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March 16, 2011

Mr. John Nohrstedt
U.S. Army Corps of Engineers
Engineering and Support Center, Huntsville
Attn: CEHNC-FS-IS
4820 University Square
Huntsville, Alabama 35816-1822

SUBJECT: Draft Final 2010 Long-Term Monitoring Annual Report for the Open Burning (OB) Grounds and Army Response to EPA Comments on the Draft 2010 Long-Term Monitoring Annual Report for the Open Burning (OB) Grounds, Seneca Army Depot Activity; Contract W912DY-08-D-0003, Task Order 0008

Dear Mr. Nohrstedt:

Parsons Infrastructure & Technology Group Inc. (Parsons) is pleased to submit the Draft Final 2010 Long-Term Monitoring Annual Report for the Open Burning (OB) Grounds (SEAD-23) at Seneca Army Depot Activity (SEDA) in Romulus, Seneca County, New York. In addition, please find copies of the Army's Response to EPA Comments, dated February 11, 2011 on the Draft 2010 Long-Term Monitoring Annual Report for the Open Burning Grounds. This work was performed in accordance with the Scope of Work for Task Order 0008 under Contract No. W912DY-08-D-0003. This report provides a review of long-term monitoring completed during 2010 and provides recommendations for future long-term monitoring at SEAD-23.

Parsons appreciates the opportunity to provide you with the Annual Report for this work. Should you have any questions, please do not hesitate to call me at (617) 449-1405 to discuss them.

Sincerely,

Todd Heino, P.E.
Program Manager

Enclosures

cc: S. Absolom, SEDA
R. Battaglia, USACE, NY District
K. Hoddinott, USACHPPM

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March 16, 2011

Mr. Julio Vazquez
USEPA Region II
Superfund Federal Facilities Section
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Mr. Kuldeep K. Gupta, P.E.
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Remedial Bureau A, Section C
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Mr. Mark Sergott
Bureau of Environmental Exposure Investigation, Room 300
New York State Department of Health
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Troy, NY 12180

SUBJECT: Draft Final 2010 Long-Term Monitoring Annual Report and Army Response to EPA Comments on the Draft 2010 Long-Term Monitoring Annual Report for the Open Burning (OB) Grounds, Seneca Army Depot Activity; Contract W912DY-08-D-0003, Task Order 0008

Dear Mr. Vazquez/Mr. Gupta/Mr. Sergott:

Parsons Infrastructure & Technology Group Inc. (Parsons) is pleased to submit the Draft Final 2010 Long-Term Monitoring Annual Report for the Open Burning (OB) Grounds (SEAD-23) at Seneca Army Depot Activity (SEDA) in Romulus, Seneca County, New York (EPA Site ID# NY0213820830 and NY Site ID# 8-50-006). In addition, please find copies of the Army's Response to EPA Comments, dated February 11, 2011 on the Draft 2010 Long-Term Monitoring Annual Report for the Open Burning Grounds. This report provides a review of long-term monitoring completed during 2010 and provides recommendations for future long-term monitoring at SEAD-23.

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Enclosures
cc: J. Nohrstedt, USACE, Huntsville
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Seneca Army Depot Activity
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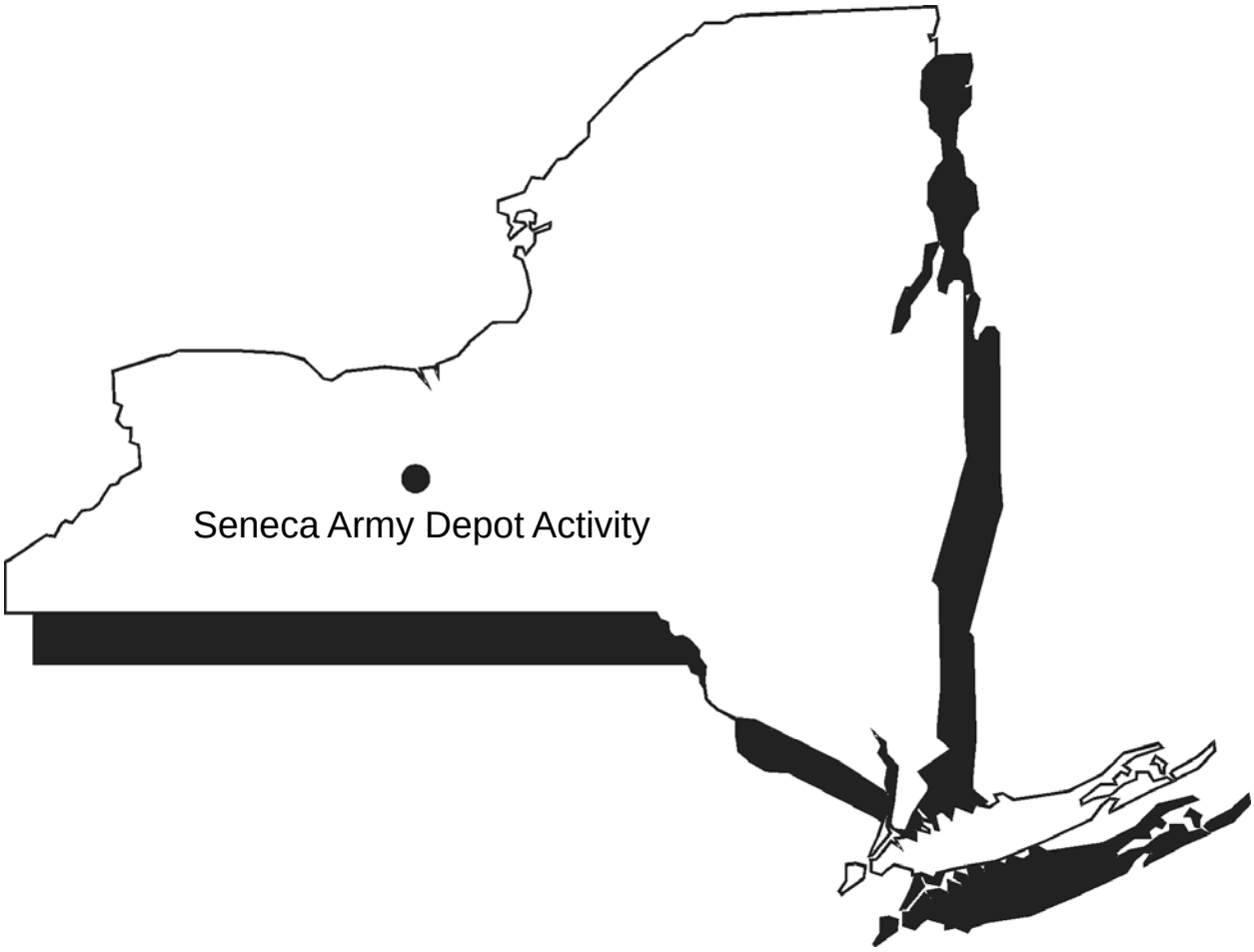

DRAFT FINAL
LONG-TERM MONITORING ANNUAL REPORT 2010
OPEN BURNING GROUNDS
SENECA ARMY DEPOT ACTIVITY

Contract No. W912DY-08-D-0003
Task Order No. 0008
EPA Site ID# NY0213820830
NY Site ID# 8-50-006

PARSONS

MARCH 2011

DRAFT FINAL

2010 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

HUNTSVILLE, ALABAMA

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ROMULUS, NEW YORK

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Contract Number W912DY-08-D-0003
Task Order No. 0008
EPA Site ID# NY0213820830
NY Site ID# 8-50-006

March 2011

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1.0 INTRODUCTION

This Annual Report provides a review of long-term monitoring (LTM) conducted during the past year (2010) for the Open Burning (OB) Grounds located at the Seneca Army Depot Activity (SEDA or the Depot) in Seneca County, New York. The LTM for the OB Grounds includes annual collection and analysis of groundwater samples for lead and copper, the inspection of the vegetated, compacted soil cover that has been constructed over lead contaminated soil that is interred at the site, and the inspection of Reeder Creek along the length where it abuts the OB Grounds for evidence of inward migration and redeposition of soil from the area of the OB Grounds. This report presents and summarizes the results of the most recent annual LTM event and provides recommendations for future long-term monitoring at OB Grounds.

Long-term monitoring is an integral component of the approved remedy implemented at the OB Grounds. The "Record of Decision (ROD) Former Open Burning Grounds Site, Final" (Parsons, 1999) indicated that monitoring of groundwater and the vegetated soil cover at the OB Grounds, and of the sediment within Reeder Creek was required. Specifically, the ROD required:

- Periodic monitoring of groundwater quality at the OB Grounds for lead and copper content;
- Periodic monitoring of the vegetated, compacted soil cover placed over the lead contaminated soil remaining at the OB Grounds to assess whether evidence of erosion or protective cover breaching were present, which could result in the potential migration of contaminated soil; and,
- Periodic monitoring of the sediment in Reeder Creek for lead and copper content.

The LTM that is being conducted at the OB Grounds is being performed in accordance with the "Long-Term Monitoring Plan for the Open Burning Grounds, Final" (LTM Plan) (Parsons, 2007). The collection of groundwater quality data is needed 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 its long-term integrity and to prevent direct contact to, 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 annual monitoring includes a qualitative assessment (i.e., visual inspection) for evidence of migration of material via surface water flow or groundwater transport of contaminants into the remediated section of Reeder Creek adjacent and downgradient to the OB Grounds. The visual inspection consists of walking the creek bed (or embankment) looking for evidence of soil erosion or sloughing from the OB Grounds side of the creek embankment and/or the accumulation of sediment along the stream bed. 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 analysis) is not included in the annual monitoring; 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 such time as data indicating that either a groundwater pathway of contaminant flow or soil transport from the OB Grounds was occurring, sampling and analysis of creek sediments would not be required.

The overall objectives of the OB Grounds' LTM program is to monitor the effectiveness of the remedial actions completed at the site with respect to preventing future groundwater quality deterioration and the erosion or breaching of the vegetated, soil cover. The soil cover is intended to prevent incidental contact and ingestion of contaminated soil left buried at the site by indigenous terrestrial wildlife, and 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 design and implementation of any sediment monitoring program that may subsequently be needed to assess potential OB Grounds impacts to the sediment quality found in Reeder Creek.

When the Army began LTM at the OB Grounds site, it was scheduled to occur on a quarterly basis. The first round 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 event were presented in a technical memo submitted on January 25, 2008. The second round of LTM sampling and cover inspections were completed between February 25, 2008 and February 26, 2008. The results of the second LTM event were presented in a technical memo submitted on May 19, 2008. The third round of LTM sampling and cover inspections were completed between May 20, 2008 and May 21, 2008. The results of the third monitoring event were presented in a technical memo submitted on September 16, 2008. The fourth round of groundwater sampling and cover inspections were completed between August 25, 2008 and August 26, 2008. The results of the fourth monitoring event were presented in a technical memo submitted on November 13, 2008.

The results of the first four LTM events were combined and summarized in the OB Grounds LTM Annual Report and Year One Review; this document was initially submitted as a draft in December 2008 and this document recommended changing the monitoring frequency from quarterly to an annual event. In February 2009, the Army received preliminary comments from the EPA that indicated that monitoring of Reeder Creek was required per terms of the OB Grounds ROD, and questioning 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. NYSDEC provided additional comments on the draft report in March 2009, indicating that they also believed that inspection of Reeder Creek was required, but indicating that they had no objection to the decrease in monitoring frequency from quarterly to annual.

The Army authorized performance of a Reeder Creek inspection as a result of these comments, but this work was delayed until April 2009 when safe access could be gained into that 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. LTM of the OB Grounds was also disrupted due to the expiration of the Army's ordering period under the contracting vehicle used to perform the original work. Due to the uncertainty associated with the requirements and frequency of the monitoring, the Army could not program necessary funding and contract authorizations until an agreement was reached between all parties. The new contract vehicle and funding were awarded for the continuation of the work in May 2010, and the next round of LTM for the OB Grounds was performed between August 2 and August 5, 2010, approximately two years after the last groundwater and soil cap inspection. Inspection of Reeder Creek was also conducted during this event. The results of the fifth monitoring event are presented and discussed in this annual report.

2.0 SITE BACKGROUND

2.1 Site Description

SEDA is a 10,587-acre former military facility located in Seneca County in the towns of Varick and Romulus, New York, which 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 care-takers role over 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.

SEDA is located between Seneca Lake and Cayuga Lake and is bordered by sparsely populated farmland and New York State Highway 96 on the east, New York State Highway 96A on the west, and sparsely populated farmland on the north and south. The former 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. The former OB Grounds site sits on gently sloping terrain as shown in **Figure 2**. As situated, OB Grounds sits a minimum of 1,780 feet away from the nearest SEDA boundary, which is located to the west of the area of concern (AOC). The OB Grounds is bounded on the east by Reeder Creek, which is a perennial creek that is generally less than 1 foot deep and 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 SEDA.

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 in **Figure 3**.

2.2 Site Hydrology

The stratigraphy of the OB Grounds generally consists of between 2 and 10 feet of glacially derived till below which is a zone of weathered bedrock. The depth to groundwater in the till/weathered shale aquifer varies seasonally between approximately 2 and 7 feet below the ground surface. Infiltration of precipitation is the sole source of groundwater for the overburden aquifer and 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, away from Reeder Creek, which lies to the east. 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.

Little of the current 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 former AOC. The topographic lows result from the soil removal and interment 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. Groundwater monitoring at the site began in November 2007, and inspections of the cover began in January of 2008.

3.0 LONG-TERM GROUNDWATER MONITORING

Four rounds of sampling were conducted at the OB Grounds from November 2007 to August 2008 and reported in the Final OB Grounds Long-Term Monitoring Annual Report and One Year Review (Parsons, 2009). The first round was completed between November 21, 2007 and November 28, 2007. The second round was completed between February 25, 2008 and February 26, 2008. The third round was completed between May 20, 2008 and May 21, 2008. The fourth round was completed between August 25, 2008 and August 26, 2008. The fifth round of sampling was conducted between August 2, 2010 and August 3, 2010 and the results are presented in this report. Six monitoring wells (MW23-1, MW23-2, MW23-3, MW23-4, MW23-5, and MW23-6) that were installed in 2007 to replace the historic monitoring well network that existed at the site prior to the remedial action were sampled as part of these monitoring events.

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)" (Parsons, 2005).

Groundwater samples and groundwater elevation measurements were collected from the six wells located at OB Grounds during each of the five monitoring events. Groundwater samples were collected and submitted to Columbia Analytical Services (CAS) in Rochester, New York for the analysis of total copper and total lead by USEPA SW846 Method 6010B[1]. Analytical results reported for copper and lead were compared to site-specific action levels that are defined in **Table 1**.

In addition, the following geochemical parameters were measured and recorded in the field for each groundwater sample:

- pH
- Dissolved oxygen
- Temperature
- ORP
- Conductivity
- Turbidity

The pH, ORP, conductivity, and temperature of the groundwater were measured with a Horiba U-22 water quality meter, turbidity was measured with a LaMotto 2020 Turbidometer, and dissolved oxygen content was measured with an YSI 85 Dissolved Oxygen Meter. Data from the geochemical parameters were used to assess when the well was purged and stabilized adequately prior to sampling and to assess macro-groundwater quality.

3.1 Groundwater Elevations

Groundwater levels were recorded on November 20, 2007 (Round 1), February 25, 2008 (Round 2), May 20, 2008 (Round 3), August 25, 2008 (Round 4), and August 2, 2010 (Round 5). The

[1] Groundwater samples were analyzed by SW-846 6010B by Columbia Analytical Services Inc (CAS). CAS is currently not certified for the SW-846 6010C analysis method; and SW-846 6010C is presently not required by NYS. SW-846 6010C will be implemented in NYS April 1, 2011.

groundwater elevation range found during the five monitoring events is presented on **Table 2**. **Appendix A** provides the Round 5 field form documenting groundwater elevations prior to the collection of groundwater samples at this site. The missing well cap for MW23-5 was located on the ground adjacent to the well and was re-installed. The current OB Grounds monitoring well network provides insufficient data to develop current day groundwater contours with the level of detail that was provided by the pre-remedial action well network. However, the available current day groundwater data indicate an overall west-to-east, or possibly east-northeast, groundwater flow direction across the OB Grounds site, groundwater elevation data from the Round 5 (August 2010) monitoring event are shown superimposed over the April 1993 groundwater contours in **Figure 3**. Review of this figure and the new elevation data alone indicates that generally groundwater at the site moves west-to-east from wells MW23-5 and MW23-4 towards wells MW23-6, and then wells MW23-2, MW23-1, and MW23-3. There is also an indication that groundwater along the western side of the site may flow to the north, as the elevations observed at MW23-5 are higher than those recorded at MW23-4 during all five of the events (See **Table 2**). Along the eastern edge (Reeder Creek side) of the OB Grounds site, the groundwater elevations measured at MW23-2 in the center of the boundary, are always higher than those measured at MW23-1 and MW23-3. These data suggest some flow variations to the south and the north, away from the west-to-east prevailing flow direction. However, when the new data are evaluated with consideration of the April 1993 contours, the continuing presence of the apparent groundwater divide in the western portion of the site can not be ruled out.

Further, evaluation of the new groundwater elevation data indicates that all of the highest elevations were found during the Round 2 (February 2008) monitoring event, with five of the six wells (all except MW23-4) reaching their lowest elevations during the Round 4 (August 2008) event. The lowest groundwater level measured at MW23-4 was recorded during the Round 1 (November 2007) event.

3.2 Analytical Data

The groundwater results are presented in **Table 3**, where they are compared to the groundwater cleanup goals listed in **Table 1**. Field forms documenting the collection of groundwater during Round 5 at this site are provided in **Appendix A**. Generally, neither total copper nor total lead has been detected in any of the six wells during the five post-remedial action monitoring events. Four exceptions to this general trend exist, each for measured lead concentrations: Round 2, MW23-4 (5.4 ug/L); and Round 5, MW23-4 (2.7 J ug/L), MW23-5 (2.4 J ug/L), and MW23-6 (3.6 J ug/L). Each of these levels is below the groundwater cleanup goal of 15 ug/L. Chemical specific detection limits for both copper and lead were below action levels.

The LTM data support that groundwater at the site has not been impacted above action levels by residual levels of copper that remain in the soils at the site. The recent detection of lead in wells MW23-4, MW23-5, and MW23-6 at levels below cleanup goals suggests that further monitoring is warranted to assess future trends for lead. The detection in MW23-4 is the second time lead has been

found in this well since the beginning of LTM and is suspect because the data is reported as "estimated". The detection in MW23-5 is suspect since lead was detected at an estimated concentration in the duplicate sample; but was not found in the parent sample. The detection in MW23-6 is the first time lead has been found in this well since the beginning of LTM and is suspect because the data is reported as "estimated". Prior to the remedial action, lead was sporadically found in groundwater wells located at the OB Grounds; but since the remedial action, lead was only been detected once during the first four LTM sampling events before being found in three separate wells during the most recent sampling (Round 5) event. Again, each of these wells contained lead at concentrations below the established cleanup goal, and none of these wells are located adjacent to Reeder Creek suggesting that lead has not been released from the site to the creek. Two of the affected wells are located beyond the suspected groundwater divide that lies along the western edge of the former OB Grounds site, while the third (MW23-6) is located at a location believed to be side-gradient to the OB Grounds site. Groundwater pH levels measured in the three affected wells during the Round 5 event showed very weak acidic to weak basic (initial pH levels of 6.2 or higher rising to a pH level of greater than 7.0 prior to sampling) which suggests that lead should not be especially mobile.

Figure 5 through **Figure 10** present a summary of the groundwater sampling results for monitoring wells MW23-1 through MW23-6 from all the monitoring events conducted since the remedial action was completed (November 2007, February 2008, May 2008, August 2008, and August 2010). As may be noted from a review of these figures, neither copper nor lead has been detected above the groundwater cleanup goals in any of the wells sampled during any of the monitoring events.

4.0 SOIL COVER INSPECTION

The cover inspection consisted of documenting observations of the 25, 125- by 125-foot grids, where soils with residual lead concentrations between 60 mg/Kg and 500 mg/Kg were interred under a 9-inch soil cover. The locations of the grids are shown on **Figure 11**, which is a figure that was originally produced by Weston Solutions in the 2005 "Completion Report for the Open Burning Grounds Soil and Sediment Remediation" (Weston Solutions, 2005). The original map has been overlain on a recent aerial image of the OB Grounds obtained from Bing.com to help field inspectors more accurately orient where the interred soil areas are located; this presentation is provided as **Figure 12**. Cover inspections were completed on January 10, February 25, May 20, and August 25, 2008 and August 5, 2010, without the benefit of this figure. Observations from the August 2010 inspection have been updated in this report to reflect the current understanding of where interred soil resides. Observations made during the August 2008 and August 2010 cover inspections are noted below.

A cover inspection log for all five monitoring events is provided in **Table 4**. Inspection forms documenting the Round 5 soil cover inspection at this site are provided in **Appendix A**.

4.1 August 2008

Minimal erosion and a lack of animal burrowing activity were observed in the capped areas. At Grid Cell R8, a mouse hole approximately 6 inches wide and approximately 6 inches deep was observed. The mouse hole was repaired in August 2008.

4.2 August 2010

A lack of animal burrowing activity was observed in all of the capped areas. Minor erosion was observed in Grid Cell J8, adjacent to the location where a buried pipe runs beneath one of the site roads to allow surface water run-off to flow from the western portion of the site towards Reeder Creek. The noted erosion is on the northern side of the flow channel and affects vegetated soil that is outside of areas where the contaminated soil was interred on the southern side of the drainage channel. The condition of this location will be reassessed during the next inspection event to determine if corrective measures are needed.

More significant evidence of erosion was noted in Grid Cell L7 where a portion of the access road that leads past former Burn Pad B and Burn Pad C has apparently been overtopped by the water which has cut an erosion channel through the road allowing runoff to spill into the area of the former Burn Pad C. Erosion in this location, incorrectly referenced to Grid Cell L8 in 2008, was previously noted during the January and May 2008 inspections, but was repaired by the Army and was not observed in August 2008. This erosion channel is outside of the area where lead contaminated soil is interred beneath clean soil, and thus the Army currently does not intend to make repairs. This site

will be reassessed during future inspections and if conditions appear to be worsening, corrective measures may be implemented.

The drainage cut that was constructed along the southern side of the former OB Grounds as part of the remedial action to promote drainage of the accumulated water in the area located between the former site of the former Burn Pad G, the southern access road, and the southern bound of the OB Grounds site in Grid Cells I4 and I5 was also inspected during the site inspection. There were no obvious signs of erosion along its length, it was surrounded and covered with vegetation, and the underlying soil showed signs of cracking at numerous locations suggesting that it may have been dry for an extended period of time.

All of the features discussed above are labeled and shown in an aerial photograph of the OB Grounds site, that focuses on the area beginning in the vicinity of the southeastern corner of Grid Cell P4 (upper left hand corner of aerial), proceeding north-northeasterly (downward) to the approximate midpoint of Grid Cell R10, then proceeding westerly (right) to the approximate midpoint of Grid Cell H9 and finally proceeding south (up) to the southwestern corner of Grid Cell H4 is provided as **Figure 13**.

Soil erosion was observed on the east side of the paved access road leading into the OB Grounds (southeastern corner of Grid Cell S10). This location is not associated with any of the lead contaminated soil that has been interred at the site under the 9-inch soil cover. The noted erosion undermined the paved surface, along the eastern side of the road to a point where future vehicular access into the OB Grounds was being threatened. The Army retained a contractor to reconstruct the culvert and the roadway in September, 2010, and accepted the work as completed. This location will be reassessed during the next inspection tour of the site.

5.0 REEDER CREEK INSPECTION

Accessible portions of Reeder Creek adjacent to the OB Grounds were inspected by walking along the creek bed and making observations of the creek bottom and the side walls. Access to all portions of the creek was not possible due to water depths greater than 2 to 3 feet in the area upgradient of MW23-3 and the absence of any walk surface adjacent to the steep, earthen sidewalls of the creek. Non-accessible portions of Reeder Creek were viewed from locations where access from the higher OB Grounds site could be gained down stable pathways located in the side wall.

5.1 April 2009

The Army performed a visual inspection of the Reeder Creek streambed in April of 2009 at locations adjacent to the OB Grounds. This inspection indicated that surface water flow within Reeder Creek had continued to scour the bedrock surface, and had limited and for the most part precluded, the redeposition of sediment adjacent to the OB Grounds. Soil sloughing from upland surfaces bordering both edges of the creek is observed at many locations along the creek bed; however, these are only noted at places where the creek's course broadens and where the wetted watercourse represents but a portion of the entire creek bed's width. There is no evidence that the sloughed soil has migrated into, and deposited as sediment within, the main flow channel of Reeder Creek.

Examination of the spillways where surface water from the OB Grounds to Reeder Creek previously flowed into the creek, but which were closed as part of the overall OB Grounds remedial action, indicated that there was no visible evidence that overland surface water flow had transported soils from the OB Grounds into Reeder Creek. The spillways, which are shale based, were free of any 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 August 2010

A visual inspection of the Reeder Creek streambed was conducted on August 5, 2010 at locations adjacent, downgradient, and upgradient to the OB Grounds. Locations downgradient and adjacent to the OB Grounds consisted of exposed bedrock streambeds with no observable sediment. The majority of the Reeder Creek streambed from OD Grounds to upgradient of OB Grounds was walked using the appropriate health and safety equipment; areas that were deeper than 2 feet or where vegetation prevented access were observed from the creek banks.

Sediment was not observed in the low spots of the bedrock streambed in either the downgradient or adjacent portions of Reeder Creek to the OB Grounds. However, a thin brown slim-like material measuring only a few millimeters thick was observed in various segments of the creek in areas where the water was deeper than 6 inches. These locations were typically associated with downstream bedrock outcrops which allow the creek water to pool until it exceeds the height of the outcrop and

then flow over the top of the outcrop; the brown material was not observed beyond the outcrop overflow points. Sediment was observed upgradient of the OB Grounds in areas that were outside the prior creek bed excavation areas.

The banks or Reeder Creek were inspected for evidence of material collapsing into the creek. With the exception of the erosion point that is located along the eastern edge of the OB/OD Grounds access road in Grid Cell S10, no other locations of soil erosion were noted on the southwest side of Reeder Creek (OB Grounds side). Erosion in Grid Cell S10 is due to the undermining of the paved access road; this material's source is from the subgrade to the paved access road and is not from the OB Grounds soil cover. The northeast bank of Reeder Creek (non OB Grounds side) generally exhibited similar conditions as the southwest bank, although several locations where deer trails descend the creek bank had visible signs of sidewall material collapse, migration, and accumulation down in the creek bed. These locations appeared to be solely related to deer activity and not from surface water run-off.

Appendix B provides a scan of the Log Book notes from August 5, 2010 Reeder Creek inspection and a transcript of the associated Log Book notes. Photos of Reeder Creek were taken to document the exposed bedrock streambed and creek banks current condition; **Figure 12** shows the locations photos were taken. Reeder Creek Photo #01 through Photo #06 are provided in **Appendix C**.

Photo #01 – Standing downgradient of MW23-3, looking up stream. Exposed bedrock creek bottom is visible. No sediment was observed.

Photo #02 – Standing parallel to MW23-3, looking up stream. This section of creek was greater than 2 feet deep. The creek bottom was competent bedrock with lose shale rocks scattered about. A brown slim/gelatinous like material, previous mentioned, was observed on top of the bedrock creek bottom in this section and a few localized spots where bedrock outcrops allow water to pool.

Photo #03 – Upgradient of MW23-3, looking down stream. This section of the creek was about 1 foot deep and the banks were heavy vegetated. The creek bottom was competent bedrock and the brown slim/gelatinous material was observed and appeared to be a few millimeters thick.

Photo #04 - Downgradient side of beaver dam and MW23-2, looking up stream. The area immediately downgradient of the beaver dam had an exposed bedrock creek bottom (not visible in photo). The brown slim/gelatinous material was observed between the exposed bedrock outcrop and the downgradient side of the beaver dam. Broken shale bits were observed on a deer trail accumulating on the northeast side of the creek (buffer area side) but had not migrated into the creek itself. The location of the beaver dam is marked on **Figure 12**.

