ppb	157.313	1.2	552.267
Ni 231.604	45.4697	ppb	0.8061	1.8	157.931
Pb 220.353	1.6457	ppb	1.6474	100.1	13.7361
Sb 206.834	-0.5677	ppb	4.4643	786.3	7.2297
Se 196.026	-4.9029	ppb	3.7749	77.0	5.1742
Sn 189.925	1.4568	ppb	1.0743	73.7	-11.4243
Sr 216.596	471.073	ppb	1.4571	0.3	7265.84
Ti 334.941	0.2430	ppb	0.0165	6.8	133.288
Tl 190.794	-3.1186	ppb	3.1889	102.3	-12.4205
V 292.401	2.8944	ppb	0.0511	1.8	74.5614
Zn 206.200	64.4085	ppb	0.7740	1.2	106.276

640-46136-c-3-a (Samp)

12/19/2013, 5:34:03 AM

Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6893u	-0.5121u	-0.8817u
Al 308.215	871791x	872737x	873015x
As 188.980	-5.0291	-1.9052	3.7818
B 249.678	41.2313	42.0778	40.7785
Ba 389.178	7.3715	6.4603	7.0837
Be 313.042	3.6643	3.6518	3.6377
Ca 370.602	422566	425108	424481
Cd 226.502	2.8796	3.0765	3.0398
Co 228.615	11.5105	11.3806	11.1215
Cr 267.716	150.974	150.558	150.665
Cu 324.754	-1.0912u	-1.4571u	-1.2703u
Fe 271.441	36971.8	36901.4	36814.2
K 766.491	1617.23	1609.57	1616.76
Mg 279.078	52814.1	52634.2	52650.6
Mn 257.610	195.683	195.840	195.545
Mo 202.032	1.1960	1.9132	1.4226
Na 330.237	13465.3	13626.7	13725.8

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Label	Replicates Concentration		
Ni 231.604	70.2905	67.1096	70.0262
Pb 220.353	10.2705	9.7972	7.8633u
Sb 206.834	4.6789	11.0098	3.8846
Se 196.026	-4.3422u	2.5652	-11.8406u
Sn 189.925	-1.3220u	-3.4003u	-0.4994u
Sr 216.596	600.733	598.028	598.279
Ti 334.941	0.2857	0.1712	0.2090
Tl 190.794	-10.4322u	-0.8339u	-1.3360u
V 292.401	27.5565	27.4079	27.6013
Zn 206.200	82.6689	81.4769	80.1799

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6943b	ppb	0.1849	26.6	-111.386
Al 308.215	872514xb	ppb	641.621	0.1	6074816
As 188.980	-1.0508b	ppb	4.4671	425.1	4.3191
B 249.678	41.3625b	ppb	0.6595	1.6	568.960
Ba 389.178	6.9718b	ppb	0.4658	6.7	354.588
Be 313.042	3.6513b	ppb	0.0133	0.4	7518.36
Ca 370.602	424052b	ppb	1324	0.3	1315303
Cd 226.502	2.9987b	ppb	0.1047	3.5	331.643
Co 228.615	11.3375b	ppb	0.1980	1.7	149.674
Cr 267.716	150.732b	ppb	0.2157	0.1	9020.66
Cu 324.754	-1.2729b	ppb	0.1830	14.4	78.5634
Fe 271.441	36895.8b	ppb	78.9240	0.2	63871.1
K 766.491	1614.52b	ppb	4.2941	0.3	70010.3
Mg 279.078	52699.6b	ppb	99.4861	0.2	135663
Mn 257.610	195.690b	ppb	0.1476	0.1	50670.1
Mo 202.032	1.5106b	ppb	0.3666	24.3	19.1630
Na 330.237	13605.9b	ppb	131.496	1.0	583.841
Ni 231.604	69.1421b	ppb	1.7651	2.6	243.045
Pb 220.353	9.3104b	ppb	1.2753	13.7	15.9696
Sb 206.834	6.5244b	ppb	3.9047	59.8	21.3862
Se 196.026	-4.5392b	ppb	7.2049	158.7	5.8108
Sn 189.925	-1.7406b	ppb	1.4951	85.9	-14.4168
Sr 216.596	599.013b	ppb	1.4942	0.2	9300.42
Ti 334.941	0.2220b	ppb	0.0584	26.3	279.403
Tl 190.794	-4.2007b	ppb	5.4025	128.6	-17.0449
V 292.401	27.5219b	ppb	0.1012	0.4	776.033
Zn 206.200	81.4419b	ppb	1.2449	1.5	131.747

640-46136-c-4-a (Samp)

12/19/2013, 5:38:51 AM

Rack 4, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0052u	-0.8651u	-1.1567u
Al 308.215	581593	583708	581138
As 188.980	-2.8583	3.2128	2.1555
B 249.678	42.1306	42.3417	42.3177
Ba 389.178	12.0093	11.2729	11.5364
Be 313.042	2.8027	2.8279	2.8137
Ca 370.602	357935	361236	358137
Cd 226.502	1.8228	1.7887	1.6084
Co 228.615	6.1343	6.6292	7.3937
Cr 267.716	63.5163	63.7912	63.3350

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-1.8640u	-1.4056u	-1.1388u
Fe 271.441	18633.9	18730.4	18667.5
K 766.491	1859.69	1866.65	1851.69
Mg 279.078	31262.5	31347.9	31206.9
Mn 257.610	146.637	147.145	146.965
Mo 202.032	1.1654	0.8395	1.6923
Na 330.237	14941.0	14746.2	14633.8
Ni 231.604	51.3482	50.3888	48.3704
Pb 220.353	1.9671u	3.0040u	-2.9927u
Sb 206.834	2.4492	2.2366	6.2290
Se 196.026	2.4951	3.7525	2.4027
Sn 189.925	-1.9359u	0.7609	1.2106
Sr 216.596	595.244	598.950	594.066
Ti 334.941	0.5651	0.6081	0.5430
Tl 190.794	-1.8709u	-7.8208u	-4.3249u
V 292.401	9.6470	10.1224	9.1911
Zn 206.200	67.0249	66.2639	66.0408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0090	ppb	0.1458	14.5	-131.318
Al 308.215	582146	ppb	1371.76	0.2	4053241
As 188.980	0.8367	ppb	3.2433	387.7	2.3787
B 249.678	42.2633	ppb	0.1156	0.3	616.842
Ba 389.178	11.6062	ppb	0.3731	3.2	382.221
Be 313.042	2.8148	ppb	0.0126	0.4	5738.46
Ca 370.602	359103	ppb	1850	0.5	1114891
Cd 226.502	1.7400	ppb	0.1152	6.6	185.256
Co 228.615	6.7190	ppb	0.6345	9.4	86.9943
Cr 267.716	63.5475	ppb	0.2297	0.4	3813.19
Cu 324.754	-1.4694	ppb	0.3668	25.0	59.1270
Fe 271.441	18677.3	ppb	49.0214	0.3	32338.9
K 766.491	1859.34	ppb	7.4901	0.4	80588.6
Mg 279.078	31272.4	ppb	71.0421	0.2	80488.5
Mn 257.610	146.916	ppb	0.2575	0.2	37956.2
Mo 202.032	1.2324	ppb	0.4303	34.9	17.9729
Na 330.237	14773.7	ppb	155.447	1.1	636.485
Ni 231.604	50.0358	ppb	1.5200	3.0	174.625
Pb 220.353	0.6595	ppb	3.2051	486.0	4.3738
Sb 206.834	3.6383	ppb	2.2462	61.7	14.8071
Se 196.026	2.8834	ppb	0.7540	26.2	9.0888
Sn 189.925	0.0119	ppb	1.7017	14322.1	-12.7610
Sr 216.596	596.087	ppb	2.5488	0.4	9212.75
Ti 334.941	0.5720	ppb	0.0331	5.8	265.610
Tl 190.794	-4.6722	ppb	2.9901	64.0	-15.6382
V 292.401	9.6535	ppb	0.4657	4.8	265.650
Zn 206.200	66.4432	ppb	0.5160	0.8	109.113

640-46136-c-5-a (Samp)

12/19/2013, 5:43:39 AM

Rack 4, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1472	-0.2489u	-0.0582u
Al 308.215	2505.16	2535.87	2543.73
As 188.980	1.4550	-3.3919u	1.8255

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	23.8844	24.5065	24.3782
Ba 389.178	0.0069	-0.1127u	0.0588
Be 313.042	0.0093	0.0025	0.0140
Ca 370.602	2011	2043	2049
Cd 226.502	-0.1216u	-0.0802u	0.0119
Co 228.615	0.0086	0.2605	0.5350
Cr 267.716	0.3750	0.4564	0.5173
Cu 324.754	0.3430	0.5678	0.4412
Fe 271.441	112.930	110.350	108.358
K 766.491	31.5992	32.3994	32.7780
Mg 279.078	184.870	185.172	184.558
Mn 257.610	0.8114	0.8277	0.8574
Mo 202.032	0.0802	-0.5387u	0.0287
Na 330.237	421.463	217.756	401.071
Ni 231.604	0.3870	0.9565	0.5310
Pb 220.353	1.0695	2.5016	0.9550
Sb 206.834	-1.9585u	-0.8890u	-1.3930u
Se 196.026	-6.6771u	2.2676	2.7809
Sn 189.925	1.0372	2.3412	1.5006
Sr 216.596	3.8769	3.5415	3.7394
Ti 334.941	0.0410	0.0774	0.0273
Tl 190.794	0.0531	0.6815	-0.8436u
V 292.401	0.2224	0.0165	0.1268
Zn 206.200	0.4937	-0.3081u	-0.0715u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0533	ppb	0.1981	371.6	-15.7080
Al 308.215	2528.25	ppb	20.3851	0.8	17870.9
As 188.980	-0.0371	ppb	2.9112	7842.4	-5.2333
B 249.678	24.2564	ppb	0.3284	1.4	402.881
Ba 389.178	-0.0156	ppb	0.0879	562.2	-28.1288
Be 313.042	0.0086	ppb	0.0058	67.2	-220.566
Ca 370.602	2034	ppb	20.10	1.0	6326
Cd 226.502	-0.0633	ppb	0.0683	107.9	9.4990
Co 228.615	0.2680	ppb	0.2633	98.2	-0.0407
Cr 267.716	0.4496	ppb	0.0714	15.9	37.2717
Cu 324.754	0.4507	ppb	0.1127	25.0	175.891
Fe 271.441	110.546	ppb	2.2921	2.1	203.948
K 766.491	32.2589	ppb	0.6018	1.9	1643.37
Mg 279.078	184.867	ppb	0.3067	0.2	499.244
Mn 257.610	0.8322	ppb	0.0233	2.8	275.253
Mo 202.032	-0.1433	ppb	0.3434	239.6	7.9040
Na 330.237	346.763	ppb	112.188	32.4	43.8406
Ni 231.604	0.6249	ppb	0.2961	47.4	-1.4430
Pb 220.353	1.5087	ppb	0.8618	57.1	16.6185
Sb 206.834	-1.4135	ppb	0.5351	37.9	5.4270
Se 196.026	-0.5428	ppb	5.3186	979.8	7.1221
Sn 189.925	1.6263	ppb	0.6611	40.6	-11.3936
Sr 216.596	3.7192	ppb	0.1686	4.5	67.2878
Ti 334.941	0.0486	ppb	0.0259	53.4	-56.3425
Tl 190.794	-0.0363	ppb	0.7665	2108.9	-7.4196
V 292.401	0.1219	ppb	0.1030	84.5	-5.9748
Zn 206.200	0.0380	ppb	0.4120	1084.1	7.0287

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640-46136-c-6-a (Samp) **12/19/2013, 5:48:27 AM** **Rack 4, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2587u	-0.4334u	-0.2823u
Al 308.215	255.393	257.228	258.304
As 188.980	-1.6046u	2.4350	-1.0595u
B 249.678	9.2968	9.3494	9.1148
Ba 389.178	25.4809	25.7065	25.4941
Be 313.042	-0.0043u	-0.0009u	-0.0002u
Ca 370.602	1201	1198	1211
Cd 226.502	0.0212	0.0111	0.0873
Co 228.615	-0.0006	0.5891	0.0777
Cr 267.716	0.4381	0.3722	0.3000
Cu 324.754	-1.0482u	-0.6205u	-0.5766u
Fe 271.441	1099.81	1101.24	1105.02
K 766.491	696.750	695.544	697.643
Mg 279.078	983.066	986.997	992.269
Mn 257.610	9.5543	9.5869	9.6392
Mo 202.032	-0.0075u	-0.2461u	-0.2257u
Na 330.237	3421.80	3549.21	3712.71
Ni 231.604	0.8278	0.8220	1.2646
Pb 220.353	0.1328	0.8932	-0.9719u
Sb 206.834	-1.7493u	-2.9736u	-3.4541u
Se 196.026	-2.5639u	-0.2009u	-4.6447u
Sn 189.925	-0.6605u	3.4301	1.8626
Sr 216.596	14.8337	14.8726	14.5545
Ti 334.941	0.6853	0.7125	0.6992
Tl 190.794	-1.0735u	-3.4382u	-3.7519u
V 292.401	0.0625	0.5322	0.2691
Zn 206.200	0.4529	1.3499	0.2490

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3248	ppb	0.0948	29.2	-39.2629
Al 308.215	256.975	ppb	1.4717	0.6	2057.99
As 188.980	-0.0764	ppb	2.1920	2869.8	-5.3032
B 249.678	9.2537	ppb	0.1231	1.3	192.654
Ba 389.178	25.5605	ppb	0.1266	0.5	621.614
Be 313.042	-0.0018	ppb	0.0022	124.6	-242.779
Ca 370.602	1203	ppb	6.893	0.6	3661
Cd 226.502	0.0399	ppb	0.0414	103.7	19.2084
Co 228.615	0.2220	ppb	0.3203	144.2	-0.5955
Cr 267.716	0.3701	ppb	0.0691	18.7	32.9083
Cu 324.754	-0.7484	ppb	0.2605	34.8	98.9472
Fe 271.441	1102.02	ppb	2.6878	0.2	1919.92
K 766.491	696.645	ppb	1.0532	0.2	30350.4
Mg 279.078	987.444	ppb	4.6179	0.5	2570.63
Mn 257.610	9.5935	ppb	0.0428	0.4	2525.11
Mo 202.032	-0.1598	ppb	0.1323	82.8	7.7146
Na 330.237	3561.24	ppb	145.829	4.1	176.790
Ni 231.604	0.9715	ppb	0.2539	26.1	-0.1866
Pb 220.353	0.0180	ppb	0.9379	5198.2	13.9513
Sb 206.834	-2.7257	ppb	0.8790	32.2	3.4940
Se 196.026	-2.4698	ppb	2.2234	90.0	6.2131
Sn 189.925	1.5441	ppb	2.0638	133.7	-11.4721
Sr 216.596	14.7536	ppb	0.1735	1.2	237.701

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.6990	ppb	0.0136	2.0	133.613
Tl 190.794	-2.7545	ppb	1.4642	53.2	-11.1062
V 292.401	0.2879	ppb	0.2354	81.8	-0.8268
Zn 206.200	0.6839	ppb	0.5857	85.6	8.0040

640-46136-c-7-a (Samp) 12/19/2013, 5:53:15 AM Rack 4, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4675	-0.0945u	-0.3757u
Al 308.215	102.630	102.751	102.218
As 188.980	4.6111	3.3120	-1.7315u
B 249.678	11.3827	11.2367	11.6128
Ba 389.178	72.0595	73.3450	72.7128
Be 313.042	0.0129	0.0151	0.0126
Ca 370.602	68738	68795	68982
Cd 226.502	-0.1272	-0.0348	-0.0844
Co 228.615	-0.0208	0.1111	-0.3147u
Cr 267.716	2.0735	2.0369	2.0439
Cu 324.754	-0.9790u	-0.7498u	-0.8441u
Fe 271.441	6703.33	6721.10	6719.18
K 766.491	1103.16	1102.33	1099.88
Mg 279.078	2563.07	2567.92	2567.10
Mn 257.610	244.905	245.283	245.741
Mo 202.032	-0.5765u	-0.4263u	0.0207u
Na 330.237	6712.19	6902.98	6780.25
Ni 231.604	1.2952	1.0594	1.3194
Pb 220.353	0.2003	-1.0756u	-1.1555u
Sb 206.834	-2.2903u	-2.4891u	-2.7398u
Se 196.026	-3.8215u	0.8630	-2.5390u
Sn 189.925	2.6074	1.5887	1.7381
Sr 216.596	381.822	384.074	382.757
Ti 334.941	0.7125	0.7448	0.8004
Tl 190.794	-2.0435u	-0.4456u	-3.1908u
V 292.401	1.4143	1.3450	1.6510
Zn 206.200	5.6429	6.4086	5.1613

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0009	ppb	0.4293	47687.6	-32.9261
Al 308.215	102.533	ppb	0.2790	0.3	982.578
As 188.980	2.0639	ppb	3.3504	162.3	-3.7460
B 249.678	11.4107	ppb	0.1896	1.7	211.713
Ba 389.178	72.7057	ppb	0.6428	0.9	1825.72
Be 313.042	0.0135	ppb	0.0014	10.3	-184.358
Ca 370.602	68838	ppb	127.4	0.2	213475
Cd 226.502	-0.0821	ppb	0.0462	56.3	38.2184
Co 228.615	-0.0748	ppb	0.2180	291.5	-4.3193
Cr 267.716	2.0515	ppb	0.0195	0.9	136.151
Cu 324.754	-0.8576	ppb	0.1152	13.4	94.0330
Fe 271.441	6714.54	ppb	9.7506	0.1	11633.7
K 766.491	1101.79	ppb	1.7049	0.2	47856.0
Mg 279.078	2566.03	ppb	2.5930	0.1	6638.82
Mn 257.610	245.310	ppb	0.4187	0.2	62816.0
Mo 202.032	-0.3273	ppb	0.3107	94.9	6.0406

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6798.47	ppb	96.6925	1.4	309.589
Ni 231.604	1.2247	ppb	0.1436	11.7	0.8701
Pb 220.353	-0.6770	ppb	0.7607	112.4	13.1589
Sb 206.834	-2.5064	ppb	0.2252	9.0	4.0522
Se 196.026	-1.8325	ppb	2.4208	132.1	6.6631
Sn 189.925	1.9781	ppb	0.5501	27.8	-11.0179
Sr 216.596	382.884	ppb	1.1311	0.3	5887.68
Ti 334.941	0.7525	ppb	0.0445	5.9	156.561
Tl 190.794	-1.8933	ppb	1.3788	72.8	-10.7434
V 292.401	1.4701	ppb	0.1605	10.9	35.0594
Zn 206.200	5.7376	ppb	0.6290	11.0	15.6808

640-46136-c-8-a (Samp)

12/19/2013, 5:58:03 AM

Rack 4, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8763u	-1.3857u	-0.2316u
Al 308.215	93907.0	93989.8	94178.3
As 188.980	7.1847	5.7997	7.8403
B 249.678	48.2436	48.4308	48.1254
Ba 389.178	9.7959	9.6739	8.4561
Be 313.042	0.8999	0.8979	0.9025
Ca 370.602	208291	207743	208308
Cd 226.502	0.0128	0.1762	0.2117
Co 228.615	2.2867	2.4157	1.8865
Cr 267.716	1.6867	1.3061	1.7190
Cu 324.754	-1.0907u	-0.9719u	-0.8884u
Fe 271.441	3647.81	3655.90	3652.92
K 766.491	1435.11	1435.42	1441.12
Mg 279.078	26162.8	26241.5	26222.8
Mn 257.610	46.8330	46.8110	46.9914
Mo 202.032	-0.1451u	-0.2866u	-0.3803u
Na 330.237	13545.4	13443.8	13241.5
Ni 231.604	23.8409	23.4049	24.6455
Pb 220.353	-1.1699u	-1.8245u	-0.0583u
Sb 206.834	0.0390	-2.9011u	-4.5439u
Se 196.026	-6.2109u	0.5091	-2.5382u
Sn 189.925	3.0217	-0.9038u	2.3215
Sr 216.596	440.086	442.792	441.867
Ti 334.941	0.1185	0.1000	0.1399
Tl 190.794	-0.0892u	-3.1782u	-6.5612u
V 292.401	0.9771	0.7072	1.0133
Zn 206.200	42.1721	43.0308	41.4613

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8312	ppb	0.5784	69.6	-105.005
Al 308.215	94025.0	ppb	139.055	0.1	654882
As 188.980	6.9416	ppb	1.0418	15.0	1.1622
B 249.678	48.2666	ppb	0.1540	0.3	729.373
Ba 389.178	9.3086	ppb	0.7408	8.0	285.843
Be 313.042	0.9001	ppb	0.0023	0.3	1697.51
Ca 370.602	208114	ppb	321.1	0.2	646720
Cd 226.502	0.1336	ppb	0.1060	79.4	35.7988
Co 228.615	2.1963	ppb	0.2760	12.6	25.8437

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1.5706	ppb	0.2296	14.6	106.800
Cu 324.754	-0.9837	ppb	0.1017	10.3	84.7471
Fe 271.441	3652.21	ppb	4.0878	0.1	6333.83
K 766.491	1437.22	ppb	3.3822	0.2	62349.2
Mg 279.078	26209.1	ppb	41.1041	0.2	67608.5
Mn 257.610	46.8785	ppb	0.0984	0.2	12290.6
Mo 202.032	-0.2707	ppb	0.1184	43.7	6.6723
Na 330.237	13410.2	ppb	154.671	1.2	583.692
Ni 231.604	23.9638	ppb	0.6293	2.6	81.4837
Pb 220.353	-1.0176	ppb	0.8929	87.7	10.2500
Sb 206.834	-2.4686	ppb	2.3218	94.1	4.0015
Se 196.026	-2.7466	ppb	3.3649	122.5	6.1283
Sn 189.925	1.4798	ppb	2.0938	141.5	-11.4236
Sr 216.596	441.582	ppb	1.3752	0.3	6800.42
Ti 334.941	0.1195	ppb	0.0200	16.7	86.2692
Tl 190.794	-3.2762	ppb	3.2371	98.8	-12.0926
V 292.401	0.8992	ppb	0.1673	18.6	17.0856
Zn 206.200	42.2214	ppb	0.7859	1.9	72.1208

640-46136-c-9-a (Samp)

12/19/2013, 6:02:51 AM

Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.7746u	-3.6431u	-3.3895u
Al 308.215	341524	341691	341939
As 188.980	14.2859	16.3844	18.4908
B 249.678	14.1246	14.4264	14.3863
Ba 389.178	8.9379	9.7117	9.8571
Be 313.042	5.4231	5.4155	5.4426
Ca 370.602	45736	45795	45868
Cd 226.502	0.9297	0.8857	0.8740
Co 228.615	-0.2897u	-0.2103u	-0.1684u
Cr 267.716	4.2333	4.2851	4.2029
Cu 324.754	-0.9642u	-1.1694u	-0.8971u
Fe 271.441	18515.8	18530.3	18601.3
K 766.491	1883.96	1874.95	1872.61
Mg 279.078	11967.2	11986.7	12004.5
Mn 257.610	92.4777	92.4807	92.9298
Mo 202.032	1.3240	-0.1085u	1.1870
Na 330.237	10514.4	10442.1	10560.2
Ni 231.604	3.5663	4.0871	3.9812
Pb 220.353	1.2071u	-2.8269u	-0.9052u
Sb 206.834	-5.8277u	-2.3632u	-1.1910u
Se 196.026	-1.4326u	-4.9316u	-2.5536u
Sn 189.925	0.6894	2.7387	0.4300
Sr 216.596	402.892	404.222	404.528
Ti 334.941	0.4518	0.4039	0.4582
Tl 190.794	-2.2234u	-5.7098u	-4.6602u
V 292.401	8.0247	7.8376	7.8960
Zn 206.200	62.0937	59.4241	59.3610

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.6024	ppb	0.1957	5.4	-337.515
Al 308.215	341718	ppb	208.874	0.1	2379350

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	16.3870	ppb	2.1024	12.8	11.2232
B 249.678	14.3124	ppb	0.1639	1.1	229.013
Ba 389.178	9.5022	ppb	0.4941	5.2	275.138
Be 313.042	5.4271	ppb	0.0140	0.3	10943.7
Ca 370.602	45800	ppb	66.41	0.1	140863
Cd 226.502	0.8965	ppb	0.0294	3.3	141.426
Co 228.615	-0.2228	ppb	0.0616	27.7	-5.8495
Cr 267.716	4.2404	ppb	0.0416	1.0	273.568
Cu 324.754	-1.0103	ppb	0.1419	14.0	88.6872
Fe 271.441	18549.1	ppb	45.7453	0.2	32116.2
K 766.491	1877.17	ppb	5.9882	0.3	81359.1
Mg 279.078	11986.1	ppb	18.6863	0.2	30819.1
Mn 257.610	92.6294	ppb	0.2602	0.3	23903.1
Mo 202.032	0.8008	ppb	0.7905	98.7	14.4910
Na 330.237	10505.5	ppb	59.5269	0.6	459.765
Ni 231.604	3.8782	ppb	0.2753	7.1	10.7917
Pb 220.353	-0.8416	ppb	2.0177	239.7	6.5877
Sb 206.834	-3.1273	ppb	2.4109	77.1	3.6100
Se 196.026	-2.9726	ppb	1.7868	60.1	6.2582
Sn 189.925	1.2860	ppb	1.2647	98.3	-11.6959
Sr 216.596	403.881	ppb	0.8696	0.2	6226.74
Ti 334.941	0.4380	ppb	0.0297	6.8	127.751
Tl 190.794	-4.1978	ppb	1.7886	42.6	-14.9837
V 292.401	7.9194	ppb	0.0957	1.2	220.898
Zn 206.200	60.2929	ppb	1.5598	2.6	99.6956

Cont Calib Verif (CCV)

12/19/2013, 6:07:39 AM

Rack 4, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	478.148	477.075	481.339
Al 308.215	4632.44	4635.39	4638.01
As 188.980	475.932	484.763	489.487
B 249.678	463.345	469.168	472.695
Ba 389.178	4889.50	4897.62	4912.48
Be 313.042	480.601	481.277	483.419
Ca 370.602	4616	4618	4637
Cd 226.502	482.779	484.969	487.286
Co 228.615	486.234	487.672	490.903
Cr 267.716	4871.31	4874.00	4891.25
Cu 324.754	4693.02	4822.86	4842.79
Fe 271.441	4878.42	4886.07	4895.42
K 766.491	9217.72	9270.04	9242.20
Mg 279.078	4915.21	4932.71	4953.31
Mn 257.610	4793.85	4797.38	4811.73
Mo 202.032	496.224	501.601	502.524
Na 330.237	7364.39	6919.07	7365.58
Ni 231.604	2326.04	2335.72	2354.67
Pb 220.353	471.332	467.044	469.465
Sb 206.834	909.384	924.522	919.920
Se 196.026	4676.02	4711.61	4734.33
Sn 189.925	4893.31	4944.62	4981.81
Sr 216.596	2443.81	2452.42	2463.79
Ti 334.941	462.516	462.998	463.889

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	4822.25	4856.87	4862.07
V 292.401	4859.73	4873.90	4880.98
Zn 206.200	2406.91	2418.31	2434.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	478.854	ppb	2.2178	0.5	39760.1	95.77078
Al 308.215	4635.28	ppb	2.7869	0.1	31963.2	92.70560
As 188.980	483.394	ppb	6.8803	1.4	362.006	96.67883
B 249.678	468.403	ppb	4.7218	1.0	6560.12	93.68052
Ba 389.178	4899.87	ppb	11.6548	0.2	123745	97.99734
Be 313.042	481.766	ppb	1.4711	0.3	989581	96.35312
Ca 370.602	4624	ppb	11.68	0.3	14431	92.47634
Cd 226.502	485.012	ppb	2.2536	0.5	24737.2	97.00230
Co 228.615	488.269	ppb	2.3911	0.5	6522.55	97.65388
Cr 267.716	4878.85	ppb	10.8193	0.2	290880	97.57709
Cu 324.754	4786.22	ppb	81.3307	1.7	308725	95.72443
Fe 271.441	4886.64	ppb	8.5144	0.2	8586.15	97.73278
K 766.491	9243.32	ppb	26.1775	0.3	399638	92.43320
Mg 279.078	4933.74	ppb	19.0723	0.4	12654.8	98.67480
Mn 257.610	4800.99	ppb	9.4679	0.2	1227451	96.01973
Mo 202.032	500.116	ppb	3.4027	0.7	4045.60	100.02327
Na 330.237	7216.35	ppb	257.451	3.6	291.119	96.21796
Ni 231.604	2338.81	ppb	14.5598	0.6	8291.08	93.55239
Pb 220.353	469.280	ppb	2.1499	0.5	894.337	93.85606
Sb 206.834	917.942	ppb	7.7606	0.8	1468.53	91.79418
Se 196.026	4707.32	ppb	29.3922	0.6	2271.52	94.14639
Sn 189.925	4939.92	ppb	44.4363	0.9	4748.69	98.79830
Sr 216.596	2453.34	ppb	10.0234	0.4	37455.2	98.13358
Ti 334.941	463.134	ppb	0.6966	0.2	132783	92.62690
Tl 190.794	4847.06	ppb	21.6496	0.4	6361.28	96.94127
V 292.401	4871.53	ppb	10.8205	0.2	138596	97.43069
Zn 206.200	2419.76	ppb	13.6387	0.6	3738.77	96.79056

Cont Calib Blank (CCB)

12/19/2013, 6:12:27 AM

Rack 4, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0469u	-0.3928u	0.2719
Al 308.215	-2.0856u	-2.1456u	-4.1735u
As 188.980	3.2299	1.2547	2.7935
B 249.678	3.2827	1.5435	2.2879
Ba 389.178	-0.0491u	0.1014	0.7225
Be 313.042	0.0266	0.0016	0.0046
Ca 370.602	0.7558	2.727	-0.2126u
Cd 226.502	0.1553	0.1523	-0.1209u
Co 228.615	0.8218	0.1211	0.4436
Cr 267.716	0.3510	0.3319	0.2448
Cu 324.754	-0.0498u	-0.1963u	-0.3802u
Fe 271.441	3.1273	5.2065	0.9545
K 766.491	0.4792	0.5658	0.2883
Mg 279.078	-2.2467u	2.3618	2.6066
Mn 257.610	0.3023	0.1221	0.0524
Mo 202.032	0.7824	0.5329	0.7592
Na 330.237	-60.1800u	-104.426u	-56.4675u