Photo #05 - Upgradient side of beaver dam and parallel to MW23-2, looking down stream. The water was 2 to 3 feet deep in this section. The area upgradient of the beaver dam was not directly accessible due to thick vegetation along the creek bank. There was an access point about 150 feet upgradient of

the beaver dam due to the erosion on the northeast side of the paved access road. The paved access road's subgrade material is migrating down into the creek from surface water runoff erosion. The creek bottom could not be visually observed but a shovel was used to gauge the condition of the creek bottom; no sediment was observed. The creek bottom felt (striking with the shovel) like competent bedrock, and the brown slim/gelatinous material that was a few millimeters thick was observed on top of rocks examined from the creek bottom.

Photo #06 – Downgradient to MW23-1, looking up stream. Water was greater than 2 feet deep. The vantage point looking up stream was from the paved access road access point, where material from the roads subgrade was observed migrating into the creek. The left side of the photo (northeast bank/buffer area) had a couple locations where bank material was migrating down to the creek, and appeared to be associated with deer trail activity.

5.3 Inspection Observations

As is reported above, the groundwater data collected during historic sampling events as well as during the five rounds of the Long-Term Monitoring Program shows no evidence of the release of copper or lead from the OB Grounds. The prior 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. All of the noted holes and depressions were repaired in August 2008 as part of the Army's continuing maintenance activities. Other than the discussed location where material to the east of the access roadway had eroded and collapsed into the Reeder Creek (repaired September 3, 2010), there are no other visible signs that OB Grounds site soils are being released via overland flow to Reeder Creek. Soil from the location 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 recent 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 long-term monitoring 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

Based on the results of fifth round of LTM at the OB Grounds, the following conclusions have been reached:

- Residual lead and copper concentrations remaining in the soils have not impacted groundwater at, or in the immediate vicinity of, the site above the action levels;
- The integrity of the vegetated soil cover overlying interred contaminated soils at the site was intact and there was no evidence that terrestrial wildlife are exposed to the contaminated soils below the 9-inch cover;
- The washout area noted during in Grid Cell L7 in (identified as L8 in 2008 Report) during the February and May 2008 inspections is again evident in the August 2010 inspection. Information provided in Section 4.2 indicates that this is outside of areas where contaminated soils were interred beneath clean soil, so this area will not be repaired at this time by the Army. If the next inspection suggests that this area is enlarging, the Army will evaluate a more permanent repair;
- The Army will continue to monitor cover erosion, and note any instance of cover erosion or exposed native soil;
- Based on the groundwater data and 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;
- Sediment deposition in Reeder Creek adjacent to the OB Grounds was not noted during the August 2010 inspection; and,
- 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 lead or 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 sample results obtained during the remedial investigation stage (1990s) of work at the site, indicating that there is no evidence of groundwater quality deterioration over the past 15 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 inspections of Reeder Creek indicate 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 sampling, soil cover inspection, and Reeder Creek inspection events are scheduled to occur in August 2011. Results of the next year's monitoring efforts at the OB Grounds will be evaluated, and recommendations of necessary 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 at yearly intervals thereafter, unless altered by mutual agreement of all parties.

7.0 REFERENCES

Final Remedial Investigation Report at the Open Burning (OB) Grounds, Seneca Army Depot Activity, 3 Volumes, Parsons 1994.

Final Record of Decision, Open Burning (OB) Grounds, Seneca Army Depot Activity, Parsons 1999.

Final Long-Term Monitoring Plan for the Open Burning (OB) Grounds, Seneca Army Depot Activity, Parsons 2007.

Final OB Grounds Long-Term Monitoring Annual Report and One Year Review, Seneca Army Depot Activity, Parsons 2009.

Completion Report, Soil and Sediment Remediation Open Burning Grounds, Seneca Army Depot, Romulus, New York, Weston Solutions 2005.

TABLES

Table 1
Site-Specific Cleanup Goals for Groundwater
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

ANALYTES	Contract Required Quantitation Limits Water (µg/L)	Action Level Water (µg/L)
Copper	20	200
Lead	5	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), Source http://www.epa.gov/safewater/mcl.html#inorganic.html
3. Referenced from Table 5-1 in "Final Long-Term Monitoring Plan for the Open Burn (OB) Grounds", (Parsons, Jan 2007)

Table 2
Groundwater Elevation Data
OB Grounds LTM 2010 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		
		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	610.635	02/25/2008	11.46	611.175	05/20/2008	11.63	611.005
MW23-2	622.28	11/20/2007	9.6	612.68	02/25/2008	8.78	613.5	05/20/2008	9.17	613.11
MW23-3	619.18	11/20/2007	10.8	608.381	02/25/2008	9.24	609.941	05/20/2008	9.68	609.501
MW23-4	637.11	11/20/2007	8.6	628.507	02/25/2008	3.2	633.907	05/20/2008	4.14	632.967
MW23-5	639.47	11/20/2007	7	632.472	02/25/2008	2.85	636.622	05/20/2008	5.19	634.282
MW23-6	632.59	11/20/2007	8.35	624.244	02/25/2008	3.78	628.814	05/20/2008	5.54	627.054

Monitoring Well	Top of Riser Elevation (ft)	Round 4 - August 2008			Round 5 - August 2010			Historical Data			
								Groundwater Elevation (ft)			
		Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date	Depth to Groundwater (ft)	Water Level Elevation (ft)	Maximum	Minimum	Range	Well Depth (ft)
MW23-1	622.64	08/25/2008	12.10	610.54	08/02/2010	12.06	610.58	611.18	610.54	0.64	15.50
MW23-2	622.28	08/25/2008	9.84	612.44	08/02/2010	9.4	612.88	613.50	612.44	1.06	15.50
MW23-3	619.18	08/25/2008	10.59	608.59	08/02/2010	9.97	609.21	609.94	608.38	1.56	15.50
MW23-4	637.11	08/25/2008	7.82	629.29	08/02/2010	5.81	631.30	633.91	628.51	5.40	17.50
MW23-5	639.47	08/25/2008	8.33	631.14	08/02/2010	7.51	631.96	636.62	631.14	5.48	17.50
MW23-6	632.59	08/25/2008	10.08	622.51	08/02/2010	8.79	623.80	628.81	622.51	6.30	17.60

Table 3
Summary of COCs detected in Groundwater
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Project:									OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds			
Location ID:									MW23-1		MW23-1		MW23-1		MW23-1		MW23-1		MW23-1			
Matrix:									GW		GW		GW		GW		GW		GW			
Sample ID:									OBLM20001		OBLM20009		OBLM20008		OBLM20015		OBLM20022		OBLM20029			
Date:									11/21/2007		02/26/08		02/26/08		5/21/2008		8/26/2008		8/3/2010			
QC Code:									SA		DU		SA		SA		SA		SA			
Study ID:									LTM		LTM		LTM		LTM		LTM		LTM			
Study Round									1		2		2		3		4		5			
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Action Level**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)		
Copper	UG/L	0	0%	GA	200	0	0	35	20	U	20	U	20	U	20	U	20	U	20	U		
Lead	UG/L	5.4	11%	MCL	15	0	4	35	5	U	5	U	5	U	5	U	5	U	5	U		
Turbidity	NTU								0		2.09		2.09		0.42		0.9		1.3			

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

Table 3
Summary of COCs detected in Groundwater
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Project:									OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds			
Location ID:									MW23-2		MW23-2		MW23-2		MW23-2		MW23-2		MW23-2			
Matrix:									GW		GW		GW		GW		GW		GW			
Sample ID:									OBLM20002		OBLM20010		OBLM20017		OBLM20016		OBLM20023		OBLM20030			
Date:									11/21/07		2/25/2008		5/21/2008		5/21/2008		8/26/2008		8/3/2010			
QC Code:									SA		SA		DU		SA		SA		SA			
Study ID:									LTM		LTM		LTM		LTM		LTM		LTM			
Study Round									1		2		3		3		4		5			
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Action Level**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)		
Copper	UG/L	0	0%	GA	200	0	0	35	20	U	20	U	20	U	20	U	20	U	20	U		
Lead	UG/L	5.4	11%	MCL	15	0	4	35	5	U	5	U	5	U	5	U	5	U	5	U		
Turbidity	NTU								0		2.37		0.15		0.15		0.85		3.4			

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

Table 3
Summary of COCs detected in Groundwater
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Project:									OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds			
Location ID:									MW23-3		MW23-3		MW23-3		MW23-3		MW23-3		MW23-3			
Matrix:									GW		GW		GW		GW		GW		GW			
Sample ID:									OBLM20004		OBLM20003		OBLM20011		OBLM20018		OBLM20024		OBLM20031			
Date:									11/21/07		11/21/2007		2/25/2008		5/21/2008		08/26/08		8/2/2010			
QC Code:									DU		SA		SA		SA		SA		SA			
Study ID:									LTM		LTM		LTM		LTM		LTM		LTM			
Study Round									1		1		2		3		4		5			
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Action Level**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)		
Copper	UG/L	0	0%	GA	200	0	0	35	20	U	20	U	20	U	20	U	20	U	20	U		
Lead	UG/L	5.4	11%	MCL	15	0	4	35	5	U	5	U	5	U	5	U	5	U	5	U		
Turbidity	NTU								0		0		9.91		2		7.9		1.5			

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

Table 3
Summary of COCs detected in Groundwater
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Project:									OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds			
Location ID:									MW23-4		MW23-4		MW23-4		MW23-4		MW23-4		MW23-4			
Matrix:									GW		GW		GW		GW		GW		GW			
Sample ID:									OBLM20005		OBLM20012		OBLM20019		OBLM20026		OBLM20025		OBLM20032			
Date:									11/21/2007		3/3/2008		5/21/2008		08/25/08		8/25/2008		8/2/2010			
QC Code:									SA		SA		SA		DU		SA		SA			
Study ID:									LTM		LTM		LTM		LTM		LTM		LTM			
Study Round									1		2		3		4		4		5			
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Action Level**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)		
Copper	UG/L	0	0%	GA	200	0	0	35	20	U	20	U	20	U	20	U	20	U	20	U		
Lead	UG/L	5.4	11%	MCL	15	0	4	35	5	U	5.4		5	U	5	U	5	U	2.7	J		
Turbidity	NTU								2		41.1		6.3		5.27		5.27		1.6			

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

Table 3
Summary of COCs detected in Groundwater
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Project:									OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds		OB Grounds			
Location ID:									MW23-5		MW23-5		MW23-5		MW23-5		MW23-5		MW23-5			
Matrix:									GW		GW		GW		GW		GW		GW			
Sample ID:									OBLM20006		OBLM20013		OBLM20020		OBLM20027		OBLM20034		OBLM20033			
Date:									11/21/2007		02/26/08		5/21/2008		8/25/2008		8/2/2010		8/2/2010			
QC Code:									SA		SA		SA		SA		DU		SA			
Study ID:									LTM		LTM		LTM		LTM		LTM		LTM			
Study Round									1		2		3		4		5		5			
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Action Level**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)		
Copper	UG/L	0	0%	GA	200	0	0	35	20	U	20	U	20	U	20	U	20	U	20	U		
Lead	UG/L	5.4	11%	MCL	15	0	4	35	5	U	5	U	5	U	5	U	2.4	J	5	U		
Turbidity	NTU								0		6.72		4.5		2.13		1		1			

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

Table 3
Summary of COCs detected in Groundwater
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Project:									OB Grounds		OB Grounds		OB Grounds		OB Grounds	
Location ID:									MW23-6		MW23-6		MW23-6		MW23-6	
Matrix:									GW		GW		GW		GW	
Sample ID:									OBLM20007		OBLM20014		OBLM20021		OBLM20028	
Date:									11/28/2007		2/26/2008		5/20/2008		8/26/2008	
QC Code:									SA		SA		SA		SA	
Study ID:									LTM		LTM		LTM		LTM	
Study Round									1		2		3		4	
Parameter	**Units**	**Maximum Value**	**Frequency of Detection**	**Action Level Source**	**Action Level**	**Number of Exceedances**	**Number of Times Detected**	**Number of Samples Analyzed**	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)	Value	(Q)
Copper	UG/L	0	0%	GA	200	0	0	35	20	U	20	U	20	U	20	U	20	U
Lead	UG/L	5.4	11%	MCL	15	0	4	35	5	U	5	U	5	U	5	U	3.6	J
Turbidity	NTU								8		2.84		8.2		48		10	

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

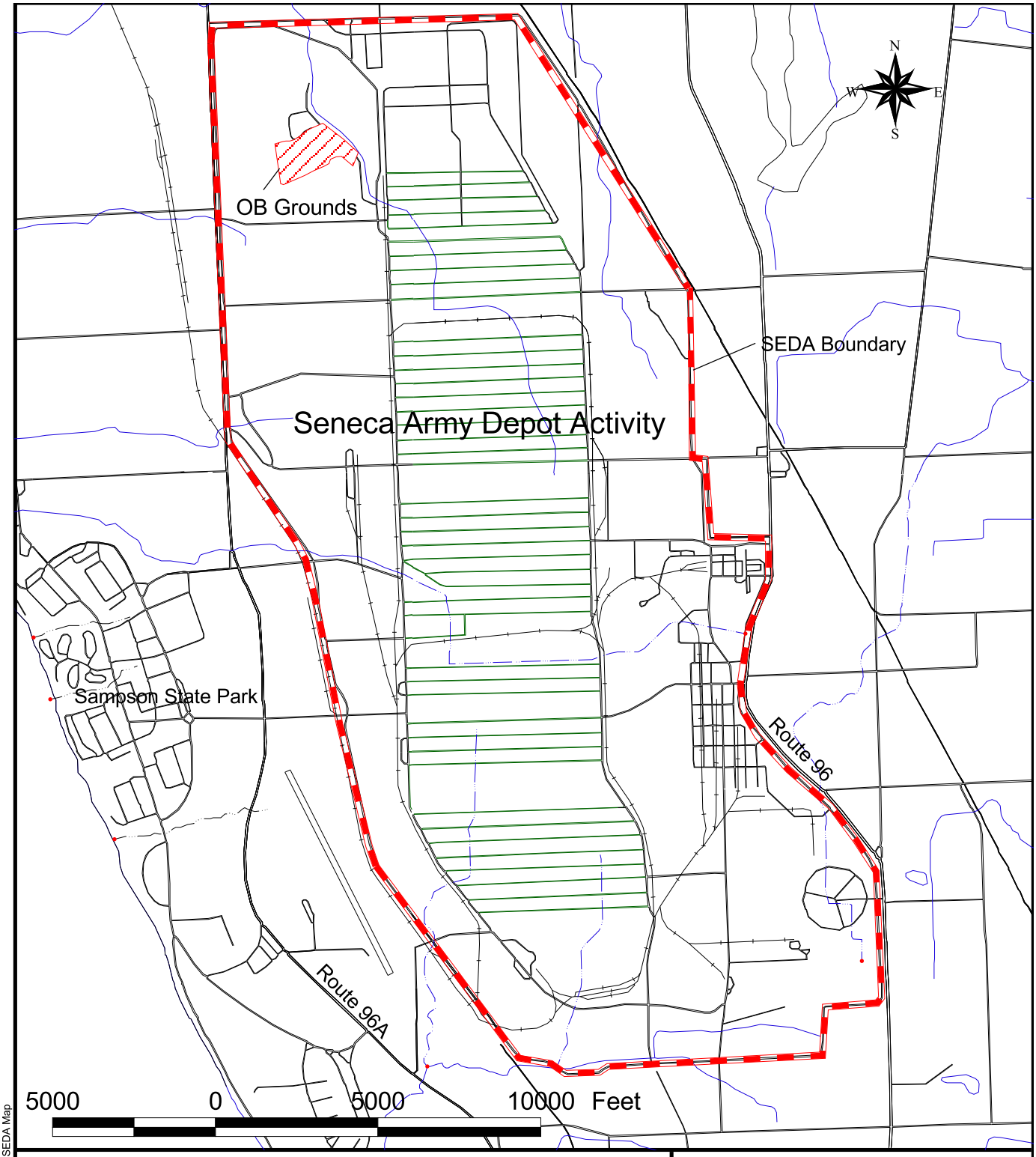
Table 4
Soil Cap Inspection Log
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

	Observations			
Grid #	**Round 1 - January 2008**	**Round 2 - February 2008**	**Round 3 - May 2008**	**Round 4 - August 2008**
S8	Several 1" to 2" size mice holes were observed	No change	No change	No change
S8	Several 1" to 2" size mice holes were observed on the ground surface.	No change	No change	No change
R8	Several 1" to 2" size mice holes were observed on the ground surface.	No change	No change	A mouse hole approximately 6" wide and approximately 6" deep was observed. Hole was repaired August 2008.
Q8	2" mice hole was observed on the ground surface.	No change	No change	No change
Q8	A cluster of 1" to 2" size mice holes was observed.	No change	No change	No change
P10	A cluster of 1" to 2" size mice holes was observed.	No change	No change	No change
L9	Two mice holes approximately 6" deep	No change	No change	No change
L9	A mouse hole approximately 6"deep was observed	No change	No change	No change
L9	A mouse hole approximately 6"deep and 6" diameter was observed	No change	No change	No change
L8	Minor erosion along the edge of the soil cap from surface water flow.	Surface water runoff path forming. Repaired drainage path May 2008.	Repaired drainage path May 2008.	No change
I8	A mouse hole about 2" to 3" in size was observed	Vegetation spotty, large amounts of surface soil exposed. Reseeded May 2008.	Reseeded May 2008.	No change
I8	Minor erosion of the soil cap.	Surface water runoff path forming. Repaired drainage path May 2008.	Repaired drainage path May 2008.	No change
I6	A cluster of 1" to 2" size mice holes was observed.	No change	No change	No change
J6	2" mice holes were observed on the ground surface.	Short surface water drainage path; native soil not visible. Repaired drainage path May 2008.	Repaired drainage path May 2008.	No change
H9	Two mice 2" size holes was observed.	No change	No change	No change
D7	Two mice 2" size holes was observed.	No change	No change	No change
B3	A mouse hole approximately 6" wide and approximately 6" deep was observed	No change	No change	No change

Grid #	**Round 5 - August 2010**
S8	No animal holes were observed.
S8	No animal holes were observed.
R8	No animal holes were observed.
Q8	No animal holes were observed.
Q8	No animal holes were observed.
P10	No animal holes were observed.
L9	No animal holes were observed.
L9	No animal holes were observed.
L9	No animal holes were observed.
L8	Erosion of road area due to surface water flow.
J8	Erosion along road edge due to surface water flow off of road surface.
J8	Erosion around a culvert outlet due to surface water flow off of road surface.
I8	No animal holes were observed.
I6	No animal holes were observed.
J6	No animal holes were observed.
H9	No animal holes were observed.
D7	No animal holes were observed.
B3	No animal holes were observed.

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.
2. The Army repaired the washout areas noted above, and reseeded areas with sparse vegetation on or before May 22, 2008.

FIGURES



Approximate Boundary of SEDA Site

Approximate Boundary and extent of OB Grounds

PARSONS

CLIENT / PROJECT TITLE

SENECA ARMY DEPOT

OPEN BURNING (OB) GROUNDS
LTM 2010 ANNUAL REPORT

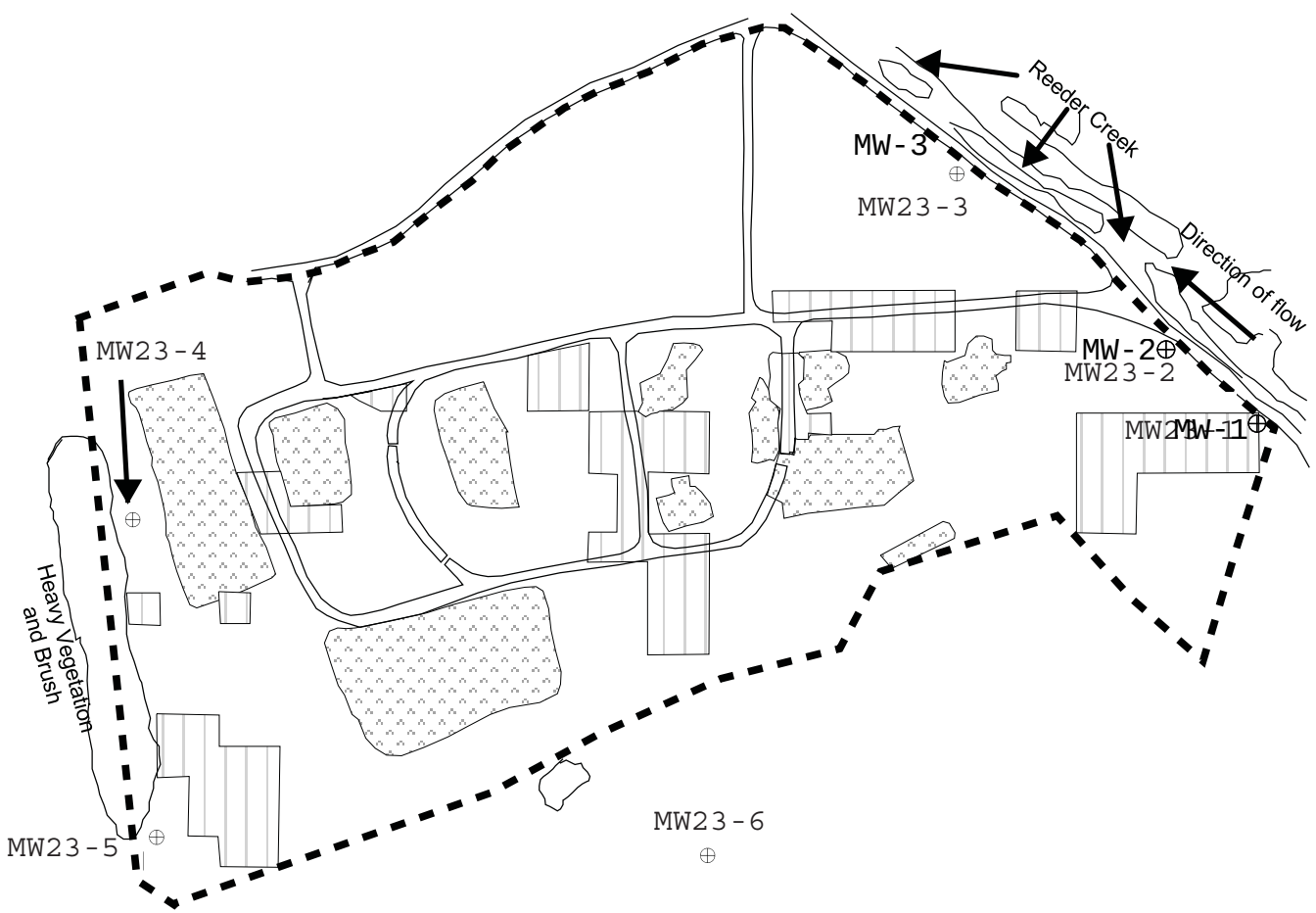
DEPT. ENVIRONMENTAL REMEDIATION

Figure 1

SEDA Site Map and AOC Location

DATE OCTOBER 2010

O:\Seneca\Depot Survey\site_location_in_seda.apr\Fig OB SEDA Map



Approximate Location of Interred Soils

Former Burning Pads

OB Grounds Boundary

Monitoring Well Location

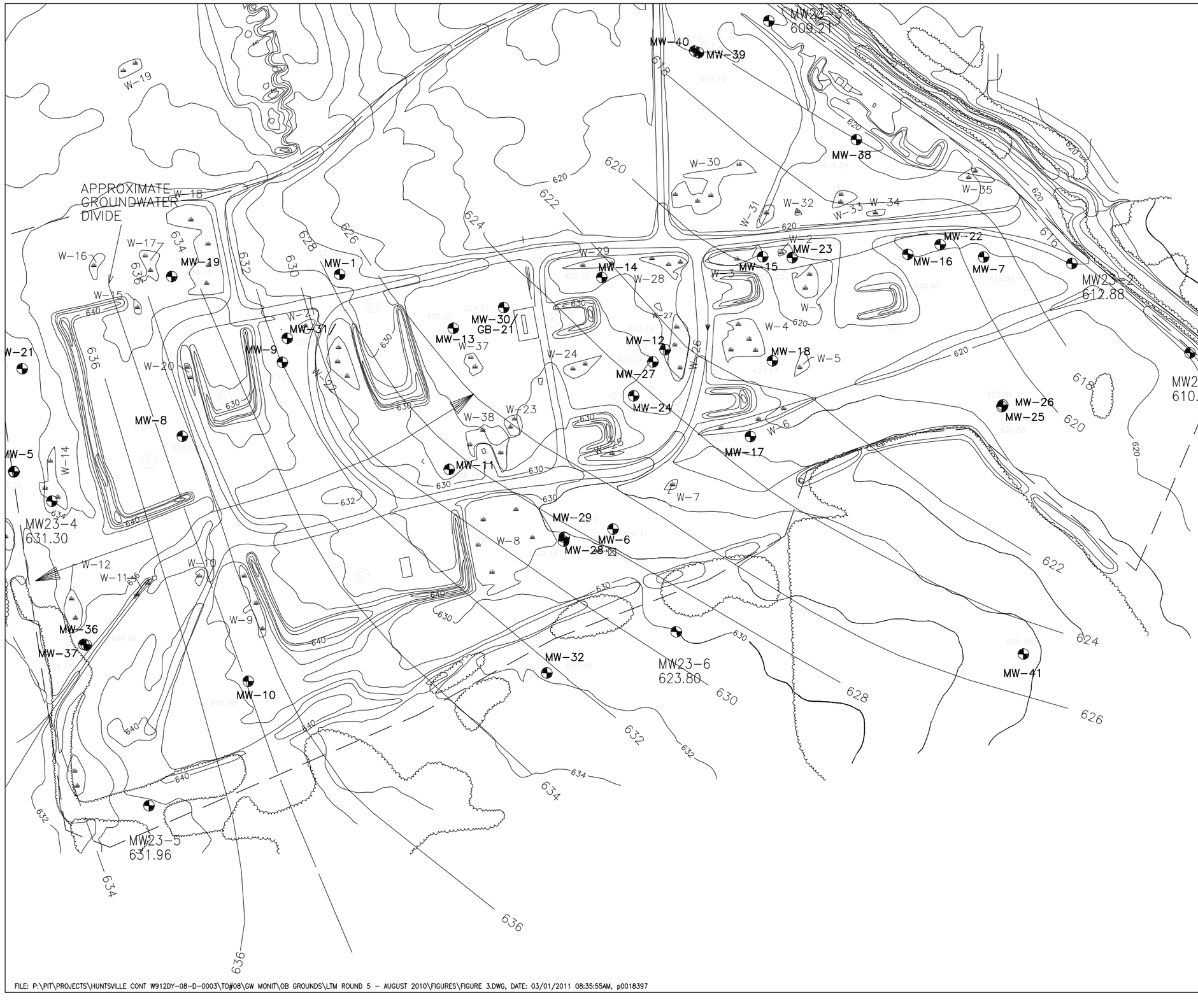
Map not to scale. Site features derived from information presented in "Soil and Sediment Remediation, Open Burning Grounds, Completion Report." See Figure 4-13 . (Weston Solutions, Inc. June 2005)

PARSONS

SENECA army DEPOT ACTIVITY
OPEN BURNING (OB) GROUNDS
LONG-TERM MONITORING
2010 ANNUAL REPORT

FIGURE 2
Open Burning Grounds
Site

DATE: October 2010



LEGEND:

- (G) BURNING PAD DESIGNATION
- PAD OR GRID BORING
- 650 APRIL 1993 GROUND CONTOUR AND ELEVATION
- W-1 WETLAND & DESIGNATION
- 611.01 CURRENT LONG-TERM MONITORING WITH AUGUST 2010 DATA
- 616.82 HISTORICAL WELLS WITH APRIL 1993 DATA
- GROUNDWATER ELEVATION CONTOUR MSL DATUM
- GENERAL GROUNDWATER FLOW DIRECTION
- APPROXIMATE BOUNDARY AND EXTENT OF OB GROUNDS

100' 0 100' 200'
1" = 200'

PARSONS
PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT ACTIVITY
OPEN BURING (OB) GROUNDS
LONG-TERM MONITORING 2010 ANNUAL REPORT

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	745818

FIGURE 3
HISTORIC GROUNDWATER CONTOURS AND AUGUST 2010 ELEVATIONS

SCALE	DATE	REV
1" = 200'	SEPTEMBER 2010	A

FILE: P:\PIT\PROJECTS\HUNTSVILLE CONT W912DY-08-D-0003\TO#08\GW MONIT\OB GROUNDS\LTM ROUND 5 - AUGUST 2010\FIGURES\FIGURE 3.DWG, DATE: 03/01/2011 08:35:55AM, p0018397

Figure 4
OB Grounds Groundwater Elevation
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

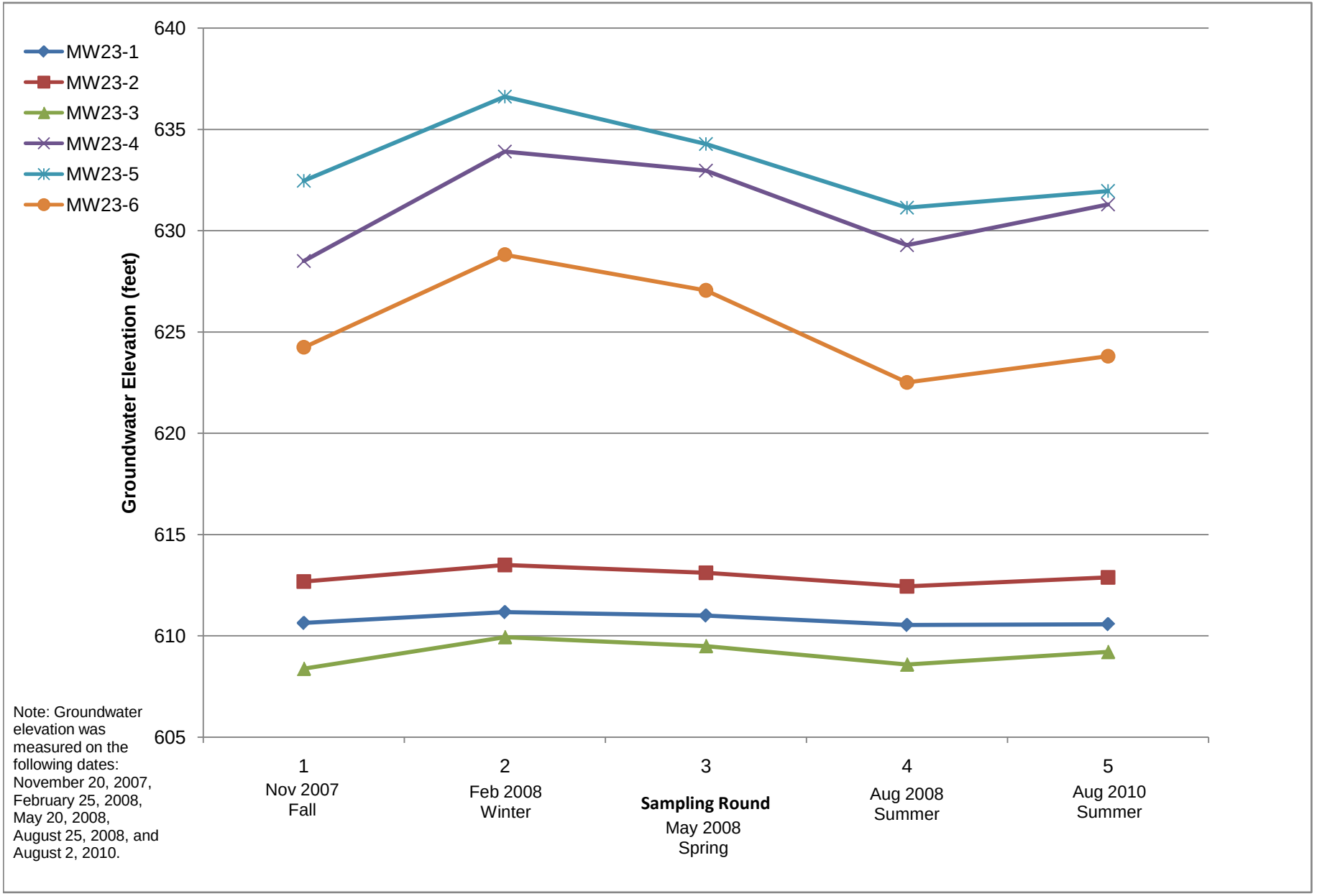
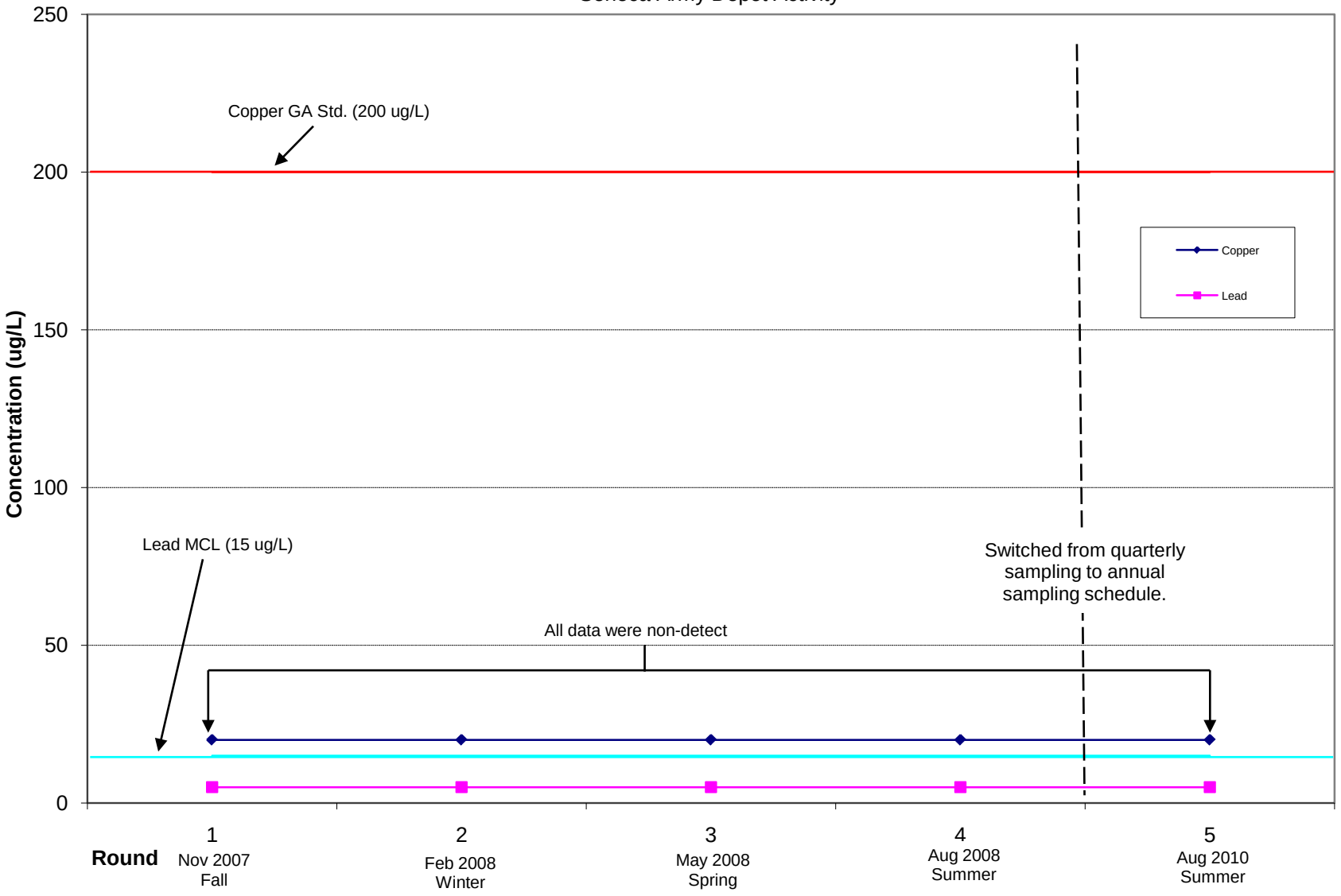
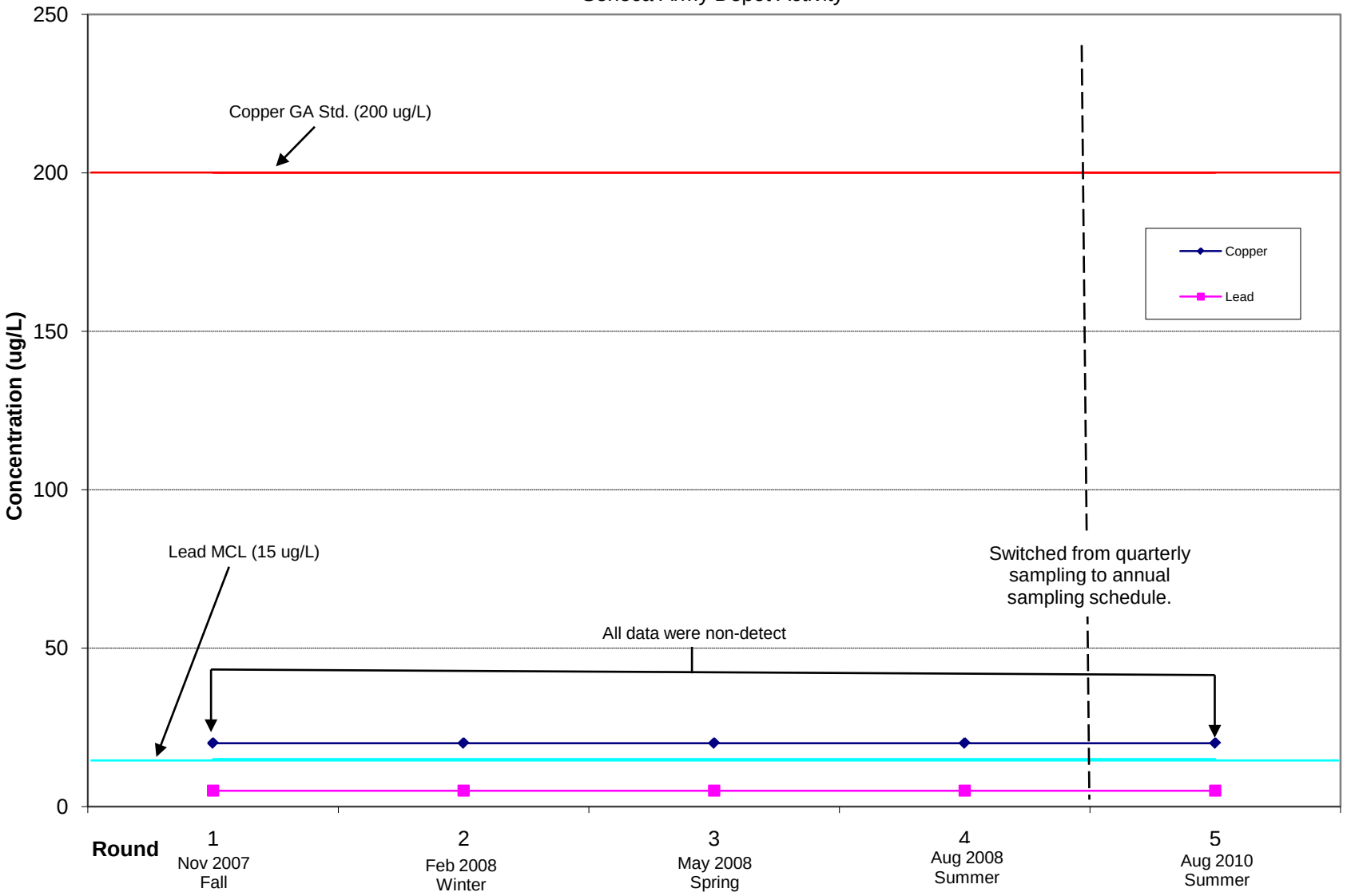


Figure 5
Concentrations of Lead and Copper at MW23-1
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity



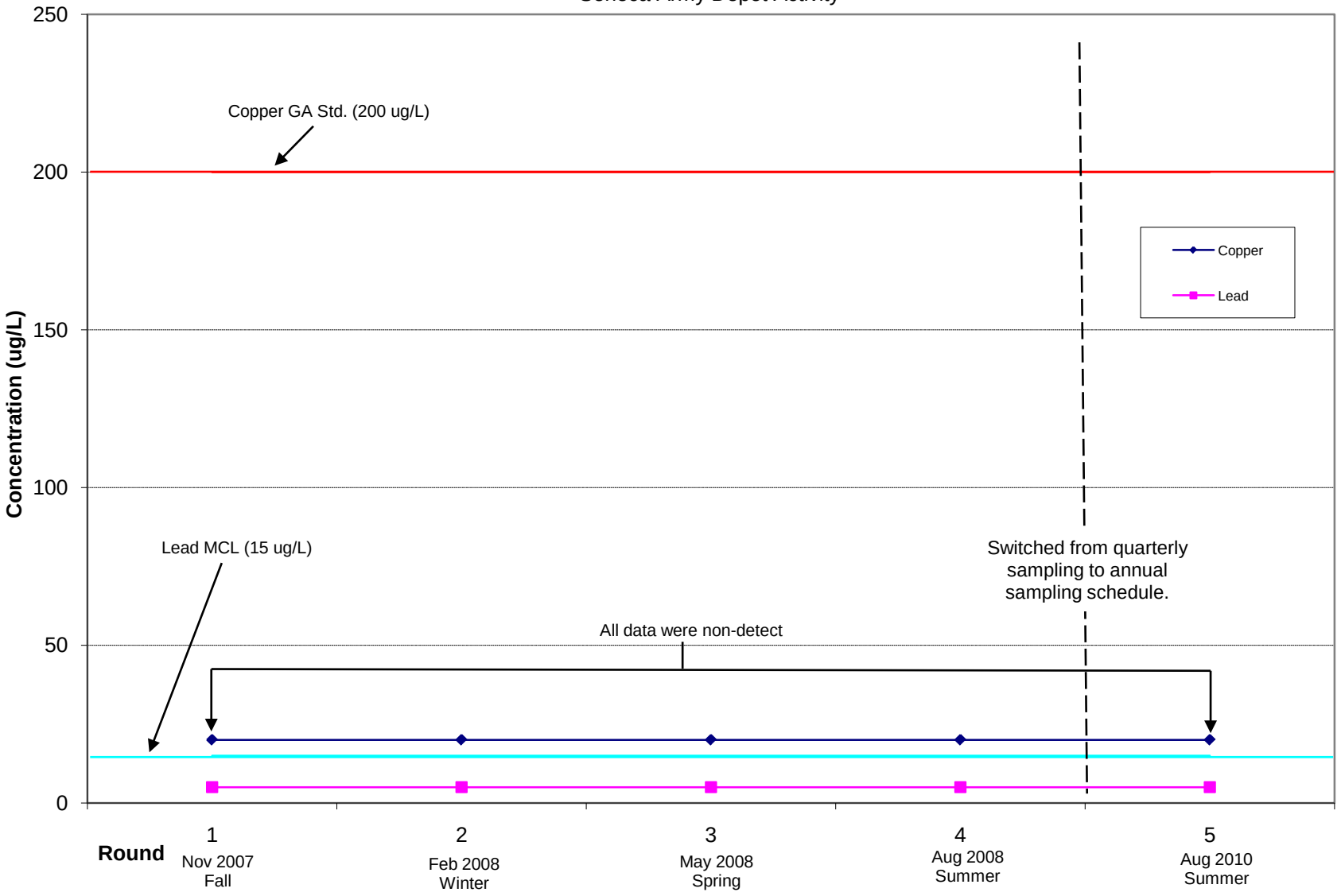
Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, and August 2, 2010. All groundwater concentrations were below detection limits.

Figure 6
Concentrations of Lead and Copper at MW23-2
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity



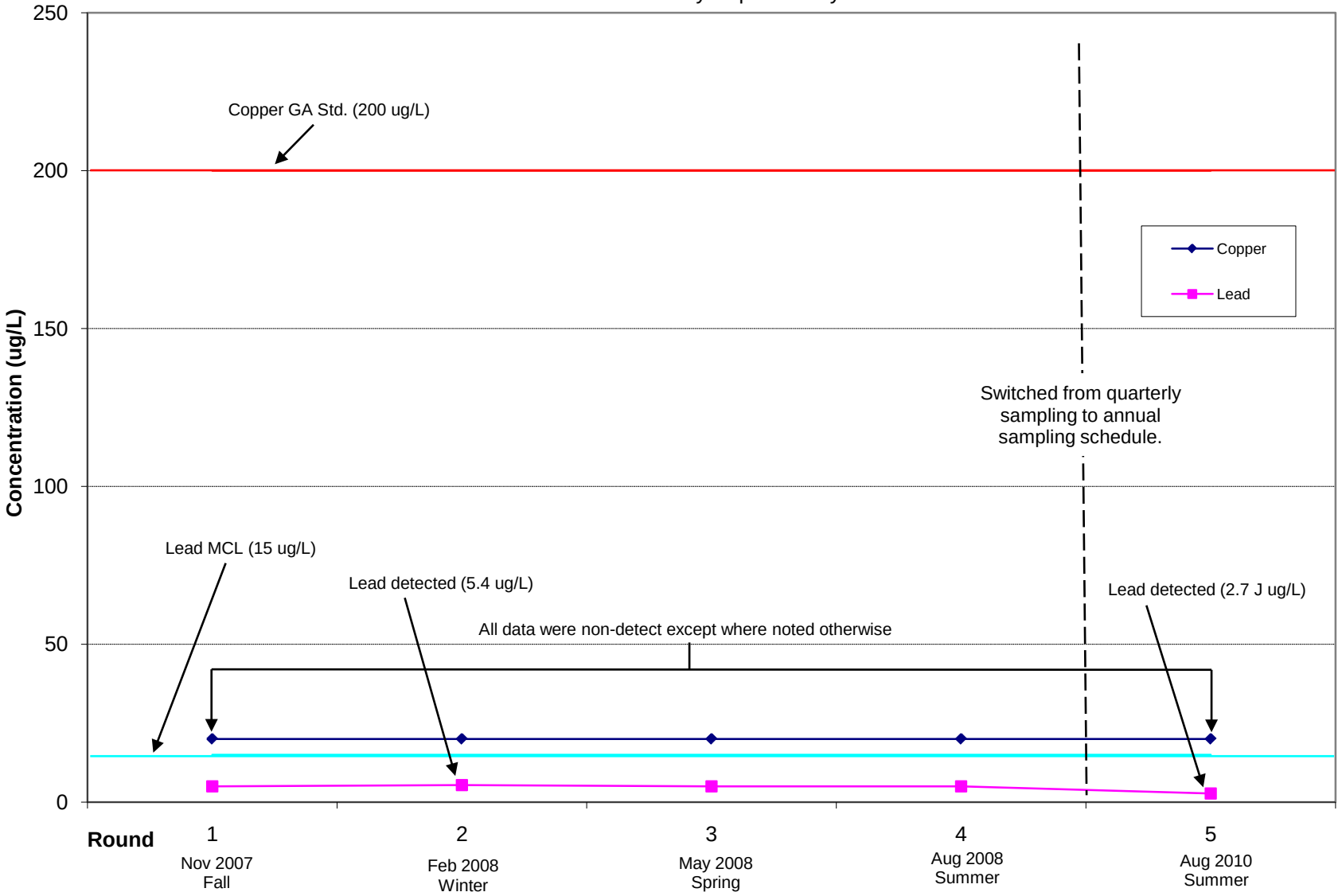
Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, and August 2, 2010.
All groundwater concentrations were below detection limits.

Figure 7
Concentrations of Lead and Copper at MW23-3
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity



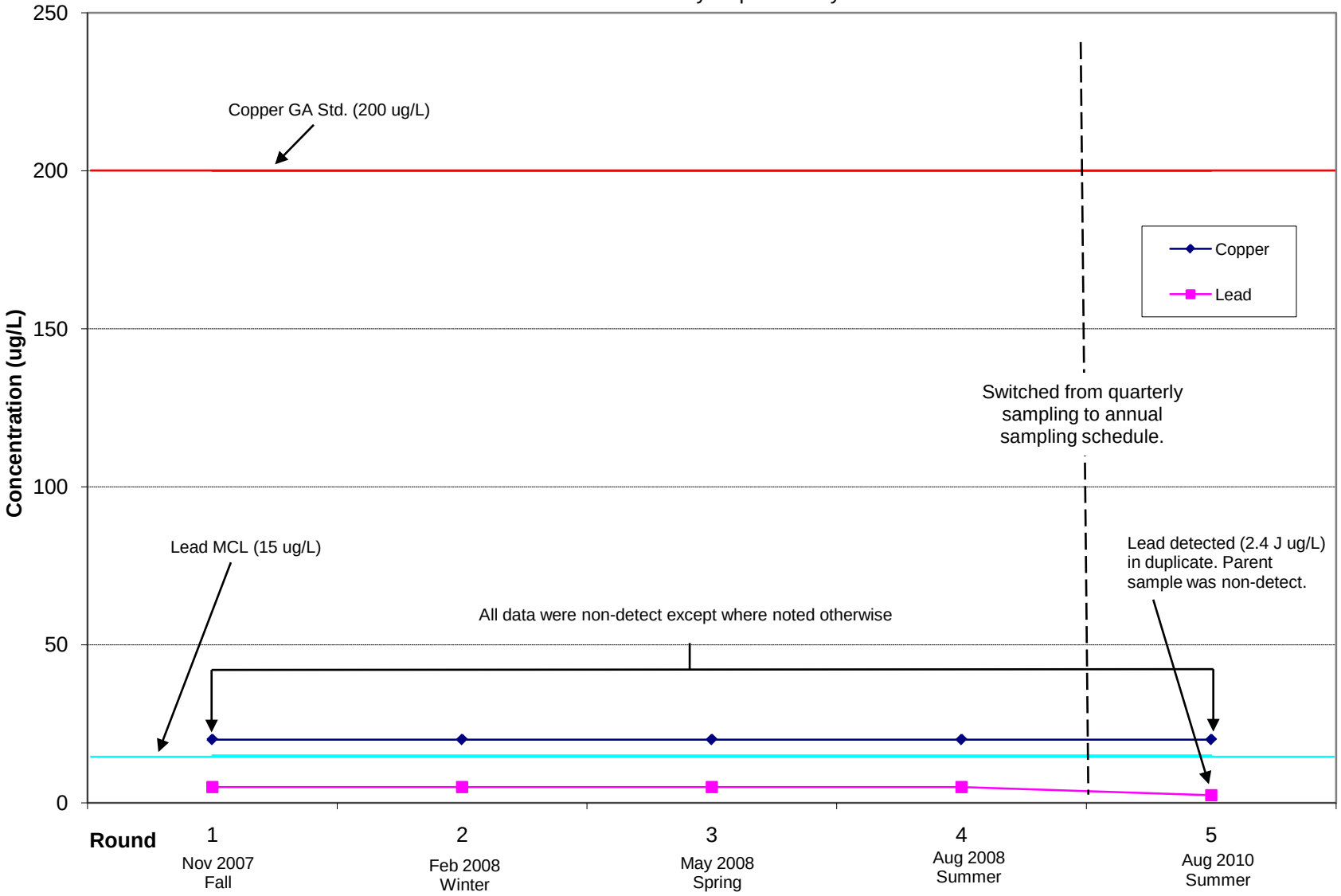
Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, and August 2, 2010.
All groundwater concentrations were below detection limits.

Figure 8
Concentrations of Lead and Copper at MW23-4
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity



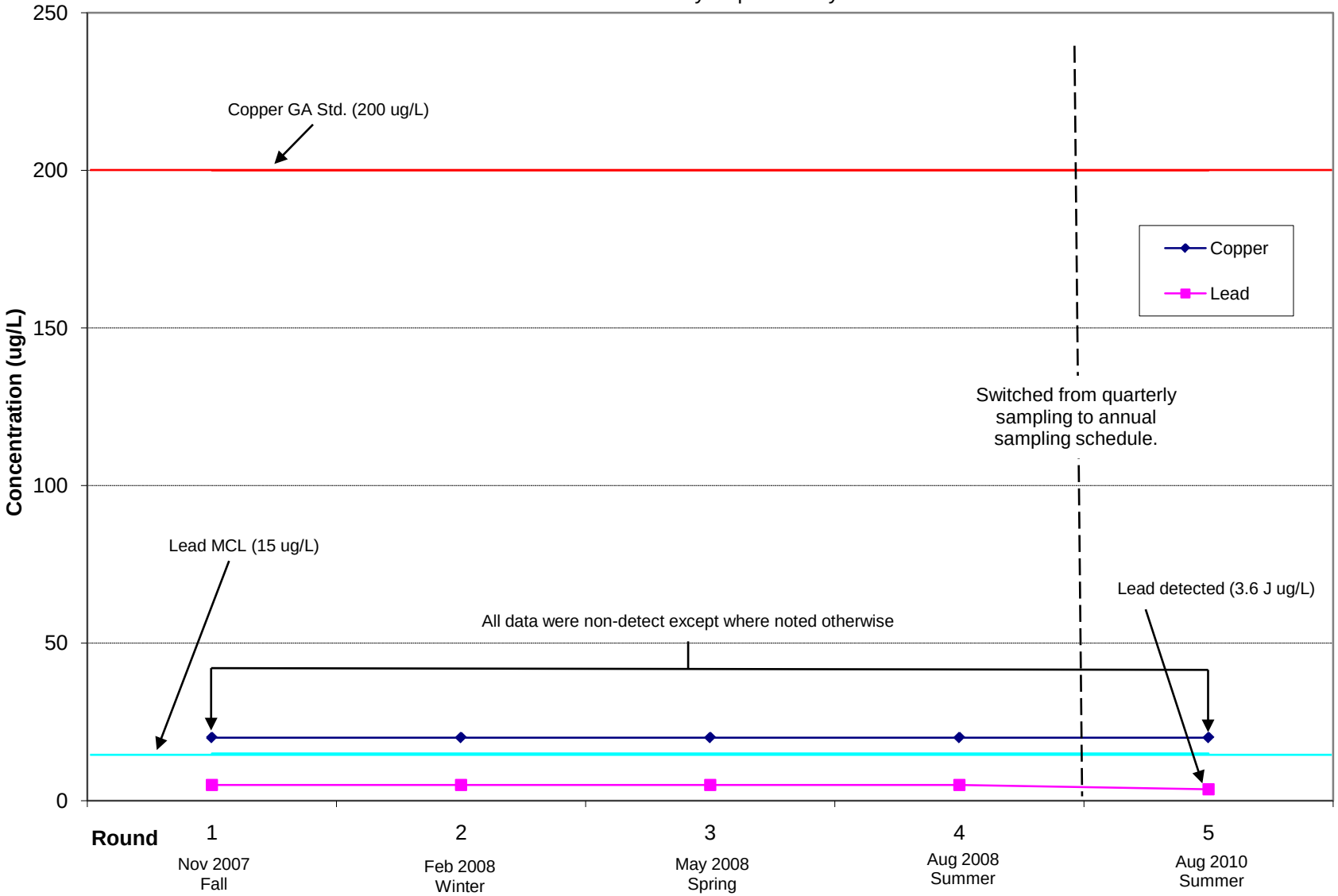
Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, and August 2, 2010.
All groundwater concentrations were below detection limits unless noted otherwise.