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Ni 231.604	0.2618	1.1331	1.3970
Pb 220.353	0.1742	-0.8360u	0.6554
Sb 206.834	-0.6143u	-1.7285u	-0.5695u
Se 196.026	3.3672	2.0768	-0.8276u
Sn 189.925	2.3976	2.6125	2.2639
Sr 216.596	-0.1243u	-0.0110u	0.0388
Ti 334.941	0.1937	0.1529	0.1142
Tl 190.794	2.1386	1.8815	0.8892
V 292.401	0.3455	0.0914	0.1368
Zn 206.200	-0.5614u	-1.5163u	-1.2906u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0559	ppb	0.3324	594.6	-15.6854	-0.05591
Al 308.215	-2.8016	ppb	1.1885	42.4	249.462	-2.80159
As 188.980	2.4261	ppb	1.0376	42.8	-3.3914	2.42605
B 249.678	2.3713	ppb	0.8726	36.8	99.2342	2.37134
Ba 389.178	0.2583	ppb	0.4090	158.4	-21.8977	0.25825
Be 313.042	0.0109	ppb	0.0137	125.1	-216.907	0.01094
Ca 370.602	1.090	ppb	1.498	137.4	14.01	1.09002
Cd 226.502	0.0623	ppb	0.1586	254.8	15.4049	0.06225
Co 228.615	0.4622	ppb	0.3507	75.9	2.5206	0.46217
Cr 267.716	0.3092	ppb	0.0566	18.3	28.8285	0.30923
Cu 324.754	-0.2088	ppb	0.1656	79.3	133.356	-0.20875
Fe 271.441	3.0961	ppb	2.1262	68.7	18.0037	3.09611
K 766.491	0.4444	ppb	0.1420	32.0	268.718	0.44443
Mg 279.078	0.9072	ppb	2.7342	301.4	25.5719	0.90722
Mn 257.610	0.1589	ppb	0.1290	81.2	101.161	0.15893
Mo 202.032	0.6915	ppb	0.1378	19.9	14.6655	0.69151
Na 330.237	-73.6911	ppb	26.6816	36.2	26.4620	-73.69108
Ni 231.604	0.9307	ppb	0.5941	63.8	-0.3632	0.93067
Pb 220.353	-0.0021	ppb	0.7611	35924.5	13.8275	-0.00212
Sb 206.834	-0.9708	ppb	0.6566	67.6	6.0646	-0.97076
Se 196.026	1.5388	ppb	2.1485	139.6	8.1210	1.53878
Sn 189.925	2.4247	ppb	0.1759	7.3	-10.6252	2.42466
Sr 216.596	-0.0322	ppb	0.0836	259.6	9.3761	-0.03219
Ti 334.941	0.1536	ppb	0.0398	25.9	-27.1775	0.15360
Tl 190.794	1.6364	ppb	0.6598	40.3	-5.2094	1.63643
V 292.401	0.1913	ppb	0.1355	70.9	-4.1609	0.19125
Zn 206.200	-1.1227	ppb	0.4991	44.5	5.2379	-1.12274

640-46136-c-10-a (Samp)

12/19/2013, 6:17:15 AM

Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0540u	0.1797	-0.0014u
Al 308.215	23773.3	23911.6	23821.3
As 188.980	-2.0083u	2.8063	6.4235
B 249.678	19.6816	19.9941	19.5572
Ba 389.178	27.1097	27.8581	27.8576
Be 313.042	0.4425	0.4429	0.4478
Ca 370.602	1797	1805	1798
Cd 226.502	0.1600	0.0894	-0.0497
Co 228.615	0.3266	0.3174	-0.2491u
Cr 267.716	0.6035	0.2714	0.4762

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-0.5207u	-0.2647u	-0.2399u
Fe 271.441	833.436	836.003	835.733
K 766.491	680.721	681.769	677.435
Mg 279.078	1676.07	1691.40	1691.03
Mn 257.610	4.0373	4.0280	4.0494
Mo 202.032	0.1500	-0.1210u	-0.2882u
Na 330.237	3987.13	4183.84	3956.35
Ni 231.604	3.0851	2.9545	2.4038
Pb 220.353	-2.6305u	-0.7385u	-1.8470u
Sb 206.834	-2.2762u	-2.3109u	-5.0829u
Se 196.026	0.6582	-5.1197u	3.5158
Sn 189.925	1.9265	2.1974	1.0310
Sr 216.596	83.2326	82.8154	83.9844
Ti 334.941	0.0913	0.1600	0.1559
Tl 190.794	-1.8161u	-0.7435u	1.2789
V 292.401	0.3018	0.0908	0.0939
Zn 206.200	14.9101	15.3354	13.8254

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0774	ppb	0.0927	119.8	-9.1730
Al 308.215	23835.4	ppb	70.1832	0.3	166214
As 188.980	2.4072	ppb	4.2301	175.7	-3.1210
B 249.678	19.7443	ppb	0.2251	1.1	338.828
Ba 389.178	27.6085	ppb	0.4320	1.6	674.841
Be 313.042	0.4444	ppb	0.0029	0.7	674.518
Ca 370.602	1800	ppb	4.463	0.2	5537
Cd 226.502	0.0666	ppb	0.1067	160.3	19.3738
Co 228.615	0.1317	ppb	0.3297	250.4	-1.8313
Cr 267.716	0.4504	ppb	0.1676	37.2	37.8873
Cu 324.754	-0.3418	ppb	0.1555	45.5	125.073
Fe 271.441	835.057	ppb	1.4101	0.2	1457.87
K 766.491	679.975	ppb	2.2610	0.3	29630.1
Mg 279.078	1686.16	ppb	8.7448	0.5	4364.71
Mn 257.610	4.0382	ppb	0.0107	0.3	1110.30
Mo 202.032	-0.0864	ppb	0.2211	255.9	8.3236
Na 330.237	4042.44	ppb	123.419	3.1	196.578
Ni 231.604	2.8145	ppb	0.3616	12.8	6.3556
Pb 220.353	-1.7387	ppb	0.9506	54.7	10.1393
Sb 206.834	-3.2233	ppb	1.6105	50.0	2.7437
Se 196.026	-0.3152	ppb	4.3993	1395.6	7.2434
Sn 189.925	1.7183	ppb	0.6105	35.5	-11.3037
Sr 216.596	83.3441	ppb	0.5925	0.7	1286.12
Ti 334.941	0.1357	ppb	0.0385	28.4	-23.6232
Tl 190.794	-0.4269	ppb	1.5716	368.2	-8.0154
V 292.401	0.1622	ppb	0.1209	74.6	-4.7244
Zn 206.200	14.6903	ppb	0.7786	5.3	29.6504

640-46136-c-10-aSD^5 (Samp) 12/19/2013, 6:22:03 AM Rack 4, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0634	-0.1499u	0.1844
Al 308.215	4808.80	4801.17	4754.00
As 188.980	0.0385	2.2433	3.7924

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	3.7955	3.6006	3.4494
Ba 389.178	5.3120	5.4494	5.6870
Be 313.042	0.0760	0.0729	0.0759
Ca 370.602	373.2	368.7	368.3
Cd 226.502	0.1174	0.0778	-0.0344u
Co 228.615	0.3862	-0.0028u	0.3337
Cr 267.716	0.3927	0.2976	0.3991
Cu 324.754	-0.5849u	-0.3818u	-0.7975u
Fe 271.441	171.142	173.733	165.462
K 766.491	134.742	135.552	133.877
Mg 279.078	340.634	345.265	345.456
Mn 257.610	0.7674	0.7984	0.7850
Mo 202.032	-0.4819u	-0.3551u	-0.5116u
Na 330.237	652.389	1057.22	766.614
Ni 231.604	1.6144	0.7640	-0.0953u
Pb 220.353	-0.0668u	-1.4379u	-0.0453u
Sb 206.834	-2.0657u	-4.2496u	-2.1285u
Se 196.026	0.1829	-6.5475u	-4.5336u
Sn 189.925	2.7351	1.4733	2.0595
Sr 216.596	16.5553	16.7064	16.6110
Ti 334.941	0.1312	0.0487	0.0138
Tl 190.794	-2.3323u	-4.2938u	-2.8233u
V 292.401	-0.0514u	-0.1676u	0.0161
Zn 206.200	3.6103	2.6547	1.8577

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0327	ppb	0.1693	518.4	-9.2279
Al 308.215	4787.99	ppb	29.6802	0.6	33603.5
As 188.980	2.0247	ppb	1.8865	93.2	-3.6389
B 249.678	3.6152	ppb	0.1735	4.8	116.179
Ba 389.178	5.4828	ppb	0.1897	3.5	111.265
Be 313.042	0.0749	ppb	0.0017	2.3	-85.0971
Ca 370.602	370.1	ppb	2.681	0.7	1147
Cd 226.502	0.0536	ppb	0.0787	146.9	15.7189
Co 228.615	0.2391	ppb	0.2111	88.3	-0.4176
Cr 267.716	0.3632	ppb	0.0568	15.7	32.1743
Cu 324.754	-0.5881	ppb	0.2079	35.3	108.926
Fe 271.441	170.112	ppb	4.2302	2.5	307.036
K 766.491	134.723	ppb	0.8376	0.6	6070.69
Mg 279.078	343.785	ppb	2.7303	0.8	908.424
Mn 257.610	0.7836	ppb	0.0156	2.0	264.397
Mo 202.032	-0.4495	ppb	0.0831	18.5	5.4230
Na 330.237	825.407	ppb	208.720	25.3	63.6234
Ni 231.604	0.7610	ppb	0.8549	112.3	-0.9571
Pb 220.353	-0.5166	ppb	0.7979	154.4	12.7772
Sb 206.834	-2.8146	ppb	1.2431	44.2	3.3350
Se 196.026	-3.6328	ppb	3.4544	95.1	5.6377
Sn 189.925	2.0893	ppb	0.6314	30.2	-10.9480
Sr 216.596	16.6243	ppb	0.0764	0.5	264.467
Ti 334.941	0.0646	ppb	0.0603	93.4	-50.9388
Tl 190.794	-3.1498	ppb	1.0207	32.4	-11.5166
V 292.401	-0.0676	ppb	0.0929	137.4	-11.3333
Zn 206.200	2.7076	ppb	0.8775	32.4	11.1520

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

640-46136-c-10-aPDS (Samp) 12/19/2013, 6:26:51 AM Rack 4, Tube 17**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	35.5860	34.6635	35.5623
Al 308.215	25792.0	25775.3	25766.0
As 188.980	192.995	196.221	193.922
B 249.678	478.588	481.971	486.452
Ba 389.178	222.988	223.128	223.101
Be 313.042	48.7613	48.7948	48.7354
Ca 370.602	3582	3559	3554
Cd 226.502	49.0151	49.1768	48.7492
Co 228.615	196.250	194.946	194.250
Cr 267.716	195.890	195.359	195.944
Cu 324.754	190.892	189.518	191.518
Fe 271.441	2795.42	2789.13	2795.78
K 766.491	2542.07	2538.05	2543.28
Mg 279.078	3658.39	3657.44	3660.48
Mn 257.610	202.333	201.707	201.510
Mo 202.032	197.729	199.298	197.830
Na 330.237	6184.70	6033.90	6231.46
Ni 231.604	191.705	191.761	191.667
Pb 220.353	186.977	188.451	188.667
Sb 206.834	177.766	178.480	179.266
Se 196.026	174.915	184.271	185.245
Sn 189.925	201.785	197.338	195.443
Sr 216.596	281.114	281.432	281.604
Ti 334.941	191.071	190.738	190.244
Tl 190.794	191.648	192.223	193.750
V 292.401	196.671	195.990	196.690
Zn 206.200	208.703	209.235	210.134

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	35.2706	ppb	0.5259	1.5	2910.24
Al 308.215	25777.8	ppb	13.2037	0.1	179723
As 188.980	194.379	ppb	1.6612	0.9	142.724
B 249.678	482.337	ppb	3.9447	0.8	6757.76
Ba 389.178	223.072	ppb	0.0743	0.0	5621.21
Be 313.042	48.7638	ppb	0.0298	0.1	99793.2
Ca 370.602	3565	ppb	15.20	0.4	10982
Cd 226.502	48.9804	ppb	0.2159	0.4	2519.55
Co 228.615	195.148	ppb	1.0152	0.5	2599.60
Cr 267.716	195.731	ppb	0.3231	0.2	11680.9
Cu 324.754	190.643	ppb	1.0232	0.5	12445.3
Fe 271.441	2793.44	ppb	3.7423	0.1	4871.11
K 766.491	2541.14	ppb	2.7385	0.1	110048
Mg 279.078	3658.77	ppb	1.5504	0.0	9449.47
Mn 257.610	201.850	ppb	0.4298	0.2	51702.6
Mo 202.032	198.286	ppb	0.8784	0.4	1613.08
Na 330.237	6150.02	ppb	103.250	1.7	280.051
Ni 231.604	191.711	ppb	0.0472	0.0	675.894
Pb 220.353	188.032	ppb	0.9199	0.5	365.767
Sb 206.834	178.504	ppb	0.7502	0.4	274.467
Se 196.026	181.477	ppb	5.7042	3.1	94.7126
Sn 189.925	198.189	ppb	3.2552	1.6	178.078
Sr 216.596	281.383	ppb	0.2486	0.1	4308.94

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	190.684	ppb	0.4158	0.2	54636.7
Tl 190.794	192.540	ppb	1.0860	0.6	245.646
V 292.401	196.451	ppb	0.3987	0.2	5552.57
Zn 206.200	209.357	ppb	0.7235	0.3	330.104

640-46136-c-10-b ms (Samp) 12/19/2013, 6:31:40 AM Rack 4, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	20.8285	20.9030	20.8703
Al 308.215	25795.5	25843.3	25750.4
As 188.980	47.1409	48.3693	40.8642
B 249.678	102.373	102.080	102.397
Ba 389.178	69.0073	69.3477	69.9035
Be 313.042	21.5393	21.5466	21.5131
Ca 370.602	3827	3827	3817
Cd 226.502	21.1560	21.0485	20.9960
Co 228.615	21.2745	21.0612	21.7612
Cr 267.716	43.3316	43.5994	43.2927
Cu 324.754	41.3718	41.4889	41.2650
Fe 271.441	2958.04	2965.53	2956.58
K 766.491	2668.04	2678.45	2659.16
Mg 279.078	3779.57	3782.84	3789.03
Mn 257.610	219.245	219.112	217.996
Mo 202.032	42.3088	42.4269	43.2825
Na 330.237	6424.72	6477.02	6264.18
Ni 231.604	44.0087	43.2945	42.4403
Pb 220.353	18.7249	18.7434	19.0373
Sb 206.834	19.9776	19.1895	19.9986
Se 196.026	26.9932	27.4523	19.3543
Sn 189.925	86.1943	85.4174	87.1060
Sr 216.596	125.164	125.945	124.908
Ti 334.941	40.8601	40.8721	40.6325
Tl 190.794	16.1204	16.2016	13.1918
V 292.401	43.1464	42.7187	42.4492
Zn 206.200	56.7011	55.9068	54.9463

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.8673	ppb	0.0374	0.2	1718.93
Al 308.215	25796.4	ppb	46.4502	0.2	179864
As 188.980	45.4581	ppb	4.0256	8.9	29.5851
B 249.678	102.283	ppb	0.1762	0.2	1480.70
Ba 389.178	69.4195	ppb	0.4524	0.7	1740.36
Be 313.042	21.5330	ppb	0.0176	0.1	43922.5
Ca 370.602	3824	ppb	5.402	0.1	11684
Cd 226.502	21.0668	ppb	0.0815	0.4	1098.54
Co 228.615	21.3656	ppb	0.3588	1.7	281.405
Cr 267.716	43.4079	ppb	0.1670	0.4	2600.48
Cu 324.754	41.3752	ppb	0.1120	0.3	2816.82
Fe 271.441	2960.05	ppb	4.7986	0.2	5138.55
K 766.491	2668.55	ppb	9.6561	0.4	115553
Mg 279.078	3783.81	ppb	4.8046	0.1	9771.75
Mn 257.610	218.784	ppb	0.6862	0.3	56033.4
Mo 202.032	42.6727	ppb	0.5314	1.2	354.133

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6388.64	ppb	110.917	1.7	292.596
Ni 231.604	43.2478	ppb	0.7853	1.8	149.777
Pb 220.353	18.8352	ppb	0.1753	0.9	48.8139
Sb 206.834	19.7219	ppb	0.4612	2.3	37.2150
Se 196.026	24.5999	ppb	4.5486	18.5	19.3058
Sn 189.925	86.2392	ppb	0.8452	1.0	70.1689
Sr 216.596	125.339	ppb	0.5398	0.4	1930.47
Ti 334.941	40.7883	ppb	0.1350	0.3	11645.6
Tl 190.794	15.1713	ppb	1.7147	11.3	12.1620
V 292.401	42.7714	ppb	0.3516	0.8	1202.33
Zn 206.200	55.8514	ppb	0.8787	1.6	93.1378

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	20.0772	20.2017	20.0267
Al 308.215	24738.6	24802.9	24759.1
As 188.980	46.3765	37.7510	42.4386
B 249.678	97.2420	98.0090	98.8126
Ba 389.178	67.2988	68.3468	66.5116
Be 313.042	20.8850	20.9692	20.9330
Ca 370.602	3694	3696	3678
Cd 226.502	20.6883	20.6656	20.4870
Co 228.615	20.9508	21.0319	21.1436
Cr 267.716	42.2317	42.4318	41.8029
Cu 324.754	40.1289	40.1343	40.1143
Fe 271.441	2867.81	2882.34	2867.33
K 766.491	2567.64	2576.70	2584.98
Mg 279.078	3647.07	3668.36	3671.84
Mn 257.610	212.850	213.062	212.138
Mo 202.032	42.0557	41.2427	41.0694
Na 330.237	6235.86	6125.76	5996.11
Ni 231.604	42.1053	42.3454	43.2845
Pb 220.353	19.8574	19.1546	18.4539
Sb 206.834	20.6540	14.7043	21.7382
Se 196.026	17.6479	21.7209	30.0249
Sn 189.925	90.1857	85.8061	85.8279
Sr 216.596	120.403	120.890	121.159
Ti 334.941	39.6404	39.7722	39.5483
Tl 190.794	14.0456	17.3673	11.5436
V 292.401	41.7802	41.8294	41.7418
Zn 206.200	53.1425	54.0345	54.4368

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.1019	ppb	0.0901	0.4	1655.47
Al 308.215	24766.9	ppb	32.8235	0.1	172696
As 188.980	42.1887	ppb	4.3182	10.2	27.0891
B 249.678	98.0212	ppb	0.7854	0.8	1421.69
Ba 389.178	67.3858	ppb	0.9207	1.4	1688.50
Be 313.042	20.9291	ppb	0.0422	0.2	42684.0
Ca 370.602	3689	ppb	9.349	0.3	11272
Cd 226.502	20.6136	ppb	0.1103	0.5	1075.06
Co 228.615	21.0421	ppb	0.0968	0.5	277.084

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	42.1555	ppb	0.3213	0.8	2525.74
Cu 324.754	40.1258	ppb	0.0104	0.0	2736.20
Fe 271.441	2872.49	ppb	8.5305	0.3	4986.96
K 766.491	2576.44	ppb	8.6741	0.3	111573
Mg 279.078	3662.43	ppb	13.4119	0.4	9459.07
Mn 257.610	212.683	ppb	0.4840	0.2	54472.3
Mo 202.032	41.4560	ppb	0.5266	1.3	344.294
Na 330.237	6119.24	ppb	120.010	2.0	281.477
Ni 231.604	42.5784	ppb	0.6232	1.5	147.401
Pb 220.353	19.1553	ppb	0.7018	3.7	49.4294
Sb 206.834	19.0321	ppb	3.7871	19.9	36.1744
Se 196.026	23.1312	ppb	6.3079	27.3	18.5969
Sn 189.925	87.2732	ppb	2.5223	2.9	71.1655
Sr 216.596	120.817	ppb	0.3831	0.3	1861.18
Ti 334.941	39.6536	ppb	0.1125	0.3	11319.6
Tl 190.794	14.3189	ppb	2.9215	20.4	11.0549
V 292.401	41.7838	ppb	0.0439	0.1	1174.37
Zn 206.200	53.8713	ppb	0.6624	1.2	90.0822

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Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4471u	-2.0788u	-1.4920u
Al 308.215	590661	578433	579673
As 188.980	13.0621	3.4793	1.9856
B 249.678	55.4898	54.5915	54.3697
Ba 389.178	10.0197	9.3825	9.5687
Be 313.042	3.1602	3.1009	3.1031
Ca 370.602	304101	297596	297633
Cd 226.502	1.8591	1.9419	1.9467
Co 228.615	7.3842	7.9542	7.7698
Cr 267.716	3.1331	3.0310	3.0564
Cu 324.754	-1.6041u	-1.1490u	-1.2956u
Fe 271.441	11357.4	11128.3	11144.2
K 766.491	2613.30	2556.48	2561.83
Mg 279.078	21062.0	20600.6	20627.8
Mn 257.610	138.684	136.077	135.694
Mo 202.032	1.7163	0.7771	0.6095
Na 330.237	21503.7	20996.0	21019.8
Ni 231.604	51.4614	53.0605	50.7748
Pb 220.353	-0.5345u	-1.5482u	2.1894u
Sb 206.834	1.4184	7.5160	-0.1735
Se 196.026	3.1304	0.0399	6.5865
Sn 189.925	-1.7265u	1.6158	0.3285
Sr 216.596	626.902	612.439	610.674
Ti 334.941	0.5110	0.5422	0.5986
Tl 190.794	2.7264	-7.9061u	-3.4232u
V 292.401	2.6706	2.5030	2.3919
Zn 206.200	178.533	174.146	175.051

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6726	ppb	0.3524	21.1	-184.176
Al 308.215	582922	ppb	6730.68	1.2	4058644

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.1757	ppb	6.0104	97.3	6.5387
B 249.678	54.8170	ppb	0.5931	1.1	805.651
Ba 389.178	9.6570	ppb	0.3276	3.4	291.554
Be 313.042	3.1214	ppb	0.0336	1.1	6340.28
Ca 370.602	299777	ppb	3745	1.2	931069
Cd 226.502	1.9159	ppb	0.0492	2.6	160.404
Co 228.615	7.7027	ppb	0.2909	3.8	99.5921
Cr 267.716	3.0735	ppb	0.0531	1.7	205.350
Cu 324.754	-1.3496	ppb	0.2323	17.2	64.0704
Fe 271.441	11210.0	ppb	127.915	1.1	19414.9
K 766.491	2577.20	ppb	31.3735	1.2	111606
Mg 279.078	20763.5	ppb	258.845	1.2	53374.5
Mn 257.610	136.819	ppb	1.6271	1.2	35258.6
Mo 202.032	1.0343	ppb	0.5965	57.7	16.8048
Na 330.237	21173.2	ppb	286.520	1.4	901.714
Ni 231.604	51.7656	ppb	1.1728	2.3	180.548
Pb 220.353	0.0355	ppb	1.9329	5438.0	2.5832
Sb 206.834	2.9203	ppb	4.0588	139.0	12.3667
Se 196.026	3.2522	ppb	3.2750	100.7	9.1495
Sn 189.925	0.0726	ppb	1.6858	2321.0	-12.7303
Sr 216.596	616.672	ppb	8.9036	1.4	9504.80
Ti 334.941	0.5506	ppb	0.0444	8.1	210.708
Tl 190.794	-2.8676	ppb	5.3380	186.1	-12.4354
V 292.401	2.5218	ppb	0.1403	5.6	62.2841
Zn 206.200	175.910	ppb	2.3160	1.3	278.499

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Rack 4, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1593u	-0.4885u	-0.1253u
Al 308.215	775.227	771.506	778.500
As 188.980	1.6497	-2.2748u	-5.1372u
B 249.678	14.4888	15.0740	14.6856
Ba 389.178	4.9098	4.1630	3.8688
Be 313.042	0.0045	0.0087	0.0105
Ca 370.602	452.1	451.0	450.8
Cd 226.502	-0.1364u	0.0078	0.1029
Co 228.615	-0.0053u	0.2351	-0.0909u
Cr 267.716	0.7194	0.8098	0.7279
Cu 324.754	1.0449	1.2622	0.7315
Fe 271.441	131.396	129.294	133.309
K 766.491	84.9640	85.1575	84.7885
Mg 279.078	1080.34	1082.04	1083.17
Mn 257.610	0.8367	0.8575	0.8455
Mo 202.032	-0.2164u	-0.4487u	-0.2295u
Na 330.237	4359.93	4329.55	4634.46
Ni 231.604	1.2255	1.7061	0.2930
Pb 220.353	1.1293	1.6038	0.6811
Sb 206.834	-4.3695u	-0.6425u	-1.5365u
Se 196.026	-3.1912u	-6.1714u	-9.5928u
Sn 189.925	2.3341	2.7177	4.7943
Sr 216.596	6.3037	6.1864	6.1551
Ti 334.941	0.9653	1.0410	1.0323

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Label	Replicates Concentration		
Tl 190.794	0.3033	0.9180	-0.7330u
V 292.401	1.1882	0.8452	0.8484
Zn 206.200	2.9860	1.5069	1.6361

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2577	ppb	0.2006	77.8	-32.8569
Al 308.215	775.077	ppb	3.4994	0.5	5665.00
As 188.980	-1.9208	ppb	3.4073	177.4	-6.6869
B 249.678	14.7495	ppb	0.2977	2.0	270.845
Ba 389.178	4.3139	ppb	0.5367	12.4	83.7526
Be 313.042	0.0079	ppb	0.0031	39.0	-222.848
Ca 370.602	451.3	ppb	0.6618	0.1	1404
Cd 226.502	-0.0086	ppb	0.1205	1403.3	12.3656
Co 228.615	0.0463	ppb	0.1690	364.8	-2.9664
Cr 267.716	0.7524	ppb	0.0499	6.6	55.3853
Cu 324.754	1.0129	ppb	0.2668	26.3	212.132
Fe 271.441	131.333	ppb	2.0080	1.5	239.910
K 766.491	84.9700	ppb	0.1846	0.2	3920.93
Mg 279.078	1081.85	ppb	1.4246	0.1	2814.18
Mn 257.610	0.8466	ppb	0.0105	1.2	286.899
Mo 202.032	-0.2982	ppb	0.1305	43.8	6.6476
Na 330.237	4441.31	ppb	167.957	3.8	213.446
Ni 231.604	1.0749	ppb	0.7185	66.8	0.1535
Pb 220.353	1.1381	ppb	0.4614	40.5	15.9614
Sb 206.834	-2.1829	ppb	1.9457	89.1	4.2845
Se 196.026	-6.3185	ppb	3.2033	50.7	4.3460
Sn 189.925	3.2820	ppb	1.3236	40.3	-9.7969
Sr 216.596	6.2151	ppb	0.0783	1.3	105.230
Ti 334.941	1.0129	ppb	0.0415	4.1	223.921
Tl 190.794	0.1628	ppb	0.8344	512.7	-7.1602
V 292.401	0.9606	ppb	0.1971	20.5	17.9743
Zn 206.200	2.0430	ppb	0.8192	40.1	10.1257

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Rack 4, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6467u	-1.2104u	-1.8001u
Al 308.215	908641x	908301x	909589x
As 188.980	1.5002	0.7872	-10.3453
B 249.678	48.2790	48.8671	48.8096
Ba 389.178	7.6927	6.9901	6.9652
Be 313.042	3.0841	3.0985	3.1045
Ca 370.602	457579	457175	455780
Cd 226.502	3.0138	3.1024	3.1970
Co 228.615	10.2306	9.7937	9.8499
Cr 267.716	3.9739	3.7835	4.0091
Cu 324.754	-1.7412u	-1.7364u	-1.5867u
Fe 271.441	22886.9	22824.4	22849.6
K 766.491	2782.30	2782.08	2795.90
Mg 279.078	45739.0	45729.0	45715.1
Mn 257.610	246.657	246.165	246.347
Mo 202.032	2.1184	1.4212	1.7565
Na 330.237	15551.9	15401.4	15676.1

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Label	Replicates Concentration		
Ni 231.604	69.9353	70.3386	71.8831
Pb 220.353	3.0682u	-1.6248u	-4.8478u
Sb 206.834	1.9215	2.7185	9.1097
Se 196.026	1.1299	2.9710	-5.3024u
Sn 189.925	-4.4007u	-3.7614u	-4.5724u
Sr 216.596	627.130	624.029	625.576
Ti 334.941	0.3434	0.3648	0.3089
Tl 190.794	-8.9472u	-12.8685u	-9.5167u
V 292.401	2.2405	2.4667	2.7103
Zn 206.200	99.2599	95.7601	96.1537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5524b	ppb	0.3060	19.7	-177.878
Al 308.215	908844xb	ppb	667.333	0.1	6327748
As 188.980	-2.6860b	ppb	6.6428	247.3	3.6915
B 249.678	48.6519b	ppb	0.3242	0.7	697.435
Ba 389.178	7.2160b	ppb	0.4130	5.7	318.592
Be 313.042	3.0957b	ppb	0.0105	0.3	6384.74
Ca 370.602	456845b	ppb	943.6	0.2	1418420
Cd 226.502	3.1044b	ppb	0.0916	3.0	273.767
Co 228.615	9.9581b	ppb	0.2377	2.4	130.137
Cr 267.716	3.9222b	ppb	0.1214	3.1	263.935
Cu 324.754	-1.6881b	ppb	0.0879	5.2	46.7332
Fe 271.441	22853.6b	ppb	31.4635	0.1	39567.2
K 766.491	2786.76b	ppb	7.9147	0.3	120661
Mg 279.078	45727.7b	ppb	12.0317	0.0	117660
Mn 257.610	246.390b	ppb	0.2488	0.1	63528.1
Mo 202.032	1.7654b	ppb	0.3487	19.8	22.0664
Na 330.237	15543.1b	ppb	137.559	0.9	666.984
Ni 231.604	70.7190b	ppb	1.0281	1.5	248.266
Pb 220.353	-1.1348b	ppb	3.9807	350.8	-5.4900
Sb 206.834	4.5832b	ppb	3.9403	86.0	15.2566
Se 196.026	-0.4005b	ppb	4.3438	1084.5	7.5984
Sn 189.925	-4.2448b	ppb	0.4274	10.1	-16.8134
Sr 216.596	625.578b	ppb	1.5502	0.2	9685.75
Ti 334.941	0.3391b	ppb	0.0282	8.3	281.848
Tl 190.794	-10.4441b	ppb	2.1188	20.3	-23.7438
V 292.401	2.4725b	ppb	0.2350	9.5	63.2381
Zn 206.200	97.0579b	ppb	1.9171	2.0	156.400

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Rack 4, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.7181u	-1.7112u	-1.5771u
Al 308.215	879207x	877398x	870850x
As 188.980	3.1183	4.8848	2.2844
B 249.678	53.1828	53.7696	54.3465
Ba 389.178	6.4553	6.4187	5.8932
Be 313.042	2.8418	2.8296	2.8281
Ca 370.602	476364	476584	473561
Cd 226.502	2.7619	2.8835	2.7990
Co 228.615	9.7982	10.7327	10.5366
Cr 267.716	2.8456	2.8957	2.8491