Figure 9
Concentrations of Lead and Copper at MW23-5
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

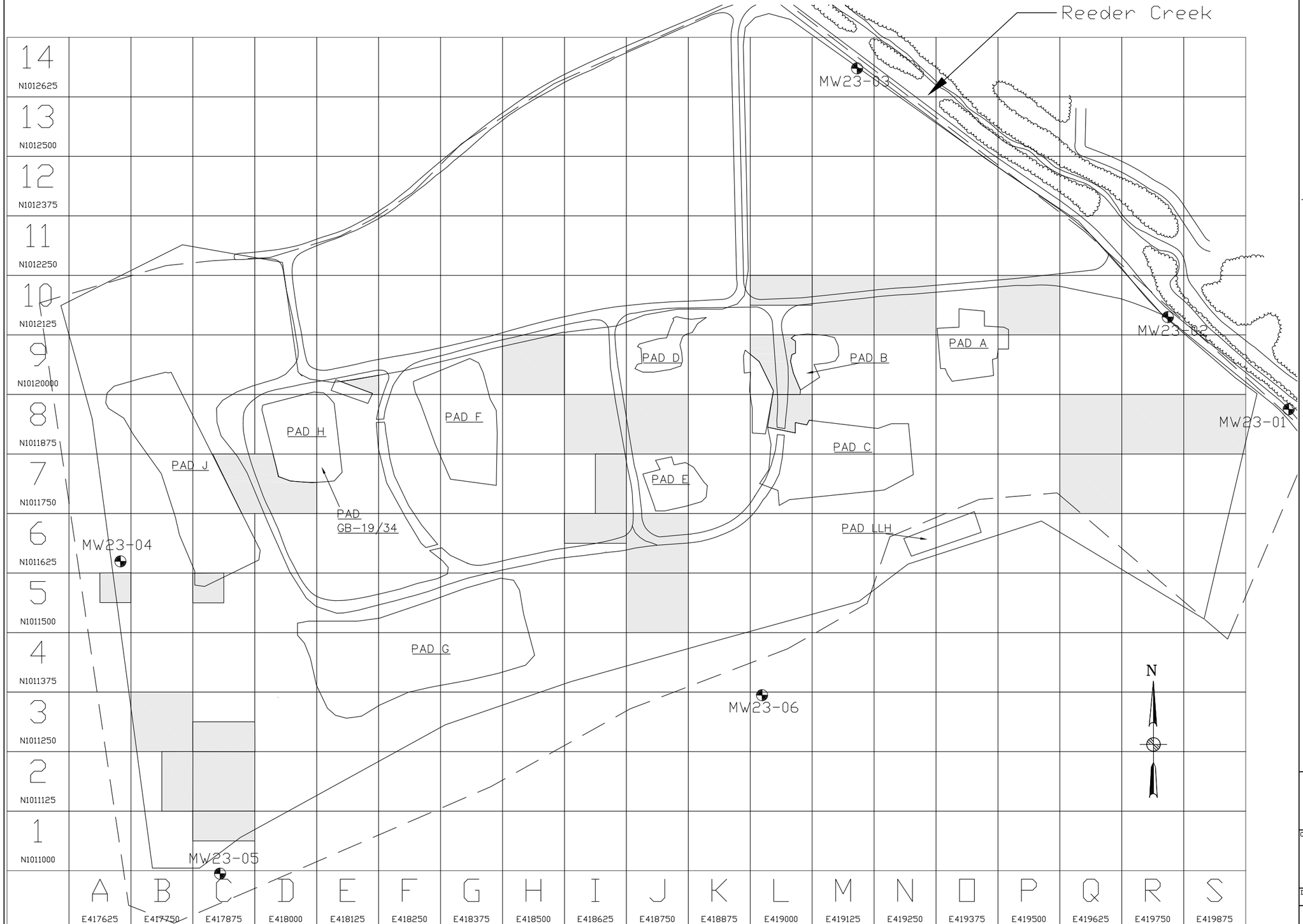


Note: Groundwater samples were collected on the following dates: November 21, 2007, February 25, 2008, May 21, 2008, August 26, 2008, and August 2, 2010.
All groundwater concentrations were below detection limits unless noted otherwise.

Figure 10
Concentrations of Lead and Copper at MW23-6
OB Grounds LTM 2010 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, and August 2, 2010.
All groundwater concentrations were below detection limits unless noted otherwise.



LEGEND

- Wells installed August 2004
- Area of 9-inch vegetative cover over soil. Having lead concentrations between 60 and 500 mg/ug. (Remedial Action, 1999-2004)
- Approximate Boundary and Extent of OB Grounds

PARSONS

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT
OPEN BURNING GROUNDS
LONG-TERM MONITORING 2010 ANNUAL REPORT

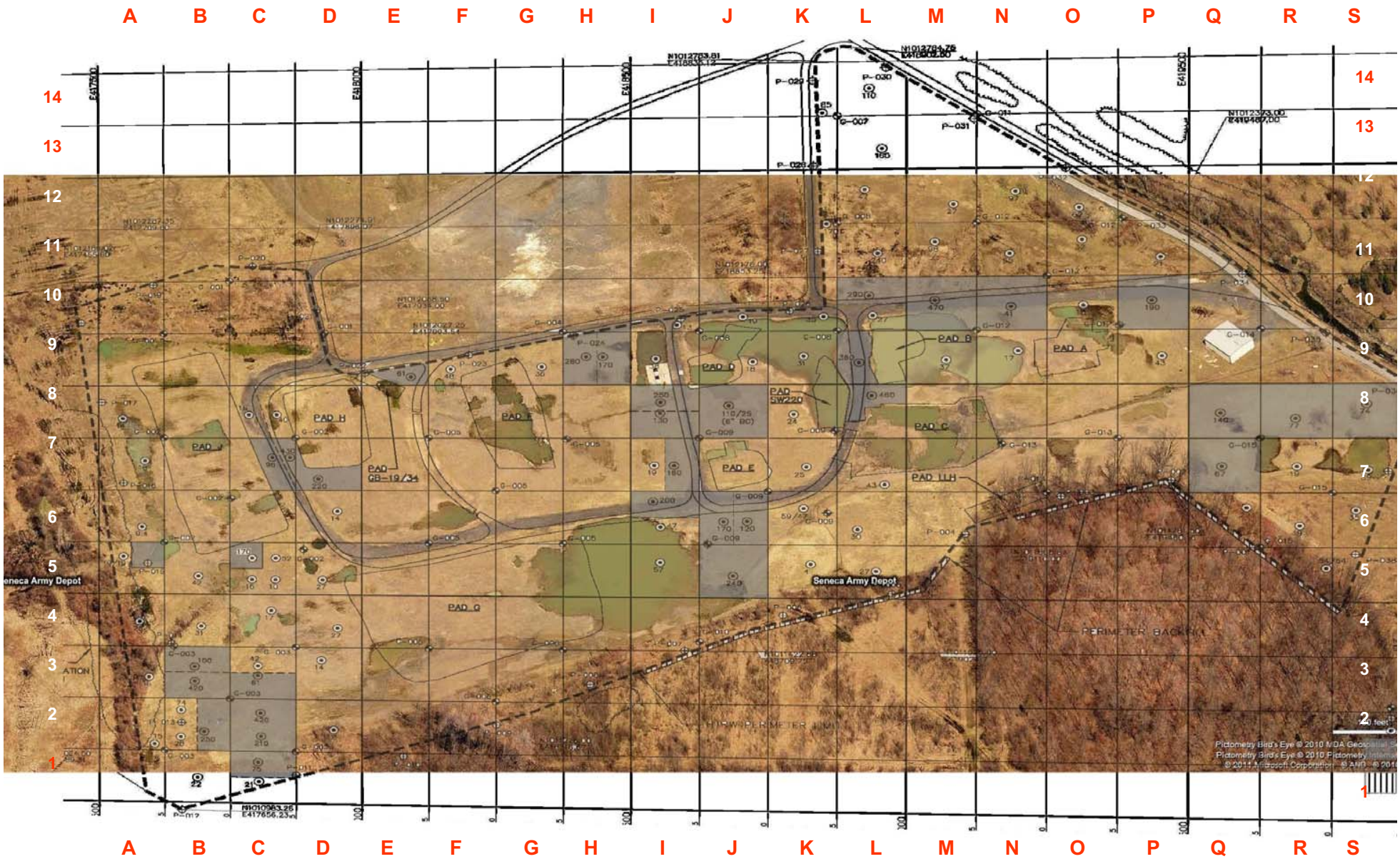
DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	747547-01100

FIGURE 11
OPEN BURNING GROUNDS
SOIL COVER AREAS AND WELL LOCATIONS

SCALE	DATE	REV
1" = 200'	OCTOBER 2010	-

\\bosfs02\PIT\Projects\Huntsville HTW\TO #36 OB & FTA Monitoring\OB LTM\LTM Quarter 1\Figures\FIGURE 11.DWG

Figure 12
OB Grounds Completion Report Map Overlain on Aerial Photo

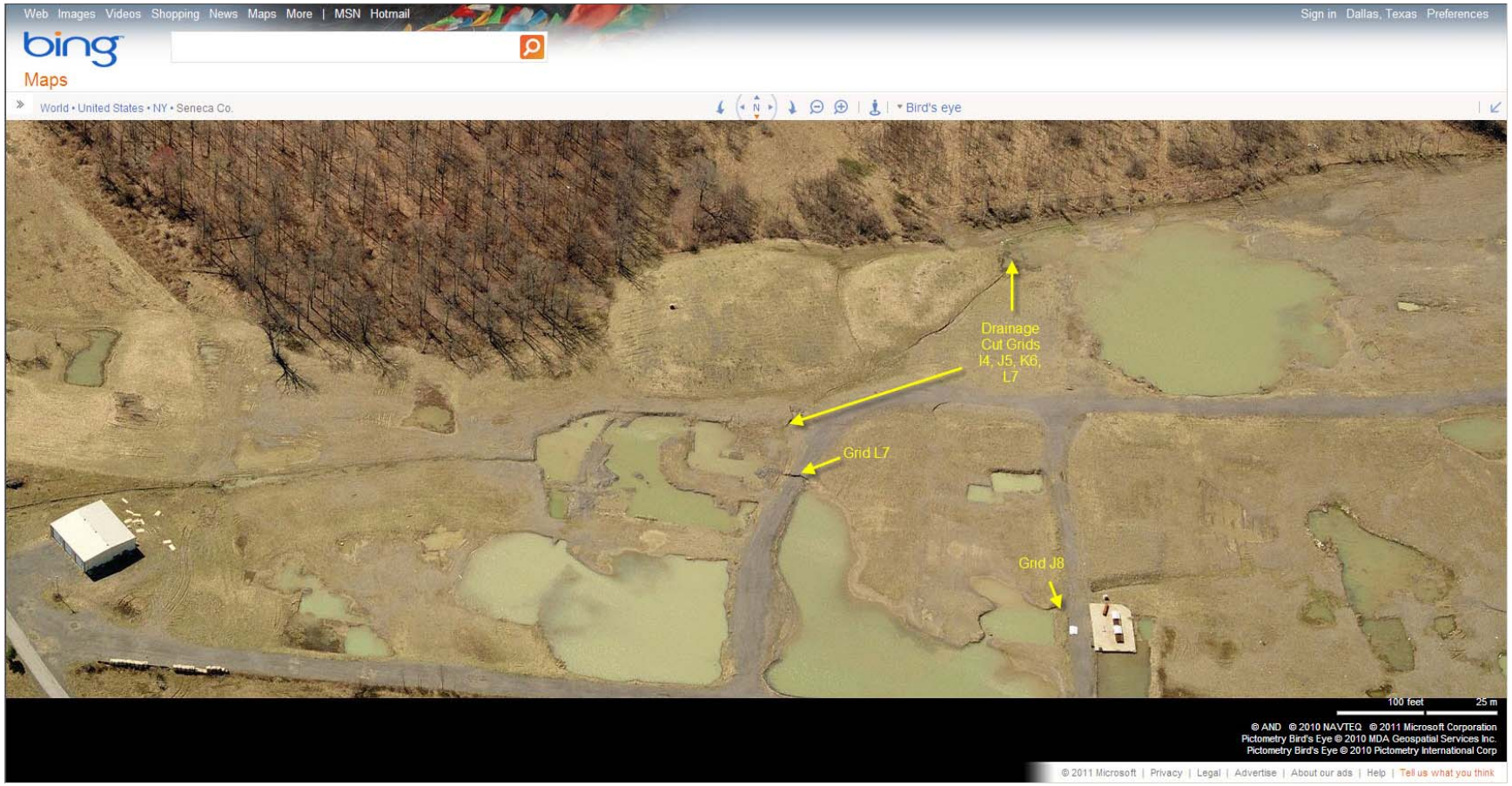


Location where lead contaminated soil interred

Map Source: Weston Solution, Inc. Completion Report, Soil and Sediment Remediation, Open burning Grounds, Seneca Army Depot, June 2005.

Aerial Photo Source: www.bing.com, March 2, 2011, Bird's eye view looking north.

Figure 13
Aerial View of OB Grounds with Approximate Locations of August 2010 Inspection Comments Identified



Aerial Photo Source: www.bing.com, March 2, 2011, Bird's eye view looking south .

PARSONS

SENECA ARMY DEPOT ACTIVITY
OB Grounds LTM
2010 Annual Report

Figure 14
Reeder Creek Inspection
Photo Locations

October 2010	Ver 1.0	BBO

P:\PIT\Projects\Huntsville Cont W912DY-08-D-0003\TO#08\GW Monit\OB Grounds\LTM Round 5 - August 2010\Photos\Reeder Creek Photos\Reader_Creek_map.mxd

APPENDICES

A	Open Burning Grounds Round 5 Field Forms
B	Log Book 08/05/2010 Notes and Transcript of Reeder Creek Inspection
C	Reeder Creek Inspection Photos
D	Laboratory Report
E	Data Validation

APPENDIX A

OPEN BURNING GROUNDS ROUND 5 FIELD FORMS

GROUNDWATER ELEVATION REPORT

PARSONS

CLIENT:

DATE: 8/2/10

PROJECT: CR Grounds LTM Round 5

LOCATION:

PROJECT NO: 8/2/10 BBO 8/2

INSPECTOR: BDO / SD

MONITORING EQUIPMENT

INSTRUMENT	DECTECTOR	BGD	TIME	REMARKS

WATER LEVEL INDICATOR:

INSTRUMENT	CORRECTION FACTOR

COMMENTS:

WELL	TIME	DEPTH TO WATER	DEPTH TO PRODUCT	CORRECTED WATER LEVEL	MEASURED POW	INSTALLED POW	PRODUCT SPEC GRAV	WELL STATUS / COMMENTS (Lock?, Well #? Surface Disturbance? Riser marked? Condition of riser, concrete protective casing, etc.)
23-1	927	12.06						
23-2	928	9.40						
23-3	931	9.97						
23-4	935	5.81						
23-5	939	7.51						no well cap
23-6	945	8.79						

(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 5
LOCATION: ROMULUS, NY

DATE: 8/3/10
INSPECTORS: DBO/SB
PUMP #: Peristaltic
SAMPLE ID #: OBLM20029

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
912	75F	scattered clouds				grassy	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
	15.5 + 0.2 = 15.7 Pole Tip					

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
		12.08			

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)
913	12.08	Pump	Started at						
920	12.21	~110		0.90	17.2	0.903	6.39	210	45
925	12.22			0.85	16.9	0.886	6.42	180	8.7
930	12.22	110		0.84	16.7	0.879	6.47	144	6.7
935	12.22	~165		0.82	16.7	0.873	6.53	81	5.5
940	12.28			0.81	16.5	0.871	6.60	52	3.9
945	12.28	~150		0.81	16.3	0.856	6.64	33	4.1
950	12.28			0.80	16.4	0.852	6.70	19	2.0
955	12.28			0.80	16.5	0.845	6.73	14	1.9
1000	12.28		~1.75 gals	0.80	16.4	0.845	6.75	10	1.7
1005	12.30	~155		0.79	16.5	0.843	6.76	8	1.6
1010	12.26			0.77	16.6	0.840	6.77	6	1.4
1015	12.29		2.3 gals	0.76	16.7	0.840	6.78	5	1.3
1016		Sample Collected							
			Sample ID	OBLM20029					
			Sample Time	1020					

increased flow rate

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW27-2

PROJECT: OB Grounds LTM Groundwater Sampling - Round 45
LOCATION: ROMULUS, NY

DATE: 8/3/10
INSPECTORS: BDO/SD
PUMP #: Peristaltic
SAMPLE ID #: OBLM20030

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
	75	partly sunny				grassy	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 +0.27					

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
		9.44'			

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)
9:44	Pump started at 1036			YSI	Horiba				LaMotte
1043	9.85	~150		0.36	17.2	0.602	7.15	109	31
1048	10.06	~200		0.02	16.8	0.601	7.11	108	12
decreased rate → 1053	10.18	220		0.01	17.0	0.612	7.10	107	8.3
1058	10.25	~160	0.75 gals	0.04	17.1	0.630	7.12	104	4.4
1103	10.30			0.03	17.4	0.633	7.12	102	2.7
1108	10.32	~150		0.02	17.4	0.632	7.14	101	2.4
1113	10.35		~1.5 gals	0.02	17.3	0.630	7.14	101	3.4
			~1.75 gals purged						
1117		Sample Collected							
			Sample ID	OBLM20030					
			Sample Time	1120					

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW23-3
PROJECT: OB Grounds LTM Groundwater Sampling - Round 15		DATE: 8/2/10
LOCATION: ROMULUS, NY		INSPECTORS: BBO/SD
		PUMP #: Peristaltic
		SAMPLE ID #: OBLM20031

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
1622	73	Partly cloudy				grassy	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
	14.90 + 0.27					

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
		9.96'			

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)
1626 ~~1426~~	9.96		Pump	Started at	YSI	Horiba				LaMotte
	1635	10.06	~154		0.0	17.7	0.611	7.09	-17	18
	1640	10.08	~162		0.0	17.6	0.600	7.01	-28	7.6
	1645	10.08		~1.0	0.07	17.3	0.596	6.99	-37	4.0
	1650	10.09			0.12	17.2	0.593	6.98	-39	2.6
	1655	10.09	~160		0.12	17.2	0.592	6.97	-40	1.9
	1700	10.09			0.10	17.3	0.590	6.97	-41	2.1
	1705	10.09			0.10	17.3	0.592	6.98	-42	1.6
	1710	10.09		~2.0 gals	0.10	17.2	0.590	6.97	-42	1.5
	1717		Sample Collected							
				Sample ID	OBLM20031					
				Sample Time	1717					

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW23-4

PROJECT: OB Grounds LTM Groundwater Sampling - Round # 5
LOCATION: ROMULUS, NY

DATE: 8/2/16
INSPECTORS: BBO/SD
PUMP #: Peristaltic
SAMPLE ID #: OBLM20032

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
1454	73	scattered clouds		5-10	SE-NW	grassy	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
	17.9 + 0.27					

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
		5.81			

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)
BBO/2 1453	5.81	Pump	Started	YSI	Horiba				Low flow
1500	6.97	103		0.23	18.9	0.681	7.56	41	15
1505	7.67			0.21	19.1	0.681	7.59	18	9.3
1510	7.89	104		0.22	18.9	0.673	7.59	-2	5.5
1515	8.48		~0.5 gals	0.16	18.5	0.664	7.53	-8	4.0
1520	8.89			0.12	18.4	0.658	7.49	-5	3.1
1525	9.25			0.11	18.1	0.655	7.47	-2	2.4
1530	9.73	~112	~1.0 gals	0.17	18.3	0.650	7.45	4	2.3
adjusted DO probe height → 1535	10.26			0.61	18.4	0.651	7.43	9	1.9
1545	10.58		~1.5 gals	0.46	18.0	0.649	7.45	13	2.5
air bubble observed in flow cell ← water line 1550	11.06	116		0.56	17.9	0.647	7.44	16	1.9
1555	11.31			0.59	17.7	0.647	7.43	19	1.8
1600	11.53		~2.0 gals	0.55	17.7	0.646	7.43	20	1.7
1605	11.76			0.52	17.8	0.645	7.42	22	1.6
1612		Sample	Collected						
			Sample ID	OBLM20032					
			Time 1612						

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW23-5

PROJECT: OB Grounds LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 8/2/10
INSPECTORS: BBO/SD
PUMP #: Peristaltic
SAMPLE ID #: OBLM20033/OBLM20034

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
1340	73	sunny cloudy				grassy	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
	17.43 +0.27					

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
		7.5'			

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)
1340	7.5'	Pump	Started,	YSI	Horiba				Lamotte
1345	8.48	~140		0.06	16.8	0.660	7.36	-62	3.0
1350	8.83			0.24	17.3	0.649	7.17	-39	2.0
1355	8.97	~140		0.05	16.6	0.654	7.12	-49	1.9
1400	9.05			0.04	16.8	0.645	7.11	-42	1.8
1405	9.14		~1.0 gals	0.07	17.0	0.636	7.05	-29	1.3
1410	9.20			0.20	17.0	0.634	7.04	-18	1.4
1415	9.24			0.24	17.0	0.632	7.03	-19	1.1
1420	9.19		~1.25 gals	0.27	17.2	0.631	7.03	-17	1.0
			Sample ID	OBLM20033		1428			
				OBLM20033MS		1428			
				OBLM20033MSD		1428			
				OBLM20034		1434	Dup		

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW23-6

PROJECT: OB Grounds LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 8/2/10
INSPECTORS: BDO / SD
PUMP #: Peristaltic
SAMPLE ID #: OBLM20035

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
953	~73	sunny scattered clouds		0-10	SW→NE	grassy	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) = [(FOW - STABILIZED WATER LEVEL) x (WELL DIAMETER FACTOR (GAL/FT))]
17.41 - 8.79 = 8.62 x .163 = 1.405 x 3 = 4.21 gals

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
	17.41					

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
		8.79			

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)
		Replaced water line tubing here							
1020	8.63	Pump Started							CLARITE
1025	10.47	~130		0.07	15.1	0.679	6.26	140	38
1030	11.14	~130		0.16	15.8	0.672	6.47	131	18
1035	11.83	~130		0.20	16.1	0.670	6.72	95	6.6
1040	12.38			0.20	16.0	0.672	6.80	85	4.8
1045	12.75		~1 gal	0.20	16.1	0.677	6.93	72	4.0
10:50	12.85	102		0.30	16.4	0.655	7.04	67	2.9
10:55	13.15		~1.3 gal	0.43	16.4	0.653	7.06	69	3.2
1110	13.45	108		0.29	16.3	0.653	7.07	72	3.9
1115	13.71			0.28	16.3	0.655	7.07	71	2.3
1120	13.97		~2 gals	0.26	16.1	0.659	7.06	71	2.7
1130	Sample Collected				Accidently disconnected water line before peristaltic pump water line fell down, once reconnected water line water was turbid.				
		Sample ID	OBLM20035						
	BDO 8/2/10	Sample Time	1130						
1136	14.53	~106	~2.3 gals	0.14	16.3	0.670	7.10	77	90
1141	14.75			0.16	16.5	0.664	7.13	72	19
1146	14.92			0.15	16.4	0.668	7.15	68	11

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW23-6

PROJECT: OB Grounds LTM Groundwater Sampling - Round 6
LOCATION: ROMULUS, NY

DATE: 8/2/10
INSPECTORS: DDO/SD
PUMP #: Peristaltic
SAMPLE ID #: OBLM20035

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

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

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

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)
1153	15.25	90		14.50.14	16.3	0.668	7.19	66	14
1159	15.44			0.11	15.9	0.671	7.21	64	24
1206	15.67	110	~3.0 gal	0.12	15.8	0.667	7.20	61	20
1214	15.97	110		0.10	15.7	0.663	7.23	58	11
1220	16.2			0.07	15.5	0.661	7.25	55	70
1224		Stopped pump due to need to get in line filter for collecting Filtered & Unfiltered samples. Have ~ 1.5 ft of water left in well.							
1317		Called Jeff Adams to inform him of turbidity issue. He Advised to demob from well and come back tomorrow to give turbidity time to settle down.							

BBO 8/3
Page 1 of 1

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY	PARSONS	WELL #: MW23-6

PROJECT: OB Grounds LTM Groundwater Sampling - Round 5
LOCATION: ROMULUS, NY

DATE: 8/3/10
INSPECTORS: BBO/SP
PUMP #: Peristaltic
SAMPLE ID #: OBLM20035

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	WIND (FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING INSTRUMENT	MONITORING DETECTOR
1133	75	Scattered clouds				grassy	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
	17.41 + 0.27 probe stick up					

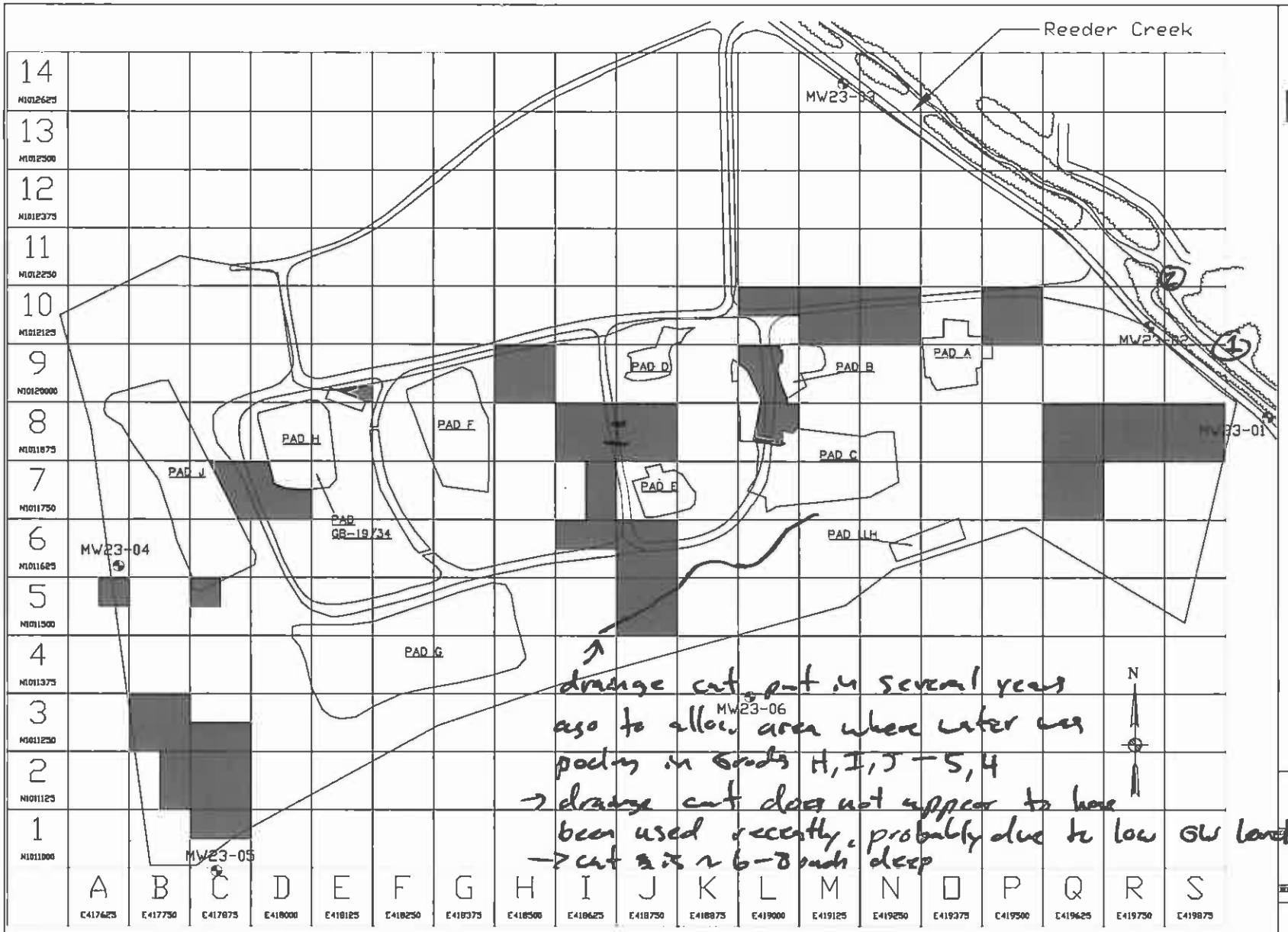
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
		9.28'			

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)
1137	9.28	Pump	Started at						
1142	10.66	~140		4.53	15.7	0.718	7.28	195	22
1147	10.88	~100		2.73	16.0	0.709	7.17	198	19
1152	11.46			2.74	16.6	0.708	7.17	196	15
1157	12.07	~102		2.83	16.7	0.707	7.22	192	11
1202	12.54		~0.5 gals	2.84	17.1	0.709	7.24	189	8.9
1207	12.78			2.87	17.2	0.702	7.25	186	7.1
1212	12.98	~102		2.98	17.0	0.702	7.25	185	6.1
1217	13.16		~1.0 gals	3.10	16.8	0.704	7.25	185	7.0
1222	13.36			3.27	16.8	0.703	7.25	185	6.2
1227	13.56			3.28	16.7	0.702	7.25	185	5.0
1232	13.79		~1.5 gals	3.37	16.6	0.706	7.23	186	7.4
1237	14.10			3.24	16.7	0.708	7.23	187	10
			~1.75 gals						
1240		Sample	Collected						
			Sample ID	OBLM20035					
			Sample Time	1243					

flowrate decrease →



LEGEND

Wells installed August 2004

Area of 9-inch vegetative cover over soil. Having lead concentrations between 60 and 500 mg/ug. (Remedial Action, 1999-2004)

Photo #

1- erosion on other bank

2- Beaver dam

PARSONS

SENECA ARMY DEPOT
OPEN BURNING GROUNDS
LONG-TERM MONITORING REPORT

ENVIRONMENTAL ENGINEERING | Proj. No. 745818-08000

FIGURE 10
OPEN BURNING GROUNDS
SOIL CAP AREAS AND WELL LOCATIONS

SCALE 1" = 800' | DATE FEBRUARY 2008 | REV -

OB Grounds
Task Order #36
Round 2 Inspection

Date of Inspection: 8/5/2010
Weather Conditions: sunny, mix of clouds, Temps low 80's. wind N→5 scattered rain showers earlier this morning. now clear.

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 indegenous 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.

	Grid No.	Observations/Location of Disturbed Soils
1	A5	No Animal holes were observed
2	C5	" "
3	B3	No Animal holes were observed
4	B2	" "
5	C3	" "
6	C2	" "
7	C1	" "
8	C7	" "
9	D7	" "
10	E9	" "
11	H9	" "
12	I6	No Animal holes observed
13	I7	" "
14	I8	No Animal holes observed
15	J5	No Animal holes observed. Drainage cut, see map
16	J6	No Animal holes observed
17	J8	No Animals holes observed. surface water erosion adjacent to covert

↳ surface water erosion opposite OB pad.

OB Grounds
Task Order #36
Round 2 Inspection

	Grid No.	Observations/Location of Disturbed Soils
18	L8	No Animal holes observed. Erosion of road L8/LL area still present from past
19	L9	No Animal holes observed
20	L10	No Animal holes observed
21	M10	" "
22	N10	" "
23	P10	No Animal holes observed.
24	Q7	~~Not~~ No animal holes observed
25	Q8	" "
26	R8	No animal holes observed
27	S8	" "

Inspector Does not appear to have significantly change from 08 Inspections

APPENDIX B

LOG BOOK NOTES AND TRANSCRIPTS

OF REEDER CREEK INSPECTION

8/5/10 82° F Mostly cloudy

for GW recharge.
Jeff A. may want us to stay extra night and check GW levels Tomorrow morning and sample if possible.

1323 Arrived at OB Grounds to conduct Soil cap inspection or Reeder Creek inspection.

1450 Soil Cap inspection completed. No animal holes were observed in any of inspected Grids.
→ The drainage cut in Grids H, I, J TSBG 8/5 4&5 that has previously been observed in soil cap inspections is still present. Cut is ~6-8 inches in depth, But no signs of recent run off were observed.
→ Grid J8 has some surface water runoff erosion from road surface into low spot where water collects. Also observed was erosion adjacent to a

8/5/10

existing culvert pipe. Erosion appears to be due to surface water run off.
→ Grid L8 still have drainage cut in road to allow water to drain from west side of road to the east. Cut has been observed in past inspection. But does not appear to have grown in size or depth.

1540 Complete Reader Creek inspection.
- started at North Treeline edge of the OD Grounds and walked upstream along the creek bed.
→ observed exposed bedrock shale at bottom of creek in numerous locations.
→ light brown color silt / thin sediment like material observed in area where the stream flow has pooled due to outcrops in the exposed bedrock. material is only a few millimeter thick and

surface beneath it appears to be competent bedrock/shale.
→ locations where the bedrock outcrops are exposed bedrock with no brown slim material present, probably due to the constant flowing water.
⇒ Exit Reeder Creek ~100 North of MW23-3. Beaver dam is located at about same location as MW23-1

→ Re-entered Reeder Creek near garage building ~150ft South of Beaver dam, does appear to be same dam, ~~last~~ 300 8/5. Exposed shale was visible however the water appears to be deeper than a foot. Brown slim/sediment like material is also present. Probably due to the Beaver dam prevents the normal stream flow.

→ Unable to gain access to creek area between MW23-1 and garage building due to steep drop off and thick vegetation along the overlooking bank.
→ was able to gain access to creek ~100 ft South of MW23-1. This area does not appear to have been part of the removal action. Bedrock is not visible and the creek bed has sediment/muddy creek bottom.

1614 Called Jeff Adams to report finding of Soil cap inspection and Reeder Creek Inspection. Photo documentation of creek was taken

1620 Depart OB Grounds for SEAD-25 to check GW recharge at wells.

1630 Arrived at S-25.

		Time
MW25-9	5.34' depth to water	1635
MW25-8	5.38' depth to water	1636

1640 Returned to field office to pack Samples for shipment.

Appendix B
Transcript of Log Book notes from 8/5/2010 Reeder Creek inspection
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Note: implied words or missing suffixes have been included in (###)

1540 – Completed Reader Creek inspection

- Started at north tree line edge of the OD Grounds and walked upstream along the creek bed.
- Observed exposed bedrock shale at bottom of creek in numerous locations.
- Light brown color slim/thin sediment like material observed in area(s) where the stream flow has pooled due to outcrops in the exposed bedrock. Material is only a few millimeter thick and surface beneath it appears to be competent bedrock/shale.
- Locations where the bedrock outcrop are exposed(,) bedrock with no brown slim material present, probably due to the constant flowing water
- Exit Reeder Creek ~100 (ft) north of MW23-3. Beaver dam is located at about same location as MW23-1 (correction MW23-2)
- Re-entered Reeder Creek near garage building ~150 ft south of beaver dam, does not appear to be same dam (statement is incorrect, only a single beaver dam was observed). Exposed shale was visible however the water appears to be deeper than a foot. Brown slim/sediment like material is also present. Probably due to the beaver dam preventing the normal stream flow.
- Unable to gain access to creek area between MW23-1 and garage building due to steep drop off and thick vegetation along the overlooking bank (OB Grounds side of bank).
- Was able to gain access to creek ~100 ft south of MW23-1. This area does not appear to have been part of the removal action. Bedrock is not visible and the creek bed has sediment/muddy creek bottom.

APPENDIX C

REEDER CREEK INSPECTION PHOTOS

Appendix C
Reeder Creek Inspection
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Photo #01 - Downgradient of MW23-3, looking up stream

Appendix C
Reeder Creek Inspection
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Photo #02 – Parallel to MW23-3, looking up stream.
Water was greater than 2 feet deep.

Appendix C
Reeder Creek Inspection
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Photo #03 – Upgradient of MW23-3, looking down stream

Appendix C
Reeder Creek Inspection
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Photo #04 - Downgradient side of beaver dam and MW23-2, looking up stream

Appendix C
Reeder Creek Inspection
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Photo #05 - Upgradient side of beaver dam (center of photo) and parallel to MW23-2, looking down stream

Appendix C
Reeder Creek Inspection
OB Grounds LTM 2010 Annual Report
Seneca Army Depot Activity

Photo #06 – Downgradient to MW23-1, looking up stream. Water was greater than 2 feet deep.

APPENDIX D

LABORATORY REPORT

Columbia Analytical Services™ 1 Mustard Street, Suite 250 | Rochester, NY 14609 | 585-288-5380 | 585-288-8475 fax | www.caslab.com

August 27, 2010

Service Request No: R1004141

Mr. Brendan Baranek-Olmstead
Parsons Engineering Science
100 High St. 4th Floor
Boston, MA 02110

Laboratory Results for: SEAD OB Grounds/747547-01100

Dear Mr. Baranek-Olmstead:

Enclosed are the results of the sample(s) submitted to our laboratory on August 4, 2010. For your reference, these analyses have been assigned our service request number **R1004141**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 129. You may also contact me via email at MPerry@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Michael Perry
Laboratory Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Parsons Engineering Science	**Service Request No.:**	R1004141
Project:	SEAD OB Grounds	**Project No.:**	747547-01100
Sample Matrix:	Water	**Date Received:**	8/04/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV, ASP-B deliverables. When appropriate to the method, method blank, and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 8/03/10 and received at CAS on 8/04/10 in good condition at cooler temperature of 6 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Metals Analysis

Seven water samples were analyzed for Copper and Lead using SW-846 ICP method 6010B. The data between the MDL and the specified MRL has been flagged with a "J".

The initial and continuing calibration criteria were met for all analytes.

All blank spike (LCS) recoveries were within QC limits of 80 – 120 %.

The matrix spike and duplicate analysis was performed on sample OBLM20033, as requested. All Matrix Spike Recoveries were within QC limits of 75 – 125 %. The RPD were all within QC limits.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry
Laboratory Manager

8/27/10
Date

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 747547-01100	Batch Complete: Yes	Date Revised:
Submission: R1004141	Diskette Requested: No	Date Due: 8/25/10
Client: Parsons Engineering Science	Date: 8/6/10	Protocol: SW846
Client Rep: MPERRY	Custody Seal: Present/Absent:	Shipping No.:
Project: SEAD OB Grounds	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1004141-001	OBLM20029	Water	6010B	8/3/10	8/4/10			
R1004141-002	OBLM20030	Water	6010B	8/3/10	8/4/10			
R1004141-003	OBLM20031	Water	6010B	8/2/10	8/4/10			
R1004141-004	OBLM20032	Water	6010B	8/2/10	8/4/10			
R1004141-005QC	OBLM20033	Water	6010B	8/2/10	8/4/10			
R1004141-006	OBLM20034	Water	6010B	8/2/10	8/4/10			
R1004141-007	OBLM20035	Water	6010B	8/3/10	8/4/10			

Folder Comments:

Columbia Analytical Services™

REPORT QUALIFIERS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Navy Facilities Engineering Service Center Approved
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

CAS/Rochester
1 Mustard St., suite 250
Rochester, NY 14609
ph.:585-288-5380
fax: 585-288-8475
e-mail: mperry@rochester.caslab.c

Serial or COC #: 03-08-10_2
Possible Hazards: Unknown
Sample Disposal: Lab Disposal

PROJECT & CLIENT INFORMATION

PROJECT REFERENCE/NAME: Open Burning (OB) Grounds Long Term Monitoring	PROJECT NO.: 747547-01100	Project State: NY
LAB PROJECT MANAGER: Mike Perry	P.O. NUMBER: 747547-01100	CONTRACT/Quote NO.: 747547-01100
CLIENT (SITE) PM: Jeff Adams/Brendan Baranek-Olmstead	CLIENT PHONE: 617-449-1522	CLIENT FAX: 617-946-9777
CLIENT NAME: Parsons	CLIENT EMAIL: Brendan.Baranek-Olmstead@parsons.com	
CLIENT ADDRESS: 100 High Street, 4th Floor, Boston, MA 02110		
Samplers Signature & Initials:		

PAGE 1 OF 1

Final Report Type (Circle at least one): ASP2000 Category B
EDD 15 business days
TAT/ DATE DUE 15 business days Per QAP/Quote
EXPEDITED REPORT (circle one)
FAX EMAIL POST Other
TAT/ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLED ON DATE	SAMPLED ON TIME	SAMPLE IDENTIFICATION	LABORATORY SAMPLE ID	SAMPLE TYPE	FIELD FILTERED	MATRIX	Method 6010B - Copper and Lead	REMARKS
							NUMBER OF CONTAINERS SUBMITTED	
							1	
8/3/2010	1020	OBLM20029			N	GW	1	1. Run straight sample analysis (without dilution) for every sample. 2. RLs for copper and lead should be less than 25 ug/L and 20 ug/L for copper and lead, respectively.
8/3/2010	1120	OBLM20030			N	GW	1	
8/2/2010	1717	OBLM20031			N	GW	1	
8/2/2010	1612	OBLM20032			N	GW	1	
8/2/2010	1428	OBLM20033			N	GW	1	
8/2/2010	1428	OBLM20033MS			N	GW	1	
8/2/2010	1428	OBLM20033MSD			N	GW	1	
8/2/2010	1434	OBLM20034			N	GW	1	
8/3/2010	1243	OBLM20035			N	GW	1	
								Preservative
								1 HNO_3

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/3/10	1746						
RECEIVED BY: (SIGNATURE) Tamm Wood	DATE 8/4/10	TIME 0940	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LABORATORY REMARKS:

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

CAS/Rochester
1 Mustard St., suite 250
Rochester, NY 14609
ph.:585-288-5380
fax: 585-288-8475
e-mail: mperry@rochester.caslab.c

Serial or COC #: 03-08-10_2
Possible Hazards: Unknown
Sample Disposal: Lab Disposal

PROJECT & CLIENT INFORMATION

PROJECT REFERENCE/NAME: Open Burning (OB) Grounds Long Term Monitoring	PROJECT NO.: 747547-01100	Project State: NY
LAB PROJECT MANAGER: Mike Perry	P.O. NUMBER: 747547-01100	CONTRACT/Quote NO.: 747547-01100
CLIENT (SITE) PM: Jeff Adams/Brendan Baranek-Olmstead	CLIENT PHONE: 617-449-1522	CLIENT FAX: 617-946-9777
CLIENT NAME: Parsons	CLIENT EMAIL: Brendan.Baranek-Olmstead@parsons.com	
CLIENT ADDRESS: 100 High Street, 4th Floor, Boston, MA 02110		
Samplers Signature & Initials:		

PAGE 1 OF 1

Final Report Type (Circle at least one): ASP2000 Category B
EDD 15 business days
TAT/ DATE DUE 15 business days Per QAP/Quote
EXPEDITED REPORT (circle one)
FAX EMAIL POST Other
TAT/ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLED ON DATE	SAMPLED ON TIME	SAMPLE IDENTIFICATION	LABORATORY SAMPLE ID	SAMPLE TYPE	FIELD FILTERED	MATRIX	Method 6010B - Copper and Lead	REMARKS
							NUMBER OF CONTAINERS SUBMITTED	
							1	
8/3/2010	1020	OBLM20029			N	GW	1	1. Run straight sample analysis (without dilution) for every sample. 2. RLs for copper and lead should be less than 25 ug/L and 20 ug/L for copper and lead, respectively.
8/3/2010	1120	OBLM20030			N	GW	1	
8/2/2010	1717	OBLM20031			N	GW	1	
8/2/2010	1612	OBLM20032			N	GW	1	
8/2/2010	1428	OBLM20033			N	GW	1	
8/2/2010	1428	OBLM20033MS			N	GW	1	
8/2/2010	1428	OBLM20033MSD			N	GW	1	
8/2/2010	1434	OBLM20034			N	GW	1	Preservative
8/3/2010	1243	OBLM20035			N	GW	1	
								1 HNO_3

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/3/10	1746						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	8/4/10	0940						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LABORATORY REMARKS:

Cooler Receipt And Preservation Check Form

Project/Client Parsons - Seneca Meadows 8/14/10 DPW Submission Number R10-4141

Cooler received on 8/14/10 by: DPW COURIER: CAS UPS ~~FEDEX~~ VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	~~YES~~	NO			
2.	Were custody papers properly filled out (ink, signed, etc.)?	~~YES~~	NO			
3.	Did all bottles arrive in good condition (unbroken)?	~~YES~~	NO			
4.	Did any VOA vials have significant* air bubbles?	YES	~~NO~~	N/A		
5.	Were ~~Ice~~ or Ice packs present?	~~YES~~	NO			
6.	Where did the bottles originate?	CAS/~~ROC~~, CLIENT				
7.	Temperature of cooler(s) upon receipt:	6.0°				
	Is the temperature within 0° - 6° C?:	~~Yes~~	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 8/14/10 / 0946

Thermometer ID: IR GUN#3 / IR ~~GUN#4~~ Reading From: Temp Blank / ~~Sample Bottle~~

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: MMP 8/14/10

Cooler Breakdown: Date: 8/14/10 by: MMC

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	~~YES~~	NO
2.	Did all bottle labels and tags agree with custody papers?	~~YES~~	NO
3.	Were correct containers used for the tests indicated?	~~YES~~	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		~~N/A~~

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH				
≤2	HNO_3	✓		BDB2103H	6/11
≤2	H_2SO_4				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-		
	HCl	*	*		

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 070510-2AA

Other Comments: _____

Secondary Review: MMP 8/27/10

*significant air bubbles are greater than 5-6 mm

Columbia Analytical Services

METALS

COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: R1004141 SDG No.: OBLM20029

Lab Code: _____ Case No.: _____ SAS No.: _____

SOW No.: SW846 CLP-M

Sample ID.	Lab Sample No.
OBLM20029	R1004141-001
OBLM20030	R1004141-002
OBLM20031	R1004141-003
OBLM20032	R1004141-004
OBLM20033	R1004141-005
OBLM20033D	R1004141-005D
OBLM20033S	R1004141-005S
OBLM20034	R1004141-006
OBLM20035	R1004141-007

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See Attatched Case Narrative

Signature: _____ Name: Michael Perry

Date: 8/20/10 Title: Laboratory Director

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OBLM20029

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-001

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.5	J		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20030

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-002

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.8	J		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20031

Contract: R1004141
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029
Matrix (soil/water): WATER Lab Sample ID: R1004141-003
Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.3	J		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OBLM20032

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-004

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.7	J		P
7439-92-1	Lead	2.7	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20033

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-005

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	1.6	U		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OBLM20034

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-006

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	1.7	J		P
7439-92-1	Lead	2.4	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OBLM20035

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-007

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	4.3	J		P
7439-92-1	Lead	3.6	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-3-

BLANKS

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper	5.014	J	4.222	J	3.681	J	9.367	J	1.620	U	P
Lead	1.870	U	1.870	U	1.870	U	1.870	U	1.870	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper			7.160	J	3.220	J	3.394	J			P
Lead			1.870	U	1.870	U	1.870	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper			3.670	J							P
Lead			1.870	U							P

Comments:

Columbia Analytical Services

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

OBLM20033S

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75 - 125	250.00		1.62	U	250.0	100		P
Lead	75 - 125	532.00		1.87	U	500.00	106		P

Comments:

METALS
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.: OBLM20033A

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Copper		247.00		1.62	U	250.0	99		P
Lead		518.00		1.87	U	500.0	104		P

Comments:

METALS
-6-
DUPLICATES

SAMPLE NO.

OBLM20033D

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Copper		1.62	U	1.62	U			P
Lead		1.87	U	1.87	U			P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Copper	250	258	103					
Lead	500	507	101					

Comments: _____

Columbia Analytical Services
1 Mustard Street, Suite 250 | Rochester, NY 14609 | 585-288-5380 | 585-288-8475 fax | www.caslab.com

August 27, 2010 Service Request No: R1004141

Mr. Brendan Baranek-Olmstead
Parsons Engineering Science
100 High St. 4th Floor
Boston, MA 02110

Laboratory Results for: SEAD OB Grounds/747547-01100

Dear Mr. Baranek-Olmstead:

Enclosed are the results of the sample(s) submitted to our laboratory on August 4, 2010. For your reference, these analyses have been assigned our service request number **R1004141**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 129. You may also contact me via email at MPerry@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Michael Perry
Laboratory Manager

SDG NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Parsons Engineering Science	**Service Request No.:**	R1004141
Project:	SEAD OB Grounds	**Project No.:**	747547-01100
Sample Matrix:	Water	**Date Received:**	8/04/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV, ASP-B deliverables. When appropriate to the method, method blank, and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 8/03/10 and received at CAS on 8/04/10 in good condition at cooler temperature of 6 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Metals Analysis

Seven water samples were analyzed for Copper and Lead using SW-846 ICP method 6010B. The data between the MDL and the specified MRL has been flagged with a "J".

The initial and continuing calibration criteria were met for all analytes.

All blank spike (LCS) recoveries were within QC limits of 80 – 120 %.

The matrix spike and duplicate analysis was performed on sample OBLM20033, as requested. All Matrix Spike Recoveries were within QC limits of 75 – 125 %. The RPD were all within QC limits.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry
Laboratory Manager

8/27/10
Date

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 747547-01100	Batch Complete: Yes	Date Revised:
Submission: R1004141	Diskette Requested: No	Date Due: 8/25/10
Client: Parsons Engineering Science	Date: 8/6/10	Protocol: SW846
Client Rep: MPERRY	Custody Seal: Present/Absent:	Shipping No.:
Project: SEAD OB Grounds	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1004141-001	OBLM20029	Water	6010B	8/3/10	8/4/10			
R1004141-002	OBLM20030	Water	6010B	8/3/10	8/4/10			
R1004141-003	OBLM20031	Water	6010B	8/2/10	8/4/10			
R1004141-004	OBLM20032	Water	6010B	8/2/10	8/4/10			
R1004141-005QC	OBLM20033	Water	6010B	8/2/10	8/4/10			
R1004141-006	OBLM20034	Water	6010B	8/2/10	8/4/10			
R1004141-007	OBLM20035	Water	6010B	8/3/10	8/4/10			

Folder Comments:

Columbia Analytical Services INC

REPORT QUALIFIERS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Navy Facilities Engineering Service Center Approved
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

CHAINS OF CUSTODY

INTERNAL CHAINS

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

CAS/Rochester
1 Mustard St., suite 250
Rochester, NY 14609
ph.:585-288-5380
fax: 585-288-8475
e-mail: mperry@rochester.caslab.c

Serial or COC #: 03-08-10_2
Possible Hazards: Unknown
Sample Disposal: Lab Disposal

PROJECT & CLIENT INFORMATION

PROJECT REFERENCE/NAME: Open Burning (OB) Grounds Long Term Monitoring	PROJECT NO.: 747547-01100	Project State: NY
LAB PROJECT MANAGER: Mike Perry	P.O. NUMBER: 747547-01100	CONTRACT/Quote NO.: 747547-01100
CLIENT (SITE) PM: Jeff Adams/Brendan Baranek-Olmstead	CLIENT PHONE: 617-449-1522	CLIENT FAX: 617-946-9777
CLIENT NAME: Parsons	CLIENT EMAIL: Brendan.Baranek-Olmstead@parsons.com	
CLIENT ADDRESS: 100 High Street, 4th Floor, Boston, MA 02110		
Samplers Signature & Initials:		

PAGE 1 OF 1

Final Report Type (Circle at least one): ASP2000 Category B
EDD 15 business days
TAT/ DATE DUE 15 business days Per QAP/Quote
EXPEDITED REPORT (circle one)
FAX EMAIL POST Other
TAT/ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLED ON DATE	SAMPLED ON TIME	SAMPLE IDENTIFICATION	LABORATORY SAMPLE ID	SAMPLE TYPE	FIELD FILTERED	MATRIX	Method 6010B - Copper and Lead	REMARKS
							NUMBER OF CONTAINERS SUBMITTED	
							1	
8/3/2010	1020	OBLM20029			N	GW	1	1. Run straight sample analysis (without dilution) for every sample. 2. RLs for copper and lead should be less than 25 ug/L and 20 ug/L for copper and lead, respectively.
8/3/2010	1120	OBLM20030			N	GW	1	
8/2/2010	1717	OBLM20031			N	GW	1	
8/2/2010	1612	OBLM20032			N	GW	1	
8/2/2010	1428	OBLM20033			N	GW	1	
8/2/2010	1428	OBLM20033MS			N	GW	1	
8/2/2010	1428	OBLM20033MSD			N	GW	1	
8/2/2010	1434	OBLM20034			N	GW	1	Preservative
8/3/2010	1243	OBLM20035			N	GW	1	
								1 HNO_3

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/3/10	1746						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	8/4/10	0940						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LABORATORY REMARKS:

19997

R1004141
Parsons Engineering Science
SEAD OB Grounds

Original - Return to Laboratory with Sample(s)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

CAS/Rochester
1 Mustard St., suite 250
Rochester, NY 14609
ph.:585-288-5380
fax: 585-288-8475
e-mail: mperry@rochester.caslab.c

Serial or COC #: 03-08-10_2
Possible Hazards: Unknown
Sample Disposal: Lab Disposal

PROJECT & CLIENT INFORMATION

PROJECT REFERENCE/NAME: Open Burning (OB) Grounds Long Term Monitoring	PROJECT NO.: 747547-01100	Project State: NY
LAB PROJECT MANAGER: Mike Perry	P.O. NUMBER: 747547-01100	CONTRACT/Quote NO.: 747547-01100
CLIENT (SITE) PM: Jeff Adams/Brendan Baranek-Olmstead	CLIENT PHONE: 617-449-1522	CLIENT FAX: 617-946-9777
CLIENT NAME: Parsons	CLIENT EMAIL: Brendan.Baranek-Olmstead@parsons.com	
CLIENT ADDRESS: 100 High Street, 4th Floor, Boston, MA 02110		
Samplers Signature & Initials:		

PAGE 1 OF 1

Final Report Type (Circle at least one): ASP2000 Category B
EDD 15 business days
TAT/ DATE DUE 15 business days Per QAP/Quote
EXPEDITED REPORT (circle one)
FAX EMAIL POST Other
TAT/ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLED ON DATE	SAMPLED ON TIME	SAMPLE IDENTIFICATION	LABORATORY SAMPLE ID		SAMPLE TYPE	FIELD FILTERED	MATRIX	REQUIRED ANALYSES: Method 6010B - Copper and Lead	REMARKS
								NUMBER OF CONTAINERS SUBMITTED: 1	
8/3/2010	1020	OBLM20029			N	GW	1		1. Run straight sample analysis (without dilution) for every sample. 2. RLs for copper and lead should be less than 25 ug/L and 20 ug/L for copper and lead, respectively.
8/3/2010	1120	OBLM20030			N	GW	1		
8/2/2010	1717	OBLM20031			N	GW	1		
8/2/2010	1612	OBLM20032			N	GW	1		
8/2/2010	1428	OBLM20033			N	GW	1		
8/2/2010	1428	OBLM20033MS			N	GW	1		
8/2/2010	1428	OBLM20033MSD			N	GW	1		
8/2/2010	1434	OBLM20034			N	GW	1		Preservative
8/3/2010	1243	OBLM20035			N	GW	1		
									1 HNO_3

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/3/10	1746						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	8/4/10	0940						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LABORATORY REMARKS:

Cooler Receipt And Preservation Check Form

Project/Client Parsons - Semiconductors 8/4/10 DPW Submission Number R10-4141

Cooler received on 8/4/10 by: DPW COURIER: CAS UPS ~~FEDEX~~ VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	~~YES~~	NO		
2.	Were custody papers properly filled out (ink, signed, etc.)?	~~YES~~	NO		
3.	Did all bottles arrive in good condition (unbroken)?	~~YES~~	NO		
4.	Did any VOA vials have significant* air bubbles?	YES	~~NO~~	N/A	
5.	Were ~~Ice~~ or Ice packs present?	~~YES~~	NO		
6.	Where did the bottles originate?	CAS/~~ROC~~, CLIENT			
7.	Temperature of cooler(s) upon receipt:	6.0°			
	Is the temperature within 0° - 6° C?:	~~Yes~~	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 8/4/10 / 0946

Thermometer ID: IR GUN#3 / IR ~~GUN#4~~ Reading From: Temp Blank / ~~Sample Bottle~~

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: MMP 8/4/10

Cooler Breakdown: Date: 8/4/10 by: MWC

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	~~YES~~	NO
2.	Did all bottle labels and tags agree with custody papers?	~~YES~~	NO
3.	Were correct containers used for the tests indicated?	~~YES~~	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		N/A

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH				
≤2	HNO_3	✓		BDB2103H	6/11
≤2	H_2SO_4				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-		
	HCl	*	*		

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 070510-2AA

Other Comments:

PC Secondary Review: MMP 8/27/10

*significant air bubbles are greater than 5-6 mm

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: Parsons Engineering Science
Project: SEAD OB Grounds/747547-01100

Service Request: R1004141

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1004141-001.01					
	6010B				
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
		8/11/10	1426	In Lab / DKRAFTSCHIK	
		8/11/10	1530	R-A01 / DKRAFTSCHIK	
		8/16/10	1210	R-LTS-MET / BDOYLE	
R1004141-002.01					
	6010B				
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
		8/11/10	1426	In Lab / DKRAFTSCHIK	
		8/11/10	1530	R-A01 / DKRAFTSCHIK	
		8/16/10	1210	R-LTS-MET / BDOYLE	
R1004141-003.01					
	6010B				
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
		8/11/10	1426	In Lab / DKRAFTSCHIK	
		8/11/10	1530	R-A01 / DKRAFTSCHIK	
		8/16/10	1210	R-LTS-MET / BDOYLE	
R1004141-004.01					
	6010B				
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
		8/11/10	1426	In Lab / DKRAFTSCHIK	
		8/11/10	1530	R-A01 / DKRAFTSCHIK	
R1004141-005.01					
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
R1004141-005.02					
	6010B				
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
		8/11/10	1426	In Lab / DKRAFTSCHIK	
		8/11/10	1530	R-A01 / DKRAFTSCHIK	
R1004141-005.03					
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
R1004141-006.01					
	6010B				
		8/4/10	1320	SMO / GLAFORCE	

Columbia Analytical Services, Inc.
Chain of Custody Report

Client: Parsons Engineering Science
Project: SEAD OB Grounds/747547-01100

Service Request: R1004141

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		8/4/10	1326	R-A01 / DWARD	
		8/11/10	1426	In Lab / DKRAFTSCHIK	
		8/11/10	1530	R-A01 / DKRAFTSCHIK	
R1004141-007.01					
	6010B				
		8/4/10	1320	SMO / GLAFORCE	
		8/4/10	1326	R-A01 / DWARD	
		8/11/10	1426	In Lab / DKRAFTSCHIK	
		8/11/10	1530	R-A01 / DKRAFTSCHIK	

METALS DATA

Columbia Analytical Services

METALS

COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: R1004141 SDG No.: OBLM20029

Lab Code: _____ Case No.: _____ SAS No.: _____

SOW No.: SW846 CLP-M

Sample ID.	Lab Sample No.
OBLM20029	R1004141-001
OBLM20030	R1004141-002
OBLM20031	R1004141-003
OBLM20032	R1004141-004
OBLM20033	R1004141-005
OBLM20033D	R1004141-005D
OBLM20033S	R1004141-005S
OBLM20034	R1004141-006
OBLM20035	R1004141-007

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See Attatched Case Narrative

Signature: _____ Name: Michael Perry

Date: 8/20/10 Title: Laboratory Director

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OBLM20029

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-001

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.5	J		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20030

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-002

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.8	J		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20031

Contract: R1004141
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029
Matrix (soil/water): WATER Lab Sample ID: R1004141-003
Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.3	J		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20032

Contract: R1004141
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029
Matrix (soil/water): WATER Lab Sample ID: R1004141-004
Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	2.7	J		P
7439-92-1	Lead	2.7	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OBLM20033

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-005

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	1.6	U		P
7439-92-1	Lead	1.9	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20034

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-006

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	1.7	J		P
7439-92-1	Lead	2.4	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OBLM20035

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Lab Sample ID: R1004141-007

Level (low/med): LOW Date Received: 8/4/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-50-8	Copper	4.3	J		P
7439-92-1	Lead	3.6	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	1250	1220	98	1250	1250	100	1210	97	P
Lead	500	498	100	500	514	103	496	99	P

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Copper				1250	1240	99	1220	98	P
Lead				500	508	102	506	101	P

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Copper				1250	1210	97	1220	98	P
Lead				500	504	101	517	103	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Copper				1250	1240	99			P
Lead				500	522	104			P

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OBLM20029

AA CRDL Standard Source: ENV. EXPRESS

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				25.0	25.43	102	24.67	99
Lead				10.0	10.40	104	10.20	102

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OBLM20029

AA CRDL Standard Source: ENV. EXPRESS

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				25.0			24.60	98
Lead				10.0			10.99	110

Comments:

METALS

-3-

BLANKS

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper	5.014	J	4.222	J	3.681	J	9.367	J	1.620	U	P
Lead	1.870	U	1.870	U	1.870	U	1.870	U	1.870	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper			7.160	J	3.220	J	3.394	J			P
Lead			1.870	U	1.870	U	1.870	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper			3.670	J							P
Lead			1.870	U							P

Comments:

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

ICP ID Number: Optima ICP 4 ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		500	-2.7	514	103	-3.0	511	102
Lead		50	0.2	51	102	1.8	52	104

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

ICP ID Number: Optima ICP 4 ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		500				-3.3	512	102
Lead		50				0.5	52	104

Columbia Analytical Services

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

OBLM20033S

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75 - 125	250.00		1.62	U	250.0	100		P
Lead	75 - 125	532.00		1.87	U	500.00	106		P

Comments:

METALS
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

OBLM20033A

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper		247.00		1.62	U	250.0	99		P
Lead		518.00		1.87	U	500.0	104		P

Comments: _____

METALS
-6-
DUPLICATES

SAMPLE NO.

OBLM20033D

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Copper		1.62	U	1.62	U			P
Lead		1.87	U	1.87	U			P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits		%R
Copper	250	258	103						
Lead	500	507	101						

Comments: _____

METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

OBLM20033L

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Copper	1.62	U	12.50	J	100.0		P
Lead	1.87	U	9.35	U			P

Comments: _____

METALS

-10-

DETECTION LIMITS

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

ICP ID Number: Optima ICP 4 Date: 4/8/2010

Flame AA ID Number: _____

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Copper	324.752		20.0	1.62	P
Lead	220.353		50.0	1.87	P

Comments: _____

METALS

-11A-

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

ICP ID Number: Optima ICP 4 Date: 8/10/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg
Aluminum	308.215	0.0000000	0.1139400	0.0180156	0.0746449
Antimony	206.836	0.0075988	0.0009323	0.0083420	0.0023085
Arsenic	188.979	0.0069260	-0.0039422	-0.4075890	-0.0038014
Barium	233.527	0.0001586	0.0074942	0.0487265	0.0035068
Beryllium	313.107	-0.0003080	-0.0005275	-0.0000827	-0.0001369
Boron	249.772	0.1410650	0.0999030	2.8555701	0.0593830
Cadmium	226.502	-0.0008028	-0.0004658	0.0838332	0.0003168
Calcium	227.546	-0.9921060	0.0000000	-52.4505997	0.0335220
Chromium	267.716	0.0004880	0.0009171	-0.0363622	-0.0079755
Cobalt	228.616	-0.0011300	0.0010784	0.0226828	-0.0003179
Copper	324.752	0.0075819	0.0051749	-0.1825400	0.0172969
Iron	238.863	0.1891440	0.0879009	0.0000000	0.1754410
Lead	220.353	-0.1180180	-0.0081253	0.0703138	0.0025618
Magnesium	279.077	-0.0087380	-0.0031261	0.6149970	0.0000000
Manganese	257.610	-0.0030587	-0.0001808	0.0040839	0.0315104
Molybdenum	202.031	-0.0107077	0.0006973	-0.0408572	0.0002125
Nickel	231.604	-0.0002009	0.0024560	0.0015315	0.0021349
Potassium	404.721	1.0406600	4.9624801	-30.8682995	1.7453200
Selenium	196.026	0.0319897	0.0105760	-0.2887070	0.0046860
Silver	328.068	0.0011998	0.0023358	-0.0646018	0.0012400
Sodium	330.237	0.3158310	0.7843770	-2.6892400	0.0653133
Strontium	460.733	-0.0046893	0.0219937	0.0065786	-0.0011589
Thallium	190.801	-0.0296921	-0.0014104	-0.0439918	-0.0086815
Tin	189.927	-0.0179655	-0.0687362	-0.1417700	-0.0654611
Titanium	337.279	-0.0003164	0.0033811	0.0038453	0.0109301
Vanadium	292.402	0.0004349	0.0004036	-0.0932130	-0.0001970
Zinc	206.200	0.0011789	0.0061781	0.0157473	0.0364618

Comments: _____

METALS
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ICP LINEAR RANGES (QUARTERLY)

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

ICP ID Number: Optima ICP 4 Date: 4/8/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Copper	0.200	5000	P
Lead	0.200	10000	P

Comments: _____

METALS

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PREPARATION LOG

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: OBLM20029

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
LCSW	8/11/2010	50.0	50.0
PBW	8/11/2010	50.0	50.0
OBLM20029	8/11/2010	50.0	50.0
OBLM20030	8/11/2010	50.0	50.0
OBLM20031	8/11/2010	50.0	50.0
OBLM20032	8/11/2010	50.0	50.0
OBLM20033	8/11/2010	50.0	50.0
OBLM20033D	8/11/2010	50.0	50.0
OBLM20033S	8/11/2010	50.0	50.0
OBLM20034	8/11/2010	50.0	50.0
OBLM20035	8/11/2010	50.0	50.0

Comments:

METALS
-14-

ANALYSIS RUN LOG

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OBLM20029

Instrument ID Number: Optima ICP 4 Method: P

Start Date: 8/13/2010 End Date: 8/13/2010

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Calib Blank 1	1.00	14:44											X		X												
Calib Std 1	1.00	14:50											X		X												
Calib Std 2	1.00	14:56																									
Calib Std 3	1.00	15:00											X		X												
Calib Std 4	1.00	15:05											X		X												
ICV1	1.00	15:09											X		X												
ICB1	1.00	15:14											X		X												
CRDL1	1.00	15:19											X		X												
ICS-A1	1.00	15:25											X		X												
ICS-AB1	1.00	15:29											X		X												
CCV1	1.00	15:34											X		X												
CCB1	1.00	15:38											X		X												
ZZZZZZ	1.00	15:44																									
ZZZZZZ	5.00	15:49																									
ZZZZZZ	1.00	15:54																									
ZZZZZZ	1.00	15:58																									
ZZZZZZ	1.00	16:02																									
ZZZZZZ	1.00	16:06																									
ZZZZZZ	5.00	16:11																									
ZZZZZZ	1.00	16:17																									
ZZZZZZ	1.00	16:21																									
ZZZZZZ	1.00	16:25																									
ZZZZZZ	1.00	16:29																									
ZZZZZZ	1.00	16:34																									
ZZZZZZ	1.00	16:39																									
ZZZZZZ	1.00	16:44																									
ZZZZZZ	1.00	16:48																									
ZZZZZZ	1.00	16:52																									
ZZZZZZ	1.00	16:56																									
ZZZZZZ	1.00	17:01																									
ZZZZZZ	1.00	17:05																									
ZZZZZZ	1.00	17:10																									
ZZZZZZ	1.00	17:14																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS
-14-

ANALYSIS RUN LOG

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OBLM20029

Instrument ID Number: Optima ICP 4 Method: P

Start Date: 8/13/2010 End Date: 8/13/2010

Sample ID.	D/F	Time	% R	Analytes																											
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN				
ZZZZZZ	1.00	17:18																													
ZZZZZZ	1.00	17:23																													
ZZZZZZ	1.00	17:27																													
ZZZZZZ	1.00	17:33																													
ZZZZZZ	1.00	17:37																													
ZZZZZZ	1.00	17:41																													
ZZZZZZ	1.00	17:46																													
ZZZZZZ	1.00	17:50																													
ZZZZZZ	1.00	17:55																													
CCV2	1.00	18:00											X		X																
CCB2	1.00	18:04											X		X																
CRDL2	1.00	18:10											X		X																
ICS-A2	1.00	18:15											X		X																
ICS-AB2	1.00	18:20											X		X																
HLCCV2	1.00	18:24											X		X																
HLCCV1	1.00	18:29											X		X																
CCV3	1.00	18:33											X		X																
CCB3	1.00	18:38											X		X																
ZZZZZZ	1.00	18:44																													
ZZZZZZ	1.00	18:50																													
ZZZZZZ	1.00	18:55																													
ZZZZZZ	1.00	19:00																													
ZZZZZZ	1.00	19:04																													
ZZZZZZ	1.00	19:08																													
ZZZZZZ	1.00	19:12																													
ZZZZZZ	1.00	19:17																													
ZZZZZZ	1.00	19:21																													
ZZZZZZ	1.00	19:25																													
CCV4	1.00	19:29											X		X																
CCB4	1.00	19:34											X		X																
ZZZZZZ	1.00	19:39																													
ZZZZZZ	1.00	19:43																													
ZZZZZZ	1.00	19:48																													

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS
-14-

ANALYSIS RUN LOG

Contract: R1004141

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OBLM20029

Instrument ID Number: Optima ICP 4 Method: P

Start Date: 8/13/2010 End Date: 8/13/2010

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	5.00	19:52																												
ZZZZZZ	1.00	19:58																												
ZZZZZZ	1.00	20:02																												
PBW	1.00	20:06											X		X															
LCSW	1.00	20:12											X		X															
OBLM20029	1.00	20:16											X		X															
OBLM20030	1.00	20:20											X		X															
CCV5	1.00	20:24											X		X															
CCB5	1.00	20:29											X		X															
OBLM20031	1.00	20:35											X		X															
OBLM20032	1.00	20:39											X		X															
OBLM20033	1.00	20:43											X		X															
OBLM20033D	1.00	20:47											X		X															
OBLM20033S	1.00	20:51											X		X															
OBLM20033A	1.00	20:56											X		X															
OBLM20033L	5.00	21:00											X		X															
OBLM20034	1.00	21:06											X		X															
OBLM20035	1.00	21:10											X		X															
CCV6	1.00	21:14											X		X															
CCB6	1.00	21:18											X		X															
CRDL3	1.00	21:24											X		X															
ICS-A3	1.00	21:30											X		X															
ICS-AB3	1.00	21:34											X		X															
CCV7	1.00	21:38											X		X															
CCB7	1.00	21:43											X		X															

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals Cover Page

Analyst: DCB **Date:** 8/13/10 **Instrument:** Opt 4

Data File: 4 Aug 13a **Reviewed By:** DCB 8/15/10 **Entered By:** CK 8/16/10

Approval: CK 8/16/10

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
212676	Ag As Ba Cd Cr Pb Se	117264	6010		Repeat
					005,007,015,017 As
					009,019 Se
212678	Ag Al As Ba Cd Cr Cu Mn Ni Pb Sb Sn V Zn	117097	200.7	Fe	R4263-002→005 Cu
212680	Cu Pb	117216	6010		

Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Stds Attached?	Raw Data Copied?
R-4314	(IV) / ILM	Ag As Ba Cd Cr Pb Se (Repeat Pb)	117264	(Yes) / No	Yes / No
R-4141	(IV) / ILM	Cu Pb	117216	Yes / No	Yes / No
	IV / ILM			Yes / No	Yes / No
	IV / ILM			Yes / No	Yes / No
	IV / ILM			Yes / No	Yes / No
	IV / ILM			Yes / No	Yes / No
	IV / ILM			Yes / No	Yes / No
	IV / ILM			Yes / No	Yes / No

Analysis Begun

Start Time: 8/13/2010 2:44:56 PM Plasma On Time: 8/13/2010 5:49:41 AM
Logged In Analyst: ROCACQMET01 Technique: ICP Continuous
Spectrometer Model: Optima 5300 DV, S/N 077N6052202Autosampler Model: AS-93plus

Sample Information File: C:\pe\Optima4\Sample Information\routine1.sif
Batch ID:
Results Data Set: 4Aug13a
Results Library: C:\pe\Optima4\Results\Aug10.mdb

8/13/10
DCB

Method Loaded
Method Name: AXIAL200-6010 L Opt4 Method Last Saved: 8/13/2010 6:27:18 AM
IEC File: 081010.iec MSF File:
Method Description: 5300DV TAL Metals Method 200.7/6010B-Optima 4

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Al 308.215	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
B 249.772	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cd 226.502	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Fe 238.863	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
K 404.721	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Mg 279.077	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Na 330.237	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ti 337.279	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ca 227.546	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Sr 460.733	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 8/13/2010 2:44:56 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	8731871.6	15101.02	0.17%	1.000	mg/L
Ag 328.068†	3783.0	183.83	4.86%	[0.00]	mg/L
Al 308.215†	7106.8	51.19	0.72%	[0.00]	mg/L
As 188.979†	-46.7	14.83	31.74%	[0.00]	mg/L
B 249.772†	16414.2	114.92	0.70%	[0.00]	mg/L
Ba 233.527†	2177.7	25.80	1.18%	[0.00]	mg/L
Be 313.107†	-11865.8	234.00	1.97%	[0.00]	mg/L
Cd 226.502†	-59.1	29.07	49.17%	[0.00]	mg/L
Co 228.616†	-62.0	17.09	27.55%	[0.00]	mg/L
Cr 267.716†	-63.5	13.83	21.77%	[0.00]	mg/L
Cu 324.752†	5219.7	18.38	0.35%	[0.00]	mg/L
Fe 238.863†	31319.9	65.39	0.21%	[0.00]	mg/L

K 404.721†	373.4	45.63	12.22%	[0.00]	mg/L
Mg 279.077†	-1674.1	17.19	1.03%	[0.00]	mg/L
Mn 257.610†	703.4	20.82	2.96%	[0.00]	mg/L
Mo 202.031†	-221.1	0.37	0.17%	[0.00]	mg/L
Ni 231.604†	2.1	16.27	788.71%	[0.00]	mg/L
Na 330.237†	4204.0	41.52	0.99%	[0.00]	mg/L
Pb 220.353†	163.1	1.95	1.20%	[0.00]	mg/L
Sb 206.836†	19.6	1.60	8.15%	[0.00]	mg/L
Se 196.026†	148.5	4.85	3.27%	[0.00]	mg/L
Sn 189.927†	186.1	8.03	4.31%	[0.00]	mg/L
Ti 337.279†	-3729.7	107.33	2.88%	[0.00]	mg/L
Tl 190.801†	-46.9	2.31	4.93%	[0.00]	mg/L
V 292.402†	881.8	50.99	5.78%	[0.00]	mg/L
Zn 206.200†	182.4	17.08	9.36%	[0.00]	mg/L
Ca 227.546†	-785.6	2.65	0.34%	[0.00]	mg/L
Sr 460.733†	-1597.0	122.66	7.68%	[0.00]	mg/L

Sequence No.: 2 **Autosampler Location: 9**
Sample ID: Calib Std 1 **Date Collected: 8/13/2010 2:50:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	8645995.4	279592.11	3.23%	0.9902	mg/L
Al 308.215†	1079.2	23.56	2.18%	[0.0200]	mg/L
As 188.979†	41.4	0.19	0.46%	[0.0050]	mg/L
Ba 233.527†	6892.4	297.81	4.32%	[0.0200]	mg/L
Cd 226.502†	375.5	24.98	6.65%	[0.0010]	mg/L
Co 228.616†	404.3	10.84	2.68%	[0.0030]	mg/L
Cr 267.716†	239.5	18.83	7.86%	[0.0010]	mg/L
Cu 324.752†	4845.1	225.33	4.65%	[0.0100]	mg/L
Mn 257.610†	17252.2	671.23	3.89%	[0.0100]	mg/L
Mo 202.031†	1333.0	24.61	1.85%	[0.0250]	mg/L
Ni 231.604†	755.2	23.38	3.10%	[0.0050]	mg/L
Pb 220.353†	172.2	35.14	20.40%	[0.0050]	mg/L
Sb 206.836†	49.2	1.17	2.38%	[0.0100]	mg/L
Se 196.026†	25.1	2.12	8.45%	[0.0050]	mg/L
Tl 190.801†	60.0	1.45	2.42%	[0.0100]	mg/L
V 292.402†	732.9	4.33	0.59%	[0.0030]	mg/L
Zn 206.200†	3456.5	128.73	3.72%	[0.0100]	mg/L

Sequence No.: 3 **Autosampler Location: 10**
Sample ID: Calib Std 2 **Date Collected: 8/13/2010 2:56:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	8652898.5	40063.27	0.46%	0.9910	mg/L
Ag 328.068†	3567.2	130.65	3.66%	[0.0100]	mg/L
B 249.772†	9340.3	334.01	3.58%	[0.0500]	mg/L
Be 313.107†	31584.0	1.71	0.01%	[0.0050]	mg/L
Fe 238.863†	6244.9	213.66	3.42%	[0.1000]	mg/L
K 404.721†	-60.9	127.91	209.99%	[0.5000]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Mg 279.077†	20541.1	28.87	0.14%	[0.5000]	mg/L
Na 330.237†	343.4	37.96	11.05%	[0.5000]	mg/L
Sn 189.927†	3043.0	1.52	0.05%	[0.1000]	mg/L
Ti 337.279†	25149.7	1192.74	4.74%	[0.0500]	mg/L
Ca 227.546†	232.5	60.19	25.89%	[0.5000]	mg/L
Sr 460.733†	12167.3	92.88	0.76%	[0.0500]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 8/13/2010 3:00:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	8614636.9	24822.17	0.29%	0.9866	mg/L
Ag 328.068†	74031.8	411.51	0.56%	[0.2000]	mg/L
Al 308.215†	171369.6	948.24	0.55%	[4.0000]	mg/L
As 188.979†	3364.7	6.43	0.19%	[0.4000]	mg/L
B 249.772†	221460.0	1832.24	0.83%	[1.0000]	mg/L
Ba 233.527†	1477458.4	8804.56	0.60%	[4.0000]	mg/L
Be 313.107†	647463.5	3853.95	0.60%	[0.1000]	mg/L
Cd 226.502†	76277.1	4.48	0.01%	[0.2000]	mg/L
Co 228.616†	135279.9	833.60	0.62%	[1.0000]	mg/L
Cr 267.716†	43958.2	98.72	0.22%	[0.2000]	mg/L
Cu 324.752†	235473.7	1524.25	0.65%	[0.5000]	mg/L
Fe 238.863†	121800.2	602.22	0.49%	[2.0000]	mg/L
K 404.721†	1566.7	19.93	1.27%	[10.000]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Mg 279.077†	401996.3	2223.19	0.55%	[10.000]	mg/L
Mn 257.610†	518034.7	2853.02	0.55%	[0.3000]	mg/L
Mo 202.031†	52290.0	294.39	0.56%	[1.0000]	mg/L
Ni 231.604†	122364.9	497.05	0.41%	[0.8000]	mg/L
Na 330.237†	16196.3	33.85	0.21%	[10.000]	mg/L
Pb 220.353†	5507.6	13.07	0.24%	[0.2000]	mg/L
Sb 206.836†	11403.0	227.06	1.99%	[2.0000]	mg/L
Se 196.026†	1130.9	21.42	1.89%	[0.2000]	mg/L
Sn 189.927†	59503.3	100.55	0.17%	[2.0000]	mg/L
Ti 337.279†	509479.8	4243.51	0.83%	[1.0000]	mg/L
Tl 190.801†	3110.4	15.19	0.49%	[0.4000]	mg/L
V 292.402†	265243.0	1164.05	0.44%	[1.0000]	mg/L
Zn 206.200†	122344.3	709.34	0.58%	[0.4000]	mg/L
Ca 227.546†	5611.8	15.65	0.28%	[10.000]	mg/L
Sr 460.733†	250769.0	1981.52	0.79%	[1.0000]	mg/L

Sequence No.: 5
Sample ID: Calib Std 4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/13/2010 3:05:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	8223756.5	124537.32	1.51%	0.9418	mg/L
Ag 328.068†	373032.0	4053.54	1.09%	[1.0000]	mg/L
Al 308.215†	862485.6	18268.37	2.12%	[20.000]	mg/L
As 188.979†	17111.5	259.45	1.52%	[2.0000]	mg/L
B 249.772†	1156617.2	33034.79	2.86%	[5.0000]	mg/L
Ba 233.527†	7192869.6	145812.59	2.03%	[20.000]	mg/L
Be 313.107†	3286719.0	69914.40	2.13%	[0.5000]	mg/L
Cd 226.502†	382375.5	7673.08	2.01%	[1.0000]	mg/L
Co 228.616†	668076.8	14086.65	2.11%	[5.0000]	mg/L
Cr 267.716†	221330.8	4698.91	2.12%	[1.0000]	mg/L
Cu 324.752†	1181140.5	25702.76	2.18%	[2.5000]	mg/L
Fe 238.863†	605394.1	14708.13	2.43%	[10.000]	mg/L
K 404.721†	8916.6	7.90	0.09%	[50.000]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Mg 279.077†	1964046.0	41833.74	2.13%	[50.000]	mg/L
Mn 257.610†	2570392.3	52430.18	2.04%	[1.5000]	mg/L
Mo 202.031†	267511.3	9692.77	3.62%	[5.0000]	mg/L
Ni 231.604†	599597.3	9942.14	1.66%	[4.0000]	mg/L
Na 330.237†	91604.6	1997.41	2.18%	[50.000]	mg/L
Pb 220.353†	27426.6	60.09	0.22%	[1.0000]	mg/L
Sb 206.836†	57193.7	722.02	1.26%	[10.000]	mg/L

Se 196.026†	5804.8	61.77	1.06%	[1.0000]	mg/L
Sn 189.927†	304322.7	9292.57	3.05%	[10.000]	mg/L
Ti 337.279†	2554726.3	357.76	0.01%	[5.0000]	mg/L
Tl 190.801†	15352.4	308.47	2.01%	[2.0000]	mg/L
V 292.402†	1345806.2	37401.44	2.78%	[5.0000]	mg/L
Zn 206.200†	608323.9	13151.58	2.16%	[2.0000]	mg/L
Ca 227.546†	28928.6	382.59	1.32%	[50.000]	mg/L
Sr 460.733†	1293719.0	15711.13	1.21%	[5.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	372900	0.00000	0.999999	
Al 308.215	3	Lin Thru 0	0.0	43110	0.00000	0.999999	
As 188.979	3	Lin Thru 0	0.0	8550	0.00000	0.999995	
B 249.772	3	Lin Thru 0	0.0	230900	0.00000	0.999965	
Ba 233.527	3	Lin Thru 0	0.0	360000	0.00000	0.999987	
Be 313.107	3	Lin Thru 0	0.0	6570000	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	382300	0.00000	1.000000	
Co 228.616	3	Lin Thru 0	0.0	133700	0.00000	0.999997	
Cr 267.716	3	Lin Thru 0	0.0	221300	0.00000	0.999999	
Cu 324.752	3	Lin Thru 0	0.0	472400	0.00000	1.000000	
Fe 238.863	3	Lin Thru 0	0.0	60550	0.00000	0.999999	
Mg 279.077	3	Lin Thru 0	0.0	39320	0.00000	0.999990	
Mn 257.610	3	Lin Thru 0	0.0	1714000	0.00000	0.999999	
Mo 202.031	3	Lin Thru 0	0.0	53460	0.00000	0.999990	
Ni 231.604	3	Lin Thru 0	0.0	150000	0.00000	0.999992	
Na 330.237	3	Lin Thru 0	0.0	1824	0.00000	0.999731	
Pb 220.353	3	Lin Thru 0	0.0	27430	0.00000	0.999999	
Sb 206.836	3	Lin Thru 0	0.0	5719	0.00000	1.000000	
Se 196.026	3	Lin Thru 0	0.0	5799	0.00000	0.999987	
Sn 189.927	3	Lin Thru 0	0.0	30410	0.00000	0.999991	
Ti 337.279	3	Lin Thru 0	0.0	510900	0.00000	1.000000	
Tl 190.801	3	Lin Thru 0	0.0	7680	0.00000	0.999996	
V 292.402	3	Lin Thru 0	0.0	269000	0.00000	0.999996	
Zn 206.200	3	Lin Thru 0	0.0	304200	0.00000	0.999999	
Ca 227.546	3	Lin Thru 0	0.0	577.9	0.00000	0.999981	
Sr 460.733	3	Lin Thru 0	0.0	258400	0.00000	0.999982	