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-1.5743u	-1.2492u	-1.3946u
Fe 271.441	11424.5	11439.8	11410.8
K 766.491	3423.69	3418.87	3423.63
Mg 279.078	53475.8	53432.4	53368.3
Mn 257.610	294.129	294.126	292.887
Mo 202.032	0.8163	1.6288	0.8231
Na 330.237	15824.3	15656.7	15851.8
Ni 231.604	72.4443	74.2332	71.8279
Pb 220.353	1.8799u	0.2206u	-0.4510u
Sb 206.834	-1.9751u	5.5327	3.3535
Se 196.026	-6.6955u	-4.9520u	-11.2461u
Sn 189.925	-1.2818u	-2.9547u	-5.7562u
Sr 216.596	670.435	666.333	667.475
Ti 334.941	4.2476	4.2066	4.2626
Tl 190.794	-5.0092u	-4.6943u	-7.4495u
V 292.401	2.3137	2.2467	2.3280
Zn 206.200	92.9871	99.2475	96.1408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0021b	ppb	0.6237	31.1	-212.723
Al 308.215	875818xb	ppb	4396.42	0.5	6097821
As 188.980	3.4292b	ppb	1.3278	38.7	8.0538
B 249.678	53.7663b	ppb	0.5819	1.1	790.644
Ba 389.178	6.2557b	ppb	0.3145	5.0	297.281
Be 313.042	2.8332b	ppb	0.0075	0.3	5849.47
Ca 370.602	475503b	ppb	1685	0.4	1477378
Cd 226.502	2.8148b	ppb	0.0623	2.2	207.748
Co 228.615	10.3558b	ppb	0.4928	4.8	135.109
Cr 267.716	2.8634b	ppb	0.0280	1.0	197.291
Cu 324.754	-1.4060b	ppb	0.1628	11.6	60.5232
Fe 271.441	11425.0b	ppb	14.5121	0.1	19787.4
K 766.491	3422.06b	ppb	2.7670	0.1	148111
Mg 279.078	53425.5b	ppb	54.0468	0.1	137533
Mn 257.610	293.714b	ppb	0.7164	0.2	75659.7
Mo 202.032	1.0894b	ppb	0.4672	42.9	17.2390
Na 330.237	15777.6b	ppb	105.612	0.7	679.250
Ni 231.604	72.8352b	ppb	1.2494	1.7	255.432
Pb 220.353	0.5498b	ppb	1.1998	218.2	-2.5163
Sb 206.834	2.3037b	ppb	3.8624	167.7	11.4371
Se 196.026	-7.6312b	ppb	3.2497	42.6	3.9597
Sn 189.925	-3.3309b	ppb	2.2608	67.9	-15.9232
Sr 216.596	668.081b	ppb	2.1170	0.3	10317.4
Ti 334.941	4.2390b	ppb	0.0290	0.7	1432.21
Tl 190.794	-5.7177b	ppb	1.5081	26.4	-16.2965
V 292.401	2.2961b	ppb	0.0434	1.9	54.2354
Zn 206.200	96.1252b	ppb	3.1302	3.3	155.224

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Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7256u	-1.4362u	-1.1965u
Al 308.215	601221	600555	601247
As 188.980	5.7786	-0.2739	1.5357

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	57.7007	57.4722	57.1171
Ba 389.178	9.6330	8.6764	9.3417
Be 313.042	2.2293	2.2293	2.2416
Ca 370.602	476011	477663	475312
Cd 226.502	1.7755	1.8916	1.9526
Co 228.615	10.4914	10.7762	10.3270
Cr 267.716	49.7509	49.5395	49.7204
Cu 324.754	-1.5015u	-1.1799u	-2.0056u
Fe 271.441	12737.3	12742.1	12759.2
K 766.491	3033.81	3047.48	3053.59
Mg 279.078	39077.5	39019.0	39030.9
Mn 257.610	194.079	194.413	194.303
Mo 202.032	-0.2213u	0.1572	1.1067
Na 330.237	17977.9	17813.3	18279.4
Ni 231.604	73.6630	73.0253	74.0217
Pb 220.353	2.0022u	4.4699u	-3.7696u
Sb 206.834	0.5794	5.7121	-2.4845u
Se 196.026	-5.4625u	-8.2341u	-6.8484u
Sn 189.925	-5.6557u	-2.2091u	-1.3015u
Sr 216.596	698.963	696.982	698.911
Ti 334.941	0.7343	0.7150	0.7470
Tl 190.794	-2.5813u	-0.9829u	-7.3710u
V 292.401	4.4308	5.1075	4.6159
Zn 206.200	80.7706	80.3837	83.5763

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4528	ppb	0.2649	18.2	-171.099
Al 308.215	601007	ppb	392.410	0.1	4184554
As 188.980	2.3468	ppb	3.1067	132.4	3.8271
B 249.678	57.4300	ppb	0.2941	0.5	838.945
Ba 389.178	9.2170	ppb	0.4903	5.3	334.043
Be 313.042	2.2334	ppb	0.0071	0.3	4592.49
Ca 370.602	476329	ppb	1207	0.3	1479830
Cd 226.502	1.8732	ppb	0.0900	4.8	165.474
Co 228.615	10.5316	ppb	0.2273	2.2	137.613
Cr 267.716	49.6703	ppb	0.1143	0.2	2984.62
Cu 324.754	-1.5624	ppb	0.4162	26.6	50.8870
Fe 271.441	12746.2	ppb	11.5364	0.1	22074.1
K 766.491	3044.96	ppb	10.1277	0.3	131817
Mg 279.078	39042.5	ppb	30.9209	0.1	100528
Mn 257.610	194.265	ppb	0.1700	0.1	50113.4
Mo 202.032	0.3475	ppb	0.6842	196.9	11.1564
Na 330.237	18023.5	ppb	236.357	1.3	772.227
Ni 231.604	73.5700	ppb	0.5047	0.7	257.934
Pb 220.353	0.9008	ppb	4.2287	469.4	3.9757
Sb 206.834	1.2690	ppb	4.1416	326.4	10.8141
Se 196.026	-6.8483	ppb	1.3858	20.2	4.3317
Sn 189.925	-3.0555	ppb	2.2972	75.2	-15.6563
Sr 216.596	698.285	ppb	1.1290	0.2	10781.9
Ti 334.941	0.7321	ppb	0.0161	2.2	346.991
Tl 190.794	-3.6450	ppb	3.3243	91.2	-13.6548
V 292.401	4.7181	ppb	0.3497	7.4	123.384
Zn 206.200	81.5768	ppb	1.7424	2.1	132.651

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Cont Calib Verif (CCV) 12/19/2013, 7:05:16 AM Rack 4, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	478.892	483.320	481.035
Al 308.215	4651.32	4665.87	4642.95
As 188.980	490.086	490.370	483.613
B 249.678	470.239	473.566	473.320
Ba 389.178	4928.46	4944.64	4920.17
Be 313.042	483.042	485.429	481.337
Ca 370.602	4646	4661	4640
Cd 226.502	490.589	490.432	487.835
Co 228.615	490.837	492.002	489.434
Cr 267.716	4904.80	4913.62	4889.23
Cu 324.754	4838.25	4817.74	4727.94
Fe 271.441	4909.33	4919.92	4914.34
K 766.491	9255.81	9266.12	9216.19
Mg 279.078	4983.98	4984.78	4941.77
Mn 257.610	4831.84	4832.58	4808.19
Mo 202.032	504.564	507.828	501.437
Na 330.237	7188.49	7142.77	7229.94
Ni 231.604	2367.47	2374.10	2360.17
Pb 220.353	477.693	474.073	472.598
Sb 206.834	930.115	926.003	920.132
Se 196.026	4769.80	4780.39	4734.04
Sn 189.925	5007.71	5012.11	4988.04
Sr 216.596	2478.46	2476.11	2463.38
Ti 334.941	463.819	465.018	462.966
Tl 190.794	4893.73	4898.10	4871.15
V 292.401	4899.32	4904.13	4879.39
Zn 206.200	2440.02	2444.78	2428.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	481.082	ppb	2.2145	0.5	39944.3	96.21648
Al 308.215	4653.38	ppb	11.5971	0.2	32086.6	93.06759
As 188.980	488.023	ppb	3.8220	0.8	365.523	97.60463
B 249.678	472.375	ppb	1.8540	0.4	6615.23	94.47502
Ba 389.178	4931.09	ppb	12.4418	0.3	124534	98.62177
Be 313.042	483.269	ppb	2.0552	0.4	992673	96.65383
Ca 370.602	4649	ppb	10.95	0.2	14511	92.98472
Cd 226.502	489.619	ppb	1.5465	0.3	24972.0	97.92377
Co 228.615	490.758	ppb	1.2856	0.3	6555.74	98.15152
Cr 267.716	4902.55	ppb	12.3493	0.3	292293	98.05102
Cu 324.754	4794.64	ppb	58.6739	1.2	309268	95.89289
Fe 271.441	4914.53	ppb	5.2969	0.1	8634.99	98.29064
K 766.491	9246.04	ppb	26.3610	0.3	399755	92.46039
Mg 279.078	4970.18	ppb	24.6008	0.5	12748.1	99.40353
Mn 257.610	4824.20	ppb	13.8742	0.3	1233386	96.48404
Mo 202.032	504.610	ppb	3.1957	0.6	4081.92	100.92196
Na 330.237	7187.07	ppb	43.6032	0.6	289.556	95.82757
Ni 231.604	2367.25	ppb	6.9709	0.3	8391.95	94.68997
Pb 220.353	474.788	ppb	2.6213	0.6	904.668	94.95760
Sb 206.834	925.417	ppb	5.0170	0.5	1480.24	92.54166
Se 196.026	4761.41	ppb	24.2849	0.5	2297.53	95.22824
Sn 189.925	5002.62	ppb	12.8158	0.3	4809.13	100.05235
Sr 216.596	2472.65	ppb	8.1139	0.3	37749.6	98.90596

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	463.935	ppb	1.0310	0.2	133012	92.78692
Tl 190.794	4887.66	ppb	14.4609	0.3	6414.61	97.75323
V 292.401	4894.28	ppb	13.1190	0.3	139243	97.88560
Zn 206.200	2437.68	ppb	8.5088	0.3	3766.41	97.50728

Cont Calib Blank (CCB)

12/19/2013, 7:10:04 AM

Rack 4, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0053	-0.3578u	-0.1463u
Al 308.215	-0.2079u	2.5885	-1.6284u
As 188.980	1.0137	1.8350	2.9398
B 249.678	2.5656	2.4806	1.8711
Ba 389.178	0.6259	0.5834	0.1088
Be 313.042	0.0005	-0.0045u	-0.0031u
Ca 370.602	5.511	6.552	2.568
Cd 226.502	0.0270	0.1115	0.0342
Co 228.615	0.1910	-0.3201u	-0.0225u
Cr 267.716	0.0536	0.0161	0.2195
Cu 324.754	-0.1573u	-0.3871u	-0.7307u
Fe 271.441	1.9925	-4.5901u	-1.7457u
K 766.491	-0.1539u	0.5792	0.2207
Mg 279.078	-1.1229u	1.3805	0.8773
Mn 257.610	-0.0572u	-0.0658u	-0.0509u
Mo 202.032	-0.0416u	0.5441	0.4512
Na 330.237	165.650	32.8953	86.5799
Ni 231.604	0.4444	1.6512	0.5519
Pb 220.353	0.7864	2.9332	0.6866
Sb 206.834	3.0960	-0.3757u	-3.3409u
Se 196.026	-0.9117u	-6.9531u	-5.1786u
Sn 189.925	0.7444	1.5388	1.7198
Sr 216.596	-0.4247u	0.0688	0.2027
Ti 334.941	0.1861	0.2024	0.1864
Tl 190.794	2.5443	3.0381	-1.0696u
V 292.401	-0.0613u	0.1113	0.1445
Zn 206.200	-1.2893u	-0.7930u	-0.2922u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1663	ppb	0.1824	109.7	-24.8635	-0.16625
Al 308.215	0.2508	ppb	2.1455	855.6	270.710	0.25076
As 188.980	1.9295	ppb	0.9665	50.1	-3.7687	1.92950
B 249.678	2.3057	ppb	0.3788	16.4	98.3250	2.30574
Ba 389.178	0.4394	ppb	0.2871	65.3	-17.3272	0.43939
Be 313.042	-0.0024	ppb	0.0026	108.5	-244.221	-0.00239
Ca 370.602	4.877	ppb	2.066	42.4	25.86	4.87699
Cd 226.502	0.0576	ppb	0.0469	81.4	15.1624	0.05756
Co 228.615	-0.0505	ppb	0.2567	508.0	-4.3082	-0.05053
Cr 267.716	0.0964	ppb	0.1082	112.3	16.1370	0.09638
Cu 324.754	-0.4250	ppb	0.2886	67.9	119.399	-0.42503
Fe 271.441	-1.4477	ppb	3.3014	228.0	10.0814	-1.44774
K 766.491	0.2153	ppb	0.3666	170.2	258.820	0.21534
Mg 279.078	0.3783	ppb	1.3242	350.0	24.2106	0.37830
Mn 257.610	-0.0580	ppb	0.0075	12.9	45.7064	-0.05799
Mo 202.032	0.3179	ppb	0.3148	99.0	11.6425	0.31792

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	95.0419	ppb	66.7809	70.3	33.4500	95.04190
Ni 231.604	0.8825	ppb	0.6679	75.7	-0.5326	0.88248
Pb 220.353	1.4687	ppb	1.2692	86.4	16.5869	1.46871
Sb 206.834	-0.2069	ppb	3.2218	1557.2	7.2128	-0.20690
Se 196.026	-4.3478	ppb	3.1052	71.4	5.2912	-4.34780
Sn 189.925	1.3343	ppb	0.5189	38.9	-11.6762	1.33432
Sr 216.596	-0.0511	ppb	0.3304	646.8	9.1027	-0.05109
Ti 334.941	0.1916	ppb	0.0093	4.9	-16.2722	0.19162
Tl 190.794	1.5043	ppb	2.2427	149.1	-5.3839	1.50428
V 292.401	0.0648	ppb	0.1105	170.5	-7.6949	0.06482
Zn 206.200	-0.7915	ppb	0.4985	63.0	5.7501	-0.79149

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12/19/2013, 7:14:52 AM

Rack 4, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4164u	-1.0668u	-1.5930u
Al 308.215	446420	446743	447221
As 188.980	8.0818	10.9302	9.0565
B 249.678	41.2327	41.3314	41.3170
Ba 389.178	11.7090	12.1170	11.2588
Be 313.042	3.7062	3.7214	3.7341
Ca 370.602	209481	210438	211225
Cd 226.502	1.2519	1.2123	1.3153
Co 228.615	2.1651	2.5834	2.0317
Cr 267.716	28.7182	29.2234	29.6390
Cu 324.754	-1.0088u	-0.9836u	-0.4188u
Fe 271.441	15468.2	15485.9	15523.2
K 766.491	1868.14	1869.92	1880.31
Mg 279.078	17412.0	17403.7	17389.8
Mn 257.610	121.266	121.804	123.068
Mo 202.032	0.1398	0.9864	0.0883u
Na 330.237	14932.7	15307.2	15607.5
Ni 231.604	30.6925	31.3653	31.3529
Pb 220.353	-1.7357u	-1.2683u	1.9474u
Sb 206.834	2.0006	5.7267	0.6780
Se 196.026	5.4828	-3.7735u	-3.5356u
Sn 189.925	-3.9010u	0.7109	4.2454
Sr 216.596	709.151	711.603	710.142
Ti 334.941	0.6980	0.7060	0.6903
Tl 190.794	-1.8746u	-1.9783u	-6.5458u
V 292.401	4.2851	4.3046	4.8827
Zn 206.200	65.8895	66.3194	67.5860

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3587	ppb	0.2678	19.7	-165.364
Al 308.215	446795	ppb	403.092	0.1	3110906
As 188.980	9.3562	ppb	1.4476	15.5	7.2144
B 249.678	41.2937	ppb	0.0533	0.1	609.549
Ba 389.178	11.6949	ppb	0.4293	3.7	340.637
Be 313.042	3.7206	ppb	0.0140	0.4	7519.86
Ca 370.602	210381	ppb	873.3	0.4	652788
Cd 226.502	1.2599	ppb	0.0519	4.1	146.283
Co 228.615	2.2601	ppb	0.2879	12.7	27.2699

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	29.1935	ppb	0.4611	1.6	1762.12
Cu 324.754	-0.8038	ppb	0.3336	41.5	100.868
Fe 271.441	15492.4	ppb	28.0398	0.2	26826.2
K 766.491	1872.79	ppb	6.5705	0.4	81169.6
Mg 279.078	17401.8	ppb	11.1742	0.1	44752.3
Mn 257.610	122.046	ppb	0.9252	0.8	31464.2
Mo 202.032	0.4048	ppb	0.5043	124.6	11.4656
Na 330.237	15282.4	ppb	338.103	2.2	658.267
Ni 231.604	31.1369	ppb	0.3849	1.2	107.442
Pb 220.353	-0.3522	ppb	2.0052	569.3	5.0660
Sb 206.834	2.8017	ppb	2.6179	93.4	12.8400
Se 196.026	-0.6088	ppb	5.2768	866.8	7.3553
Sn 189.925	0.3518	ppb	4.0851	1161.3	-12.5098
Sr 216.596	710.299	ppb	1.2336	0.2	10931.2
Ti 334.941	0.6981	ppb	0.0078	1.1	231.623
Tl 190.794	-3.4662	ppb	2.6675	77.0	-13.6995
V 292.401	4.4908	ppb	0.3396	7.6	119.919
Zn 206.200	66.5983	ppb	0.8820	1.3	109.473

640-46136-c-16-b ms (Samp) 12/19/2013, 7:19:41 AM Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	20.3752	20.4016	20.0575
Al 308.215	460358	461147	461878
As 188.980	48.5181	46.6855	44.8494
B 249.678	123.015	123.517	124.751
Ba 389.178	53.5875	52.7990	52.9715
Be 313.042	25.0893	25.0753	25.1208
Ca 370.602	217413	218643	219064
Cd 226.502	21.7929	22.0871	21.9022
Co 228.615	22.4330	22.7942	23.1015
Cr 267.716	72.2247	72.1571	72.2966
Cu 324.754	44.1141	43.2284	43.5355
Fe 271.441	17884.1	17910.8	17938.8
K 766.491	4570.15	4551.60	4563.09
Mg 279.078	19979.9	19947.7	19967.7
Mn 257.610	332.977	333.346	334.375
Mo 202.032	42.4489	43.1198	42.7698
Na 330.237	18119.8	18357.4	18252.9
Ni 231.604	70.8336	71.3105	70.7933
Pb 220.353	22.1137	21.1064	19.9810
Sb 206.834	20.7333	19.4868	20.7896
Se 196.026	52.8177	37.2787	28.2404
Sn 189.925	81.7019	79.8509	84.8111
Sr 216.596	772.966	772.561	770.739
Ti 334.941	40.4631	40.6923	40.8143
Tl 190.794	15.1151	12.0093	14.2946
V 292.401	46.1928	46.1426	46.5686
Zn 206.200	107.401	112.818	111.032

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.2781	ppb	0.1915	0.9	1632.03
Al 308.215	461128	ppb	760.392	0.2	3210692

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	46.6843	ppb	1.8343	3.9	35.7221
B 249.678	123.761	ppb	0.8934	0.7	1749.86
Ba 389.178	53.1193	ppb	0.4145	0.8	1398.16
Be 313.042	25.0951	ppb	0.0233	0.1	51357.3
Ca 370.602	218374	ppb	857.9	0.4	677466
Cd 226.502	21.9274	ppb	0.1487	0.7	1209.81
Co 228.615	22.7762	ppb	0.3346	1.5	300.938
Cr 267.716	72.2262	ppb	0.0697	0.1	4329.44
Cu 324.754	43.6260	ppb	0.4497	1.0	2967.65
Fe 271.441	17911.2	ppb	27.3310	0.2	31015.3
K 766.491	4561.61	ppb	9.3651	0.2	197349
Mg 279.078	19965.1	ppb	16.2495	0.1	51356.2
Mn 257.610	333.566	ppb	0.7244	0.2	85567.6
Mo 202.032	42.7795	ppb	0.3355	0.8	354.149
Na 330.237	18243.4	ppb	119.110	0.7	779.654
Ni 231.604	70.9791	ppb	0.2877	0.4	248.784
Pb 220.353	21.0670	ppb	1.0669	5.1	45.0876
Sb 206.834	20.3366	ppb	0.7364	3.6	39.2287
Se 196.026	39.4456	ppb	12.4311	31.5	26.6989
Sn 189.925	82.1213	ppb	2.5066	3.1	66.3140
Sr 216.596	772.088	ppb	1.1864	0.2	11879.7
Ti 334.941	40.6566	ppb	0.1783	0.4	11704.5
Tl 190.794	13.8063	ppb	1.6094	11.7	8.6456
V 292.401	46.3013	ppb	0.2328	0.5	1304.25
Zn 206.200	110.417	ppb	2.7604	2.5	177.060

640-46136-c-16-c msd (Samp) 12/19/2013, 7:24:29 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	19.4494	18.7996	19.2382
Al 308.215	440006	440079	439888
As 188.980	54.9347	58.5409	48.9108
B 249.678	118.740	118.548	118.740
Ba 389.178	51.5691	50.6967	50.2486
Be 313.042	24.1141	24.0809	24.0268
Ca 370.602	208165	208686	208248
Cd 226.502	20.8992	21.2325	20.8645
Co 228.615	22.7162	21.5670	21.6613
Cr 267.716	69.4109	69.2610	69.1383
Cu 324.754	41.7118	41.0558	41.1860
Fe 271.441	17140.8	17115.7	17090.6
K 766.491	4349.41	4351.73	4355.23
Mg 279.078	19101.3	19078.2	19049.9
Mn 257.610	319.414	320.082	319.114
Mo 202.032	40.0328	41.6241	40.9168
Na 330.237	17602.2	17434.6	17057.8
Ni 231.604	69.1365	68.5588	68.4810
Pb 220.353	20.7470	19.2082	19.7472
Sb 206.834	25.4993	24.2741	21.5192
Se 196.026	32.6502	40.6410	34.0300
Sn 189.925	75.9796	81.9204	78.0257
Sr 216.596	738.030	737.251	735.488
Ti 334.941	39.0019	38.9546	38.9432

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Label	Replicates Concentration		
Tl 190.794	15.0821	7.2024	15.6462
V 292.401	44.7158	45.3618	44.4493
Zn 206.200	103.677	101.824	102.573

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.1624	ppb	0.3315	1.7	1541.35
Al 308.215	439991	ppb	96.6652	0.0	3063537
As 188.980	54.1288	ppb	4.8654	9.0	41.1326
B 249.678	118.676	ppb	0.1105	0.1	1680.80
Ba 389.178	50.8381	ppb	0.6715	1.3	1336.80
Be 313.042	24.0739	ppb	0.0440	0.2	49257.4
Ca 370.602	208366	ppb	279.6	0.1	646419
Cd 226.502	20.9987	ppb	0.2032	1.0	1158.94
Co 228.615	21.9815	ppb	0.6380	2.9	290.314
Cr 267.716	69.2701	ppb	0.1366	0.2	4152.61
Cu 324.754	41.3179	ppb	0.3473	0.8	2818.46
Fe 271.441	17115.7	ppb	25.0938	0.1	29638.3
K 766.491	4352.12	ppb	2.9309	0.1	188297
Mg 279.078	19076.5	ppb	25.7053	0.1	49071.4
Mn 257.610	319.536	ppb	0.4955	0.2	81970.8
Mo 202.032	40.8579	ppb	0.7973	2.0	338.647
Na 330.237	17364.8	ppb	278.840	1.6	743.539
Ni 231.604	68.7254	ppb	0.3581	0.5	240.759
Pb 220.353	19.9008	ppb	0.7808	3.9	43.2751
Sb 206.834	23.7642	ppb	2.0384	8.6	44.3174
Se 196.026	35.7738	ppb	4.2712	11.9	24.9183
Sn 189.925	78.6419	ppb	3.0180	3.8	62.9548
Sr 216.596	736.923	ppb	1.3022	0.2	11339.2
Ti 334.941	38.9665	ppb	0.0311	0.1	11214.8
Tl 190.794	12.6436	ppb	4.7206	37.3	7.2126
V 292.401	44.8423	ppb	0.4692	1.0	1262.96
Zn 206.200	102.691	ppb	0.9321	0.9	165.146

mb 680-308017/1-a (Samp)

12/19/2013, 7:29:17 AM

Rack 4, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3128	0.1273	-0.0634u
Al 308.215	12.3078	0.9217	0.2316
As 188.980	-0.8497u	0.4073	0.9068
B 249.678	2.0083	2.1830	1.7575
Ba 389.178	0.3483	-0.0937u	-0.5508u
Be 313.042	-0.0155u	-0.0154u	-0.0163u
Ca 370.602	11.89	4.782	9.623
Cd 226.502	0.1827	0.0122	0.0527
Co 228.615	0.3366	0.1442	-0.1627u
Cr 267.716	0.2910	0.2641	0.1492
Cu 324.754	-0.2383u	-0.7742u	-0.7838u
Fe 271.441	6.5444	5.7840	1.2457
K 766.491	1.1126	1.1916	0.6814
Mg 279.078	2.9450	2.8750	2.4733
Mn 257.610	-0.0552u	-0.0585u	-0.0397u
Mo 202.032	-0.1283u	-0.0963u	0.1314
Na 330.237	7.1024	130.563	-8.1766u

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Label	Replicates Concentration		
Ni 231.604	1.6402	0.1227	0.3671
Pb 220.353	-1.2451u	-1.8994u	0.7398
Sb 206.834	-4.2086u	1.3663	-2.4730u
Se 196.026	4.0188	1.9995	0.6063
Sn 189.925	1.2322	1.9925	3.3796
Sr 216.596	0.1467	0.3761	-0.1972u
Ti 334.941	0.0474	0.0633	0.0558
Tl 190.794	-0.9897u	-4.1924u	0.1998
V 292.401	-0.1622u	-0.3660u	-0.2193u
Zn 206.200	0.0867	-0.5854u	0.1696

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1256	ppb	0.1881	149.8	-0.6124
Al 308.215	4.4870	ppb	6.7817	151.1	300.223
As 188.980	0.1548	ppb	0.9051	584.7	-5.1174
B 249.678	1.9829	ppb	0.2139	10.8	93.8401
Ba 389.178	-0.0987	ppb	0.4496	455.3	-30.9090
Be 313.042	-0.0157	ppb	0.0005	3.1	-271.661
Ca 370.602	8.764	ppb	3.629	41.4	37.73
Cd 226.502	0.0825	ppb	0.0891	108.0	16.4414
Co 228.615	0.1060	ppb	0.2518	237.5	-2.2129
Cr 267.716	0.2348	ppb	0.0753	32.1	24.3931
Cu 324.754	-0.5987	ppb	0.3122	52.1	108.192
Fe 271.441	4.5247	ppb	2.8650	63.3	20.4306
K 766.491	0.9952	ppb	0.2746	27.6	292.517
Mg 279.078	2.7644	ppb	0.2545	9.2	30.3643
Mn 257.610	-0.0512	ppb	0.0101	19.7	47.4833
Mo 202.032	-0.0311	ppb	0.1416	456.0	8.8191
Na 330.237	43.1631	ppb	76.0755	176.3	31.2873
Ni 231.604	0.7100	ppb	0.8148	114.8	-1.1449
Pb 220.353	-0.8016	ppb	1.3744	171.5	12.3289
Sb 206.834	-1.7718	ppb	2.8528	161.0	4.8777
Se 196.026	2.2082	ppb	1.7158	77.7	8.4428
Sn 189.925	2.2014	ppb	1.0888	49.5	-10.8404
Sr 216.596	0.1085	ppb	0.2886	265.8	11.5585
Ti 334.941	0.0555	ppb	0.0079	14.3	-55.3038
Tl 190.794	-1.6607	ppb	2.2717	136.8	-9.5420
V 292.401	-0.2491	ppb	0.1051	42.2	-16.6003
Zn 206.200	-0.1097	ppb	0.4141	377.4	6.8032

lcs 680-308017/2-a (Samp)

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Rack 4, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.3004	47.7027	47.2939
Al 308.215	4565.65	4587.31	4537.02
As 188.980	97.7521	103.529	97.5987
B 249.678	187.094	190.013	186.461
Ba 389.178	99.0355	99.0341	97.9986
Be 313.042	49.0889	49.2906	48.6684
Ca 370.602	4753	4781	4740
Cd 226.502	48.1114	48.6470	47.9745
Co 228.615	48.9038	49.9927	48.4020
Cr 267.716	100.048	100.410	99.2993

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Label	Replicates Concentration		
Cu 324.754	97.8124	97.7566	96.6725
Fe 271.441	4913.66	4932.44	4887.65
K 766.491	4497.19	4511.28	4457.34
Mg 279.078	4876.62	4910.32	4844.33
Mn 257.610	496.351	499.892	495.399
Mo 202.032	100.142	101.487	99.7043
Na 330.237	5147.03	5412.06	5076.25
Ni 231.604	92.9348	95.7295	94.7702
Pb 220.353	48.4316	46.9143	46.7506
Sb 206.834	46.1016	45.1927	44.2862
Se 196.026	93.3949	91.7948	91.2104
Sn 189.925	202.703	200.655	202.632
Sr 216.596	97.7369	98.9492	98.4699
Ti 334.941	95.7119	95.9567	95.0725
Tl 190.794	36.6774	35.3646	35.3432
V 292.401	99.9859	100.335	99.0844
Zn 206.200	93.1244	96.3179	95.5991

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.7657	ppb	0.5062	1.1	3959.30
Al 308.215	4563.33	ppb	25.2271	0.6	32032.8
As 188.980	99.6266	ppb	3.3804	3.4	70.4509
B 249.678	187.856	ppb	1.8949	1.0	2665.01
Ba 389.178	98.6894	ppb	0.5982	0.6	2486.24
Be 313.042	49.0160	ppb	0.3175	0.6	100281
Ca 370.602	4758	ppb	20.83	0.4	14466
Cd 226.502	48.2443	ppb	0.3554	0.7	2491.59
Co 228.615	49.0995	ppb	0.8133	1.7	651.274
Cr 267.716	99.9190	ppb	0.5663	0.6	5970.94
Cu 324.754	97.4138	ppb	0.6426	0.7	6432.34
Fe 271.441	4911.25	ppb	22.4899	0.5	8519.35
K 766.491	4488.60	ppb	27.9757	0.6	194195
Mg 279.078	4877.09	ppb	32.9969	0.7	12594.8
Mn 257.610	497.214	ppb	2.3676	0.5	127227
Mo 202.032	100.444	ppb	0.9288	0.9	821.407
Na 330.237	5211.78	ppb	177.024	3.4	242.653
Ni 231.604	94.4781	ppb	1.4201	1.5	331.462
Pb 220.353	47.3655	ppb	0.9269	2.0	102.868
Sb 206.834	45.1935	ppb	0.9077	2.0	75.4220
Se 196.026	92.1334	ppb	1.1309	1.2	51.8684
Sn 189.925	201.996	ppb	1.1627	0.6	181.749
Sr 216.596	98.3853	ppb	0.6106	0.6	1519.39
Ti 334.941	95.5804	ppb	0.4565	0.5	27364.8
Tl 190.794	35.7951	ppb	0.7642	2.1	38.9373
V 292.401	99.8016	ppb	0.6451	0.6	2817.64
Zn 206.200	95.0138	ppb	1.6753	1.8	153.522

680-97080-b-21-a (Samp)

12/19/2013, 7:38:54 AM

Rack 4, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0616u	0.1036u	0.1263u
Al 308.215	16.0904	16.1746	17.7208
As 188.980	4.3101	4.2538	1.4474