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Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2010 3:09:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8489717.2	0.9723	mg/L	0.00171				0.18%
Ag 328.068†	182859.8	0.4906	mg/L	0.00360	0.4906	mg/L	0.00360	0.73%
QC value within limits for Ag 328.068 Recovery = 98.11%								
Al 308.215†	420827.6	9.756	mg/L	0.0084	9.756	mg/L	0.0084	0.09%
QC value within limits for Al 308.215 Recovery = 97.56%								
As 188.979†	8398.8	0.9844	mg/L	0.00147	0.9844	mg/L	0.00147	0.15%
QC value within limits for As 188.979 Recovery = 98.44%								
B 249.772†	559395.3	2.403	mg/L	0.0048	2.403	mg/L	0.0048	0.20%
QC value within limits for B 249.772 Recovery = 96.12%								
Ba 233.527†	3545246.5	9.847	mg/L	0.0084	9.847	mg/L	0.0084	0.09%
QC value within limits for Ba 233.527 Recovery = 98.47%								
Be 313.107†	1601492.0	0.2438	mg/L	0.00040	0.2438	mg/L	0.00040	0.17%
QC value within limits for Be 313.107 Recovery = 97.52%								
Cd 226.502†	187277.9	0.4894	mg/L	0.00239	0.4894	mg/L	0.00239	0.49%
QC value within limits for Cd 226.502 Recovery = 97.88%								
Co 228.616†	325791.8	2.437	mg/L	0.0036	2.437	mg/L	0.0036	0.15%
QC value within limits for Co 228.616 Recovery = 97.48%								
Cr 267.716†	108996.2	0.4929	mg/L	0.00170	0.4929	mg/L	0.00170	0.35%
QC value within limits for Cr 267.716 Recovery = 98.59%								
Cu 324.752†	577260.0	1.222	mg/L	0.0009	1.222	mg/L	0.0009	0.07%
QC value within limits for Cu 324.752 Recovery = 97.78%								

Fe 238.863†	296846.7	4.894 mg/L	0.0140	4.894 mg/L	0.0140	0.29%
QC value within limits for Fe 238.863 Recovery = 97.88%						
K 404.721†	3987.4				60.78	1.52%
Unable to evaluate QC.						
Mg 279.077†	973416.2	24.76 mg/L	0.071	24.76 mg/L	0.071	0.29%
QC value within limits for Mg 279.077 Recovery = 99.02%						
Mn 257.610†	1268246.0	0.7391 mg/L	0.00069	0.7391 mg/L	0.00069	0.09%
QC value within limits for Mn 257.610 Recovery = 98.55%						
Mo 202.031†	129638.4	2.425 mg/L	0.0309	2.425 mg/L	0.0309	1.27%
QC value within limits for Mo 202.031 Recovery = 97.02%						
Ni 231.604†	296735.9	1.978 mg/L	0.0096	1.978 mg/L	0.0096	0.49%
QC value within limits for Ni 231.604 Recovery = 98.89%						
Na 330.237†	41573.8	22.78 mg/L	0.096	22.78 mg/L	0.096	0.42%
QC value less than the lower limit for Na 330.237 Recovery = 91.14%						
Pb 220.353†	13628.8	0.4978 mg/L	0.00246	0.4978 mg/L	0.00246	0.49%
QC value within limits for Pb 220.353 Recovery = 99.56%						
Sb 206.836†	28187.8	4.929 mg/L	0.0463	4.929 mg/L	0.0463	0.94%
QC value within limits for Sb 206.836 Recovery = 98.58%						
Se 196.026†	2837.6	0.4901 mg/L	0.00385	0.4901 mg/L	0.00385	0.79%
QC value within limits for Se 196.026 Recovery = 98.01%						
Sn 189.927†	149116.8	4.908 mg/L	0.0220	4.908 mg/L	0.0220	0.45%
QC value within limits for Sn 189.927 Recovery = 98.17%						
Ti 337.279†	1245263.0	2.437 mg/L	0.0377	2.437 mg/L	0.0377	1.55%
QC value within limits for Ti 337.279 Recovery = 97.48%						
Tl 190.801†	7639.4	0.9952 mg/L	0.00779	0.9952 mg/L	0.00779	0.78%
QC value within limits for Tl 190.801 Recovery = 99.52%						
V 292.402†	653349.2	2.429 mg/L	0.0108	2.429 mg/L	0.0108	0.45%
QC value within limits for V 292.402 Recovery = 97.17%						
Zn 206.200†	300166.5	0.9854 mg/L	0.00195	0.9854 mg/L	0.00195	0.20%
QC value within limits for Zn 206.200 Recovery = 98.54%						
Ca 227.546†	14076.9	24.62 mg/L	0.118	24.62 mg/L	0.118	0.48%
QC value within limits for Ca 227.546 Recovery = 98.50%						
Sr 460.733†	626550.4	2.424 mg/L	0.0025	2.424 mg/L	0.0025	0.10%
QC value within limits for Sr 460.733 Recovery = 96.96%						
QC Failed. Continue with analysis.						

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 8/13/2010 3:14:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8668608.8	0.9928	mg/L	0.00050				0.05%
Ag 328.068†	-40.9	-0.0001	mg/L	0.00048	-0.0001	mg/L	0.00048	437.58%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-112.6	-0.0026	mg/L	0.00165	-0.0026	mg/L	0.00165	63.26%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	9.3	0.0011	mg/L	0.00018	0.0011	mg/L	0.00018	16.05%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	2561.4	0.0111	mg/L	0.00251	0.0111	mg/L	0.00251	22.62%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	1061.7	0.0029	mg/L	0.00036	0.0029	mg/L	0.00036	12.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	574.9	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	43.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	5.2	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	404.58%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	65.4	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	5.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	33.84%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	2368.5	0.0050	mg/L	0.00129	0.0050	mg/L	0.00129	25.68%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	163.4	0.0027	mg/L	0.00021	0.0027	mg/L	0.00021	7.83%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	-38.3						59.27	154.68%
Unable to evaluate QC.								

Mg 279.077†	8.7	0.0002 mg/L	0.00065	0.0002 mg/L	0.00065	295.39%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	686.2	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	9.63%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	85.8	0.0016 mg/L	0.00060	0.0016 mg/L	0.00060	37.23%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	63.8	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	14.41%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Na 330.237†	-286.3	-0.1570 mg/L	0.05700	-0.1570 mg/L	0.05700	36.31%
QC value within limits for Na 330.237 Recovery = Not calculated							
Pb 220.353†	30.5	0.0011 mg/L	0.00003	0.0011 mg/L	0.00003	2.51%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	6.6	0.0012 mg/L	0.00153	0.0012 mg/L	0.00153	133.01%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.4	-0.0002 mg/L	0.00157	-0.0002 mg/L	0.00157	675.36%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	503.1	0.0165 mg/L	0.00205	0.0165 mg/L	0.00205	12.41%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	59.5	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	65.39%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	10.8	0.0014 mg/L	0.00033	0.0014 mg/L	0.00033	23.17%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	126.7	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	31.32%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	55.2	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	41.34%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Ca 227.546†	9.3	0.0161 mg/L	0.03673	0.0161 mg/L	0.03673	227.42%
QC value within limits for Ca 227.546 Recovery = Not calculated							
Sr 460.733†	43.4	0.0002 mg/L	0.00069	0.0002 mg/L	0.00069	410.45%
QC value within limits for Sr 460.733 Recovery = Not calculated							

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 8 **Autosampler Location: 6**
Sample ID: MRL **Date Collected: 8/13/2010 3:19:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8801647.1	1.008	mg/L	0.0023				0.22%
Ag 328.068†	3626.8	0.0097	mg/L	0.00017	0.0097	mg/L	0.00017	1.79%
QC value within limits for Ag 328.068 Recovery = 97.28%								
Al 308.215†	8029.2	0.1861	mg/L	0.00453	0.1861	mg/L	0.00453	2.43%
QC value within limits for Al 308.215 Recovery = 93.03%								
As 188.979†	176.5	0.0207	mg/L	0.00022	0.0207	mg/L	0.00022	1.07%
QC value within limits for As 188.979 Recovery = 103.42%								
B 249.772†	41854.8	0.1808	mg/L	0.00467	0.1808	mg/L	0.00467	2.59%
QC value within limits for B 249.772 Recovery = 90.40%								
Ba 233.527†	72838.4	0.2023	mg/L	0.00258	0.2023	mg/L	0.00258	1.28%
QC value within limits for Ba 233.527 Recovery = 101.15%								
Be 313.107†	30982.4	0.0047	mg/L	0.00006	0.0047	mg/L	0.00006	1.32%
QC value within limits for Be 313.107 Recovery = 94.33%								
Cd 226.502†	3743.1	0.0098	mg/L	0.00001	0.0098	mg/L	0.00001	0.13%
QC value within limits for Cd 226.502 Recovery = 97.82%								
Co 228.616†	6647.8	0.0497	mg/L	0.00010	0.0497	mg/L	0.00010	0.21%
QC value within limits for Co 228.616 Recovery = 99.45%								
Cr 267.716†	2193.7	0.0099	mg/L	0.00006	0.0099	mg/L	0.00006	0.60%
QC value within limits for Cr 267.716 Recovery = 99.25%								
Cu 324.752†	12015.3	0.0254	mg/L	0.00023	0.0254	mg/L	0.00023	0.90%
QC value within limits for Cu 324.752 Recovery = 101.71%								
Fe 238.863†	5743.6	0.0946	mg/L	0.00121	0.0946	mg/L	0.00121	1.28%
QC value within limits for Fe 238.863 Recovery = 94.56%								
K 404.721†	28.3						142.05	502.47%
Unable to evaluate QC.								
Mg 279.077†	39723.0	1.010	mg/L	0.0146	1.010	mg/L	0.0146	1.44%
QC value within limits for Mg 279.077 Recovery = 101.03%								
Mn 257.610†	25972.8	0.0151	mg/L	0.00018	0.0151	mg/L	0.00018	1.16%
QC value within limits for Mn 257.610 Recovery = 100.81%								

Mo 202.031†	1339.5	0.0251 mg/L	0.00005	0.0251 mg/L	0.00005	0.21%
QC value within limits for Mo 202.031 Recovery = 100.25%						
Ni 231.604†	5972.1	0.0398 mg/L	0.00008	0.0398 mg/L	0.00008	0.21%
QC value within limits for Ni 231.604 Recovery = 99.51%						
Na 330.237†	1307.2	0.7162 mg/L	0.08277	0.7162 mg/L	0.08277	11.56%
QC value less than the lower limit for Na 330.237 Recovery = 71.62%						
Pb 220.353†	284.8	0.0104 mg/L	0.00022	0.0104 mg/L	0.00022	2.15%
QC value within limits for Pb 220.353 Recovery = 104.03%						
Sb 206.836†	313.6	0.0548 mg/L	0.00121	0.0548 mg/L	0.00121	2.20%
QC value within limits for Sb 206.836 Recovery = 91.38%						
Se 196.026†	42.3	0.0073 mg/L	0.00221	0.0073 mg/L	0.00221	30.19%
QC value less than the lower limit for Se 196.026 Recovery = 73.05%						
Sn 189.927†	15620.3	0.5139 mg/L	0.00198	0.5139 mg/L	0.00198	0.39%
QC value within limits for Sn 189.927 Recovery = 102.77%						
Ti 337.279†	25630.3	0.0502 mg/L	0.00042	0.0502 mg/L	0.00042	0.83%
QC value within limits for Ti 337.279 Recovery = 100.31%						
Tl 190.801†	152.8	0.0199 mg/L	0.00037	0.0199 mg/L	0.00037	1.84%
QC value within limits for Tl 190.801 Recovery = 99.52%						
V 292.402†	12650.0	0.0470 mg/L	0.00078	0.0470 mg/L	0.00078	1.66%
QC value within limits for V 292.402 Recovery = 94.07%						
Zn 206.200†	5957.0	0.0195 mg/L	0.00010	0.0195 mg/L	0.00010	0.50%
QC value within limits for Zn 206.200 Recovery = 97.67%						
Ca 227.546†	513.6	0.8938 mg/L	0.01669	0.8938 mg/L	0.01669	1.87%
QC value within limits for Ca 227.546 Recovery = 89.38%						
Sr 460.733†	23202.8	0.0898 mg/L	0.00087	0.0898 mg/L	0.00087	0.97%
QC value within limits for Sr 460.733 Recovery = 89.76%						

QC Failed. Continue with analysis.

Sequence No.: 9 **Autosampler Location:** 7
Sample ID: ICSA **Date Collected:** 8/13/2010 3:25:37 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7943674.0	0.9097	mg/L	0.01517				1.67%
Ag 328.068†	-2064.8	-0.0007	mg/L	0.00031	-0.0007	mg/L	0.00031	40.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	10420754.6	241.7	mg/L	1.92	241.7	mg/L	1.92	0.79%
QC value within limits for Al 308.215 Recovery = 96.66%								
As 188.979†	-301.8	0.0023	mg/L	0.00849	0.0023	mg/L	0.00849	363.21%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	79522.2	0.0096	mg/L	0.00397	0.0096	mg/L	0.00397	41.35%
Ba 233.527†	3406.9	0.0023	mg/L	0.00038	0.0023	mg/L	0.00038	16.57%
Be 313.107†	-1343.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	45.92%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	2664.0	-0.0005	mg/L	0.00035	-0.0005	mg/L	0.00035	69.62%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	233.1	-0.0003	mg/L	0.00045	-0.0003	mg/L	0.00045	175.50%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-1429.6	-0.0016	mg/L	0.00006	-0.0016	mg/L	0.00006	3.72%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-5838.5	-0.0027	mg/L	0.00030	-0.0027	mg/L	0.00030	11.01%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	5564362.5	91.78	mg/L	1.047	91.78	mg/L	1.047	1.14%
QC value within limits for Fe 238.863 Recovery = 91.78%								
K 404.721†	-300.1						91.65	30.54%
Mg 279.077†	9250702.0	235.2	mg/L	1.69	235.2	mg/L	1.69	0.72%
QC value within limits for Mg 279.077 Recovery = 94.09%								
Mn 257.610†	131.6	-0.0069	mg/L	0.00004	-0.0069	mg/L	0.00004	0.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-322.5	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	255.97%
Ni 231.604†	101.5	-0.0005	mg/L	0.00067	-0.0005	mg/L	0.00067	130.85%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	-21.2	-0.0468	mg/L	0.05476	-0.0468	mg/L	0.05476	117.10%
Pb 220.353†	-637.2	0.0002	mg/L	0.00063	0.0002	mg/L	0.00063	305.65%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-16.1	-0.0062	mg/L	0.00183	-0.0062	mg/L	0.00183	29.61%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	-121.2	-0.0058	mg/L	0.00168	-0.0058	mg/L	0.00168 29.04%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	149.8	0.0544	mg/L	0.00055	0.0544	mg/L	0.00055 1.02%
Ti 337.279†	687.0	-0.0023	mg/L	0.00004	-0.0023	mg/L	0.00004 1.61%
Tl 190.801†	-39.2	0.0020	mg/L	0.00315	0.0020	mg/L	0.00315 154.59%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	-2608.7	-0.0013	mg/L	0.00024	-0.0013	mg/L	0.00024 18.76%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	980.2	-0.0112	mg/L	0.00053	-0.0112	mg/L	0.00053 4.74%

QC value within limits for Zn 206.200 Recovery = Not calculated

Ca 227.546†	140387.6	248.0	mg/L	2.22	248.0	mg/L	2.22 0.90%

QC value within limits for Ca 227.546 Recovery = 99.19%

Sr 460.733†	1774.6	0.0021	mg/L	0.00011	0.0021	mg/L	0.00011 5.38%

All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 8/13/2010 3:29:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7768245.6	0.8896	mg/L	0.00005				0.01%
Ag 328.068†	77782.7	0.2135	mg/L	0.00077	0.2135	mg/L	0.00077	0.36%
QC value within limits for Ag 328.068 Recovery = 106.75%								
Al 308.215†	10686730.6	247.8	mg/L	1.25	247.8	mg/L	1.25	0.51%
QC value within limits for Al 308.215 Recovery = 99.13%								
As 188.979†	596.0	0.1085	mg/L	0.00011	0.1085	mg/L	0.00011	0.10%
QC value within limits for As 188.979 Recovery = 108.45%								
B 249.772†	83108.7	0.0154	mg/L	0.00490	0.0154	mg/L	0.00490	31.77%
Ba 233.527†	189459.2	0.5189	mg/L	0.00300	0.5189	mg/L	0.00300	0.58%
QC value within limits for Ba 233.527 Recovery = 103.78%								
Be 313.107†	3357862.1	0.5114	mg/L	0.00094	0.5114	mg/L	0.00094	0.18%
QC value within limits for Be 313.107 Recovery = 102.27%								
Cd 226.502†	380223.5	0.9868	mg/L	0.00333	0.9868	mg/L	0.00333	0.34%
QC value within limits for Cd 226.502 Recovery = 98.68%								
Co 228.616†	66111.6	0.4925	mg/L	0.00155	0.4925	mg/L	0.00155	0.31%
QC value within limits for Co 228.616 Recovery = 98.50%								
Cr 267.716†	110598.5	0.5049	mg/L	0.00186	0.5049	mg/L	0.00186	0.37%
QC value within limits for Cr 267.716 Recovery = 100.97%								
Cu 324.752†	238092.1	0.5139	mg/L	0.00419	0.5139	mg/L	0.00419	0.82%
QC value within limits for Cu 324.752 Recovery = 102.78%								
Fe 238.863†	5729126.0	94.50	mg/L	0.213	94.50	mg/L	0.213	0.23%
QC value within limits for Fe 238.863 Recovery = 94.50%								
K 404.721†	-247.1						4.92	1.99%
Mg 279.077†	9517449.4	242.0	mg/L	1.15	242.0	mg/L	1.15	0.48%
QC value within limits for Mg 279.077 Recovery = 96.81%								
Mn 257.610†	.882904.3	0.5079	mg/L	0.00241	0.5079	mg/L	0.00241	0.47%
QC value within limits for Mn 257.610 Recovery = 101.57%								
Mo 202.031†	-343.3	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00022	169.99%
Ni 231.604†	146551.9	0.9757	mg/L	0.00362	0.9757	mg/L	0.00362	0.37%
QC value within limits for Ni 231.604 Recovery = 97.57%								
Na 330.237†	-818.3	-0.4840	mg/L	0.00968	-0.4840	mg/L	0.00968	2.00%
Pb 220.353†	750.5	0.0514	mg/L	0.00113	0.0514	mg/L	0.00113	2.21%
QC value within limits for Pb 220.353 Recovery = 102.73%								
Sb 206.836†	3665.3	0.6375	mg/L	0.00671	0.6375	mg/L	0.00671	1.05%
QC value within limits for Sb 206.836 Recovery = 106.25%								
Se 196.026†	161.9	0.0435	mg/L	0.00322	0.0435	mg/L	0.00322	7.39%
QC value within limits for Se 196.026 Recovery = 87.05%								
Sn 189.927†	149.7	0.0558	mg/L	0.00034	0.0558	mg/L	0.00034	0.61%
Ti 337.279†	618.0	-0.0026	mg/L	0.00004	-0.0026	mg/L	0.00004	1.73%
Tl 190.801†	725.2	0.1018	mg/L	0.00462	0.1018	mg/L	0.00462	4.53%
QC value within limits for Tl 190.801 Recovery = 101.78%								
V 292.402†	131349.3	0.4969	mg/L	0.00046	0.4969	mg/L	0.00046	0.09%
QC value within limits for V 292.402 Recovery = 99.39%								
Zn 206.200†	304615.8	0.9865	mg/L	0.00395	0.9865	mg/L	0.00395	0.40%
QC value within limits for Zn 206.200 Recovery = 98.65%								

Ca 227.546†	144186.8	254.7 mg/L	1.39	254.7 mg/L	1.39	0.55%
QC value within limits for Ca 227.546 Recovery = 101.88%						
Sr 460.733†	1754.7	0.0019 mg/L	0.00018	0.0019 mg/L	0.00018	9.46%

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/13/2010 3:34:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8336875.3	0.9548	mg/L	0.00053				0.06%
Ag 328.068†	188760.2	0.5064	mg/L	0.00046	0.5064	mg/L	0.00046	0.09%
QC value within limits for Ag 328.068 Recovery = 101.28%								
Al 308.215†	431604.7	10.01	mg/L	0.020	10.01	mg/L	0.020	0.20%
QC value within limits for Al 308.215 Recovery = 100.06%								
As 188.979†	8543.3	1.001	mg/L	0.0003	1.001	mg/L	0.0003	0.03%
QC value within limits for As 188.979 Recovery = 100.14%								
B 249.772†	565454.1	2.429	mg/L	0.0187	2.429	mg/L	0.0187	0.77%
QC value within limits for B 249.772 Recovery = 97.15%								
Ba 233.527†	3625217.3	10.07	mg/L	0.023	10.07	mg/L	0.023	0.23%
QC value within limits for Ba 233.527 Recovery = 100.69%								
Be 313.107†	1636333.7	0.2491	mg/L	0.00028	0.2491	mg/L	0.00028	0.11%
QC value within limits for Be 313.107 Recovery = 99.64%								
Cd 226.502†	191350.1	0.5001	mg/L	0.00278	0.5001	mg/L	0.00278	0.56%
QC value within limits for Cd 226.502 Recovery = 100.01%								
Co 228.616†	332997.3	2.491	mg/L	0.0062	2.491	mg/L	0.0062	0.25%
QC value within limits for Co 228.616 Recovery = 99.64%								
Cr 267.716†	111274.2	0.5032	mg/L	0.00285	0.5032	mg/L	0.00285	0.57%
QC value within limits for Cr 267.716 Recovery = 100.65%								
Cu 324.752†	589097.2	1.247	mg/L	0.0054	1.247	mg/L	0.0054	0.44%
QC value within limits for Cu 324.752 Recovery = 99.78%								
Fe 238.863†	305068.7	5.029	mg/L	0.0166	5.029	mg/L	0.0166	0.33%
QC value within limits for Fe 238.863 Recovery = 100.59%								
K 404.721†	4203.0						94.83	2.26%
Unable to evaluate QC.								
Mg 279.077†	995541.3	25.32	mg/L	0.072	25.32	mg/L	0.072	0.29%
QC value within limits for Mg 279.077 Recovery = 101.27%								
Mn 257.610†	1296531.8	0.7556	mg/L	0.00142	0.7556	mg/L	0.00142	0.19%
QC value within limits for Mn 257.610 Recovery = 100.75%								
Mo 202.031†	130561.3	2.443	mg/L	0.0282	2.443	mg/L	0.0282	1.15%
QC value within limits for Mo 202.031 Recovery = 97.71%								
Ni 231.604†	305497.8	2.036	mg/L	0.0025	2.036	mg/L	0.0025	0.12%
QC value within limits for Ni 231.604 Recovery = 101.82%								
Na 330.237†	42719.7	23.41	mg/L	0.045	23.41	mg/L	0.045	0.19%
QC value within limits for Na 330.237 Recovery = 93.65%								
Pb 220.353†	14083.6	0.5144	mg/L	0.00735	0.5144	mg/L	0.00735	1.43%
QC value within limits for Pb 220.353 Recovery = 102.88%								
Sb 206.836†	28812.3	5.038	mg/L	0.0589	5.038	mg/L	0.0589	1.17%
QC value within limits for Sb 206.836 Recovery = 100.76%								
Se 196.026†	2920.0	0.5043	mg/L	0.00362	0.5043	mg/L	0.00362	0.72%
QC value within limits for Se 196.026 Recovery = 100.86%								
Sn 189.927†	150599.3	4.957	mg/L	0.0375	4.957	mg/L	0.0375	0.76%
QC value within limits for Sn 189.927 Recovery = 99.14%								
Ti 337.279†	1301545.6	2.547	mg/L	0.0299	2.547	mg/L	0.0299	1.18%
QC value within limits for Ti 337.279 Recovery = 101.89%								
Tl 190.801†	7804.1	1.017	mg/L	0.0105	1.017	mg/L	0.0105	1.03%
QC value within limits for Tl 190.801 Recovery = 101.67%								
V 292.402†	666092.7	2.477	mg/L	0.0183	2.477	mg/L	0.0183	0.74%
QC value within limits for V 292.402 Recovery = 99.06%								
Zn 206.200†	306500.3	1.006	mg/L	0.0034	1.006	mg/L	0.0034	0.34%
QC value within limits for Zn 206.200 Recovery = 100.62%								
Ca 227.546†	14375.3	25.15	mg/L	0.145	25.15	mg/L	0.145	0.57%
QC value within limits for Ca 227.546 Recovery = 100.59%								
Sr 460.733†	641885.5	2.483	mg/L	0.0052	2.483	mg/L	0.0052	0.21%
QC value within limits for Sr 460.733 Recovery = 99.33%								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 12
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/13/2010 3:38:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8533282.3	0.9773	mg/L	0.03735				3.82%
Ag 328.068†	-134.8	-0.0004	mg/L	0.00059	-0.0004	mg/L	0.00059	163.65%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	223.1	0.0052	mg/L	0.00598	0.0052	mg/L	0.00598	115.50%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	14.5	0.0017	mg/L	0.00003	0.0017	mg/L	0.00003	1.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	1550.0	0.0066	mg/L	0.00423	0.0066	mg/L	0.00423	63.69%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	1931.7	0.0054	mg/L	0.00087	0.0054	mg/L	0.00087	16.23%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	249.0	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	191.12%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	46.8	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	25.72%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	72.2	0.0005	mg/L	0.00018	0.0005	mg/L	0.00018	33.31%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	18.5	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	174.19%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1992.4	0.0042	mg/L	0.00139	0.0042	mg/L	0.00139	32.97%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	1385.6	0.0229	mg/L	0.02093	0.0229	mg/L	0.02093	91.46%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	-150.1						7.43	4.95%
Unable to evaluate QC.								
Mg 279.077†	164.7	0.0042	mg/L	0.00067	0.0042	mg/L	0.00067	16.00%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	517.6	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	26.53%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	56.9	0.0011	mg/L	0.00021	0.0011	mg/L	0.00021	20.06%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	66.9	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	17.51%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	-91.1	-0.0499	mg/L	0.09172	-0.0499	mg/L	0.09172	183.88%
QC value within limits for Na 330.237 Recovery = Not calculated								
Pb 220.353†	6.1	0.0002	mg/L	0.00082	0.0002	mg/L	0.00082	372.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	6.1	0.0011	mg/L	0.00120	0.0011	mg/L	0.00120	111.81%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-5.9	-0.0010	mg/L	0.00130	-0.0010	mg/L	0.00130	128.01%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	435.6	0.0143	mg/L	0.00231	0.0143	mg/L	0.00231	16.13%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	86.3	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	72.99%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	12.8	0.0017	mg/L	0.00007	0.0017	mg/L	0.00007	4.04%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	85.8	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	39.30%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	68.0	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	51.56%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Ca 227.546†	-20.6	-0.0344	mg/L	0.03206	-0.0344	mg/L	0.03206	93.08%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Sr 460.733†	157.8	0.0006	mg/L	0.00034	0.0006	mg/L	0.00034	55.87%
QC value within limits for Sr 460.733 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 13
Sample ID: PBS-117264

Autosampler Location: 38
Date Collected: 8/13/2010 3:44:11 PM

Analyst:
Initial Sample Wt: 1 g
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: PBS-117264