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Label	Replicates Concentration		
B 249.678	155.773	156.227	155.826
Ba 389.178	66.0372	66.7258	66.4016
Be 313.042	-0.0261u	-0.0321u	-0.0286u
Ca 370.602	99064	98952	99085
Cd 226.502	1.2350	1.3386	1.2606
Co 228.615	0.6981	0.2242	1.0563
Cr 267.716	72.6183	72.3608	72.5913
Cu 324.754	2.6709	2.9280	2.9960
Fe 271.441	122.050	128.381	128.917
K 766.491	4724.63	4709.72	4719.49
Mg 279.078	16535.8	16488.9	16499.3
Mn 257.610	4.1233	4.1507	4.1187
Mo 202.032	38.5678	38.9150	39.5025
Na 330.237	45047.2	44982.8	44856.2
Ni 231.604	3.6141	4.1571	3.9532
Pb 220.353	0.1485	1.6760	1.1543
Sb 206.834	0.4539	1.3308	7.6934
Se 196.026	1.9417	7.4332	-0.0827u
Sn 189.925	0.1101	4.8978	0.6807
Sr 216.596	626.295	626.236	626.757
Ti 334.941	1.4670	1.4448	1.4383
Tl 190.794	-1.5236u	-2.2267u	-0.1457u
V 292.401	1.5482	1.6297	1.3400
Zn 206.200	6.3617	4.5918	3.5567

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0561	ppb	0.1026	182.9	-39.6537
Al 308.215	16.6619	ppb	0.9180	5.5	387.166
As 188.980	3.3371	ppb	1.6367	49.0	-2.7129
B 249.678	155.942	ppb	0.2484	0.2	2231.22
Ba 389.178	66.3882	ppb	0.3445	0.5	1694.69
Be 313.042	-0.0289	ppb	0.0030	10.4	-270.911
Ca 370.602	99034	ppb	71.88	0.1	307890
Cd 226.502	1.2781	ppb	0.0540	4.2	77.8743
Co 228.615	0.6595	ppb	0.4174	63.3	4.2458
Cr 267.716	72.5235	ppb	0.1415	0.2	4335.56
Cu 324.754	2.8650	ppb	0.1715	6.0	332.960
Fe 271.441	126.449	ppb	3.8196	3.0	231.721
K 766.491	4717.95	ppb	7.5768	0.2	204104
Mg 279.078	16508.0	ppb	24.6342	0.1	42615.1
Mn 257.610	4.1309	ppb	0.0173	0.4	1264.31
Mo 202.032	38.9951	ppb	0.4725	1.2	324.619
Na 330.237	44962.0	ppb	97.1598	0.2	1892.26
Ni 231.604	3.9082	ppb	0.2743	7.0	10.2015
Pb 220.353	0.9929	ppb	0.7764	78.2	15.6457
Sb 206.834	3.1594	ppb	3.9510	125.1	12.6355
Se 196.026	3.0974	ppb	3.8890	125.6	8.8733
Sn 189.925	1.8962	ppb	2.6151	137.9	-11.0673
Sr 216.596	626.429	ppb	0.2855	0.0	9603.70
Ti 334.941	1.4501	ppb	0.0151	1.0	416.451
Tl 190.794	-1.2986	ppb	1.0586	81.5	-9.1034
V 292.401	1.5060	ppb	0.1494	9.9	22.8057
Zn 206.200	4.8367	ppb	1.4184	29.3	14.3429

E12182013.vvq. All Data Report 12/19/2013, 11:30:38 AM

680-97080-b-22-a (Samp) **12/19/2013, 7:43:42 AM** **Rack 4, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2031u	-0.0334u	-0.2587u
Al 308.215	30424.6	30280.0	30388.5
As 188.980	16.6316	12.6039	14.0680
B 249.678	398.088	401.255	403.199
Ba 389.178	1220.60	1214.81	1216.97
Be 313.042	2.7126	2.7043	2.7188
Ca 370.602	184435	184347	184630
Cd 226.502	14.0044	13.8492	13.8645
Co 228.615	61.8064	62.1746	62.3259
Cr 267.716	286.091	284.417	285.990
Cu 324.754	267.976	267.855	268.531
Fe 271.441	28922.7	28788.4	28882.9
K 766.491	9197.26	9110.35	9092.54
Mg 279.078	33210.6	33065.2	33215.8
Mn 257.610	15688.8	15636.3	15718.9
Mo 202.032	0.7277	0.9226	0.4636
Na 330.237	45871.5	45638.5	46029.6
Ni 231.604	30.5504	30.2958	30.6715
Pb 220.353	293.188	288.266	292.014
Sb 206.834	2.3212	-2.4877	-0.8113
Se 196.026	3.1338	-2.3012	1.0369
Sn 189.925	-0.2410u	2.0322	0.7135
Sr 216.596	1457.82	1452.08	1460.53
Ti 334.941	15.0688	14.8819	15.2290
Tl 190.794	17.4273	15.8571	16.0969
V 292.401	40.7479	40.1794	39.9893
Zn 206.200	895.204	883.769	892.601

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1651	ppb	0.1174	71.1	-32.1269
Al 308.215	30364.4	ppb	75.2984	0.2	211664
As 188.980	14.4345	ppb	2.0387	14.1	5.7627
B 249.678	400.847	ppb	2.5796	0.6	5575.67
Ba 389.178	1217.46	ppb	2.9253	0.2	30855.9
Be 313.042	2.7119	ppb	0.0073	0.3	5402.58
Ca 370.602	184471	ppb	144.7	0.1	571572
Cd 226.502	13.9060	ppb	0.0855	0.6	850.738
Co 228.615	62.1023	ppb	0.2672	0.4	827.599
Cr 267.716	285.499	ppb	0.9383	0.3	17128.7
Cu 324.754	268.121	ppb	0.3601	0.1	17446.2
Fe 271.441	28864.7	ppb	68.9822	0.2	49977.3
K 766.491	9133.39	ppb	56.0302	0.6	394888
Mg 279.078	33163.8	ppb	85.4861	0.3	85262.8
Mn 257.610	15681.3	ppb	41.7841	0.3	4009239
Mo 202.032	0.7046	ppb	0.2304	32.7	13.0628
Na 330.237	45846.5	ppb	196.721	0.4	1909.68
Ni 231.604	30.5059	ppb	0.1918	0.6	105.199
Pb 220.353	291.156	ppb	2.5705	0.9	565.513
Sb 206.834	-0.3259	ppb	2.4409	749.0	13.3598
Se 196.026	0.6232	ppb	2.7410	439.8	11.9749
Sn 189.925	0.8349	ppb	1.1414	136.7	-12.0470
Sr 216.596	1456.81	ppb	4.3116	0.3	22367.1

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	15.0599	ppb	0.1737	1.2	4399.85
Tl 190.794	16.4605	ppb	0.8459	5.1	1.4246
V 292.401	40.3056	ppb	0.3947	1.0	1136.72
Zn 206.200	890.525	ppb	5.9936	0.7	1381.81

680-97080-b-23-a (Samp) 12/19/2013, 7:48:31 AM Rack 4, Tube 34

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0194u	0.0108u	-0.1424u
Al 308.215	16.4134	17.0634	16.4703
As 188.980	3.6180	5.1772	6.6955
B 249.678	121.313	125.227	122.070
Ba 389.178	127.285	131.774	128.555
Be 313.042	-0.0129u	-0.0309u	-0.0234u
Ca 370.602	66805	68443	66658
Cd 226.502	0.8979	0.7393	0.8325
Co 228.615	0.3592	0.3707	0.7161
Cr 267.716	340.668	348.930	340.239
Cu 324.754	0.6719	0.7868	0.7402
Fe 271.441	207.021	210.041	202.380
K 766.491	5984.89	6134.08	5985.77
Mg 279.078	12945.0	13270.7	12972.7
Mn 257.610	8.7825	9.0237	8.7684
Mo 202.032	133.540	136.666	133.280
Na 330.237	112708x	115992x	113015x
Ni 231.604	2.3256	3.4997	4.1394
Pb 220.353	1.2323	1.3970	-0.9596u
Sb 206.834	-5.4362u	-4.5942u	-1.8366
Se 196.026	-3.4246u	1.2826	-1.3444u
Sn 189.925	-0.0195	3.2839	2.2189
Sr 216.596	315.495	324.360	316.565
Ti 334.941	0.1898	0.1932	0.1621
Tl 190.794	-4.6683u	-2.0412u	-3.1544u
V 292.401	49.3268	49.8659	48.6175
Zn 206.200	2.2860	1.9130	1.6482

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0503b	ppb	0.0811	161.2	-31.9946
Al 308.215	16.6490b	ppb	0.3600	2.2	387.025
As 188.980	5.1636b	ppb	1.5388	29.8	-1.3570
B 249.678	122.870b	ppb	2.0760	1.7	1771.89
Ba 389.178	129.205b	ppb	2.3138	1.8	3272.14
Be 313.042	-0.0224b	ppb	0.0090	40.4	-272.865
Ca 370.602	67302b	ppb	991.0	1.5	209232
Cd 226.502	0.8232b	ppb	0.0797	9.7	54.5391
Co 228.615	0.4820b	ppb	0.2028	42.1	-0.1743
Cr 267.716	343.279b	ppb	4.8989	1.4	20480.4
Cu 324.754	0.7330b	ppb	0.0578	7.9	198.318
Fe 271.441	206.481b	ppb	3.8591	1.9	371.395
K 766.491	6034.91b	ppb	85.8847	1.4	261008
Mg 279.078	13062.8b	ppb	180.608	1.4	33726.1
Mn 257.610	8.8582b	ppb	0.1435	1.6	2441.71
Mo 202.032	134.496b	ppb	1.8842	1.4	1097.33

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	113905xb	ppb	1813.98	1.6	4748.69
Ni 231.604	3.3216b	ppb	0.9199	27.7	8.1243
Pb 220.353	0.5566b	ppb	1.3156	236.4	14.6915
Sb 206.834	-3.9557b	ppb	1.8828	47.6	4.6147
Se 196.026	-1.1621b	ppb	2.3588	203.0	6.8280
Sn 189.925	1.8278b	ppb	1.6861	92.2	-11.1247
Sr 216.596	318.806b	ppb	4.8390	1.5	4893.13
Ti 334.941	0.1817b	ppb	0.0170	9.4	32.2322
Tl 190.794	-3.2879b	ppb	1.3186	40.1	-11.7531
V 292.401	49.2700b	ppb	0.6261	1.3	1353.71
Zn 206.200	1.9491b	ppb	0.3204	16.4	9.5049

680-97080-b-24-a (Samp) 12/19/2013, 7:53:19 AM Rack 4, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0174u	-0.0771u	-0.0108u
Al 308.215	40.6338	42.3873	41.9937
As 188.980	4.7661	-1.7213u	2.1309
B 249.678	320.251	329.982	326.624
Ba 389.178	11.8315	11.7011	11.2015
Be 313.042	-0.0025u	-0.0054u	-0.0179u
Ca 370.602	23857	24360	24002
Cd 226.502	0.1870	0.1158	0.1478
Co 228.615	0.4962	1.1106	0.9191
Cr 267.716	95.2134	97.2976	95.4599
Cu 324.754	1.6160	1.3610	1.5268
Fe 271.441	106.312	102.755	106.182
K 766.491	4467.93	4571.80	4514.01
Mg 279.078	18576.1	18994.1	18725.8
Mn 257.610	65.9559	67.3341	66.3650
Mo 202.032	109.601	112.341	109.759
Na 330.237	171633x	176376x	174138x
Ni 231.604	3.7183	2.9739	1.9969
Pb 220.353	0.1603	1.1912	3.2770
Sb 206.834	0.0819u	0.9182	1.9724
Se 196.026	1.7820	2.5290	-2.6796u
Sn 189.925	2.1871	0.2966	1.9801
Sr 216.596	176.247	179.600	177.280
Ti 334.941	-0.0293	0.0481	0.0443
Tl 190.794	-1.7349u	-1.6728u	-4.7878u
V 292.401	31.9301	32.7820	32.0521
Zn 206.200	1.0788	1.2589	1.1956

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0235b	ppb	0.0485	206.3	-22.1349
Al 308.215	41.6716b	ppb	0.9201	2.2	561.815
As 188.980	1.7253b	ppb	3.2627	189.1	-3.9608
B 249.678	325.619b	ppb	4.9428	1.5	4587.10
Ba 389.178	11.5780b	ppb	0.3326	2.9	317.306
Be 313.042	-0.0086b	ppb	0.0082	95.1	-271.972
Ca 370.602	24073b	ppb	259.2	1.1	74845
Cd 226.502	0.1502b	ppb	0.0357	23.8	19.5100
Co 228.615	0.8420b	ppb	0.3144	37.3	4.4392

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	95.9903b	ppb	1.1389	1.2	5737.28
Cu 324.754	1.5013b	ppb	0.1294	8.6	247.168
Fe 271.441	105.083b	ppb	2.0173	1.9	195.213
K 766.491	4517.91b	ppb	52.0455	1.2	195461
Mg 279.078	18765.3b	ppb	211.765	1.1	48437.9
Mn 257.610	66.5516b	ppb	0.7078	1.1	17239.7
Mo 202.032	110.567b	ppb	1.5386	1.4	903.733
Na 330.237	174049xb	ppb	2373.03	1.4	7240.59
Ni 231.604	2.8964b	ppb	0.8633	29.8	6.6121
Pb 220.353	1.5428b	ppb	1.5878	102.9	16.5839
Sb 206.834	0.9908b	ppb	0.9473	95.6	8.0389
Se 196.026	0.5438b	ppb	2.8164	517.9	7.6608
Sn 189.925	1.4879b	ppb	1.0369	69.7	-11.4528
Sr 216.596	177.709b	ppb	1.7172	1.0	2729.14
Ti 334.941	0.0210b	ppb	0.0437	207.6	7.7935
Tl 190.794	-2.7318b	ppb	1.7808	65.2	-11.0439
V 292.401	32.2547b	ppb	0.4607	1.4	885.071
Zn 206.200	1.1777b	ppb	0.0914	7.8	8.6575

680-97080-b-25-a (Samp)

12/19/2013, 7:58:08 AM

Rack 4, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1330u	0.1614	0.0673u
Al 308.215	30.8648	32.3045	32.0202
As 188.980	3.7063	5.4749	1.0901
B 249.678	292.354	299.735	302.505
Ba 389.178	20.8321	20.5598	20.9321
Be 313.042	-0.0181u	-0.0141u	-0.0216u
Ca 370.602	42559	43313	43331
Cd 226.502	-0.0219u	-0.0171u	0.0743
Co 228.615	2.6706	2.5164	2.6328
Cr 267.716	125.609	128.568	128.705
Cu 324.754	2.5067	2.5136	1.9744
Fe 271.441	116.366	111.242	115.810
K 766.491	4764.50	4854.49	4868.36
Mg 279.078	17413.9	17792.8	17900.6
Mn 257.610	194.915	198.606	198.945
Mo 202.032	258.600	264.626	267.436
Na 330.237	135230x	140796x	139606x
Ni 231.604	3.0232	3.7597	3.8142
Pb 220.353	0.1577u	-0.7164u	0.2456
Sb 206.834	-2.5254u	-0.2411u	-0.3761u
Se 196.026	2.0025	-0.5534u	0.3158
Sn 189.925	0.2211	1.9106	0.6844
Sr 216.596	258.264	263.279	265.310
Ti 334.941	0.0892	0.1090	0.0472
Tl 190.794	-1.3864u	-0.4211u	-1.0125u
V 292.401	35.6116	36.2888	35.9138
Zn 206.200	1.4714	1.9587	1.4181

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1206b	ppb	0.0483	40.0	-13.9681
Al 308.215	31.7298b	ppb	0.7625	2.4	501.491

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.4238b	ppb	2.2060	64.4	-2.7205
B 249.678	298.198b	ppb	5.2470	1.8	4206.36
Ba 389.178	20.7747b	ppb	0.1927	0.9	547.437
Be 313.042	-0.0179b	ppb	0.0037	20.8	-304.299
Ca 370.602	43068b	ppb	440.6	1.0	133901
Cd 226.502	0.0117b	ppb	0.0542	461.6	12.7246
Co 228.615	2.6066b	ppb	0.0803	3.1	23.1695
Cr 267.716	127.627b	ppb	1.7493	1.4	7623.64
Cu 324.754	2.3315b	ppb	0.3093	13.3	306.146
Fe 271.441	114.473b	ppb	2.8114	2.5	211.915
K 766.491	4829.12b	ppb	56.3892	1.2	208908
Mg 279.078	17702.5b	ppb	255.592	1.4	45692.9
Mn 257.610	197.489b	ppb	2.2354	1.1	50703.8
Mo 202.032	263.554b	ppb	4.5149	1.7	2141.74
Na 330.237	138544xb	ppb	2930.78	2.1	5769.54
Ni 231.604	3.5324b	ppb	0.4418	12.5	8.8643
Pb 220.353	-0.1044b	ppb	0.5319	509.5	13.2959
Sb 206.834	-1.0475b	ppb	1.2816	122.3	1.7384
Se 196.026	0.5883b	ppb	1.2996	220.9	7.7146
Sn 189.925	0.9387b	ppb	0.8730	93.0	-11.9853
Sr 216.596	262.284b	ppb	3.6268	1.4	4022.55
Ti 334.941	0.0818b	ppb	0.0316	38.6	22.8777
Tl 190.794	-0.9400b	ppb	0.4867	51.8	-8.8557
V 292.401	35.9381b	ppb	0.3393	0.9	961.750
Zn 206.200	1.6161b	ppb	0.2980	18.4	9.2904

Cont Calib Verif (CCV)

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Rack 4, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	485.827	479.208	475.705
Al 308.215	4612.74	4612.41	4614.25
As 188.980	482.070	475.018	487.163
B 249.678	468.786	469.404	474.393
Ba 389.178	4915.17	4906.59	4921.70
Be 313.042	481.622	481.098	483.674
Ca 370.602	4625	4604	4611
Cd 226.502	483.743	483.100	485.245
Co 228.615	486.718	485.969	487.537
Cr 267.716	4884.77	4871.16	4880.62
Cu 324.754	4832.40	4747.73	4723.11
Fe 271.441	4885.50	4881.21	4880.60
K 766.491	9257.01	9259.29	9256.38
Mg 279.078	4922.42	4923.18	4941.56
Mn 257.610	4806.94	4777.47	4800.80
Mo 202.032	500.873	498.514	503.486
Na 330.237	7183.92	7492.74	7340.50
Ni 231.604	2335.45	2329.20	2343.42
Pb 220.353	469.439	468.316	466.521
Sb 206.834	916.914	911.425	914.476
Se 196.026	4665.34	4684.84	4674.22
Sn 189.925	4927.56	4925.29	4949.88
Sr 216.596	2457.28	2450.06	2459.43
Ti 334.941	463.704	462.841	462.234

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	4844.77	4824.06	4851.61
V 292.401	4868.16	4863.49	4880.18
Zn 206.200	2414.97	2413.21	2412.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	480.247	ppb	5.1405	1.1	39875.3	96.04933
Al 308.215	4613.13	ppb	0.9802	0.0	31809.0	92.26266
As 188.980	481.417	ppb	6.0987	1.3	360.503	96.28337
B 249.678	470.861	ppb	3.0745	0.7	6594.27	94.17226
Ba 389.178	4914.49	ppb	7.5775	0.2	124114	98.28970
Be 313.042	482.131	ppb	1.3613	0.3	990330	96.42625
Ca 370.602	4613	ppb	10.79	0.2	14399	92.26018
Cd 226.502	484.029	ppb	1.1011	0.2	24687.2	96.80586
Co 228.615	486.741	ppb	0.7845	0.2	6502.21	97.34823
Cr 267.716	4878.85	ppb	6.9742	0.1	290880	97.57693
Cu 324.754	4767.75	ppb	57.3266	1.2	307534	95.35497
Fe 271.441	4882.44	ppb	2.6759	0.1	8578.77	97.64870
K 766.491	9257.56	ppb	1.5277	0.0	400253	92.57558
Mg 279.078	4929.05	ppb	10.8390	0.2	12642.6	98.58106
Mn 257.610	4795.07	ppb	15.5509	0.3	1225939	95.90146
Mo 202.032	500.958	ppb	2.4874	0.5	4052.41	100.19152
Na 330.237	7339.05	ppb	154.416	2.1	296.242	97.85405
Ni 231.604	2336.02	ppb	7.1274	0.3	8281.20	93.44094
Pb 220.353	468.092	ppb	1.4718	0.3	892.105	93.61846
Sb 206.834	914.272	ppb	2.7502	0.3	1463.25	91.42718
Se 196.026	4674.80	ppb	9.7616	0.2	2255.88	93.49599
Sn 189.925	4934.24	ppb	13.5917	0.3	4743.22	98.68481
Sr 216.596	2455.59	ppb	4.9070	0.2	37489.7	98.22363
Ti 334.941	462.926	ppb	0.7389	0.2	132723	92.58530
Tl 190.794	4840.15	ppb	14.3450	0.3	6352.19	96.80295
V 292.401	4870.61	ppb	8.6093	0.2	138569	97.41221
Zn 206.200	2413.67	ppb	1.1441	0.0	3729.33	96.54670

Cont Calib Blank (CCB)

12/19/2013, 8:07:45 AM

Rack 4, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3017	0.1014	0.0729
Al 308.215	-8.1726u	-5.7437u	-7.2092u
As 188.980	-0.7919u	1.0437	1.9990
B 249.678	3.6312	3.2429	1.9155
Ba 389.178	0.9477	0.5506	0.7280
Be 313.042	0.0029	0.0054	-0.0005u
Ca 370.602	1.896	0.8755	0.6237
Cd 226.502	0.0376	0.2495	-0.0933u
Co 228.615	-0.0379u	0.5469	0.0529
Cr 267.716	0.1218	0.1552	0.3143
Cu 324.754	-0.2617u	-0.3028u	-0.3819u
Fe 271.441	2.2268	1.1286	3.8827
K 766.491	0.7496	0.1452	1.2802
Mg 279.078	-1.5198u	1.9667	-0.5348u
Mn 257.610	0.0487	0.0318	0.0633
Mo 202.032	1.0168	0.8416	0.3944
Na 330.237	-58.4258u	-40.0364u	-134.001u

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Label	Replicates Concentration		
Ni 231.604	1.3869	-0.0462u	0.5422
Pb 220.353	-0.9215u	1.0172	2.0732
Sb 206.834	-1.1680u	-0.1591u	-1.8231u
Se 196.026	0.7946	-7.6888u	4.0727
Sn 189.925	1.8449	1.6095	0.8846
Sr 216.596	0.0619	-0.0937u	-0.1927u
Ti 334.941	0.1416	0.1664	0.1221
Tl 190.794	3.2274	0.3491	1.4308
V 292.401	0.1872	0.3715	0.1775
Zn 206.200	-1.0218u	-1.5456u	-0.3966u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1587	ppb	0.1247	78.6	2.1742	0.15867
Al 308.215	-7.0418	ppb	1.2231	17.4	219.940	-7.04181
As 188.980	0.7503	ppb	1.4184	189.1	-4.6652	0.75027
B 249.678	2.9299	ppb	0.8996	30.7	106.990	2.92987
Ba 389.178	0.7421	ppb	0.1989	26.8	-9.6801	0.74211
Be 313.042	0.0026	ppb	0.0029	112.5	-233.949	0.00262
Ca 370.602	1.132	ppb	0.6737	59.5	14.16	1.13167
Cd 226.502	0.0646	ppb	0.1730	267.8	15.5222	0.06460
Co 228.615	0.1873	ppb	0.3147	168.0	-1.1504	0.18731
Cr 267.716	0.1971	ppb	0.1028	52.2	22.1433	0.19711
Cu 324.754	-0.3155	ppb	0.0611	19.4	126.478	-0.31546
Fe 271.441	2.4127	ppb	1.3864	57.5	16.7922	2.41270
K 766.491	0.7250	ppb	0.5679	78.3	280.842	0.72501
Mg 279.078	-0.0293	ppb	1.7973	6133.2	23.1595	-0.02931
Mn 257.610	0.0480	ppb	0.0158	32.9	72.7858	0.04795
Mo 202.032	0.7509	ppb	0.3210	42.7	15.1461	0.75092
Na 330.237	-77.4879	ppb	49.7984	64.3	26.2924	-77.48788
Ni 231.604	0.6276	ppb	0.7204	114.8	-1.4373	0.62763
Pb 220.353	0.7229	ppb	1.5189	210.1	15.1875	0.72295
Sb 206.834	-1.0501	ppb	0.8382	79.8	5.9402	-1.05007
Se 196.026	-0.9405	ppb	6.0697	645.4	6.9291	-0.94047
Sn 189.925	1.4463	ppb	0.5005	34.6	-11.5682	1.44633
Sr 216.596	-0.0748	ppb	0.1283	171.6	8.7339	-0.07480
Ti 334.941	0.1434	ppb	0.0222	15.5	-30.1164	0.14339
Tl 190.794	1.6691	ppb	1.4539	87.1	-5.1670	1.66909
V 292.401	0.2454	ppb	0.1093	44.6	-2.6303	0.24537
Zn 206.200	-0.9880	ppb	0.5752	58.2	5.4463	-0.98798

680-97086-r-1-a (Samp)

12/19/2013, 8:12:34 AM

Rack 4, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8918u	0.5902u	0.7714u
Al 308.215	0.5024	-0.3807	0.6575
As 188.980	2.9155	5.5887	2.4249
B 249.678	537.033	551.085	548.743
Ba 389.178	75.9849	77.6996	76.5706
Be 313.042	-0.0099u	-0.0239u	-0.0196u
Ca 370.602	40861	41681	41207
Cd 226.502	0.1379	0.0256	-0.0958u
Co 228.615	-0.0477u	0.4297	0.5548
Cr 267.716	0.0945	0.2708	0.2563

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Label	Replicates Concentration		
Cu 324.754	8.3882	8.5143	8.4898
Fe 271.441	690.244	704.811	692.211
K 766.491	2278.71	2327.66	2304.96
Mg 279.078	51726.1	52687.4	52278.5
Mn 257.610	13.3019	13.6572	13.4165
Mo 202.032	57.2811	59.0986	59.0342
Na 330.237	45872.6	46863.4	46744.4
Ni 231.604	3.9398	3.9460	3.5810
Pb 220.353	1.0959	2.8669	3.4910
Sb 206.834	-2.9688u	1.2283	-2.6569u
Se 196.026	1.8523	7.7637	1.8790
Sn 189.925	1.0786	2.3950	0.5939
Sr 216.596	2819.46	2876.01	2851.59
Ti 334.941	-0.4704	-0.5096	-0.4765
Tl 190.794	0.1310	-2.1754u	-2.5227u
V 292.401	0.0819u	0.4316	0.5350
Zn 206.200	8.5656	8.6186	9.4615

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7511	ppb	0.1518	20.2	-99.1661
Al 308.215	0.2597	ppb	0.5601	215.6	274.287
As 188.980	3.6430	ppb	1.7027	46.7	-2.4939
B 249.678	545.620	ppb	7.5285	1.4	7640.49
Ba 389.178	76.7517	ppb	0.8716	1.1	2057.15
Be 313.042	-0.0178	ppb	0.0072	40.4	-276.505
Ca 370.602	41250	ppb	411.8	1.0	128196
Cd 226.502	0.0226	ppb	0.1168	518.0	17.0940
Co 228.615	0.3122	ppb	0.3180	101.8	-1.3127
Cr 267.716	0.2072	ppb	0.0979	47.2	23.9407
Cu 324.754	8.4641	ppb	0.0669	0.8	694.931
Fe 271.441	695.755	ppb	7.9041	1.1	1216.85
K 766.491	2303.78	ppb	24.4974	1.1	99792.0
Mg 279.078	52230.7	ppb	482.436	0.9	134782
Mn 257.610	13.4585	ppb	0.1814	1.3	3965.12
Mo 202.032	58.4713	ppb	1.0312	1.8	482.196
Na 330.237	46493.5	ppb	540.971	1.2	1955.53
Ni 231.604	3.8223	ppb	0.2090	5.5	9.9141
Pb 220.353	2.4846	ppb	1.2424	50.0	18.4641
Sb 206.834	-1.4658	ppb	2.3384	159.5	3.8932
Se 196.026	3.8317	ppb	3.4052	88.9	9.2376
Sn 189.925	1.3558	ppb	0.9320	68.7	-11.6173
Sr 216.596	2849.02	ppb	28.3619	1.0	43582.8
Ti 334.941	-0.4855	ppb	0.0211	4.3	23.0508
Tl 190.794	-1.5223	ppb	1.4424	94.7	-9.4803
V 292.401	0.3495	ppb	0.2374	67.9	-9.2466
Zn 206.200	8.8819	ppb	0.5026	5.7	20.6796

680-97086-r-2-a (Samp)

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Rack 4, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8705u	0.6486u	0.9038u
Al 308.215	1.2863	3.7597	0.8113
As 188.980	3.9660	2.1557	0.1293

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	535.435	539.834	542.005
Ba 389.178	74.5914	74.3198	75.2360
Be 313.042	-0.0134u	-0.0198u	-0.0150u
Ca 370.602	40451	40757	40540
Cd 226.502	-0.1286u	-0.0871u	-0.0965u
Co 228.615	0.0220u	0.1607	0.0808u
Cr 267.716	0.0803	0.1150	0.2408
Cu 324.754	-0.1327u	-0.2240u	-0.1961u
Fe 271.441	678.779	690.568	677.321
K 766.491	2259.30	2282.71	2280.07
Mg 279.078	51048.8	51432.3	51428.3
Mn 257.610	13.1795	13.3088	13.2249
Mo 202.032	57.5126	58.3780	57.4626
Na 330.237	45328.9	45961.1	46277.6
Ni 231.604	3.4816	2.8254	3.9885
Pb 220.353	2.6621	0.7811	-1.3494u
Sb 206.834	-2.7975u	1.0676	-2.4724u
Se 196.026	-3.3897u	-0.7307u	1.5226
Sn 189.925	1.2099	4.3801	1.7752
Sr 216.596	2791.17	2813.81	2806.08
Ti 334.941	-0.4891	-0.4830	-0.5135
Tl 190.794	-4.4407u	-3.4257u	-2.2623u
V 292.401	0.1320u	0.2430u	0.6036
Zn 206.200	2.3681	2.4391	0.1369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8077	ppb	0.1387	17.2	-91.9654
Al 308.215	1.9524	ppb	1.5830	81.1	286.016
As 188.980	2.0836	ppb	1.9193	92.1	-3.6786
B 249.678	539.092	ppb	3.3474	0.6	7549.88
Ba 389.178	74.7157	ppb	0.4706	0.6	2003.25
Be 313.042	-0.0161	ppb	0.0033	20.8	-273.036
Ca 370.602	40583	ppb	157.5	0.4	126123
Cd 226.502	-0.1041	ppb	0.0217	20.9	10.5701
Co 228.615	0.0878	ppb	0.0696	79.2	-4.2783
Cr 267.716	0.1454	ppb	0.0844	58.1	20.2379
Cu 324.754	-0.1843	ppb	0.0468	25.4	137.231
Fe 271.441	682.222	ppb	7.2638	1.1	1193.41
K 766.491	2274.03	ppb	12.8225	0.6	98506.4
Mg 279.078	51303.1	ppb	220.262	0.4	132389
Mn 257.610	13.2377	ppb	0.0656	0.5	3900.85
Mo 202.032	57.7844	ppb	0.5147	0.9	476.638
Na 330.237	45855.9	ppb	483.055	1.1	1929.21
Ni 231.604	3.4318	ppb	0.5831	17.0	8.5294
Pb 220.353	0.6979	ppb	2.0071	287.6	15.1131
Sb 206.834	-1.4008	ppb	2.1438	153.0	4.0127
Se 196.026	-0.8659	ppb	2.4589	284.0	6.9791
Sn 189.925	2.4551	ppb	1.6909	68.9	-10.5583
Sr 216.596	2803.69	ppb	11.5113	0.4	42889.4
Ti 334.941	-0.4952	ppb	0.0161	3.3	16.3152
Tl 190.794	-3.3762	ppb	1.0901	32.3	-11.9142
V 292.401	0.3262	ppb	0.2466	75.6	-9.7472
Zn 206.200	1.6480	ppb	1.3091	79.4	9.5034

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

680-97094-c-3-a (Samp) **12/19/2013, 8:22:12 AM** **Rack 4, Tube 41****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5524u	0.3024u	0.5166u
Al 308.215	10.0650	8.9835	10.9907
As 188.980	3.6062	6.3327	0.4276
B 249.678	1184.56	1191.59	1191.63
Ba 389.178	18.3307	19.4596	19.5453
Be 313.042	0.1848u	0.1781u	0.1713u
Ca 370.602	107916	107850	107918
Cd 226.502	0.5029	0.6089	0.3928u
Co 228.615	0.0536	-0.4552u	0.3814
Cr 267.716	-1.2029	-1.3467u	-1.2895u
Cu 324.754	0.3924	0.6112	0.2212
Fe 271.441	11.8815	8.4259	5.8212
K 766.491	164281x	165366x	165602x
Mg 279.078	332965	333606	333515
Mn 257.610	8.4169	8.4165	8.3253
Mo 202.032	2.7871	1.4750	2.4765
Na 330.237	3924805x	3936318x	3946168x
Ni 231.604	4.7928	6.2028	5.0081
Pb 220.353	-1.2653u	-0.5029u	6.1649
Sb 206.834	-2.1401u	1.2801	-4.1181u
Se 196.026	8.7344	8.5077	19.6615
Sn 189.925	0.7780	-1.4446	0.7289
Sr 216.596	1924.44	1928.28	1927.85
Ti 334.941	-4.7657u	-4.7765u	-4.6569u
Tl 190.794	-3.2978u	-7.9315u	-1.3062u
V 292.401	2.6826	3.1643	2.8777
Zn 206.200	3.2570	1.3982	6.0328

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4571b	ppb	0.1352	29.6	-79.7300
Al 308.215	10.0131b	ppb	1.0046	10.0	338.547
As 188.980	3.4555b	ppb	2.9554	85.5	-2.6096
B 249.678	1189.26b	ppb	4.0708	0.3	16578.6
Ba 389.178	19.1119b	ppb	0.6779	3.5	1386.24
Be 313.042	0.1781b	ppb	0.0067	3.8	-287.845
Ca 370.602	107894b	ppb	38.81	0.0	335444
Cd 226.502	0.5015b	ppb	0.1081	21.5	17.1708
Co 228.615	-0.0067b	ppb	0.4216	6251.0	-3.6681
Cr 267.716	-1.2797b	ppb	0.0724	5.7	10.5427
Cu 324.754	0.4083b	ppb	0.1955	47.9	173.187
Fe 271.441	8.7095b	ppb	3.0401	34.9	27.6927
K 766.491	165083xb	ppb	704.469	0.4	7133198
Mg 279.078	333362b	ppb	346.720	0.1	860122
Mn 257.610	8.3862b	ppb	0.0528	0.6	5133.59
Mo 202.032	2.2462b	ppb	0.6857	30.5	27.2410
Na 330.237	3935764xb	ppb	10692.2	0.3	163095
Ni 231.604	5.3346b	ppb	0.7596	14.2	15.2600
Pb 220.353	1.4656b	ppb	4.0876	278.9	16.5854
Sb 206.834	-1.6594b	ppb	2.7310	164.6	4.9808
Se 196.026	12.3012b	ppb	6.3752	51.8	13.2999
Sn 189.925	0.0208b	ppb	1.2693	6116.9	-11.4647
Sr 216.596	1926.86b	ppb	2.1033	0.1	29491.3

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-4.7330b	ppb	0.0662	1.4	-192.162
Tl 190.794	-4.1785b	ppb	3.3994	81.4	-12.8653
V 292.401	2.9082b	ppb	0.2423	8.3	48.7487
Zn 206.200	3.5627b	ppb	2.3324	65.5	12.4770

680-97094-c-4-a (Samp) 12/19/2013, 8:27:00 AM Rack 4, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0517u	0.0923u	-0.0216u
Al 308.215	9.1024	9.7892	10.8541
As 188.980	0.6002	0.6713	4.6495
B 249.678	75.1145	73.2928	74.0670
Ba 389.178	157.299	156.157	155.990
Be 313.042	0.0376	0.0383	0.0355
Ca 370.602	120520	124236	124110
Cd 226.502	-0.2389	-0.2741	-0.1153
Co 228.615	-0.0750u	0.0415	-0.5002u
Cr 267.716	0.3109	0.1768	0.3122
Cu 324.754	-1.0123u	-0.8323u	-0.9396u
Fe 271.441	13204.0	13162.5	13214.4
K 766.491	7166.92	7161.21	7176.90
Mg 279.078	11456.2	11436.2	11464.9
Mn 257.610	1515.70	1512.94	1516.04
Mo 202.032	-0.5156u	-0.4719u	-0.6987u
Na 330.237	56798.7	56559.5	56276.8
Ni 231.604	1.0592	1.6155	2.2381
Pb 220.353	2.3491	2.1040	1.2830
Sb 206.834	-0.9700u	-0.8910u	-1.0425u
Se 196.026	4.3807	-9.4800u	0.7207
Sn 189.925	1.8647	2.9331	2.3434
Sr 216.596	448.656	446.233	447.855
Ti 334.941	0.5282	0.5282	0.5104
Tl 190.794	-3.9454u	-3.9507u	-5.8081u
V 292.401	1.2209	1.3534	1.3622
Zn 206.200	-1.4926u	0.9765	-0.4133u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0408	ppb	0.0577	141.5	-29.2650
Al 308.215	9.9152	ppb	0.8826	8.9	337.759
As 188.980	1.9737	ppb	2.3176	117.4	-3.8939
B 249.678	74.1581	ppb	0.9143	1.2	1070.33
Ba 389.178	156.482	ppb	0.7122	0.5	3976.71
Be 313.042	0.0372	ppb	0.0014	3.9	-120.935
Ca 370.602	122955	ppb	2110	1.7	381219
Cd 226.502	-0.2094	ppb	0.0834	39.8	60.7192
Co 228.615	-0.1779	ppb	0.2851	160.3	-5.4351
Cr 267.716	0.2667	ppb	0.0778	29.2	39.6006
Cu 324.754	-0.9281	ppb	0.0906	9.8	91.9726
Fe 271.441	13193.6	ppb	27.4349	0.2	22847.2
K 766.491	7168.35	ppb	7.9442	0.1	309982
Mg 279.078	11452.4	ppb	14.6878	0.1	29540.9
Mn 257.610	1514.89	ppb	1.6968	0.1	387473
Mo 202.032	-0.5621	ppb	0.1204	21.4	3.7769

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	56545.0	ppb	261.253	0.5	2369.32
Ni 231.604	1.6376	ppb	0.5897	36.0	2.5175
Pb 220.353	1.9120	ppb	0.5584	29.2	18.8543
Sb 206.834	-0.9678	ppb	0.0757	7.8	6.5559
Se 196.026	-1.4595	ppb	7.1829	492.1	7.2545
Sn 189.925	2.3804	ppb	0.5352	22.5	-10.5843
Sr 216.596	447.581	ppb	1.2344	0.3	6897.19
Ti 334.941	0.5223	ppb	0.0103	2.0	128.039
Tl 190.794	-4.5681	ppb	1.0739	23.5	-15.7740
V 292.401	1.3122	ppb	0.0791	6.0	32.9986
Zn 206.200	-0.3098	ppb	1.2378	399.5	6.1904

680-97094-c-4-aSD^5 (Samp) 12/19/2013, 8:31:49 AM Rack 4, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3846u	-0.1574u	0.2019
Al 308.215	-3.1900u	-2.3411u	-3.0480u
As 188.980	-1.1700u	4.6645	2.6073
B 249.678	15.7296	16.1800	15.0247
Ba 389.178	32.4459	32.3340	32.2569
Be 313.042	-0.0059u	0.0067	-0.0028
Ca 370.602	24980	24907	24953
Cd 226.502	-0.0678	-0.0851	-0.0124
Co 228.615	0.1612	0.2716	0.4578
Cr 267.716	0.2961	0.3069	0.1450
Cu 324.754	-0.6415u	-1.2715u	-0.7975u
Fe 271.441	2753.19	2749.50	2746.39
K 766.491	1352.91	1354.81	1360.15
Mg 279.078	2388.04	2389.04	2391.32
Mn 257.610	315.667	314.580	314.578
Mo 202.032	-0.6369u	0.0428	-0.5981u
Na 330.237	11227.0	11060.3	10949.9
Ni 231.604	1.8798	0.3628	1.0018
Pb 220.353	1.3365	0.1600	3.0929
Sb 206.834	-3.6663u	-1.2118u	1.0913
Se 196.026	-1.6926u	-1.9182u	0.9126
Sn 189.925	-0.2173u	1.8907	0.6047
Sr 216.596	94.0390	92.6705	92.9190
Ti 334.941	0.2051	0.1420	0.2326
Tl 190.794	-2.7546u	-0.7840u	-2.1310u
V 292.401	0.1705	0.4258	0.0685
Zn 206.200	0.3986	0.1843	-0.9212u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1134	ppb	0.2957	260.9	-24.9750
Al 308.215	-2.8597	ppb	0.4547	15.9	248.984
As 188.980	2.0339	ppb	2.9592	145.5	-3.7223
B 249.678	15.6448	ppb	0.5823	3.7	278.191
Ba 389.178	32.3456	ppb	0.0950	0.3	799.553
Be 313.042	-0.0007	ppb	0.0066	1010.2	-232.048
Ca 370.602	24947	ppb	36.96	0.1	77348
Cd 226.502	-0.0551	ppb	0.0380	68.9	21.7553
Co 228.615	0.2968	ppb	0.1499	50.5	0.4603

E12182013.vvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2493	ppb	0.0905	36.3	28.0134
Cu 324.754	-0.9035	ppb	0.3281	36.3	89.5756
Fe 271.441	2749.69	ppb	3.4056	0.1	4771.60
K 766.491	1355.96	ppb	3.7571	0.3	58838.1
Mg 279.078	2389.47	ppb	1.6811	0.1	6181.91
Mn 257.610	314.942	ppb	0.6285	0.2	80602.5
Mo 202.032	-0.3974	ppb	0.3817	96.1	5.6989
Na 330.237	11079.1	ppb	139.513	1.3	487.915
Ni 231.604	1.0815	ppb	0.7616	70.4	0.2497
Pb 220.353	1.5298	ppb	1.4759	96.5	17.0013
Sb 206.834	-1.2623	ppb	2.3792	188.5	5.7457
Se 196.026	-0.8994	ppb	1.5733	174.9	7.0685
Sn 189.925	0.7594	ppb	1.0624	139.9	-12.2137
Sr 216.596	93.2095	ppb	0.7291	0.8	1444.07
Ti 334.941	0.1932	ppb	0.0465	24.0	-5.4392
Tl 190.794	-1.8899	ppb	1.0072	53.3	-10.3442
V 292.401	0.2216	ppb	0.1841	83.1	-2.0654
Zn 206.200	-0.1128	ppb	0.7083	627.9	6.7353

680-97094-c-4-aPDS (Samp)

12/19/2013, 8:36:38 AM

Rack 4, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	37.5079	38.0579	37.8607
Al 308.215	1855.34	1858.84	1853.44
As 188.980	189.572	194.920	189.414
B 249.678	528.260	530.909	533.442
Ba 389.178	348.289	348.887	349.364
Be 313.042	47.8917	47.8036	47.9308
Ca 370.602	123254	123043	123460
Cd 226.502	46.5616	46.5889	46.4256
Co 228.615	188.313	187.563	187.873
Cr 267.716	191.204	190.638	191.331
Cu 324.754	192.214	192.561	194.055
Fe 271.441	15138.3	15078.5	15107.2
K 766.491	9194.15	9174.62	9172.14
Mg 279.078	13339.8	13304.2	13317.4
Mn 257.610	1710.98	1706.92	1709.91
Mo 202.032	196.815	195.887	195.205
Na 330.237	58530.3	58388.2	58666.2
Ni 231.604	181.166	184.311	185.655
Pb 220.353	181.778	178.657	181.829
Sb 206.834	180.565	180.549	177.421
Se 196.026	192.418	177.979	187.247
Sn 189.925	196.955	196.232	198.799
Sr 216.596	636.270	633.750	635.253
Ti 334.941	186.886	186.905	187.427
Tl 190.794	184.460	181.206	183.531
V 292.401	194.789	193.876	193.957
Zn 206.200	185.092	182.159	185.242

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.8088	ppb	0.2787	0.7	3104.89
Al 308.215	1855.87	ppb	2.7357	0.1	13176.3

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	191.302	ppb	3.1342	1.6	139.942
B 249.678	530.870	ppb	2.5910	0.5	7407.70
Ba 389.178	348.847	ppb	0.5387	0.2	8844.45
Be 313.042	47.8754	ppb	0.0652	0.1	98009.3
Ca 370.602	123253	ppb	208.6	0.2	382101
Cd 226.502	46.5254	ppb	0.0875	0.2	2449.72
Co 228.615	187.916	ppb	0.3769	0.2	2503.58
Cr 267.716	191.058	ppb	0.3687	0.2	11415.0
Cu 324.754	192.943	ppb	0.9784	0.5	12598.3
Fe 271.441	15108.0	ppb	29.8905	0.2	26183.5
K 766.491	9180.30	ppb	12.0569	0.1	396915
Mg 279.078	13320.5	ppb	18.0136	0.1	34356.0
Mn 257.610	1709.27	ppb	2.1062	0.1	437186
Mo 202.032	195.969	ppb	0.8083	0.4	1593.64
Na 330.237	58528.2	ppb	139.033	0.2	2447.81
Ni 231.604	183.711	ppb	2.3038	1.3	647.872
Pb 220.353	180.755	ppb	1.8169	1.0	353.991
Sb 206.834	179.512	ppb	1.8105	1.0	276.367
Se 196.026	185.881	ppb	7.3157	3.9	97.3893
Sn 189.925	197.329	ppb	1.3236	0.7	177.330
Sr 216.596	635.091	ppb	1.2678	0.2	9758.92
Ti 334.941	187.073	ppb	0.3070	0.2	53641.1
Tl 190.794	183.066	ppb	1.6760	0.9	230.870
V 292.401	194.207	ppb	0.5057	0.3	5493.95
Zn 206.200	184.164	ppb	1.7381	0.9	290.902

680-97094-c-4-b ms (Samp)

12/19/2013, 8:41:27 AM

Rack 4, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	47.5839	47.8421	47.9778
Al 308.215	4671.28	4670.54	4672.76
As 188.980	95.7243	102.486	107.428
B 249.678	257.307	256.596	257.631
Ba 389.178	250.520	250.515	250.324
Be 313.042	48.3816	48.4332	48.5065
Ca 370.602	124241	124226	125038
Cd 226.502	46.6072	46.6825	46.5863
Co 228.615	47.0371	47.3028	47.1972
Cr 267.716	97.4475	97.6366	97.5718
Cu 324.754	95.9722	96.4758	95.9824
Fe 271.441	17689.1	17696.3	17709.9
K 766.491	12139.6	12155.6	12111.1
Mg 279.078	16071.8	16040.2	16050.8
Mn 257.610	1978.40	1978.28	1979.55
Mo 202.032	99.3918	97.2829	96.7860
Na 330.237	61195.7	61134.9	61513.7
Ni 231.604	93.3135	94.8123	94.2270
Pb 220.353	45.7764	47.6952	47.6352
Sb 206.834	47.0297	50.1876	41.2345
Se 196.026	95.0001	95.6805	95.9510
Sn 189.925	202.132	200.217	196.915
Sr 216.596	530.076	531.346	530.862
Ti 334.941	93.3008	93.2714	93.4357

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Label	Replicates Concentration		
Tl 190.794	36.1988	36.0553	37.2215
V 292.401	99.3634	99.0762	99.1307
Zn 206.200	94.7647	95.0973	94.1520

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.8013	ppb	0.2001	0.4	3941.40
Al 308.215	4671.52	ppb	1.1330	0.0	32785.9
As 188.980	101.879	ppb	5.8752	5.8	72.0111
B 249.678	257.178	ppb	0.5295	0.2	3602.68
Ba 389.178	250.453	ppb	0.1118	0.0	6370.75
Be 313.042	48.4404	ppb	0.0628	0.1	99141.7
Ca 370.602	124501	ppb	464.3	0.4	385721
Cd 226.502	46.6253	ppb	0.0506	0.1	2466.45
Co 228.615	47.1790	ppb	0.1338	0.3	626.201
Cr 267.716	97.5520	ppb	0.0961	0.1	5842.84
Cu 324.754	96.1435	ppb	0.2879	0.3	6355.24
Fe 271.441	17698.4	ppb	10.5316	0.1	30650.3
K 766.491	12135.4	ppb	22.5814	0.2	524601
Mg 279.078	16054.3	ppb	16.0852	0.1	41402.9
Mn 257.610	1978.74	ppb	0.6991	0.0	506106
Mo 202.032	97.8202	ppb	1.3836	1.4	799.453
Na 330.237	61281.4	ppb	203.401	0.3	2562.89
Ni 231.604	94.1176	ppb	0.7554	0.8	330.548
Pb 220.353	47.0356	ppb	1.0909	2.3	103.647
Sb 206.834	46.1506	ppb	4.5408	9.8	77.3189
Se 196.026	95.5438	ppb	0.4900	0.5	54.0686
Sn 189.925	199.755	ppb	2.6390	1.3	179.670
Sr 216.596	530.761	ppb	0.6410	0.1	8172.95
Ti 334.941	93.3360	ppb	0.0876	0.1	26769.2
Tl 190.794	36.4919	ppb	0.6359	1.7	37.5015
V 292.401	99.1901	ppb	0.1525	0.2	2805.55
Zn 206.200	94.6713	ppb	0.4795	0.5	152.702

680-97094-c-4-c msd (Samp) 12/19/2013, 8:46:15 AM Rack 4, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.6759	48.5250	48.2204
Al 308.215	4693.93	4691.81	4675.71
As 188.980	102.451	102.137	98.8989
B 249.678	257.441	256.376	258.491
Ba 389.178	251.776	250.836	250.981
Be 313.042	48.7018	48.6819	48.5363
Ca 370.602	124983	124899	124320
Cd 226.502	46.9917	46.8278	46.5873
Co 228.615	47.9802	47.2214	46.8545
Cr 267.716	98.1469	98.1438	97.5821
Cu 324.754	97.1634	97.4733	96.7890
Fe 271.441	17812.7	17741.9	17729.2
K 766.491	12087.4	12122.2	12158.4
Mg 279.078	16144.8	16091.7	16045.4
Mn 257.610	1986.06	1983.72	1978.83
Mo 202.032	99.9703	99.1882	98.4245
Na 330.237	61706.2	61426.5	61063.0

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Label	Replicates Concentration		
Ni 231.604	93.8141	95.2783	92.3810
Pb 220.353	44.5766	45.7443	42.8763
Sb 206.834	43.4004	46.2987	46.6487
Se 196.026	100.864	95.0557	94.1764
Sn 189.925	199.486	198.587	197.902
Sr 216.596	534.083	530.772	529.052
Ti 334.941	93.6454	93.6321	93.3247
Tl 190.794	36.7158	34.0089	35.1910
V 292.401	99.1938	99.2824	99.8520
Zn 206.200	94.2509	97.6187	91.7918

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.4738	ppb	0.2320	0.5	3997.31
Al 308.215	4687.15	ppb	9.9652	0.2	32894.8
As 188.980	101.162	ppb	1.9664	1.9	71.4650
B 249.678	257.436	ppb	1.0577	0.4	3606.14
Ba 389.178	251.198	ppb	0.5061	0.2	6389.79
Be 313.042	48.6400	ppb	0.0903	0.2	99550.9
Ca 370.602	124734	ppb	361.0	0.3	386440
Cd 226.502	46.8023	ppb	0.2034	0.4	2475.73
Co 228.615	47.3521	ppb	0.5741	1.2	628.478
Cr 267.716	97.9576	ppb	0.3252	0.3	5867.07
Cu 324.754	97.1419	ppb	0.3426	0.4	6419.70
Fe 271.441	17761.3	ppb	44.9566	0.3	30759.1
K 766.491	12122.6	ppb	35.5163	0.3	524049
Mg 279.078	16094.0	ppb	49.7513	0.3	41505.3
Mn 257.610	1982.87	ppb	3.6864	0.2	507162
Mo 202.032	99.1943	ppb	0.7729	0.8	810.569
Na 330.237	61398.6	ppb	322.475	0.5	2567.75
Ni 231.604	93.8244	ppb	1.4487	1.5	329.510
Pb 220.353	44.3991	ppb	1.4422	3.2	98.7043
Sb 206.834	45.4493	ppb	1.7830	3.9	76.2431
Se 196.026	96.6988	ppb	3.6340	3.8	54.6258
Sn 189.925	198.659	ppb	0.7943	0.4	178.613
Sr 216.596	531.303	ppb	2.5572	0.5	8181.38
Ti 334.941	93.5341	ppb	0.1814	0.2	26826.2
Tl 190.794	35.3052	ppb	1.3571	3.8	35.9326
V 292.401	99.4427	ppb	0.3572	0.4	2812.50
Zn 206.200	94.5538	ppb	2.9252	3.1	152.518

mb 680-308037/1-a (Samp)

12/19/2013, 8:51:05 AM

Rack 4, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0904	-0.2629u	-0.2459u
Al 308.215	-4.8141u	-6.9729u	-4.0998u
As 188.980	3.5234	-4.7159u	-3.2877u
B 249.678	4.0247	3.7174	2.5541
Ba 389.178	0.3488	-0.6809u	0.2448
Be 313.042	-0.0074u	-0.0046u	-0.0132u
Ca 370.602	2.459	-1.785u	2.625
Cd 226.502	0.0522	0.0255	0.1439
Co 228.615	1.2194	0.3960	0.2091
Cr 267.716	-0.1512u	0.2083	-0.0464u

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Label	Replicates Concentration		
Cu 324.754	-0.8684u	-0.8916u	-0.2655u
Fe 271.441	3.7558	-1.4826u	0.0946
K 766.491	0.6653	0.7464	0.7547
Mg 279.078	-2.3020u	-3.3667u	5.2090
Mn 257.610	-0.0935u	-0.0810u	-0.0794u
Mo 202.032	0.1514	-0.2753u	-0.1945u
Na 330.237	-116.775u	249.118	49.3033
Ni 231.604	-0.7691u	0.9914	0.4239
Pb 220.353	-0.7495u	-0.1336u	0.2544
Sb 206.834	-0.0034	-2.9083u	-1.3915u
Se 196.026	-1.5893u	7.2906	4.1732
Sn 189.925	0.6792	3.1388	0.5001
Sr 216.596	-0.2447u	-0.4422u	0.0922
Ti 334.941	0.0748	0.0751	0.1157
Tl 190.794	0.2798	-2.4167u	-3.2272u
V 292.401	-0.1802u	0.1683	0.0373
Zn 206.200	0.1652	-0.8252u	-0.9029u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1395	ppb	0.1993	142.8	-22.6439
Al 308.215	-5.2956	ppb	1.4958	28.2	232.072
As 188.980	-1.4934	ppb	4.4030	294.8	-6.3702
B 249.678	3.4321	ppb	0.7757	22.6	113.962
Ba 389.178	-0.0291	ppb	0.5669	1949.8	-29.1606
Be 313.042	-0.0084	ppb	0.0044	52.8	-256.468
Ca 370.602	1.100	ppb	2.499	227.3	13.99
Cd 226.502	0.0739	ppb	0.0621	84.1	15.9963
Co 228.615	0.6082	ppb	0.5376	88.4	4.4919
Cr 267.716	0.0036	ppb	0.1849	5181.2	10.6031
Cu 324.754	-0.6752	ppb	0.3550	52.6	103.254
Fe 271.441	0.7893	ppb	2.6874	340.5	14.0228
K 766.491	0.7222	ppb	0.0494	6.8	280.718
Mg 279.078	-0.1532	ppb	4.6743	3050.8	22.8416
Mn 257.610	-0.0846	ppb	0.0077	9.2	38.8903
Mo 202.032	-0.1061	ppb	0.2267	213.6	8.2113
Na 330.237	60.5487	ppb	183.205	302.6	32.0109
Ni 231.604	0.2154	ppb	0.8986	417.1	-2.9006
Pb 220.353	-0.2096	ppb	0.5062	241.5	13.4396
Sb 206.834	-1.4344	ppb	1.4530	101.3	5.3837
Se 196.026	3.2915	ppb	4.5051	136.9	8.9635
Sn 189.925	1.4394	ppb	1.4745	102.4	-11.5750
Sr 216.596	-0.1983	ppb	0.2702	136.3	6.8843
Ti 334.941	0.0885	ppb	0.0235	26.6	-45.8394
Tl 190.794	-1.7881	ppb	1.8361	102.7	-9.7077
V 292.401	0.0085	ppb	0.1760	2081.6	-9.2147
Zn 206.200	-0.5210	ppb	0.5955	114.3	6.1681

lcs 680-308037/2-a (Samp)

12/19/2013, 8:55:54 AM

Rack 4, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.2633	48.6862	48.2894
Al 308.215	4614.40	4632.28	4617.88
As 188.980	98.4275	95.9902	96.6193

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
B 249.678	189.590	191.081	191.159
Ba 389.178	99.3358	99.8690	99.1912
Be 313.042	49.2934	49.3596	49.1917
Ca 370.602	4816	4846	4819
Cd 226.502	49.2036	49.2925	48.8258
Co 228.615	49.9677	50.1409	49.9606
Cr 267.716	101.687	101.650	101.537
Cu 324.754	97.9462	97.1853	96.9632
Fe 271.441	4984.88	5007.73	4979.56
K 766.491	4572.22	4560.88	4539.12
Mg 279.078	4960.85	4969.60	4955.23
Mn 257.610	503.588	505.852	503.797
Mo 202.032	102.172	102.323	102.269
Na 330.237	5204.56	4955.04	5383.67
Ni 231.604	97.3560	97.2156	96.4802
Pb 220.353	48.2497	48.6985	51.3174
Sb 206.834	47.5834	48.0876	44.2971
Se 196.026	98.7528	94.4719	94.6137
Sn 189.925	206.453	210.477	207.469
Sr 216.596	100.305	101.068	100.481
Ti 334.941	96.6437	96.8994	96.4800
Tl 190.794	40.3220	37.2284	37.4884
V 292.401	100.841	101.527	100.354
Zn 206.200	98.7203	98.9070	100.077

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.4130	ppb	0.2370	0.5	4013.05
Al 308.215	4621.52	ppb	9.4815	0.2	32437.9
As 188.980	97.0123	ppb	1.2653	1.3	68.4632
B 249.678	190.610	ppb	0.8841	0.5	2703.10
Ba 389.178	99.4653	ppb	0.3570	0.4	2506.19
Be 313.042	49.2816	ppb	0.0845	0.2	100826
Ca 370.602	4827	ppb	16.32	0.3	14676
Cd 226.502	49.1073	ppb	0.2478	0.5	2535.88
Co 228.615	50.0231	ppb	0.1021	0.2	663.582
Cr 267.716	101.625	ppb	0.0780	0.1	6072.69
Cu 324.754	97.3649	ppb	0.5155	0.5	6429.26
Fe 271.441	4990.73	ppb	14.9673	0.3	8657.02
K 766.491	4557.40	ppb	16.8240	0.4	197167
Mg 279.078	4961.90	ppb	7.2434	0.1	12813.5
Mn 257.610	504.412	ppb	1.2512	0.2	129068
Mo 202.032	102.255	ppb	0.0763	0.1	836.051
Na 330.237	5181.09	ppb	215.278	4.2	241.327
Ni 231.604	97.0173	ppb	0.4704	0.5	340.468
Pb 220.353	49.4219	ppb	1.6569	3.4	106.728
Sb 206.834	46.6560	ppb	2.0584	4.4	77.6117
Se 196.026	95.9462	ppb	2.4317	2.5	53.7044
Sn 189.925	208.133	ppb	2.0924	1.0	187.664
Sr 216.596	100.618	ppb	0.3997	0.4	1553.58
Ti 334.941	96.6743	ppb	0.2114	0.2	27678.9
Tl 190.794	38.3463	ppb	1.7160	4.5	42.2776
V 292.401	100.907	ppb	0.5895	0.6	2848.83
Zn 206.200	99.2349	ppb	0.7355	0.7	160.040

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Cont Calib Verif (CCV) 12/19/2013, 9:00:43 AM Rack 4, Tube 49**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	477.421	479.374	478.385
Al 308.215	4640.32	4655.37	4618.94
As 188.980	488.778	489.967	489.670
B 249.678	469.871	474.452	472.790
Ba 389.178	4942.53	4952.60	4912.16
Be 313.042	485.112	486.318	482.439
Ca 370.602	4647	4657	4631
Cd 226.502	487.238	487.963	485.523
Co 228.615	490.500	492.077	487.862
Cr 267.716	4910.85	4921.33	4887.93
Cu 324.754	4803.92	4807.83	4851.23
Fe 271.441	4913.04	4917.91	4889.84
K 766.491	9215.11	9250.79	9201.52
Mg 279.078	4974.84	4977.99	4942.76
Mn 257.610	4825.02	4853.70	4815.44
Mo 202.032	503.216	504.933	503.125
Na 330.237	7218.45	7282.43	7204.02
Ni 231.604	2350.68	2361.33	2361.24
Pb 220.353	472.228	474.843	469.893
Sb 206.834	921.611	926.345	923.440
Se 196.026	4710.74	4706.70	4709.17
Sn 189.925	4905.64	4988.99	4974.79
Sr 216.596	2474.11	2479.83	2466.09
Ti 334.941	465.163	466.528	463.324
Tl 190.794	4851.46	4895.56	4879.16
V 292.401	4907.21	4914.77	4877.23
Zn 206.200	2423.64	2434.99	2434.97

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	478.394	ppb	0.9765	0.2	39720.7	95.67871
Al 308.215	4638.21	ppb	18.3052	0.4	31980.1	92.76421
As 188.980	489.471	ppb	0.6185	0.1	366.624	97.89429
B 249.678	472.371	ppb	2.3191	0.5	6615.17	94.47418
Ba 389.178	4935.76	ppb	21.0533	0.4	124652	98.71526
Be 313.042	484.623	ppb	1.9852	0.4	995452	96.92463
Ca 370.602	4645	ppb	12.81	0.3	14497	92.89622
Cd 226.502	486.908	ppb	1.2531	0.3	24833.9	97.38163
Co 228.615	490.146	ppb	2.1295	0.4	6547.68	98.02925
Cr 267.716	4906.70	ppb	17.0782	0.3	292541	98.13404
Cu 324.754	4821.00	ppb	26.2589	0.5	310967	96.41994
Fe 271.441	4906.93	ppb	14.9987	0.3	8621.90	98.13860
K 766.491	9222.47	ppb	25.4480	0.3	398737	92.22472
Mg 279.078	4965.20	ppb	19.4934	0.4	12735.1	99.30392
Mn 257.610	4831.39	ppb	19.9079	0.4	1235223	96.62775
Mo 202.032	503.758	ppb	1.0186	0.2	4075.01	100.75153
Na 330.237	7234.96	ppb	41.7295	0.6	291.708	96.46619
Ni 231.604	2357.75	ppb	6.1262	0.3	8358.25	94.30996
Pb 220.353	472.321	ppb	2.4760	0.5	900.044	94.46429
Sb 206.834	923.798	ppb	2.3874	0.3	1477.95	92.37984
Se 196.026	4708.87	ppb	2.0351	0.0	2272.27	94.17741
Sn 189.925	4956.47	ppb	44.5918	0.9	4764.65	99.12949
Sr 216.596	2473.34	ppb	6.9008	0.3	37760.5	98.93375

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	465.005	ppb	1.6079	0.3	133319	93.00102
Tl 190.794	4875.39	ppb	22.2947	0.5	6398.49	97.50787
V 292.401	4899.74	ppb	19.8512	0.4	139398	97.99474
Zn 206.200	2431.20	ppb	6.5480	0.3	3756.38	97.24798

Cont Calib Blank (CCB) 12/19/2013, 9:05:31 AM Rack 4, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3818	0.2175	0.0712
Al 308.215	-8.3295u	-8.8190u	-6.5060u
As 188.980	0.6848	1.3258	7.3553
B 249.678	4.1166	3.1899	2.6571
Ba 389.178	-0.4638u	0.6216	-0.5553u
Be 313.042	0.0053	-0.0024u	0.0045
Ca 370.602	-1.069u	-1.488u	-0.2901u
Cd 226.502	0.0386	0.0113	-0.0315u
Co 228.615	0.2529	0.4551	-0.0845u
Cr 267.716	0.1418	0.2063	0.1599
Cu 324.754	-0.3790u	-0.5552u	-0.3374u
Fe 271.441	0.9693	4.8194	2.2450
K 766.491	0.5631	1.3059	0.7295
Mg 279.078	1.7674	-0.5145u	0.1724
Mn 257.610	0.0434	-0.0127u	-0.0114u
Mo 202.032	0.5326	0.4819	0.1339
Na 330.237	-56.5655u	63.0022	242.308
Ni 231.604	-0.4950u	0.6333	0.7102
Pb 220.353	-1.9984u	0.7520	-0.6129u
Sb 206.834	-2.0975u	-2.9026u	1.1724
Se 196.026	8.2221	4.9401	1.0146
Sn 189.925	4.7229	2.5306	4.0171
Sr 216.596	0.1747	-0.0743u	0.0029
Ti 334.941	0.1891	0.1689	0.2211
Tl 190.794	3.7140	1.6924	2.3968
V 292.401	0.0882	0.1327	-0.0824u
Zn 206.200	-1.5488u	0.1600	-1.0380u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2235	ppb	0.1554	69.5	7.5603	0.22349
Al 308.215	-7.8848	ppb	1.2189	15.5	214.074	-7.88482
As 188.980	3.1220	ppb	3.6801	117.9	-2.8624	3.12196
B 249.678	3.3212	ppb	0.7385	22.2	112.425	3.32118
Ba 389.178	-0.1325	ppb	0.6547	494.0	-31.7712	-0.13253
Be 313.042	0.0024	ppb	0.0043	173.8	-234.319	0.00245
Ca 370.602	-0.9492	ppb	0.6079	64.0	7.825	-0.94915
Cd 226.502	0.0061	ppb	0.0354	577.3	12.5386	0.00613
Co 228.615	0.2078	ppb	0.2726	131.2	-0.8644	0.20782
Cr 267.716	0.1693	ppb	0.0333	19.6	20.4874	0.16933
Cu 324.754	-0.4239	ppb	0.1156	27.3	119.475	-0.42388
Fe 271.441	2.6779	ppb	1.9612	73.2	17.2495	2.67790
K 766.491	0.8662	ppb	0.3898	45.0	286.942	0.86620
Mg 279.078	0.4751	ppb	1.1707	246.4	24.4618	0.47512
Mn 257.610	0.0065	ppb	0.0320	495.3	62.1810	0.00647
Mo 202.032	0.3828	ppb	0.2170	56.7	12.1677	0.38281

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	82.9148	ppb	150.428	181.4	32.9495	82.91484
Ni 231.604	0.2829	ppb	0.6747	238.5	-2.6603	0.28286
Pb 220.353	-0.6198	ppb	1.3752	221.9	12.6694	-0.61978
Sb 206.834	-1.2759	ppb	2.1582	169.1	5.6124	-1.27592
Se 196.026	4.7256	ppb	3.6086	76.4	9.6529	4.72561
Sn 189.925	3.7569	ppb	1.1191	29.8	-9.3411	3.75685
Sr 216.596	0.0344	ppb	0.1274	370.1	10.4204	0.03444
Ti 334.941	0.1930	ppb	0.0263	13.6	-15.8774	0.19300
Tl 190.794	2.6011	ppb	1.0262	39.5	-3.9423	2.60109
V 292.401	0.0462	ppb	0.1136	246.1	-8.2396	0.04615
Zn 206.200	-0.8089	ppb	0.8772	108.4	5.7230	-0.80893

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Rack 4, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1672u	-0.0706u	0.2157u
Al 308.215	-0.7951u	-3.4963u	-0.9398u
As 188.980	-0.0846u	5.1569	6.0097
B 249.678	26.1364	27.3353	26.1599
Ba 389.178	63.4928	64.8303	64.2436
Be 313.042	-0.0449u	-0.0413u	-0.0476u
Ca 370.602	157493	157632	157854
Cd 226.502	0.1289	0.1059	0.1164
Co 228.615	0.6200	0.7986	0.5474
Cr 267.716	0.3192	0.0752	0.3376
Cu 324.754	-0.4865u	-0.7153u	-0.8418u
Fe 271.441	140.115	136.492	137.501
K 766.491	1832.88	1834.05	1825.09
Mg 279.078	22032.5	22066.9	22090.0
Mn 257.610	78.7855	78.7978	79.0693
Mo 202.032	0.6340	1.2263	1.0630
Na 330.237	5211.88	5311.72	5060.53
Ni 231.604	5.6910	6.2102	4.1382
Pb 220.353	1.7013	0.2314	1.4587
Sb 206.834	-2.6319u	-2.4569u	-0.4459u
Se 196.026	-3.7725u	4.4415	-5.6608u
Sn 189.925	4.3762	2.4052	0.3873
Sr 216.596	516.080	518.498	518.212
Ti 334.941	0.1929	0.2100	0.1571
Tl 190.794	-2.4192u	-1.7757u	-5.1866u
V 292.401	0.6513	0.2607	0.2342
Zn 206.200	2.4716	2.8184	2.1813

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1041	ppb	0.1532	147.2	-29.8960
Al 308.215	-1.7437	ppb	1.5195	87.1	256.819
As 188.980	3.6940	ppb	3.3000	89.3	-2.4295
B 249.678	26.5439	ppb	0.6855	2.6	434.592
Ba 389.178	64.1889	ppb	0.6704	1.0	1654.40
Be 313.042	-0.0446	ppb	0.0032	7.1	-269.091
Ca 370.602	157660	ppb	182.2	0.1	490155
Cd 226.502	0.1171	ppb	0.0115	9.8	19.1477
Co 228.615	0.6554	ppb	0.1293	19.7	5.1017

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2440	ppb	0.1465	60.0	25.5170
Cu 324.754	-0.6812	ppb	0.1801	26.4	102.953
Fe 271.441	138.036	ppb	1.8699	1.4	251.572
K 766.491	1830.68	ppb	4.8705	0.3	79350.0
Mg 279.078	22063.2	ppb	28.9382	0.1	56946.3
Mn 257.610	78.8842	ppb	0.1604	0.2	20424.4
Mo 202.032	0.9744	ppb	0.3059	31.4	16.9470
Na 330.237	5194.71	ppb	126.476	2.4	244.655
Ni 231.604	5.3465	ppb	1.0781	20.2	15.3034
Pb 220.353	1.1305	ppb	0.7880	69.7	15.9820
Sb 206.834	-1.8449	ppb	1.2147	65.8	4.7496
Se 196.026	-1.6639	ppb	5.3711	322.8	6.6030
Sn 189.925	2.3896	ppb	1.9945	83.5	-10.5755
Sr 216.596	517.596	ppb	1.3212	0.3	7949.20
Ti 334.941	0.1867	ppb	0.0270	14.4	81.9267
Tl 190.794	-3.1272	ppb	1.8123	58.0	-11.5324
V 292.401	0.3821	ppb	0.2335	61.1	1.5215
Zn 206.200	2.4904	ppb	0.3190	12.8	10.8174

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Rack 4, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0969u	-0.1652u	-0.0922u
Al 308.215	-1.8459u	0.2325	0.0875
As 188.980	1.6659	2.6660	4.1309
B 249.678	26.6975	27.7881	27.7677
Ba 389.178	51.6035	51.1669	52.3627
Be 313.042	-0.0343u	-0.0344u	-0.0316u
Ca 370.602	111419	111279	113517
Cd 226.502	0.0929	0.0428	-0.0065u
Co 228.615	0.6987	0.3207	-0.2798u
Cr 267.716	0.1499	0.0427	0.0648
Cu 324.754	-0.2073u	-0.0410u	-0.1071u
Fe 271.441	15.4093	17.0238	10.4139
K 766.491	1128.02	1128.42	1158.58
Mg 279.078	19009.5	19039.4	19433.2
Mn 257.610	1.3666	1.2858	1.3870
Mo 202.032	1.3821	1.4029	1.8455
Na 330.237	7071.36	7162.07	7369.63
Ni 231.604	1.9072	2.8400	2.7083
Pb 220.353	0.4231	0.0849	-0.0299u
Sb 206.834	1.8835	-2.3522u	0.8772
Se 196.026	0.1664	-3.3354u	1.4711
Sn 189.925	1.7333	4.8282	0.2813
Sr 216.596	349.276	349.433	355.883
Ti 334.941	0.0806	0.0702	0.1315
Tl 190.794	-2.3778u	-0.5811u	-1.5678u
V 292.401	0.3906	0.0067	-0.1393u
Zn 206.200	2.2361	2.8017	2.6742

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1181	ppb	0.0409	34.6	-39.8854
Al 308.215	-0.5087	ppb	1.1604	228.1	265.494

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.8209	ppb	1.2398	43.9	-3.0917
B 249.678	27.4178	ppb	0.6238	2.3	446.971
Ba 389.178	51.7110	ppb	0.6051	1.2	1331.07
Be 313.042	-0.0334	ppb	0.0015	4.6	-264.743
Ca 370.602	112072	ppb	1254	1.1	348432
Cd 226.502	0.0431	ppb	0.0497	115.4	14.7429
Co 228.615	0.2465	ppb	0.4935	200.2	-0.3813
Cr 267.716	0.0858	ppb	0.0566	65.9	15.6590
Cu 324.754	-0.1185	ppb	0.0837	70.7	139.214
Fe 271.441	14.2823	ppb	3.4461	24.1	37.3391
K 766.491	1138.34	ppb	17.5307	1.5	49435.3
Mg 279.078	19160.7	ppb	236.464	1.2	49459.2
Mn 257.610	1.3464	ppb	0.0535	4.0	576.034
Mo 202.032	1.5435	ppb	0.2618	17.0	21.5597
Na 330.237	7201.02	ppb	152.903	2.1	327.809
Ni 231.604	2.4852	ppb	0.5049	20.3	5.1517
Pb 220.353	0.1594	ppb	0.2355	147.7	14.1302
Sb 206.834	0.1362	ppb	2.2130	1625.0	7.6968
Se 196.026	-0.5660	ppb	2.4855	439.2	7.1098
Sn 189.925	2.2810	ppb	2.3224	101.8	-10.7033
Sr 216.596	351.531	ppb	3.7699	1.1	5402.55
Ti 334.941	0.0941	ppb	0.0328	34.9	42.2380
Tl 190.794	-1.5089	ppb	0.8998	59.6	-9.3450
V 292.401	0.0860	ppb	0.2737	318.4	-7.1194
Zn 206.200	2.5707	ppb	0.2966	11.5	10.9445

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Rack 4, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1783u	-0.2248u	-0.2672u
Al 308.215	-0.1956u	-2.3836u	-2.3621u
As 188.980	1.2258	-1.0737u	5.2012
B 249.678	75.3647	75.9915	78.5630
Ba 389.178	58.4546	58.5570	58.7823
Be 313.042	-0.0354u	-0.0353u	-0.0372u
Ca 370.602	113802	113504	115876
Cd 226.502	0.0105	0.1208	0.0985
Co 228.615	0.0046u	0.0579	0.3715
Cr 267.716	0.1333	0.1350	0.0982
Cu 324.754	-0.6971u	-0.7049u	-0.3572u
Fe 271.441	88.9064	85.1990	89.7217
K 766.491	1017.41	1013.49	1037.55
Mg 279.078	13963.4	13985.1	14307.2
Mn 257.610	66.4517	66.2833	67.6731
Mo 202.032	2.5631	2.1229	3.2620
Na 330.237	9128.94	9239.43	9414.58
Ni 231.604	2.6153	1.9295	1.8526
Pb 220.353	-1.4232u	0.2572	0.6766
Sb 206.834	-0.3724u	-0.3756u	-5.9988u
Se 196.026	-0.3741u	-1.7737u	-5.5979u
Sn 189.925	1.5996	3.5184	3.6647
Sr 216.596	444.280	444.332	456.536
Ti 334.941	0.1853	0.1089	0.1548

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Label	Replicates Concentration		
Tl 190.794	-1.3883u	-2.3717u	-0.4012u
V 292.401	0.1718	0.0475	0.0109u
Zn 206.200	4.9595	4.1704	5.6864

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1046	ppb	0.2459	235.1	-43.4377
Al 308.215	-1.6471	ppb	1.2571	76.3	257.644
As 188.980	1.7844	ppb	3.1745	177.9	-3.8808
B 249.678	76.6397	ppb	1.6949	2.2	1130.23
Ba 389.178	58.5980	ppb	0.1677	0.3	1490.93
Be 313.042	-0.0360	ppb	0.0011	3.0	-269.384
Ca 370.602	114394	ppb	1292	1.1	355649
Cd 226.502	0.0766	ppb	0.0583	76.2	16.7003
Co 228.615	0.1446	ppb	0.1983	137.1	-1.7762
Cr 267.716	0.1222	ppb	0.0208	17.0	18.2497
Cu 324.754	-0.5864	ppb	0.1985	33.9	109.115
Fe 271.441	87.9424	ppb	2.4106	2.7	164.815
K 766.491	1022.82	ppb	12.9082	1.3	44443.7
Mg 279.078	14085.2	ppb	192.537	1.4	36362.8
Mn 257.610	66.8027	ppb	0.7585	1.1	17264.7
Mo 202.032	2.6493	ppb	0.5744	21.7	30.5041
Na 330.237	9260.98	ppb	144.032	1.6	413.098
Ni 231.604	2.1325	ppb	0.4199	19.7	3.9032
Pb 220.353	-0.1631	ppb	1.1112	681.1	13.5460
Sb 206.834	-2.2489	ppb	3.2475	144.4	4.0962
Se 196.026	-2.5819	ppb	2.7040	104.7	6.1579
Sn 189.925	2.9276	ppb	1.1524	39.4	-10.0780
Sr 216.596	448.383	ppb	7.0612	1.6	6884.06
Ti 334.941	0.1497	ppb	0.0384	25.7	35.0062
Tl 190.794	-1.3871	ppb	0.9852	71.0	-9.2354
V 292.401	0.0767	ppb	0.0844	110.0	-7.6415
Zn 206.200	4.9388	ppb	0.7582	15.4	14.6015

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Rack 4, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0939u	0.5057u	0.3524u
Al 308.215	36.5955	38.4652	37.7068
As 188.980	2.7678	1.2756	-2.6363u
B 249.678	1146.96	1155.15	1180.39
Ba 389.178	41.6567	41.1401	42.5801
Be 313.042	-0.0065u	-0.0085u	-0.0100u
Ca 370.602	32280	32274	32856
Cd 226.502	0.1046	0.0732	0.1628
Co 228.615	0.2586	-0.0479u	-0.5942u
Cr 267.716	0.1259	0.2256	-0.0948u
Cu 324.754	0.0727	-0.2268u	0.1229
Fe 271.441	64.4610	67.6282	70.3885
K 766.491	2585.02	2589.27	2648.12
Mg 279.078	13822.1	13825.6	14076.7
Mn 257.610	4.5805	4.5593	4.6672
Mo 202.032	4.8367	4.5919	4.9062
Na 330.237	124136x	124502x	126728x

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Label	Replicates Concentration		
Ni 231.604	1.9526	2.9898	1.7817
Pb 220.353	0.5929	1.1945	-0.3427u
Sb 206.834	1.4958	-3.4400u	-3.3961u
Se 196.026	-4.7214u	0.5212	3.8697
Sn 189.925	-1.3893u	2.5306	4.3174
Sr 216.596	1484.46	1487.50	1510.90
Ti 334.941	0.2031	0.1723	0.1438
Tl 190.794	-1.8217u	-0.5855u	1.7273
V 292.401	0.5464	1.1276	0.6190
Zn 206.200	3.5456	3.1240	3.6651

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3174b	ppb	0.2081	65.6	-63.0870
Al 308.215	37.5892b	ppb	0.9404	2.5	530.850
As 188.980	0.4690b	ppb	2.7909	595.0	-4.8805
B 249.678	1160.84b	ppb	17.4247	1.5	16183.6
Ba 389.178	41.7923b	ppb	0.7295	1.7	1066.00
Be 313.042	-0.0083b	ppb	0.0018	21.4	-258.414
Ca 370.602	32470b	ppb	334.2	1.0	100952
Cd 226.502	0.1135b	ppb	0.0455	40.1	17.7061
Co 228.615	-0.1278b	ppb	0.4320	338.0	-5.4741
Cr 267.716	0.0856b	ppb	0.1639	191.6	17.9630
Cu 324.754	-0.0104b	ppb	0.1891	1815.9	146.309
Fe 271.441	67.4926b	ppb	2.9661	4.4	129.402
K 766.491	2607.47b	ppb	35.2684	1.4	112914
Mg 279.078	13908.1b	ppb	145.961	1.0	35907.1
Mn 257.610	4.6023b	ppb	0.0572	1.2	1360.18
Mo 202.032	4.7783b	ppb	0.1651	3.5	47.7316
Na 330.237	125122xb	ppb	1402.79	1.1	5213.44
Ni 231.604	2.2414b	ppb	0.6538	29.2	4.2897
Pb 220.353	0.4816b	ppb	0.7746	160.8	14.7344
Sb 206.834	-1.7801b	ppb	2.8371	159.4	4.7464
Se 196.026	-0.1101b	ppb	4.3302	3931.5	7.3305
Sn 189.925	1.8195b	ppb	2.9191	160.4	-11.1464
Sr 216.596	1494.29b	ppb	14.4668	1.0	22865.1
Ti 334.941	0.1731b	ppb	0.0296	17.1	32.7616
Tl 190.794	-0.2266b	ppb	1.8015	795.0	-7.6708
V 292.401	0.7643b	ppb	0.3167	41.4	10.7709
Zn 206.200	3.4449b	ppb	0.2843	8.3	12.2939

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Rack 4, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1715u	0.3072	0.2968
Al 308.215	3.3642	2.7086	2.0563
As 188.980	2.5784	3.1882	2.5846
B 249.678	268.070	264.803	260.200
Ba 389.178	9.9243	10.2424	9.1121
Be 313.042	-0.0162u	-0.0082u	-0.0087u
Ca 370.602	7336	7224	7067
Cd 226.502	0.0157	0.1124	0.1147
Co 228.615	0.2010	0.3436	0.3819
Cr 267.716	0.1690	0.1796	0.0944

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Label	Replicates Concentration		
Cu 324.754	-0.4106u	-0.8763u	-0.7432u
Fe 271.441	20.1906	18.2192	19.5982
K 766.491	527.351	522.204	515.497
Mg 279.078	3189.86	3137.23	3072.15
Mn 257.610	0.9508	0.9142	0.9803
Mo 202.032	1.1621	0.9148	0.7630
Na 330.237	26437.5	26253.6	25714.3
Ni 231.604	1.7552	0.5051	0.9830
Pb 220.353	2.2679	0.3146	1.1397
Sb 206.834	0.9769	-0.1627u	-1.9246u
Se 196.026	3.1191	2.1370	4.7036
Sn 189.925	3.1127	0.3043	2.3779
Sr 216.596	343.518	339.031	331.066
Ti 334.941	0.0340	0.1049	0.0145
Tl 190.794	-1.7660u	0.8912	-2.5043u
V 292.401	0.4238	0.1679	0.1222
Zn 206.200	-0.0465u	0.9345	-0.4223u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2585	ppb	0.0755	29.2	-7.3242
Al 308.215	2.7097	ppb	0.6539	24.1	287.846
As 188.980	2.7837	ppb	0.3503	12.6	-3.1198
B 249.678	264.358	ppb	3.9539	1.5	3736.69
Ba 389.178	9.7596	ppb	0.5829	6.0	226.828
Be 313.042	-0.0110	ppb	0.0045	40.7	-262.132
Ca 370.602	7209	ppb	135.0	1.9	22421
Cd 226.502	0.0809	ppb	0.0565	69.9	16.3145
Co 228.615	0.3088	ppb	0.0953	30.9	0.4633
Cr 267.716	0.1477	ppb	0.0465	31.5	19.7081
Cu 324.754	-0.6767	ppb	0.2398	35.4	103.200
Fe 271.441	19.3360	ppb	1.0115	5.2	46.0953
K 766.491	521.684	ppb	5.9438	1.1	22790.6
Mg 279.078	3133.08	ppb	58.9631	1.9	8106.80
Mn 257.610	0.9484	ppb	0.0331	3.5	330.719
Mo 202.032	0.9467	ppb	0.2014	21.3	16.7290
Na 330.237	26135.2	ppb	375.869	1.4	1112.31
Ni 231.604	1.0811	ppb	0.6308	58.3	0.1714
Pb 220.353	1.2408	ppb	0.9806	79.0	16.1600
Sb 206.834	-0.3701	ppb	1.4618	394.9	6.9542
Se 196.026	3.3199	ppb	1.2950	39.0	8.9777
Sn 189.925	1.9316	ppb	1.4564	75.4	-11.0874
Sr 216.596	337.872	ppb	6.3064	1.9	5177.64
Ti 334.941	0.0512	ppb	0.0476	92.9	-44.1685
Tl 190.794	-1.1264	ppb	1.7859	158.5	-8.8422
V 292.401	0.2380	ppb	0.1626	68.3	-3.0203
Zn 206.200	0.1552	ppb	0.7006	451.3	7.2122

680-97147-a-4-aPDS (Samp) 12/19/2013, 9:34:25 AM Rack 4, Tube 56

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	38.6615	39.2789	40.1443
Al 308.215	1868.45	1864.97	1890.41
As 188.980	200.854	195.417	193.546

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Label	Replicates Concentration		
B 249.678	1603.68	1610.26	1640.19
Ba 389.178	233.403	233.520	235.769
Be 313.042	47.9673	47.9490	48.5496
Ca 370.602	33790	33745	34145
Cd 226.502	47.2814	47.4517	47.9012
Co 228.615	188.598	187.004	190.818
Cr 267.716	191.597	191.625	194.490
Cu 324.754	190.465	191.889	192.304
Fe 271.441	1978.28	1978.55	1995.57
K 766.491	4568.22	4553.12	4621.51
Mg 279.078	15670.4	15628.9	15837.2
Mn 257.610	197.821	197.788	200.056
Mo 202.032	202.268	202.352	203.701
Na 330.237	125739x	125701x	127262x
Ni 231.604	186.796	186.518	188.536
Pb 220.353	181.661	179.718	184.154
Sb 206.834	179.818	181.247	180.739
Se 196.026	181.495	181.097	182.627
Sn 189.925	194.753	198.193	199.791
Sr 216.596	1670.78	1667.79	1689.40
Ti 334.941	187.532	187.641	190.114
Tl 190.794	181.499	180.981	183.562
V 292.401	194.551	193.956	195.751
Zn 206.200	191.310	191.377	194.969

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	39.3615b	ppb	0.7448	1.9	3177.78
Al 308.215	1874.61b	ppb	13.7951	0.7	13307.1
As 188.980	196.605b	ppb	3.7966	1.9	144.129
B 249.678	1618.04b	ppb	19.4559	1.2	22527.8
Ba 389.178	234.231b	ppb	1.3337	0.6	5935.46
Be 313.042	48.1553b	ppb	0.3416	0.7	98539.7
Ca 370.602	33893b	ppb	219.2	0.6	105335
Cd 226.502	47.5447b	ppb	0.3202	0.7	2442.20
Co 228.615	188.806b	ppb	1.9153	1.0	2514.72
Cr 267.716	192.571b	ppb	1.6624	0.9	11494.3
Cu 324.754	191.553b	ppb	0.9647	0.5	12503.8
Fe 271.441	1984.13b	ppb	9.9077	0.5	3469.72
K 766.491	4580.95b	ppb	35.9305	0.8	198185
Mg 279.078	15712.2b	ppb	110.273	0.7	40557.1
Mn 257.610	198.555b	ppb	1.3000	0.7	50964.5
Mo 202.032	202.773b	ppb	0.8043	0.4	1649.45
Na 330.237	126234xb	ppb	890.497	0.7	5255.76
Ni 231.604	187.283b	ppb	1.0937	0.6	660.170
Pb 220.353	181.844b	ppb	2.2236	1.2	354.595
Sb 206.834	180.602b	ppb	0.7244	0.4	277.401
Se 196.026	181.740b	ppb	0.7936	0.4	94.8258
Sn 189.925	197.579b	ppb	2.5745	1.3	177.550
Sr 216.596	1675.99b	ppb	11.7094	0.7	25638.1
Ti 334.941	188.429b	ppb	1.4601	0.8	54034.9
Tl 190.794	182.014b	ppb	1.3653	0.8	231.889
V 292.401	194.753b	ppb	0.9145	0.5	5502.58
Zn 206.200	192.552b	ppb	2.0934	1.1	304.161

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

680-97147-a-4-b ms (Samp) 12/19/2013, 9:39:13 AM Rack 4, Tube 57**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.1742	47.0605	47.3480
Al 308.215	4647.50	4584.36	4584.15
As 188.980	101.567	97.2822	93.8684
B 249.678	1331.17	1306.91	1311.45
Ba 389.178	138.966	134.704	135.931
Be 313.042	48.5123	47.4272	47.5497
Ca 370.602	36981	36155	36169
Cd 226.502	47.3305	46.2089	46.3291
Co 228.615	47.0330	46.3688	46.3286
Cr 267.716	98.5971	96.7491	95.9142
Cu 324.754	96.0547	94.0135	93.7340
Fe 271.441	4859.34	4734.82	4762.89
K 766.491	7575.28	7411.01	7417.32
Mg 279.078	18654.7	18232.2	18232.5
Mn 257.610	490.047	478.882	480.154
Mo 202.032	104.113	101.792	102.288
Na 330.237	127845x	124553x	125069x
Ni 231.604	95.0098	92.8481	92.9349
Pb 220.353	45.4901	42.8150	47.3088
Sb 206.834	40.7907	45.3498	47.5543
Se 196.026	86.6479	88.6809	94.6960
Sn 189.925	199.065	192.793	194.423
Sr 216.596	1576.07	1540.63	1542.50
Ti 334.941	93.2539	91.4257	91.4821
Tl 190.794	35.8802	35.2005	34.5545
V 292.401	98.8993	96.3904	96.2139
Zn 206.200	95.9060	94.2950	95.6142

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.5276b	ppb	0.5781	1.2	3863.29
Al 308.215	4605.34b	ppb	36.5160	0.8	32325.7
As 188.980	97.5726b	ppb	3.8576	4.0	68.8911
B 249.678	1316.51b	ppb	12.8967	1.0	18335.8
Ba 389.178	136.534b	ppb	2.1939	1.6	3479.49
Be 313.042	47.8297b	ppb	0.5943	1.2	97846.4
Ca 370.602	36435b	ppb	473.0	1.3	112958
Cd 226.502	46.6228b	ppb	0.6158	1.3	2407.83
Co 228.615	46.5768b	ppb	0.3956	0.8	617.445
Cr 267.716	97.0868b	ppb	1.3730	1.4	5804.34
Cu 324.754	94.6008b	ppb	1.2669	1.3	6251.02
Fe 271.441	4785.68b	ppb	65.3134	1.4	8301.73
K 766.491	7467.87b	ppb	93.0753	1.2	322924
Mg 279.078	18373.1b	ppb	243.886	1.3	47415.9
Mn 257.610	483.028b	ppb	6.1117	1.3	123720
Mo 202.032	102.731b	ppb	1.2224	1.2	839.925
Na 330.237	125822xb	ppb	1770.76	1.4	5239.80
Ni 231.604	93.5976b	ppb	1.2238	1.3	328.342
Pb 220.353	45.2046b	ppb	2.2605	5.0	98.7993
Sb 206.834	44.5649b	ppb	3.4494	7.7	74.3477
Se 196.026	90.0083b	ppb	4.1850	4.6	50.8413
Sn 189.925	195.427b	ppb	3.2543	1.7	175.476
Sr 216.596	1553.07b	ppb	19.9446	1.3	23768.6

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	92.0539b	ppb	1.0396	1.1	26406.1
Tl 190.794	35.2117b	ppb	0.6629	1.9	38.1851
V 292.401	97.1678b	ppb	1.5021	1.5	2741.47
Zn 206.200	95.2717b	ppb	0.8584	0.9	153.928

680-97147-a-4-c msd (Samp) 12/19/2013, 9:50:32 AM Rack 4, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.0821	47.3753	47.6745
Al 308.215	4696.03	4628.76	4597.71
As 188.980	101.926	97.6744	100.701
B 249.678	1332.23	1312.01	1325.28
Ba 389.178	140.480	136.254	136.418
Be 313.042	49.1149	48.0546	48.0361
Ca 370.602	37890	36933	36854
Cd 226.502	47.6899	46.2806	46.9034
Co 228.615	48.0101	46.8453	47.1772
Cr 267.716	99.0447	97.6532	97.5855
Cu 324.754	97.1629	95.1026	94.5612
Fe 271.441	4901.59	4787.49	4805.34
K 766.491	7694.79	7543.10	7524.84
Mg 279.078	18911.9	18493.8	18572.7
Mn 257.610	495.578	482.989	483.026
Mo 202.032	104.963	100.769	102.000
Na 330.237	129058x	126269x	127110x
Ni 231.604	95.7468	92.1993	93.3653
Pb 220.353	45.7093	45.4183	42.2631
Sb 206.834	44.9365	44.1015	41.9489
Se 196.026	94.9009	87.6888	97.8208
Sn 189.925	196.656	194.076	197.827
Sr 216.596	1603.27	1563.16	1569.42
Ti 334.941	95.0616	92.8750	92.5089
Tl 190.794	34.3851	32.9873	30.4076
V 292.401	99.5336	97.2070	97.6904
Zn 206.200	97.3224	95.6519	96.7248

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.0440b	ppb	0.9114	1.9	3904.99
Al 308.215	4640.83b	ppb	50.2598	1.1	32572.7
As 188.980	100.101b	ppb	2.1885	2.2	70.8123
B 249.678	1323.17b	ppb	10.2736	0.8	18428.2
Ba 389.178	137.717b	ppb	2.3942	1.7	3510.33
Be 313.042	48.4018b	ppb	0.6176	1.3	99019.9
Ca 370.602	37226b	ppb	576.8	1.5	115411
Cd 226.502	46.9580b	ppb	0.7062	1.5	2425.12
Co 228.615	47.3442b	ppb	0.6001	1.3	627.718
Cr 267.716	98.0945b	ppb	0.8236	0.8	5864.48
Cu 324.754	95.6089b	ppb	1.3727	1.4	6316.03
Fe 271.441	4831.47b	ppb	61.3728	1.3	8381.07
K 766.491	7587.57b	ppb	93.2956	1.2	328096
Mg 279.078	18659.5b	ppb	222.162	1.2	48154.6
Mn 257.610	487.197b	ppb	7.2578	1.5	124788
Mo 202.032	102.577b	ppb	2.1559	2.1	838.676

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	127479xb	ppb	1430.87	1.1	5308.41
Ni 231.604	93.7705b	ppb	1.8081	1.9	328.954
Pb 220.353	44.4636b	ppb	1.9112	4.3	97.4127
Sb 206.834	43.6623b	ppb	1.5415	3.5	73.0250
Se 196.026	93.4701b	ppb	5.2153	5.6	52.5073
Sn 189.925	196.186b	ppb	1.9191	1.0	176.209
Sr 216.596	1578.61b	ppb	21.5768	1.4	24159.4
Ti 334.941	93.4818b	ppb	1.3803	1.5	26817.0
Tl 190.794	32.5933b	ppb	2.0178	6.2	34.7394
V 292.401	98.1437b	ppb	1.2277	1.3	2769.26
Zn 206.200	96.5663b	ppb	0.8465	0.9	155.925

680-97147-a-5-a (Samp) 12/19/2013, 9:55:21 AM Rack 4, Tube 59

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3694u	0.5256u	0.4011u
Al 308.215	37.5529	36.7861	38.4433
As 188.980	-0.1131u	2.4827	-2.8383u
B 249.678	1163.00	1163.28	1175.44
Ba 389.178	40.5027	42.1110	42.0280
Be 313.042	-0.0097u	-0.0078u	-0.0045u
Ca 370.602	32363	32396	32455
Cd 226.502	0.1782	0.0531	0.0585
Co 228.615	0.3697	0.0718	0.3479
Cr 267.716	0.2886	0.2802	0.1061
Cu 324.754	-0.0333u	-0.1796u	0.1215
Fe 271.441	61.4192	60.3305	63.8234
K 766.491	2557.30	2552.23	2574.52
Mg 279.078	13878.1	13877.0	13976.5
Mn 257.610	3.8097	3.8748	3.8184
Mo 202.032	4.8497	4.8278	5.6267
Na 330.237	123851x	124080x	124587x
Ni 231.604	2.3168	1.8648	2.7714
Pb 220.353	-0.1269u	-1.2232u	0.6877
Sb 206.834	0.4293	-2.5024u	-1.6221u
Se 196.026	-1.0268u	7.4539	-4.2925u
Sn 189.925	3.3178	1.7162	3.0627
Sr 216.596	1493.43	1491.61	1497.95
Ti 334.941	0.2364	0.2419	0.2167
Tl 190.794	-5.3080u	-1.8652u	-3.0925u
V 292.401	0.7234	0.7463	0.6218
Zn 206.200	2.8034	2.3114	2.1794

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4320b	ppb	0.0826	19.1	-53.6697
Al 308.215	37.5941b	ppb	0.8294	2.2	530.914
As 188.980	-0.1562b	ppb	2.6608	1703.1	-5.3558
B 249.678	1167.24b	ppb	7.1003	0.6	16272.5
Ba 389.178	41.5472b	ppb	0.9056	2.2	1059.80
Be 313.042	-0.0073b	ppb	0.0026	35.7	-256.335
Ca 370.602	32405b	ppb	46.77	0.1	100750
Cd 226.502	0.0966b	ppb	0.0707	73.2	16.8165
Co 228.615	0.2631b	ppb	0.1660	63.1	-0.2685

E12182013.vvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2250b	ppb	0.1030	45.8	26.2450
Cu 324.754	-0.0305b	ppb	0.1506	494.2	145.027
Fe 271.441	61.8577b	ppb	1.7873	2.9	119.692
K 766.491	2561.35b	ppb	11.6827	0.5	110921
Mg 279.078	13910.6b	ppb	57.1182	0.4	35913.4
Mn 257.610	3.8343b	ppb	0.0353	0.9	1163.81
Mo 202.032	5.1014b	ppb	0.4550	8.9	50.3473
Na 330.237	124173xb	ppb	376.729	0.3	5174.12
Ni 231.604	2.3177b	ppb	0.4533	19.6	4.5589
Pb 220.353	-0.2208b	ppb	0.9589	434.3	13.4153
Sb 206.834	-1.2317b	ppb	1.5044	122.1	5.5614
Se 196.026	0.7115b	ppb	6.0631	852.1	7.7252
Sn 189.925	2.6989b	ppb	0.8605	31.9	-10.2993
Sr 216.596	1494.33b	ppb	3.2612	0.2	22865.7
Ti 334.941	0.2317b	ppb	0.0133	5.7	49.6487
Tl 190.794	-3.4219b	ppb	1.7449	51.0	-11.8668
V 292.401	0.6972b	ppb	0.0663	9.5	8.7874
Zn 206.200	2.4314b	ppb	0.3289	13.5	10.7280

680-97147-a-6-a (Samp)

12/19/2013, 10:16:17 AM

Rack 4, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2138u	0.1103u	0.1538u
Al 308.215	0.6147	1.2144	0.8761
As 188.980	2.9039	-3.1007u	2.2658
B 249.678	101.721	102.554	101.828
Ba 389.178	56.1548	54.9248	54.9237
Be 313.042	-0.0301u	-0.0327u	-0.0358u
Ca 370.602	97939	98136	97510
Cd 226.502	0.2037	0.0846	0.0679
Co 228.615	-0.1270u	0.0619	-0.1736u
Cr 267.716	0.0329	-0.0941u	0.1422
Cu 324.754	-0.3423u	-0.8925u	-0.3907u
Fe 271.441	20.8058	20.7395	20.2591
K 766.491	1610.71	1624.28	1619.63
Mg 279.078	21605.4	21666.5	21573.4
Mn 257.610	2.0581	2.0474	2.0519
Mo 202.032	0.0832	-0.0726u	-0.1276u
Na 330.237	13905.7	14235.7	13906.7
Ni 231.604	2.4834	1.8399	3.2632
Pb 220.353	-1.4557u	1.0148	-0.5503u
Sb 206.834	-3.2025u	-3.8667u	-1.5280u
Se 196.026	10.0920	0.5355	2.3485
Sn 189.925	2.2927	-0.1970u	1.0815
Sr 216.596	654.889	656.192	651.685
Ti 334.941	-0.0008	-0.0215	0.0088
Tl 190.794	-1.4043u	-3.8819u	-2.4484u
V 292.401	0.1297	0.4323	0.7488
Zn 206.200	2.2740	2.2188	3.2831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1593	ppb	0.0520	32.6	-32.4075
Al 308.215	0.9017	ppb	0.3007	33.3	275.175

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.6897	ppb	3.2981	478.2	-4.7111
B 249.678	102.034	ppb	0.4533	0.4	1482.95
Ba 389.178	55.3345	ppb	0.7105	1.3	1429.56
Be 313.042	-0.0329	ppb	0.0029	8.7	-269.835
Ca 370.602	97862	ppb	320.1	0.3	304254
Cd 226.502	0.1187	ppb	0.0740	62.4	18.6366
Co 228.615	-0.0796	ppb	0.1247	156.7	-4.6822
Cr 267.716	0.0270	ppb	0.1183	437.8	12.2892
Cu 324.754	-0.5418	ppb	0.3047	56.2	111.857
Fe 271.441	20.6015	ppb	0.2983	1.4	48.2421
K 766.491	1618.20	ppb	6.8933	0.4	70169.4
Mg 279.078	21615.1	ppb	47.3086	0.2	55791.8
Mn 257.610	2.0525	ppb	0.0054	0.3	778.378
Mo 202.032	-0.0390	ppb	0.1094	280.4	8.7522
Na 330.237	14016.0	ppb	190.238	1.4	610.168
Ni 231.604	2.5288	ppb	0.7128	28.2	5.3078
Pb 220.353	-0.3304	ppb	1.2499	378.3	13.2150
Sb 206.834	-2.8657	ppb	1.2052	42.1	3.2350
Se 196.026	4.3253	ppb	5.0757	117.3	9.4615
Sn 189.925	1.0591	ppb	1.2450	117.6	-11.8859
Sr 216.596	654.256	ppb	2.3195	0.4	10029.6
Ti 334.941	-0.0045	ppb	0.0154	342.8	24.7943
Tl 190.794	-2.5782	ppb	1.2439	48.2	-10.7511
V 292.401	0.4369	ppb	0.3096	70.9	3.1515
Zn 206.200	2.5920	ppb	0.5992	23.1	10.9773

Cont Calib Verif (Samp)

12/19/2013, 10:21:03 AM

Rack 1, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	473.512	471.686	470.381
Al 308.215	4566.90	4579.26	4575.88
As 188.980	484.760	475.279	476.899
B 249.678	460.615	466.103	467.416
Ba 389.178	4843.37	4860.18	4850.62
Be 313.042	475.888	478.079	476.331
Ca 370.602	4671	4730	4742
Cd 226.502	479.158	479.101	479.173
Co 228.615	483.042	484.064	481.632
Cr 267.716	4833.12	4843.59	4838.62
Cu 324.754	4742.87	4670.54	4711.21
Fe 271.441	4835.45	4862.31	4847.64
K 766.491	9039.73	9074.22	9060.82
Mg 279.078	4906.63	4925.57	4928.54
Mn 257.610	4750.74	4772.38	4752.71
Mo 202.032	493.747	495.298	496.085
Na 330.237	7328.35	7178.13	7088.31
Ni 231.604	2315.94	2326.86	2321.22
Pb 220.353	461.705	459.197	459.838
Sb 206.834	903.958	910.617	905.276
Se 196.026	4641.81	4652.40	4638.82
Sn 189.925	4940.42	4851.16	4890.02
Sr 216.596	2433.85	2435.59	2434.62
Ti 334.941	458.021	459.695	459.382

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Label	Replicates Concentration		
Tl 190.794	4777.88	4779.50	4786.17
V 292.401	4809.44	4838.99	4829.26
Zn 206.200	2389.38	2391.60	2391.56

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	471.860	ppb	1.5724	0.3	39178.6
Al 308.215	4574.01	ppb	6.3894	0.1	31541.9
As 188.980	478.980	ppb	5.0715	1.1	358.652
B 249.678	464.711	ppb	3.6075	0.8	6508.95
Ba 389.178	4851.39	ppb	8.4318	0.2	122521
Be 313.042	476.766	ppb	1.1585	0.2	979311
Ca 370.602	4714	ppb	37.98	0.8	14711
Cd 226.502	479.144	ppb	0.0380	0.0	24438.2
Co 228.615	482.913	ppb	1.2213	0.3	6451.01
Cr 267.716	4838.44	ppb	5.2402	0.1	288471
Cu 324.754	4708.21	ppb	36.2547	0.8	303695
Fe 271.441	4848.47	ppb	13.4517	0.3	8519.00
K 766.491	9058.25	ppb	17.3863	0.2	391642
Mg 279.078	4920.25	ppb	11.8849	0.2	12620.9
Mn 257.610	4758.61	ppb	11.9634	0.3	1216617
Mo 202.032	495.043	ppb	1.1895	0.2	4004.65
Na 330.237	7198.26	ppb	121.280	1.7	290.776
Ni 231.604	2321.34	ppb	5.4594	0.2	8229.13
Pb 220.353	460.246	ppb	1.3028	0.3	877.388
Sb 206.834	906.617	ppb	3.5260	0.4	1450.98
Se 196.026	4644.34	ppb	7.1347	0.2	2241.23
Sn 189.925	4893.86	ppb	44.7530	0.9	4704.30
Sr 216.596	2434.69	ppb	0.8740	0.0	37170.5
Ti 334.941	459.033	ppb	0.8898	0.2	131606
Tl 190.794	4781.18	ppb	4.3920	0.1	6274.72
V 292.401	4825.89	ppb	15.0601	0.3	137297
Zn 206.200	2390.85	ppb	1.2747	0.1	3694.13

Cont Calib Blank (Samp) 12/19/2013, 10:25:47 AM Rack 1, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0667	0.2836	0.0201
Al 308.215	-9.0169u	-7.8159u	-5.9053u
As 188.980	1.0026	-0.3953u	0.5361
B 249.678	4.3908	3.1766	3.0090
Ba 389.178	-0.0495u	0.6226	0.0459
Be 313.042	-0.0038u	-0.0041u	-0.0088u
Ca 370.602	-1.077u	-0.5675u	0.6704
Cd 226.502	-0.0038u	-0.0082u	0.0901
Co 228.615	0.3143	0.3182	0.1428
Cr 267.716	-0.0165u	0.1461	0.0847
Cu 324.754	-0.2618u	-0.3932u	-0.3895u
Fe 271.441	2.2308	5.6808	8.0158
K 766.491	0.6995	-0.0713u	0.5872
Mg 279.078	-2.7440u	-1.0237u	1.4769
Mn 257.610	-0.0682u	-0.0433u	-0.0674u
Mo 202.032	0.6352	0.4746	0.7062
Na 330.237	-129.897u	86.9301	-217.124u

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Label	Replicates Concentration		
Ni 231.604	-0.5066u	0.0093	0.4811
Pb 220.353	2.5068	-0.0812u	0.8538
Sb 206.834	-0.6877u	0.3160	-1.7036u
Se 196.026	1.8341	-2.8015u	0.9577
Sn 189.925	2.2127	2.9075	2.1982
Sr 216.596	-0.2643u	-0.1572u	-0.0751u
Ti 334.941	0.1830	0.1172	0.1525
Tl 190.794	2.0837	-1.7778u	2.0400
V 292.401	-0.0760u	-0.0773u	0.3565
Zn 206.200	-0.5569u	-0.1177u	-1.4081u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1235	ppb	0.1406	113.9	-0.7629
Al 308.215	-7.5793	ppb	1.5692	20.7	216.213
As 188.980	0.3811	ppb	0.7117	186.8	-4.9458
B 249.678	3.5254	ppb	0.7541	21.4	115.255
Ba 389.178	0.2063	ppb	0.3637	176.3	-23.2093
Be 313.042	-0.0056	ppb	0.0028	50.2	-250.802
Ca 370.602	-0.3248	ppb	0.8988	276.7	9.463
Cd 226.502	0.0260	ppb	0.0556	213.4	13.5667
Co 228.615	0.2584	ppb	0.1002	38.8	-0.1990
Cr 267.716	0.0714	ppb	0.0821	114.9	14.6511
Cu 324.754	-0.3482	ppb	0.0748	21.5	124.366
Fe 271.441	5.3092	ppb	2.9104	54.8	21.8088
K 766.491	0.4052	ppb	0.4164	102.8	267.021
Mg 279.078	-0.7636	ppb	2.1224	277.9	21.2671
Mn 257.610	-0.0596	ppb	0.0141	23.7	45.2872
Mo 202.032	0.6053	ppb	0.1187	19.6	13.9681
Na 330.237	-86.6968	ppb	156.563	180.6	25.9096
Ni 231.604	-0.0054	ppb	0.4940	9112.5	-3.6829
Pb 220.353	1.0932	ppb	1.3105	119.9	15.8822
Sb 206.834	-0.6918	ppb	1.0098	146.0	6.4786
Se 196.026	-0.0032	ppb	2.4626	76660.0	7.3797
Sn 189.925	2.4394	ppb	0.4054	16.6	-10.6110
Sr 216.596	-0.1655	ppb	0.0948	57.3	7.3717
Ti 334.941	0.1509	ppb	0.0330	21.8	-27.9570
Tl 190.794	0.7820	ppb	2.2169	283.5	-6.3326
V 292.401	0.0677	ppb	0.2501	369.4	-7.6644
Zn 206.200	-0.6942	ppb	0.6561	94.5	5.9004

680-97147-a-7-a (Samp)

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Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3694u	0.4574u	0.3676u
Al 308.215	11.8572	15.6604	15.7680
As 188.980	2.4933	3.1804	0.8444
B 249.678	229.467	231.115	235.906
Ba 389.178	65.3966	64.8351	65.9957
Be 313.042	-0.0296u	-0.0266u	-0.0287u
Ca 370.602	92228	92568	94540
Cd 226.502	0.1441	-0.0631u	0.1001
Co 228.615	0.2870	0.0677	-0.2280u
Cr 267.716	0.1742	0.1749	0.2198

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Label	Replicates Concentration		
Cu 324.754	0.4512	0.2701	0.2768
Fe 271.441	32.7868	33.6827	35.1981
K 766.491	2747.06	2764.96	2827.28
Mg 279.078	25107.6	25066.9	25562.3
Mn 257.610	58.2151	58.3328	59.4691
Mo 202.032	9.2031	9.4477	9.7321
Na 330.237	51977.9	51686.4	52876.9
Ni 231.604	3.5214	2.9333	5.5265
Pb 220.353	1.1464	0.4069	1.6649
Sb 206.834	1.9054	-2.2021u	-3.1693u
Se 196.026	-2.6319u	-3.1275u	0.2475
Sn 189.925	2.6039	1.2600	1.5628
Sr 216.596	1267.54	1263.55	1292.96
Ti 334.941	0.1648	0.1024	0.1370
Tl 190.794	0.5178	-2.8637u	-1.6003u
V 292.401	0.8625	0.9140	0.8668
Zn 206.200	2.8200	2.8791	4.0844

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3981	ppb	0.0513	12.9	-44.8075
Al 308.215	14.4285	ppb	2.2275	15.4	369.875
As 188.980	2.1727	ppb	1.2006	55.3	-3.5871
B 249.678	232.163	ppb	3.3451	1.4	3289.66
Ba 389.178	65.4091	ppb	0.5804	0.9	1694.12
Be 313.042	-0.0283	ppb	0.0015	5.4	-268.109
Ca 370.602	93112	ppb	1248	1.3	289487
Cd 226.502	0.0604	ppb	0.1091	180.8	15.5417
Co 228.615	0.0422	ppb	0.2584	612.0	-3.3553
Cr 267.716	0.1897	ppb	0.0261	13.8	23.0391
Cu 324.754	0.3327	ppb	0.1027	30.9	168.590
Fe 271.441	33.8892	ppb	1.2188	3.6	71.2682
K 766.491	2779.77	ppb	42.1095	1.5	120359
Mg 279.078	25245.6	ppb	275.013	1.1	65157.6
Mn 257.610	58.6723	ppb	0.6925	1.2	15284.4
Mo 202.032	9.4610	ppb	0.2647	2.8	85.6268
Na 330.237	52180.4	ppb	620.538	1.2	2191.36
Ni 231.604	3.9937	ppb	1.3596	34.0	10.5041
Pb 220.353	1.0727	ppb	0.6322	58.9	15.8475
Sb 206.834	-1.1554	ppb	2.6944	233.2	5.5654
Se 196.026	-1.8373	ppb	1.8224	99.2	6.5131
Sn 189.925	1.8089	ppb	0.7049	39.0	-11.1518
Sr 216.596	1274.69	ppb	15.9548	1.3	19516.1
Ti 334.941	0.1348	ppb	0.0313	23.2	78.3992
Tl 190.794	-1.3154	ppb	1.7087	129.9	-9.1342
V 292.401	0.8811	ppb	0.0286	3.2	13.9204
Zn 206.200	3.2612	ppb	0.7135	21.9	12.0106

680-97094-c-3-b (Samp)

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Rack 1, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5162u	0.5309u	0.6136u
Al 308.215	12.6554	10.3612	9.8076
As 188.980	10.4540	0.9642	9.7439

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Label	Replicates Concentration		
B 249.678	1123.32	1113.99	1111.79
Ba 389.178	19.8802	19.1423	19.2670
Be 313.042	0.1695u	0.1677u	0.1549u
Ca 370.602	102119	100507	100609
Cd 226.502	0.5712	0.4610	0.4479
Co 228.615	0.9194	-0.4318u	-0.1225u
Cr 267.716	-1.1960	-1.4071u	-1.2494u
Cu 324.754	0.7961	0.5018	0.3402
Fe 271.441	11.4352	9.2202	8.7350
K 766.491	165097x	162129x	161698x
Mg 279.078	314862	311624	310188
Mn 257.610	8.0920	7.7938	7.6961
Mo 202.032	1.5091	1.6400	2.0008
Na 330.237	3705571x	3703874x	3647262x
Ni 231.604	6.5645	4.5037	5.6060
Pb 220.353	0.8843	2.2116	-0.0254u
Sb 206.834	-3.1757u	-4.3924u	-1.7016u
Se 196.026	14.2355	20.2949	0.7883
Sn 189.925	-1.9459u	-2.9037u	-2.0523u
Sr 216.596	1835.19	1816.86	1809.71
Ti 334.941	-4.3551u	-4.4345u	-4.4370u
Tl 190.794	-5.7054u	-4.4830u	-5.9924u
V 292.401	2.4711	2.6782	2.4093
Zn 206.200	2.7628	4.0843	3.7512

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5536b	ppb	0.0525	9.5	-65.5872
Al 308.215	10.9414b	ppb	1.5099	13.8	345.021
As 188.980	7.0540b	ppb	5.2859	74.9	0.1257
B 249.678	1116.37b	ppb	6.1233	0.5	15566.6
Ba 389.178	19.4299b	ppb	0.3950	2.0	1335.84
Be 313.042	0.1640b	ppb	0.0079	4.8	-290.430
Ca 370.602	101079b	ppb	902.6	0.9	314255
Cd 226.502	0.4934b	ppb	0.0677	13.7	18.0665
Co 228.615	0.1217b	ppb	0.7079	581.8	-1.9364
Cr 267.716	-1.2842b	ppb	0.1097	8.5	5.3702
Cu 324.754	0.5460b	ppb	0.2311	42.3	182.054
Fe 271.441	9.7968b	ppb	1.4395	14.7	29.5830
K 766.491	162975xb	ppb	1850.46	1.1	7042115
Mg 279.078	312225b	ppb	2394.30	0.8	805586
Mn 257.610	7.8606b	ppb	0.2062	2.6	4815.67
Mo 202.032	1.7166b	ppb	0.2547	14.8	22.9566
Na 330.237	3685569xb	ppb	33185.8	0.9	152729
Ni 231.604	5.5581b	ppb	1.0312	18.6	16.0523
Pb 220.353	1.0235b	ppb	1.1250	109.9	15.7561
Sb 206.834	-3.0899b	ppb	1.3475	43.6	2.8484
Se 196.026	11.7729b	ppb	9.9838	84.8	13.0456
Sn 189.925	-2.3007b	ppb	0.5250	22.8	-13.7969
Sr 216.596	1820.59b	ppb	13.1399	0.7	27865.2
Ti 334.941	-4.4089b	ppb	0.0466	1.1	-176.283
Tl 190.794	-5.3936b	ppb	0.8015	14.9	-14.4599
V 292.401	2.5195b	ppb	0.1409	5.6	39.3244
Zn 206.200	3.5327b	ppb	0.6873	19.5	12.4309

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680-97094-c-4-d (Samp) **12/19/2013, 10:40:01 AM** **Rack 1, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2861	0.0862u	0.0010u
Al 308.215	15.5226	14.0751	11.0185
As 188.980	5.4051	4.7089	0.7888
B 249.678	75.9122	75.2020	73.2690
Ba 389.178	160.926	159.220	157.901
Be 313.042	0.0457	0.0383	0.0373
Ca 370.602	126442	124234	122980
Cd 226.502	-0.3252	-0.1676	-0.2133
Co 228.615	-0.1225u	0.2829	-0.1234u
Cr 267.716	0.2692	0.2223	0.3729
Cu 324.754	-0.5822u	-0.6074u	-0.7132u
Fe 271.441	13631.3	13447.6	13344.9
K 766.491	7450.93	7381.09	7337.26
Mg 279.078	11748.3	11628.0	11526.4
Mn 257.610	1563.27	1539.62	1530.25
Mo 202.032	0.2628	-0.3512u	-0.3670u
Na 330.237	58184.6	57499.1	57074.8
Ni 231.604	0.8594	1.6809	1.9840
Pb 220.353	-2.8534u	1.9611	0.1719
Sb 206.834	-0.2352	-0.9172u	-3.5390u
Se 196.026	2.0604	-6.6568u	2.9570
Sn 189.925	3.7104	1.8926	1.8250
Sr 216.596	461.690	456.595	452.273
Ti 334.941	0.5505	0.5334	0.5359
Tl 190.794	-0.6884u	0.6847u	-1.8367u
V 292.401	1.6098	1.5546	1.7415
Zn 206.200	1.7621	0.9428	-0.0087u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1245	ppb	0.1463	117.6	-22.6873
Al 308.215	13.5388	ppb	2.2995	17.0	362.969
As 188.980	3.6343	ppb	2.4887	68.5	-2.6353
B 249.678	74.7944	ppb	1.3679	1.8	1078.61
Ba 389.178	159.349	ppb	1.5171	1.0	4050.15
Be 313.042	0.0404	ppb	0.0046	11.3	-113.794
Ca 370.602	124552	ppb	1753	1.4	386159
Cd 226.502	-0.2354	ppb	0.0811	34.5	60.6786
Co 228.615	0.0123	ppb	0.2343	1902.8	-2.8995
Cr 267.716	0.2881	ppb	0.0771	26.7	41.1246
Cu 324.754	-0.6343	ppb	0.0695	11.0	111.039
Fe 271.441	13474.6	ppb	145.065	1.1	23333.5
K 766.491	7389.76	ppb	57.3285	0.8	319549
Mg 279.078	11634.2	ppb	111.071	1.0	30009.5
Mn 257.610	1544.38	ppb	17.0148	1.1	395014
Mo 202.032	-0.1518	ppb	0.3591	236.6	7.0803
Na 330.237	57586.1	ppb	559.992	1.0	2412.38
Ni 231.604	1.5081	ppb	0.5819	38.6	2.0657
Pb 220.353	-0.2401	ppb	2.4335	1013.4	14.8459
Sb 206.834	-1.5638	ppb	1.7442	111.5	5.6610
Se 196.026	-0.5465	ppb	5.3107	971.8	7.7041
Sn 189.925	2.4760	ppb	1.0695	43.2	-10.4911
Sr 216.596	456.853	ppb	4.7138	1.0	7039.67

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.5399	ppb	0.0092	1.7	133.998
Tl 190.794	-0.6135	ppb	1.2623	205.8	-10.6257
V 292.401	1.6353	ppb	0.0960	5.9	42.2447
Zn 206.200	0.8987	ppb	0.8862	98.6	8.0511

680-97086-r-3-aSD^5 (Samp) **12/19/2013, 10:44:46 AM** **Rack 1, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3637u	0.1103u	0.0247u
Al 308.215	-5.3022u	-4.5504u	-4.8293u
As 188.980	2.3307	4.6948	5.3901
B 249.678	31.4367	31.1625	30.9875
Ba 389.178	10.8849	10.9901	11.2759
Be 313.042	-0.0149u	-0.0167u	-0.0186u
Ca 370.602	26384	26122	25550
Cd 226.502	0.0536	0.0297	0.1998
Co 228.615	0.2361	0.1710	-0.0027u
Cr 267.716	0.3517	0.0303	0.1963
Cu 324.754	-0.4927u	-0.6486u	-0.9513u
Fe 271.441	572.653	567.585	547.227
K 766.491	526.585	523.441	512.523
Mg 279.078	22620.7	22389.1	21897.7
Mn 257.610	6.2280	6.1714	6.0453
Mo 202.032	2.2218	2.1459	1.5719
Na 330.237	6101.93	5808.70	5675.98
Ni 231.604	2.1919	1.9885	3.6573
Pb 220.353	-0.3338u	0.8776	-0.4551u
Sb 206.834	-2.2303u	0.5606	-5.4890u
Se 196.026	3.1204	1.7831	-0.0203
Sn 189.925	0.6017	0.4407	1.9449
Sr 216.596	655.629	645.927	633.496
Ti 334.941	-0.2051	-0.2449	-0.2034
Tl 190.794	-3.2800u	0.6779	-3.1176u
V 292.401	0.0091	-0.1693u	0.2871
Zn 206.200	-0.4241u	-1.1989u	0.8208

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1662	ppb	0.1763	106.0	-31.4445
Al 308.215	-4.8940	ppb	0.3800	7.8	234.990
As 188.980	4.1385	ppb	1.6037	38.8	-2.0971
B 249.678	31.1956	ppb	0.2264	0.7	498.353
Ba 389.178	11.0503	ppb	0.2023	1.8	313.996
Be 313.042	-0.0167	ppb	0.0018	11.0	-265.140
Ca 370.602	26019	ppb	426.3	1.6	80855
Cd 226.502	0.0944	ppb	0.0920	97.5	19.8908
Co 228.615	0.1348	ppb	0.1234	91.6	-1.8682
Cr 267.716	0.1928	ppb	0.1607	83.4	22.2033
Cu 324.754	-0.6976	ppb	0.2332	33.4	102.100
Fe 271.441	562.488	ppb	13.4573	2.4	986.125
K 766.491	520.850	ppb	7.3807	1.4	22754.6
Mg 279.078	22302.5	ppb	369.218	1.7	57565.3
Mn 257.610	6.1482	ppb	0.0935	1.5	1831.88
Mo 202.032	1.9798	ppb	0.3554	17.9	25.0598

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5862.20	ppb	217.954	3.7	272.259
Ni 231.604	2.6125	ppb	0.9104	34.8	5.6193
Pb 220.353	0.0296	ppb	0.7369	2492.3	13.9316
Sb 206.834	-2.3862	ppb	3.0278	126.9	3.9261
Se 196.026	1.6278	ppb	1.5761	96.8	8.1740
Sn 189.925	0.9958	ppb	0.8259	82.9	-11.9870
Sr 216.596	645.017	ppb	11.0945	1.7	9878.22
Ti 334.941	-0.2178	ppb	0.0235	10.8	-32.7380
Tl 190.794	-1.9065	ppb	2.2397	117.5	-9.9320
V 292.401	0.0423	ppb	0.2300	543.9	-8.1755
Zn 206.200	-0.2674	ppb	1.0189	381.1	6.5469

680-97086-r-3-aPDS (Samp) 12/19/2013, 10:49:32 AM Rack 1, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	26.1848	27.7900	27.7330
Al 308.215	1765.58	1816.61	1785.50
As 188.980	183.214	191.294	187.972
B 249.678	568.229	586.292	577.009
Ba 389.178	227.271	234.219	228.424
Be 313.042	44.7958	46.0179	45.2353
Ca 370.602	112264	114736	112004
Cd 226.502	44.4476	45.5755	44.6072
Co 228.615	175.620	183.532	178.746
Cr 267.716	180.412	185.130	181.826
Cu 324.754	183.548	185.474	183.124
Fe 271.441	4054.46	4171.50	4088.31
K 766.491	4415.34	4487.44	4416.79
Mg 279.078	96625.3	98789.3	96822.3
Mn 257.610	208.685	214.137	209.960
Mo 202.032	194.365	200.836	195.175
Na 330.237	28316.1	28915.2	28233.2
Ni 231.604	176.642	182.084	178.834
Pb 220.353	170.816	179.143	173.553
Sb 206.834	167.177	174.854	175.745
Se 196.026	173.167	180.006	163.750
Sn 189.925	184.031	191.781	186.828
Sr 216.596	2843.53	2910.88	2843.96
Ti 334.941	176.554	181.361	178.563
Tl 190.794	175.016	179.547	174.048
V 292.401	182.943	187.578	185.013
Zn 206.200	175.506	177.611	175.852

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	27.2359	ppb	0.9108	3.3	2105.05
Al 308.215	1789.23	ppb	25.7198	1.4	12713.5
As 188.980	187.493	ppb	4.0609	2.2	137.178
B 249.678	577.177	ppb	9.0330	1.6	8072.00
Ba 389.178	229.971	ppb	3.7236	1.6	6060.56
Be 313.042	45.3497	ppb	0.6190	1.4	92823.4
Ca 370.602	113001	ppb	1508	1.3	351096
Cd 226.502	44.8768	ppb	0.6103	1.4	2317.88
Co 228.615	179.299	ppb	3.9848	2.2	2387.86

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	182.456	ppb	2.4213	1.3	10890.1
Cu 324.754	184.049	ppb	1.2522	0.7	12020.7
Fe 271.441	4104.76	ppb	60.2276	1.5	7138.80
K 766.491	4439.86	ppb	41.2140	0.9	192088
Mg 279.078	97412.3	ppb	1196.58	1.2	251349
Mn 257.610	210.927	ppb	2.8517	1.4	54860.8
Mo 202.032	196.792	ppb	3.5255	1.8	1600.95
Na 330.237	28488.2	ppb	372.162	1.3	1205.79
Ni 231.604	179.187	ppb	2.7376	1.5	631.538
Pb 220.353	174.504	ppb	4.2440	2.4	341.020
Sb 206.834	172.592	ppb	4.7110	2.7	265.382
Se 196.026	172.308	ppb	8.1619	4.7	90.3276
Sn 189.925	187.547	ppb	3.9245	2.1	167.885
Sr 216.596	2866.12	ppb	38.7614	1.4	43853.6
Ti 334.941	178.826	ppb	2.4139	1.3	51659.7
Tl 190.794	176.204	ppb	2.9360	1.7	223.986
V 292.401	185.178	ppb	2.3220	1.3	5233.46
Zn 206.200	176.323	ppb	1.1285	0.6	279.053

640-46136-c-14-a¹⁰ (Samp) 12/19/2013, 10:54:18 AM Rack 1, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5020u	0.0040u	-0.0069u
Al 308.215	103936	101073	96755.1
As 188.980	2.4603	4.3356	4.5449
B 249.678	10.2093	9.4925	9.0496
Ba 389.178	0.7130	1.2224	0.1295
Be 313.042	0.3041	0.2946	0.2841
Ca 370.602	53731	52374	50274
Cd 226.502	0.3386	0.2288	0.4106
Co 228.615	0.9731	1.3332	0.7600
Cr 267.716	0.2436	0.5186	0.5108
Cu 324.754	-0.6781u	-0.4975u	-0.5186u
Fe 271.441	1361.60	1317.37	1265.27
K 766.491	269.727	262.404	253.162
Mg 279.078	6246.57	6075.35	5821.62
Mn 257.610	34.2457	33.2685	31.9307
Mo 202.032	-0.0199u	0.0138	0.5358
Na 330.237	1821.72	1431.17	1486.00
Ni 231.604	8.6497	10.0190	9.2648
Pb 220.353	0.2464u	-0.1741u	-0.4629u
Sb 206.834	-0.2862u	-6.0834u	-2.6406u
Se 196.026	10.7445	-5.2170u	0.6759
Sn 189.925	4.5757	2.5230	2.9360
Sr 216.596	78.5560	75.4333	72.8665
Ti 334.941	0.6310	0.5722	0.6201
Tl 190.794	-0.9127u	-2.2727u	1.0965
V 292.401	0.1886	0.1976	0.4724
Zn 206.200	11.6226	10.3173	12.3104

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1683	ppb	0.2890	171.7	-29.0045
Al 308.215	100588	ppb	3614.78	3.6	700574

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.7803	ppb	1.1479	30.4	-1.1337
B 249.678	9.5838	ppb	0.5852	6.1	196.829
Ba 389.178	0.6883	ppb	0.5469	79.5	7.9858
Be 313.042	0.2943	ppb	0.0100	3.4	395.311
Ca 370.602	52127	ppb	1742	3.3	161961
Cd 226.502	0.3260	ppb	0.0916	28.1	34.8218
Co 228.615	1.0221	ppb	0.2897	28.3	10.0740
Cr 267.716	0.4243	ppb	0.1566	36.9	37.5393
Cu 324.754	-0.5647	ppb	0.0987	17.5	110.886
Fe 271.441	1314.75	ppb	48.2213	3.7	2288.18
K 766.491	261.764	ppb	8.3011	3.2	11559.9
Mg 279.078	6047.85	ppb	213.806	3.5	15589.0
Mn 257.610	33.1483	ppb	1.1622	3.5	8592.84
Mo 202.032	0.1766	ppb	0.3116	176.5	10.4246
Na 330.237	1579.63	ppb	211.440	13.4	94.4928
Ni 231.604	9.3111	ppb	0.6858	7.4	29.4502
Pb 220.353	-0.1302	ppb	0.3567	273.9	11.5898
Sb 206.834	-3.0034	ppb	2.9156	97.1	3.0822
Se 196.026	2.0678	ppb	8.0713	390.3	8.4034
Sn 189.925	3.3449	ppb	1.0857	32.5	-9.7108
Sr 216.596	75.6186	ppb	2.8492	3.8	1176.34
Ti 334.941	0.6078	ppb	0.0313	5.2	135.772
Tl 190.794	-0.6963	ppb	1.6950	243.4	-8.4384
V 292.401	0.2862	ppb	0.1613	56.4	-1.5283
Zn 206.200	11.4168	ppb	1.0124	8.9	24.5817

CRI (Samp) 12/19/2013, 11:01:15 AM Rack 1, Tube 11
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration
Ag 328.068	9.3948	9.2661 9.7781
Al 308.215	193.831	194.958 195.765
As 188.980	22.7123	23.3299 17.8018
B 249.678	93.5064	94.2744 95.1084
Ba 389.178	9.9243	9.7323 9.3842
Be 313.042	3.8516	3.8721 3.8469
Ca 370.602	489.1	490.5 493.5
Cd 226.502	4.7920	4.7390 4.8914
Co 228.615	9.8480	9.9497 9.9576
Cr 267.716	9.8990	9.9733 9.7463
Cu 324.754	18.2742	18.1630 18.2245
Fe 271.441	53.5756	51.2772 50.9998
K 766.491	896.480	899.570 898.741
Mg 279.078	503.861	509.155 504.443
Mn 257.610	9.7206	9.7824 9.7580
Mo 202.032	9.6716	9.6570 9.5137
Na 330.237	998.262	888.024 1057.77
Ni 231.604	38.4447	38.1737 38.1330
Pb 220.353	8.6576	9.9669 10.3641
Sb 206.834	14.9964	19.9298 15.2361
Se 196.026	18.8735	12.7079 21.6060
Sn 189.925	49.9265	50.9982 52.0672
Sr 216.596	9.8535	10.2965 10.0140
Ti 334.941	9.4844	9.4204 9.4475

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Tl 190.794	23.4640	23.6857	23.4585
V 292.401	9.8409	9.4824	9.7764
Zn 206.200	17.9501	17.1813	17.4933

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.4797	ppb	0.2663	2.8	777.292
Al 308.215	194.851	ppb	0.9715	0.5	1624.84
As 188.980	21.2813	ppb	3.0291	14.2	10.9386
B 249.678	94.2964	ppb	0.8012	0.8	1375.45
Ba 389.178	9.6803	ppb	0.2738	2.8	217.606
Be 313.042	3.8569	ppb	0.0134	0.3	7670.80
Ca 370.602	491.0	ppb	2.227	0.5	1539
Cd 226.502	4.8075	ppb	0.0774	1.6	257.310
Co 228.615	9.9184	ppb	0.0612	0.6	128.651
Cr 267.716	9.8729	ppb	0.1157	1.2	599.010
Cu 324.754	18.2205	ppb	0.0557	0.3	1321.91
Fe 271.441	51.9509	ppb	1.4138	2.7	103.713
K 766.491	898.264	ppb	1.5992	0.2	39062.0
Mg 279.078	505.820	ppb	2.9035	0.6	1328.02
Mn 257.610	9.7537	ppb	0.0311	0.3	2558.61
Mo 202.032	9.6141	ppb	0.0873	0.9	86.8469
Na 330.237	981.351	ppb	86.1257	8.8	69.8622
Ni 231.604	38.2505	ppb	0.1694	0.4	131.988
Pb 220.353	9.6629	ppb	0.8930	9.2	31.9356
Sb 206.834	16.7208	ppb	2.7817	16.6	32.5940
Se 196.026	17.7291	ppb	4.5581	25.7	15.9070
Sn 189.925	50.9973	ppb	1.0704	2.1	36.1952
Sr 216.596	10.0547	ppb	0.2243	2.2	162.481
Ti 334.941	9.4508	ppb	0.0321	0.3	2641.58
Tl 190.794	23.5361	ppb	0.1296	0.6	23.5748
V 292.401	9.6999	ppb	0.1911	2.0	265.141
Zn 206.200	17.5416	ppb	0.3867	2.2	34.0608

Cont Calib Verif (Samp) 12/19/2013, 11:06:00 AM Rack 1, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	480.522	477.372	479.798
Al 308.215	4643.24	4665.60	4657.17
As 188.980	470.448	476.071	469.895
B 249.678	447.758	454.713	454.881
Ba 389.178	4922.27	4944.78	4934.52
Be 313.042	481.261	481.733	482.335
Ca 370.602	4750	4772	4746
Cd 226.502	477.296	479.040	478.114
Co 228.615	481.970	483.954	482.998
Cr 267.716	4916.15	4934.83	4921.65
Cu 324.754	4717.26	4785.24	4713.80
Fe 271.441	4853.62	4870.05	4848.51
K 766.491	9167.67	9243.30	9169.88
Mg 279.078	4797.97	4805.34	4809.15
Mn 257.610	4811.73	4827.09	4816.99
Mo 202.032	492.380	495.061	495.232
Na 330.237	6976.58	6672.94	6832.41

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Ni 231.604	2329.60	2327.27	2338.90
Pb 220.353	481.154	479.810	476.780
Sb 206.834	915.447	919.355	919.099
Se 196.026	4546.17	4568.47	4570.11
Sn 189.925	4904.15	4959.61	4920.91
Sr 216.596	2428.72	2431.87	2430.60
Ti 334.941	482.051	485.162	482.525
Tl 190.794	4813.99	4848.03	4814.10
V 292.401	4845.41	4871.86	4855.48
Zn 206.200	2404.38	2408.09	2404.85

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	479.231	ppb	1.6500	0.3	39796.6
Al 308.215	4655.34	ppb	11.2930	0.2	32105.6
As 188.980	472.138	ppb	3.4172	0.7	353.453
B 249.678	452.450	ppb	4.0650	0.9	6338.80
Ba 389.178	4933.86	ppb	11.2670	0.2	124603
Be 313.042	481.776	ppb	0.5385	0.1	989592
Ca 370.602	4756	ppb	13.79	0.3	14842
Cd 226.502	478.150	ppb	0.8724	0.2	24387.4
Co 228.615	482.974	ppb	0.9924	0.2	6451.52
Cr 267.716	4924.21	ppb	9.5985	0.2	293585
Cu 324.754	4738.77	ppb	40.2874	0.9	305665
Fe 271.441	4857.40	ppb	11.2555	0.2	8534.50
K 766.491	9193.62	ppb	43.0445	0.5	397490
Mg 279.078	4804.15	ppb	5.6838	0.1	12322.0
Mn 257.610	4818.60	ppb	7.8079	0.2	1231954
Mo 202.032	494.224	ppb	1.5995	0.3	3997.98
Na 330.237	6827.31	ppb	151.882	2.2	275.440
Ni 231.604	2331.92	ppb	6.1534	0.3	8266.66
Pb 220.353	479.248	ppb	2.2405	0.5	913.023
Sb 206.834	917.967	ppb	2.1862	0.2	1466.48
Se 196.026	4561.58	ppb	13.3757	0.3	2201.44
Sn 189.925	4928.22	ppb	28.4464	0.6	4737.42
Sr 216.596	2430.39	ppb	1.5844	0.1	37104.9
Ti 334.941	483.246	ppb	1.6763	0.3	138551
Tl 190.794	4825.37	ppb	19.6210	0.4	6332.81
V 292.401	4857.58	ppb	13.3489	0.3	138205
Zn 206.200	2405.77	ppb	2.0170	0.1	3717.31

Cont Calib Blank (Samp)

12/19/2013, 11:10:44 AM

Rack 1, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2802	0.3712	-0.0701u
Al 308.215	0.7830	-0.8044u	-2.9023u
As 188.980	-0.3745u	4.7817	-0.4502u
B 249.678	3.7877	2.5574	2.3960
Ba 389.178	0.8294	0.3905	0.6860
Be 313.042	0.0475	0.0279	0.0177
Ca 370.602	2.773	2.581	0.1094
Cd 226.502	0.0399	0.0620	0.0681
Co 228.615	0.1191	0.2263	-0.1512u
Cr 267.716	0.6196	0.6630	0.5744

E12182013.wvq. All Data Report 12/19/2013, 11:30:38 AM

Label	Replicates Concentration		
Cu 324.754	-0.1284u	-0.0456u	-0.2893u
Fe 271.441	1.3492	3.4492	1.0973
K 766.491	1.0143	0.5499	1.0371
Mg 279.078	-1.0505u	2.5606	2.2036
Mn 257.610	0.5652	0.3846	0.2493
Mo 202.032	0.7478	0.6826	0.3448
Na 330.237	111.753	-184.217u	-39.2813u
Ni 231.604	0.6794	0.1907	0.7480
Pb 220.353	-0.6841u	1.5982	2.4329
Sb 206.834	2.5866	0.5323	-1.2051u
Se 196.026	6.1176	1.3148	3.4040
Sn 189.925	0.9731	1.6103	3.7953
Sr 216.596	0.4345	0.0612	0.1764
Ti 334.941	0.2288	0.2291	0.1609
Tl 190.794	4.8134	7.0419	6.1306
V 292.401	0.8905	0.3458	0.4325
Zn 206.200	-1.5900u	-1.3471u	-0.8603u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1938	ppb	0.2330	120.3	5.0905
Al 308.215	-0.9746	ppb	1.8485	189.7	262.139
As 188.980	1.3190	ppb	2.9990	227.4	-4.2328
B 249.678	2.9137	ppb	0.7612	26.1	106.765
Ba 389.178	0.6353	ppb	0.2238	35.2	-12.3731
Be 313.042	0.0310	ppb	0.0151	48.7	-175.541
Ca 370.602	1.821	ppb	1.485	81.6	16.33
Cd 226.502	0.0566	ppb	0.0148	26.2	15.1184
Co 228.615	0.0647	ppb	0.1945	300.5	-2.7797
Cr 267.716	0.6190	ppb	0.0443	7.2	47.2941
Cu 324.754	-0.1544	ppb	0.1239	80.3	136.853
Fe 271.441	1.9652	ppb	1.2913	65.7	16.0075
K 766.491	0.8671	ppb	0.2749	31.7	286.982
Mg 279.078	1.2379	ppb	1.9898	160.7	26.4194
Mn 257.610	0.3997	ppb	0.1585	39.6	162.724
Mo 202.032	0.5917	ppb	0.2163	36.6	13.8572
Na 330.237	-37.2482	ppb	147.996	397.3	27.9766
Ni 231.604	0.5394	ppb	0.3039	56.3	-1.7500
Pb 220.353	1.1157	ppb	1.6135	144.6	15.9243
Sb 206.834	0.6379	ppb	1.8981	297.5	8.4802
Se 196.026	3.6122	ppb	2.4081	66.7	9.1178
Sn 189.925	2.1262	ppb	1.4801	69.6	-10.9129
Sr 216.596	0.2240	ppb	0.1912	85.3	13.3153
Ti 334.941	0.2063	ppb	0.0393	19.0	-12.0601
Tl 190.794	5.9953	ppb	1.1204	18.7	0.5165
V 292.401	0.5563	ppb	0.2927	52.6	6.2391
Zn 206.200	-1.2658	ppb	0.3716	29.4	5.0165

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-97147-1

SDG No.: _____

Batch Number: 308037 Batch Start Date: 12/17/13 14:59 Batch Analyst: Boyuk, Brian J

Batch Method: 3010A Batch End Date: 12/17/13 21:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00015	MS_LCS1_WK 00008	MS_LCS2_wk 00154
MB 680-308037/1		3010A, 6010C			50 mL	50 mL			
LCS 680-308037/2		3010A, 6010C			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-97147-A-1	OBLM20050	3010A, 6010C	T	<2	50 mL	50 mL			
680-97147-A-2	OBLM20051	3010A, 6010C	T	<2	50 mL	50 mL			
680-97147-A-3	OBLM20052	3010A, 6010C	T	<2	50 mL	50 mL			
680-97147-A-4	OBLM20053	3010A, 6010C	T	<2	50 mL	50 mL			
680-97147-A-4 MS	OBLM20053	3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-97147-A-4 MSD	OBLM20053	3010A, 6010C	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-97147-A-5	OBLM20054	3010A, 6010C	T	<2	50 mL	50 mL			
680-97147-A-6	OBLM20055	3010A, 6010C	T	<2	50 mL	50 mL			
680-97147-A-7	OBLM20056	3010A, 6010C	T	<2	50 mL	50 mL			

Batch Notes	
First End time	2016
Lot # of hydrochloric acid	3366521
Lot # of Nitric Acid	3395644
Hot Block ID number	autoblock
Pipette ID	ME8
First Start time	1120
ID number of the thermometer	MEPREP11
Digestion Tube/Cup Lot #	1306159
Uncorrected Temperature	93 Degrees C
Vendor of Reagent used	macron

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.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD				TestAmerica Inc. 5102 LaRoche Avenue Savannah, GA 31404 Ph: 912-354-7858 Fax: Website: www.testamericainc.com				Serial or COC #: 13-12-13 2			
PROJECT & CLIENT INFORMATION				Project State				Possible Hazards: Unknown			
PROJECT REFERENCE/NAME Open Burning (OB) Grounds Long Term Monitoring				PROJECT NO. 748662-01400				NY			
LAB PROJECT MANAGER Linda Wolfe				P.O. NUMBER 748662-01400				CONTRACT/Quote NO. 748662-01400			
CLIENT (SITE) PM Brendan Baranek-Olmstead Cris Grill				CLIENT PHONE 617-285-6821 (BBO) 671-449-1583 (CG)				CLIENT FAX 617-948-9777			
CLIENT NAME Parsons				CLIENT EMAIL Brendan.Baranek-Olmstead@parsons.com Cris.Grill@parsons.com							
CLIENT ADDRESS 100 High Street, Boston, MA 02110				Samplers Signature & Initials:							
SAMPLED ON				SAMPLE IDENTIFICATION				REMARKS			
DATE		TIME									
12/10/2013	1515	OBLM20050		G	N	GW	1				
12/11/2013	1055	OBLM20051		G	N	GW	1				
12/10/2013	1555	OBLM20052		G	N	GW	1				
12/10/2013	1346	OBLM20053		G	N	GW	1				
12/10/2013	1346	OBLM20053MS		G	N	GW	1				
12/10/2013	1346	OBLM20053MSD		G	N	GW	1				
12/10/2013	1406	OBLM20054		G	N	GW	1				Preservative
12/10/2013	1225	OBLM20055		G	N	GW	1				
12/10/2013	1150	OBLM20056		G	N	GW	1				1 HNO ₃ 8 Ice
RELINQUISHED BY: (SIGNATURE) Brendan Baranek-Olmstead		DATE 12/13/13	TIME 1645	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
LABORATORY USE ONLY											
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		DATE 12/17/13	TIME 1034	CUSTODY INTACT YES NO	8	CUSTODY SEAL NO.		LABORATORY REMARKS:			

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*per J. Kiberd
St. Romedon
12/11/13*

*4.0%
680-97146
GRC 12/14/13*

*680-97147
JAN*

12/24/2013

APPENDIX D
DATA VALIDATION

PROJECT NAME/NO. OB Grounds LTM Round 8
SDG: 680-83673-1
FRACTION: Metals (copper and lead)
LAB: Test America - Savannah
MEDIA: Groundwater

CRITERIA	Did Analyses Meet all criteria as specified in the SOPS?	If no, specify analysis IDs which do not meet criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Yes		The cooler temperature was 4.8°C upon receipt by the laboratory. All samples were received in good condition based on the laboratory login report. Sample pH was below 2. Holding time met criteria.	No
Calibration	Yes		Calibrations available, taken every ten samples, and within recovery limits (90-110%) for metals. Initial calibration R2 >0.99.	No
Blanks (method blank, prep blank)	Yes		ICB, CCBs, and preparation blank did not contain lead or copper. No rinsate blank was collected for this SDG.	No
Interference Check Sample	Yes		Met requirements (80-120%) for Copper and Lead.	No
CRQL Standard	Yes		CRQL Check Standards performed and within QC limit of 70-130%R.	No
Laboratory Control Sample	Yes		LCS results within limits (i.e., 80-120%) for copper and lead.	No
Duplicates	Yes		Laboratory duplicate analysis was conducted on sample OBLM20045. Laboratory duplicate precision results were within criteria. A field duplicate pair (OBLM20045 and OBLM20046) was collected for this SDG. Copper and lead were not detected.	No
Spike Sample Analysis	Yes		Spike analysis was conducted for OBLM20045 and the spike results were within 75%-125% limits.	No
ICP Serial Dilution	Yes		ICP serial dilution was conducted for OBLM20045. QC results were within criteria.	No
Detection Limits	Yes		IDL's available used as reporting limits. IDLs of copper and lead are less than CRDLs. No action was taken.	No
ICP Linear Range	Yes		All results within the ICP linear range.	No

APPENDIX E

REEDER CREEK INSPECTION PHOTOS (DECEMBER 2013)

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Photo #01 - Looking northeast (downstream) at Reeder Creek. Snow covered embankments are lined with vegetation on both sides (east & west) of the creek. Creek bottom contained fractured shale pieces over apparent bedrock (shale) with thin organic/sediment layer on/between rocks.

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Photo #02 - Looking south (upstream) at Reeder Creek. Snow covered embankments are lined with vegetation on both sides (east & west) of the creek. Creek bottom has small layer of sediment above fractured shale over apparent bedrock (shale). Center of photo is pooled area that in past inspections has contained sediment from decomposition.

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Photo #03 - Looking at Reeder Creek stream bottom. Creek bottom has layer of fractured shale pieces over apparent bedrock (shale) with thin organic/sediment layer resulting from decomposition of leaves on/between rocks. Water is approximately 5 inches deep.

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Photo #04 - Looking southwest (upstream) at Reeder Creek. Foreground: beaver dam overflow water (east of perennial flow path) traversing the flat vegetative embankment to the creek. Midground: creek's nominal flow path. Background: beaver dam overflow water (west of perennial flow path) rejoining creek.

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Photo #05 – Looking southwest (upstream) in Reeder Creek, located upstream of pooled area (Photo #02). Creek bottom is apparent bedrock with thin organic/sediment layer on rock surface. Fast moving water in this section.

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Photo #06 – Looking at beaver dam in Reeder Creek. Approximately 2.5 ft in height. Flooding and ice/snow cover of the creek have developed due to the beaver dam. Foreground: downstream side of beaver dam is bedrock with thin organic/sediment layer on rock surface.

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Photo #07 – Looking south (west of the perennial flow path) at beaver dam overflow water discharging from the flat embankment area. West embankment slope has vegetative cover with occasional deer trails observed.

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Photo #08 – Looking East at Reeder Creek from the top of the west embankment. The perennial flow path runs in a long diagonal (center of photo) from right (upstream) to left (downstream). Due to the presence of the beaver dam, overflow water seeps from both east & west embankments to feed back into the creek.

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Photo #09 – Looking east at Reeder Creek (snow capped) and marsh area. Vegetated embankments on both sides (east & west).

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Photo #10 – Looking northeast at Reeder Creek (snow capped) and marsh area. Vegetated embankments on both sides (east & west).

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Photo #11 – Looking southeast (upstream) at Reeder Creek (snow capped). Vegetated embankments on both sides (east & west).

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Photo #12 – Looking northeast (upstream) at Reeder Creek (snow capped). Vegetated embankments on both sides (east & west).

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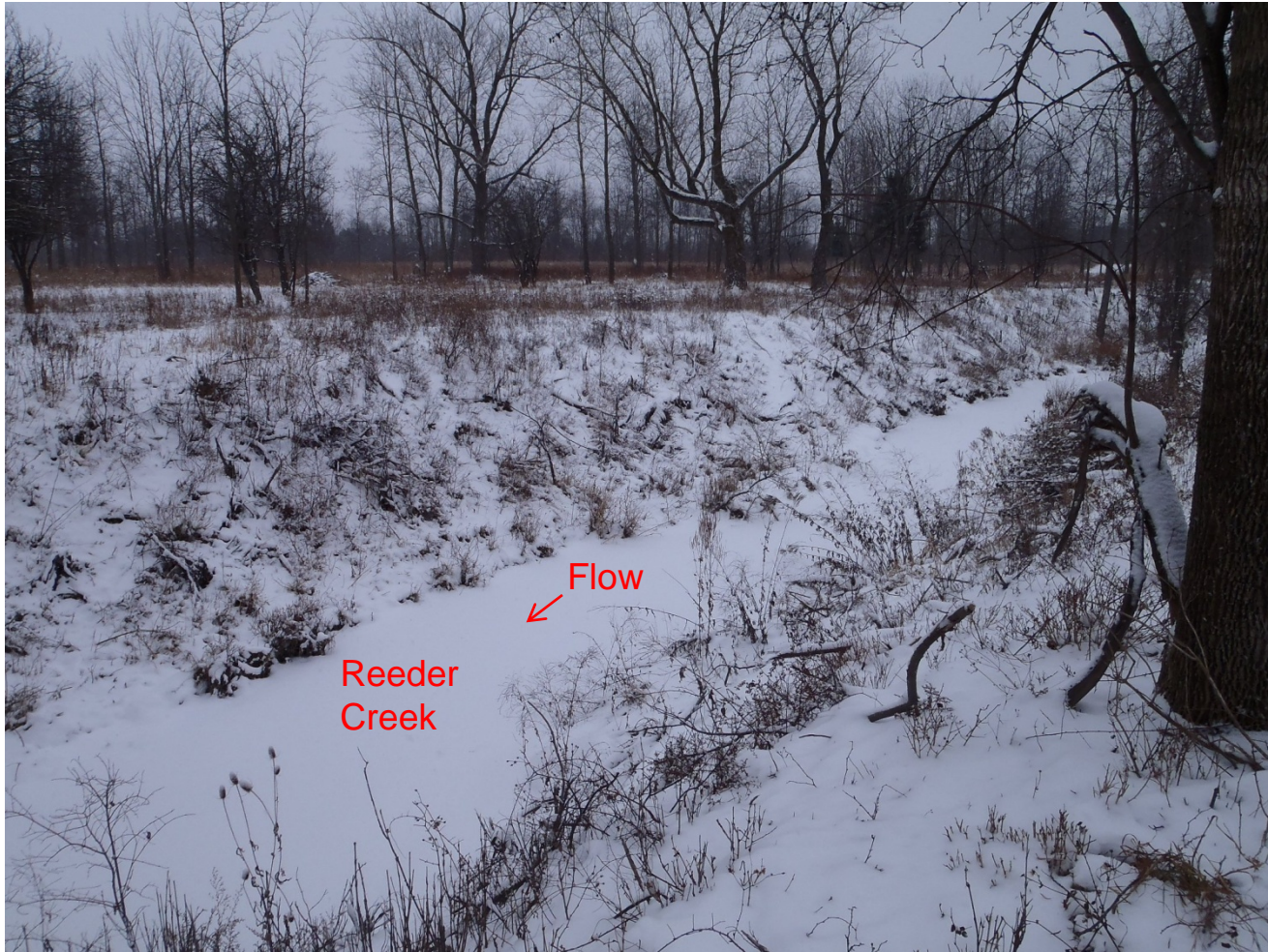


Photo #13 – Looking southeast (upstream) at Reeder Creek (snow capped). This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west). Deer trails present on both embankments.

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Photo #14 – Looking southeast (upstream) at Reeder Creek (snow capped). This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west). Deer trails present on both embankments.

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Photo #15 – Looking northeast (downstream) at Reeder Creek (snow capped). This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west). Deer trails present on both embankments.

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Photo #16 – Looking southeast (upstream) at Reeder Creek. This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west). Deer trails present on both embankments.

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Photo #17 – Looking east at first break in snow/ice cap in Reeder Creek. This is the observed extent of the backed up water from the beaver dam. This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west).

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Photo #18 – Looking southeast (upstream) at Reeder Creek. The creek bottom was visible in numerous locations; broken shale pieces and occasionally leaves were seen on the stream bottom. This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west).

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Photo #19 – Looking north (downstream) at Reeder Creek. The creek bottom was visible in numerous locations; broken shale pieces and occasionally leaves were seen on the stream bottom. This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west).

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Photo #20 – Looking east at Reeder Creek. The creek bottom was visible in numerous locations; broken shale pieces and occasionally leaves were seen on the stream bottom. This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west).

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Photo #21 – Looking southeast (upstream) at Reeder Creek. The creek bottom was visible in numerous locations; broken shale pieces and occasionally leaves were seen on the stream bottom. This area was brush cut Summer 2012 for OD Grounds Munitions Response Action. Reoccurring vegetated growth present on both embankments (east & west).

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Photo #22 – Looking southeast (upstream) at Reeder Creek. Vegetated embankments on both sides (east & west). Bend in creek was location former beaver dam location (2010).