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8808871.9	1.009	mg/L	0.0137				1.36%
Ag 328.068†	57.3	0.0002	mg/L	0.00058				375.38%
Al 308.215†	-167.4	-0.0039	mg/L	0.00231				59.54%
As 188.979†	-16.8	-0.0020	mg/L	0.00221				112.83%
B 249.772†	-209.2	-0.0010	mg/L	0.00018				19.17%
Ba 233.527†	1101.6	0.0031	mg/L	0.00043				14.04%
Be 313.107†	649.5	0.0001	mg/L	0.00006				61.18%
Cd 226.502†	-25.1	-0.0001	mg/L	0.00002				28.34%
Co 228.616†	96.1	0.0007	mg/L	0.00012				16.05%
Cr 267.716†	190.7	0.0009	mg/L	0.00003				3.31%
Cu 324.752†	811.6	0.0017	mg/L	0.00023				13.44%
Fe 238.863†	1100.2	0.0182	mg/L	0.00898				49.42%
K 404.721†	-122.0						68.94	56.52%
Mg 279.077†	86.1	0.0022	mg/L	0.00737				338.06%
Mn 257.610†	724.8	0.0004	mg/L	0.00002				4.56%
Mo 202.031†	56.1	0.0011	mg/L	0.00003				3.07%
Ni 231.604†	113.8	0.0008	mg/L	0.00001				1.03%
Na 330.237†	394.9	0.2166	mg/L	0.03897				17.99%
Pb 220.353†	29.0	0.0011	mg/L	0.00035				33.14%
Sb 206.836†	-3.8	-0.0007	mg/L	0.00072				109.19%
Se 196.026†	2.6	0.0005	mg/L	0.00115				255.57%
Sn 189.927†	991.2	0.0326	mg/L	0.00538				16.50%
Ti 337.279†	224.9	0.0004	mg/L	0.00024				53.60%
Tl 190.801†	-5.3	-0.0007	mg/L	0.00008				12.38%
V 292.402†	69.4	0.0003	mg/L	0.00002				5.79%
Zn 206.200†	499.3	0.0016	mg/L	0.00008				4.64%
Ca 227.546†	-19.4	-0.0326	mg/L	0.00843				25.88%
Sr 460.733†	-43.4	-0.0002	mg/L	0.00028				169.52%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 14
Sample ID: LCSS 1/5
Analyst:
Initial Sample Wt: 1.01 g
Dilution: 5X

Autosampler Location: 39
Date Collected: 8/13/2010 3:49:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: LCSS 1/5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8613318.5	0.9864	mg/L	0.00134				0.14%
Ag 328.068†	61570.9	0.1675	mg/L	0.00077				0.46%
Al 308.215†	982179.1	22.78	mg/L	0.076				0.34%
As 188.979†	1425.8	0.1825	mg/L	0.00404				2.21%
B 249.772†	81688.3	0.2377	mg/L	0.00107				0.45%
Ba 233.527†	338072.0	0.9370	mg/L	0.00188				0.20%
Be 313.107†	794204.7	0.1209	mg/L	0.00003				0.03%
Cd 226.502†	72645.8	0.1868	mg/L	0.00232				1.24%
Co 228.616†	57034.4	0.4258	mg/L	0.00493				1.16%
Cr 267.716†	68526.0	0.3111	mg/L	0.00010				0.03%
Cu 324.752†	233813.6	0.5016	mg/L	0.00231				0.46%
Fe 238.863†	2343152.1	38.69	mg/L	0.088				0.23%
K 404.721†	1702.2						1.36	0.08%
Mg 279.077†	355940.5	9.030	mg/L	0.0247				0.27%
Mn 257.610†	1941323.7	1.132	mg/L	0.0025				0.22%
Mo 202.031†	7094.4	0.1345	mg/L	0.00380				2.82%
Ni 231.604†	66379.4	0.4424	mg/L	0.00032				0.07%
Na 330.237†	1659.5	0.9926	mg/L	0.06956				7.01%
Pb 220.353†	6482.0	0.2364	mg/L	0.00229				0.97%
Sb 206.836†	1797.3	0.3138	mg/L	0.00624				1.99%
Se 196.026†	2259.7	0.3999	mg/L	0.00423				1.06%
Sn 189.927†	10149.6	0.3415	mg/L	0.00486				1.42%
Ti 337.279†	467472.8	0.9147	mg/L	0.00192				0.21%

Tl 190.801†	4050.7	0.5293	mg/L	0.00890		1.68%
V 292.402†	98978.1	0.3715	mg/L	0.00079		0.21%
Zn 206.200†	186713.6	0.6124	mg/L	0.00106		0.17%
Ca 227.546†	9994.3	19.35	mg/L	0.085		0.44%
Sr 460.733†	70001.3	0.2703	mg/L	0.00084		0.31%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

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Sequence No.: 15
Sample ID: R1004314-001
Analyst:
Initial Sample Wt: 1 g
Dilution:

Autosampler Location: 40
Date Collected: 8/13/2010 3:54:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8531657.7	0.9771	mg/L	0.00542				0.55%
Ag 328.068†	-3348.0	-0.0031	mg/L	0.00089				28.35%
Al 308.215†	4073516.0	94.48	mg/L	0.378				0.40%
As 188.979†	-194.1	0.0143	mg/L	0.00050				3.47%
B 249.772†	81678.2	0.0761	mg/L	0.00629				8.26%
Ba 233.527†	103691.7	0.2835	mg/L	0.00120				0.42%
Be 313.107†	11889.1	0.0018	mg/L	0.00003				1.87%
Cd 226.502†	3095.0	0.0004	mg/L	0.00010				22.73%
Co 228.616†	1819.2	0.0116	mg/L	0.00040				3.46%
Cr 267.716†	21658.6	0.1012	mg/L	0.00099				0.98%
Cu 324.752†	22550.1	0.0638	mg/L	0.00016				0.24%
Fe 238.863†	5597983.5	92.43	mg/L	0.569				0.62%
K 404.721†	1271.6						111.17	8.74%
Mg 279.077†	133211.3	3.332	mg/L	0.0189				0.57%
Mn 257.610†	942853.4	0.5499	mg/L	0.00196				0.36%
Mo 202.031†	-65.6	0.0036	mg/L	0.00070				19.76%
Ni 231.604†	3461.0	0.0229	mg/L	0.00007				0.30%
Na 330.237†	-280.3	0.0646	mg/L	0.02550				39.45%
Pb 220.353†	5731.1	0.2136	mg/L	0.00062				0.29%
Sb 206.836†	10.7	0.0004	mg/L	0.00136				356.28%
Se 196.026†	-105.0	0.0055	mg/L	0.00127				22.91%
Sn 189.927†	701.2	0.0381	mg/L	0.00013				0.33%
Ti 337.279†	686941.1	1.344	mg/L	0.0107				0.79%
Tl 190.801†	-36.9	-0.0004	mg/L	0.00493				>999.9%
V 292.402†	67523.8	0.2596	mg/L	0.00274				1.05%
Zn 206.200†	34616.7	0.1111	mg/L	0.00101				0.91%
Ca 227.546†	160.1	5.219	mg/L	0.0645				1.23%
Sr 460.733†	2602.2	0.0099	mg/L	0.00041				4.11%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

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Sequence No.: 16
Sample ID: R1004314-001D
Analyst:
Initial Sample Wt: 1.01 g
Dilution:

Autosampler Location: 41
Date Collected: 8/13/2010 3:58:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-001D

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8528022.9	0.9767	mg/L	0.00415				0.42%
Ag 328.068†	-3441.6	-0.0032	mg/L	0.00098				30.60%
Al 308.215†	4362218.7	101.2	mg/L	0.10				0.10%
As 188.979†	-186.5	0.0164	mg/L	0.00090				5.51%
B 249.772†	83185.0	0.0732	mg/L	0.01477				20.19%
Ba 233.527†	110575.8	0.3025	mg/L	0.00015				0.05%
Be 313.107†	12584.9	0.0020	mg/L	0.00001				0.32%
Cd 226.502†	3186.3	0.0004	mg/L	0.00030				72.54%
Co 228.616†	1989.1	0.0128	mg/L	0.00002				0.13%
Cr 267.716†	23122.6	0.1079	mg/L	0.00104				0.97%
Cu 324.752†	23338.0	0.0660	mg/L	0.00027				0.41%
Fe 238.863†	5779107.5	95.42	mg/L	0.590				0.62%
K 404.721†	1641.3						109.56	6.68%

Mg 279.077†	149662.3	3.749	mg/L	0.0086	0.23%
Mn 257.610†	957563.7	0.5584	mg/L	0.00017	0.03%
Mo 202.031†	-93.5	0.0032	mg/L	0.00036	11.27%
Ni 231.604†	3789.1	0.0251	mg/L	0.00027	1.07%
Na 330.237†	-258.7	0.0826	mg/L	0.05283	63.94%
Pb 220.353†	7212.9	0.2682	mg/L	0.00515	1.92%
Sb 206.836†	26.7	0.0031	mg/L	0.00240	77.59%
Se 196.026†	-118.5	0.0039	mg/L	0.00436	112.99%
Sn 189.927†	732.9	0.0397	mg/L	0.00096	2.42%
Ti 337.279†	820788.9	1.606	mg/L	0.0507	3.15%
Tl 190.801†	-47.1	-0.0016	mg/L	0.00024	15.20%
V 292.402†	70575.4	0.2712	mg/L	0.00271	1.00%
Zn 206.200†	36984.4	0.1187	mg/L	0.00123	1.04%
Ca 227.546†	-30.1	5.054	mg/L	0.0008	0.02%
Sr 460.733†	2397.1	0.0091	mg/L	0.00040	4.37%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 17
Sample ID: R1004314-001S
Analyst:
Initial Sample Wt: 1 g
Dilution:

Autosampler Location: 42
Date Collected: 8/13/2010 4:02:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-001S

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8387442.8	0.9606	mg/L	0.00012				0.01%
Ag 328.068†	16635.8	0.0502	mg/L	0.00016				0.32%
Al 308.215†	4578592.3	106.2	mg/L	0.40				0.38%
As 188.979†	163.6	0.0548	mg/L	0.00227				4.15%
B 249.772†	292968.1	0.9982	mg/L	0.01438				1.44%
Ba 233.527†	874869.8	2.426	mg/L	0.0056				0.23%
Be 313.107†	350766.5	0.0534	mg/L	0.00009				0.17%
Cd 226.502†	22509.8	0.0515	mg/L	0.00065				1.25%
Co 228.616†	72742.3	0.5422	mg/L	0.00707				1.30%
Cr 267.716†	69496.5	0.3173	mg/L	0.00132				0.42%
Cu 324.752†	147600.3	0.3278	mg/L	0.00123				0.37%
Fe 238.863†	5404228.9	89.23	mg/L	0.240				0.27%
K 404.721†	4772.8						11.76	0.25%
Mg 279.077†	225890.1	5.691	mg/L	0.0144				0.25%
Mn 257.610†	1692310.7	0.9871	mg/L	0.00232				0.24%
Mo 202.031†	25721.1	0.4859	mg/L	0.00545				1.12%
Ni 231.604†	73603.1	0.4905	mg/L	0.00373				0.76%
Na 330.237†	36412.4	20.17	mg/L	0.102				0.51%
Pb 220.353†	20568.5	0.7561	mg/L	0.01018				1.35%
Sb 206.836†	2029.9	0.3534	mg/L	0.01276				3.61%
Se 196.026†	5410.8	0.9554	mg/L	0.00364				0.38%
Sn 189.927†	168664.0	5.562	mg/L	0.0302				0.54%
Ti 337.279†	1000664.2	1.958	mg/L	0.0284				1.45%
Tl 190.801†	15407.4	2.010	mg/L	0.0315				1.57%
V 292.402†	205005.4	0.7703	mg/L	0.00054				0.07%
Zn 206.200†	195843.2	0.6409	mg/L	0.00149				0.23%
Ca 227.546†	1357.3	7.135	mg/L	0.0121				0.17%
Sr 460.733†	2948.2	0.0113	mg/L	0.00044				3.88%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 18
Sample ID: R1004314-001A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 8/13/2010 4:06:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-001A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8357262.1	0.9571	mg/L	0.00411				0.43%
Ag 328.068†	15172.1	0.0465	mg/L	0.00061				1.32%
Al 308.215†	4096598.1	95.02	mg/L	0.084				0.09%

As 188.979†	167.7	0.0566	mg/L	0.00042		0.74%
B 249.772†	293944.9	0.9956	mg/L	0.00870		0.87%
Ba 233.527†	820522.7	2.275	mg/L	0.0013		0.06%
Be 313.107†	327640.0	0.0499	mg/L	0.00003		0.06%
Cd 226.502†	21280.8	0.0480	mg/L	0.00051		1.06%
Co 228.616†	68465.8	0.5102	mg/L	0.00083		0.16%
Cr 267.716†	65265.5	0.2983	mg/L	0.00047		0.16%
Cu 324.752†	139284.9	0.3109	mg/L	0.00063		0.20%
Fe 238.863†	5583482.3	92.19	mg/L	0.324		0.35%
K 404.721†	4545.4				107.39	2.36%
Mg 279.077†	209379.9	5.270	mg/L	0.0127		0.24%
Mn 257.610†	1787000.4	1.042	mg/L	0.0001		0.01%
Mo 202.031†	26110.1	0.4932	mg/L	0.00871		1.77%
Ni 231.604†	69583.2	0.4637	mg/L	0.00150		0.32%
Na 330.237†	33869.7	18.79	mg/L	0.016		0.09%
Pb 220.353†	18906.8	0.6940	mg/L	0.01126		1.62%
Sb 206.836†	2766.4	0.4822	mg/L	0.00781		1.62%
Se 196.026†	5701.7	1.007	mg/L	0.0041		0.41%
Sn 189.927†	670.8	0.0373	mg/L	0.00282		7.54%
Ti 337.279†	943007.6	1.845	mg/L	0.0322		1.74%
Tl 190.801†	14500.0	1.892	mg/L	0.0155		0.82%
V 292.402†	195492.0	0.7353	mg/L	0.00465		0.63%
Zn 206.200†	184551.8	0.6038	mg/L	0.00002		0.00%
Ca 227.546†	1218.3	7.039	mg/L	0.1793		2.55%
Sr 460.733†	2823.2	0.0107	mg/L	0.00042		3.94%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 19
Sample ID: R1004314-001L
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 8/13/2010 4:11:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-001L

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8821456.0	1.010	mg/L	0.0067				0.66%
Ag 328.068†	-843.0	-0.0010	mg/L	0.00007				6.97%
Al 308.215†	852468.6	19.77	mg/L	0.443				2.24%
As 188.979†	-44.5	0.0026	mg/L	0.00009				3.45%
B 249.772†	14010.5	0.0024	mg/L	0.00295				124.63%
Ba 233.527†	21299.5	0.0582	mg/L	0.00184				3.17%
Be 313.107†	2870.4	0.0004	mg/L	0.00001				1.21%
Cd 226.502†	610.9	0.0000	mg/L	0.00004				262.83%
Co 228.616†	417.8	0.0027	mg/L	0.00031				11.48%
Cr 267.716†	4436.8	0.0208	mg/L	0.00060				2.87%
Cu 324.752†	4933.8	0.0138	mg/L	0.00082				5.93%
Fe 238.863†	1176024.6	19.42	mg/L	0.466				2.40%
K 404.721†	385.3				149.27			38.74%
Mg 279.077†	27782.1	0.6949	mg/L	0.01665				2.40%
Mn 257.610†	196533.2	0.1146	mg/L	0.00277				2.42%
Mo 202.031†	-5.1	0.0009	mg/L	0.00027				30.05%
Ni 231.604†	753.5	0.0050	mg/L	0.00031				6.20%
Na 330.237†	-233.9	-0.0824	mg/L	0.00495				6.00%
Pb 220.353†	1182.7	0.0441	mg/L	0.00100				2.28%
Sb 206.836†	3.5	0.0003	mg/L	0.00009				30.15%
Se 196.026†	-25.6	0.0006	mg/L	0.00073				130.21%
Sn 189.927†	208.2	0.0100	mg/L	0.00043				4.29%
Ti 337.279†	141466.7	0.2768	mg/L	0.00574				2.07%
Tl 190.801†	15.1	0.0029	mg/L	0.00206				71.42%
V 292.402†	13789.7	0.0531	mg/L	0.00163				3.08%
Zn 206.200†	8180.1	0.0263	mg/L	0.00073				2.77%
Ca 227.546†	42.4	1.112	mg/L	0.0391				3.51%
Sr 460.733†	589.7	0.0022	mg/L	0.00006				2.87%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 20
Sample ID: R1004314-002
Analyst:

Autosampler Location: 45
Date Collected: 8/13/2010 4:17:00 PM
Data Type: Original

Initial Sample Wt: 1.05 g
Dilution:
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-002

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8717272.5	0.9983	mg/L	0.00283				0.28%
Ag 328.068†	-2504.6	-0.0019	mg/L	0.00060				32.13%
Al 308.215†	2348390.8	54.47	mg/L	0.160				0.29%
As 188.979†	-250.1	0.0013	mg/L	0.00160				122.44%
B 249.772†	61960.9	0.0441	mg/L	0.00096				2.18%
Ba 233.527†	29447.4	0.0781	mg/L	0.00115				1.47%
Be 313.107†	10984.0	0.0017	mg/L	0.00002				0.97%
Cd 226.502†	2292.1	-0.0003	mg/L	0.00036				109.19%
Co 228.616†	1384.7	0.0087	mg/L	0.00028				3.19%
Cr 267.716†	17091.2	0.0800	mg/L	0.00082				1.02%
Cu 324.752†	24214.9	0.0647	mg/L	0.00036				0.56%
Fe 238.863†	4596782.0	75.90	mg/L	0.456				0.60%
K 404.721†	627.8						58.64	9.34%
Mg 279.077†	49262.7	1.207	mg/L	0.0009				0.07%
Mn 257.610†	127561.8	0.0742	mg/L	0.00021				0.28%
Mo 202.031†	3.0	0.0037	mg/L	0.00066				17.62%
Ni 231.604†	2258.3	0.0150	mg/L	0.00015				0.99%
Na 330.237†	-463.1	-0.0643	mg/L	0.04726				73.52%
Pb 220.353†	1406.2	0.0523	mg/L	0.00177				3.39%
Sb 206.836†	17.4	-0.0020	mg/L	0.00539				269.95%
Se 196.026†	-114.6	0.0004	mg/L	0.00293				668.09%
Sn 189.927†	407.7	0.0250	mg/L	0.00005				0.21%
Ti 337.279†	593155.6	1.161	mg/L	0.0039				0.33%
Tl 190.801†	9.0	0.0047	mg/L	0.00359				76.58%
V 292.402†	68781.7	0.2627	mg/L	0.00111				0.42%
Zn 206.200†	16573.2	0.0526	mg/L	0.00083				1.58%
Ca 227.546†	-2057.6	0.4752	mg/L	0.05975				12.57%
Sr 460.733†	-152.3	-0.0008	mg/L	0.00047				61.87%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 21
Sample ID: R1004314-003
Analyst:
Initial Sample Wt: 1.02 g
Dilution:
Autosampler Location: 46
Date Collected: 8/13/2010 4:21:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8580006.8	0.9826	mg/L	0.00090				0.09%
Ag 328.068†	-3800.2	-0.0024	mg/L	0.00064				26.83%
Al 308.215†	4779779.1	110.9	mg/L	0.20				0.18%
As 188.979†	-300.2	0.0142	mg/L	0.00043				3.07%
B 249.772†	105323.3	0.0899	mg/L	0.00432				4.80%
Ba 233.527†	120677.5	0.3292	mg/L	0.00004				0.01%
Be 313.107†	14371.6	0.0022	mg/L	0.00002				0.80%
Cd 226.502†	4370.3	0.0012	mg/L	0.00014				11.28%
Co 228.616†	2361.4	0.0150	mg/L	0.00001				0.03%
Cr 267.716†	26271.8	0.1232	mg/L	0.00090				0.73%
Cu 324.752†	30727.7	0.0866	mg/L	0.00061				0.70%
Fe 238.863†	7433833.2	122.7	mg/L	0.34				0.28%
K 404.721†	1098.8						150.15	13.66%
Mg 279.077†	141417.6	3.522	mg/L	0.0056				0.16%
Mn 257.610†	1093742.9	0.6378	mg/L	0.00069				0.11%
Mo 202.031†	-160.3	0.0032	mg/L	0.00025				7.88%
Ni 231.604†	4168.1	0.0276	mg/L	0.00013				0.47%
Na 330.237†	-537.2	0.0023	mg/L	0.00070				31.04%
Pb 220.353†	4827.0	0.1804	mg/L	0.00132				0.73%
Sb 206.836†	7.1	-0.0006	mg/L	0.00268				427.31%
Se 196.026†	-150.2	0.0060	mg/L	0.00381				63.48%
Sn 189.927†	642.5	0.0406	mg/L	0.00060				1.48%
Ti 337.279†	823559.7	1.612	mg/L	0.0094				0.58%
Tl 190.801†	-45.9	-0.0002	mg/L	0.00185				869.31%

V 292.402†	80192.0	0.3095 mg/L	0.00079		0.26%
Zn 206.200†	56867.3	0.1836 mg/L	0.00128		0.70%
Ca 227.546†	-1411.5	4.106 mg/L	0.1992		4.85%
Sr 460.733†	3937.3	0.0150 mg/L	0.00036		2.41%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 22
Sample ID: R1004314-004
Analyst:
Initial Sample Wt: 1.03 g
Dilution:

Autosampler Location: 47
Date Collected: 8/13/2010 4:25:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-004

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8550938.4	0.9793	mg/L	0.00624				0.64%
Ag 328.068†	-3580.4	-0.0041	mg/L	0.00011				2.64%
Al 308.215†	4503375.0	104.5	mg/L	0.27				0.26%
As 188.979†	-256.6	0.0051	mg/L	0.00231				45.60%
B 249.772†	71626.3	0.0445	mg/L	0.00292				6.57%
Ba 233.527†	122467.0	0.3359	mg/L	0.00080				0.24%
Be 313.107†	13150.5	0.0020	mg/L	0.00001				0.26%
Cd 226.502†	2786.4	0.0000	mg/L	0.00011				>999.9%
Co 228.616†	2116.5	0.0140	mg/L	0.00044				3.19%
Cr 267.716†	25948.0	0.1205	mg/L	0.00004				0.04%
Cu 324.752†	33289.6	0.0856	mg/L	0.00039				0.46%
Fe 238.863†	5316135.0	87.77	mg/L	0.060				0.07%
K 404.721†	1765.5						11.38	0.64%
Mg 279.077†	209294.6	5.270	mg/L	0.0054				0.10%
Mn 257.610†	677310.3	0.3949	mg/L	0.00053				0.13%
Mo 202.031†	25.1	0.0052	mg/L	0.00056				10.79%
Ni 231.604†	4094.2	0.0272	mg/L	0.00003				0.10%
Na 330.237†	-184.5	0.1021	mg/L	0.06464				63.31%
Pb 220.353†	3886.1	0.1478	mg/L	0.00309				2.09%
Sb 206.836†	23.3	0.0025	mg/L	0.00055				21.80%
Se 196.026†	-96.5	0.0053	mg/L	0.00220				41.14%
Sn 189.927†	634.6	0.0355	mg/L	0.00053				1.50%
Ti 337.279†	1028526.4	2.013	mg/L	0.0023				0.11%
Tl 190.801†	1.3	0.0044	mg/L	0.00229				52.20%
V 292.402†	72263.0	0.2768	mg/L	0.00043				0.15%
Zn 206.200†	41803.8	0.1346	mg/L	0.00047				0.35%
Ca 227.546†	-358.5	4.088	mg/L	0.1297				3.17%
Sr 460.733†	1956.6	0.0075	mg/L	0.00010				1.35%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 23
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2010 4:29:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8549893.2	0.9792	mg/L	0.00181				0.19%
Ag 328.068†	186687.6	0.5008	mg/L	0.00288	0.5008	mg/L	0.00288	0.58%
QC value within limits for Ag 328.068 Recovery = 100.17%								
Al 308.215†	428019.7	9.923	mg/L	0.0052	9.923	mg/L	0.0052	0.05%
QC value within limits for Al 308.215 Recovery = 99.23%								
As 188.979†	8432.3	0.9884	mg/L	0.00098	0.9884	mg/L	0.00098	0.10%
QC value within limits for As 188.979 Recovery = 98.84%								
B 249.772†	551279.4	2.368	mg/L	0.0096	2.368	mg/L	0.0096	0.41%
QC value within limits for B 249.772 Recovery = 94.70%								
Ba 233.527†	3577203.7	9.936	mg/L	0.0132	9.936	mg/L	0.0132	0.13%
QC value within limits for Ba 233.527 Recovery = 99.36%								
Be 313.107†	1612459.8	0.2455	mg/L	0.00032	0.2455	mg/L	0.00032	0.13%
QC value within limits for Be 313.107 Recovery = 98.18%								
Cd 226.502†	188523.7	0.4927	mg/L	0.00193	0.4927	mg/L	0.00193	0.39%

QC value within limits for Cd 226.502 Recovery = 98.53%

Co 228.616†	328888.6	2.460 mg/L	0.0057	2.460 mg/L	0.0057	0.23%
QC value within limits for Co 228.616 Recovery = 98.41%						
Cr 267.716†	110046.9	0.4977 mg/L	0.00046	0.4977 mg/L	0.00046	0.09%
QC value within limits for Cr 267.716 Recovery = 99.54%						
Cu 324.752†	579388.6	1.227 mg/L	0.0044	1.227 mg/L	0.0044	0.36%
QC value within limits for Cu 324.752 Recovery = 98.14%						
Fe 238.863†	302638.0	4.989 mg/L	0.0105	4.989 mg/L	0.0105	0.21%
QC value within limits for Fe 238.863 Recovery = 99.79%						
K 404.721†	4268.4				144.86	3.39%
Unable to evaluate QC.						
Mg 279.077†	980894.8	24.95 mg/L	0.006	24.95 mg/L	0.006	0.03%
QC value within limits for Mg 279.077 Recovery = 99.78%						
Mn 257.610†	1279879.5	0.7459 mg/L	0.00098	0.7459 mg/L	0.00098	0.13%
QC value within limits for Mn 257.610 Recovery = 99.45%						
Mo 202.031†	129054.0	2.415 mg/L	0.0203	2.415 mg/L	0.0203	0.84%
QC value within limits for Mo 202.031 Recovery = 96.58%						
Ni 231.604†	301495.2	2.010 mg/L	0.0069	2.010 mg/L	0.0069	0.34%
QC value within limits for Ni 231.604 Recovery = 100.48%						
Na 330.237†	42264.0	23.16 mg/L	0.034	23.16 mg/L	0.034	0.15%
QC value within limits for Na 330.237 Recovery = 92.65%						
Pb 220.353†	13670.0	0.4993 mg/L	0.00740	0.4993 mg/L	0.00740	1.48%
QC value within limits for Pb 220.353 Recovery = 99.86%						
Sb 206.836†	28409.7	4.968 mg/L	0.0474	4.968 mg/L	0.0474	0.95%
QC value within limits for Sb 206.836 Recovery = 99.35%						
Se 196.026†	2881.5	0.4976 mg/L	0.00026	0.4976 mg/L	0.00026	0.05%
QC value within limits for Se 196.026 Recovery = 99.53%						
Sn 189.927†	149384.4	4.917 mg/L	0.0019	4.917 mg/L	0.0019	0.04%
QC value within limits for Sn 189.927 Recovery = 98.34%						
Ti 337.279†	1294288.6	2.533 mg/L	0.0382	2.533 mg/L	0.0382	1.51%
QC value within limits for Ti 337.279 Recovery = 101.32%						
Tl 190.801†	7695.5	1.003 mg/L	0.0021	1.003 mg/L	0.0021	0.20%
QC value within limits for Tl 190.801 Recovery = 100.25%						
V 292.402†	656413.1	2.441 mg/L	0.0094	2.441 mg/L	0.0094	0.39%
QC value within limits for V 292.402 Recovery = 97.62%						
Zn 206.200†	301848.1	0.9909 mg/L	0.00129	0.9909 mg/L	0.00129	0.13%
QC value within limits for Zn 206.200 Recovery = 99.09%						
Ca 227.546†	14163.4	24.78 mg/L	0.063	24.78 mg/L	0.063	0.26%
QC value within limits for Ca 227.546 Recovery = 99.12%						
Sr 460.733†	632115.9	2.445 mg/L	0.0012	2.445 mg/L	0.0012	0.05%
QC value within limits for Sr 460.733 Recovery = 97.82%						

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 24 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/13/2010 4:34:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8935359.7	1.023	mg/L	0.0046				0.45%
Ag 328.068†	-109.4	-0.0003	mg/L	0.00025	-0.0003	mg/L	0.00025	83.70%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-283.1	-0.0066	mg/L	0.00127	-0.0066	mg/L	0.00127	19.35%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-1.1	-0.0001	mg/L	0.00046	-0.0001	mg/L	0.00046	343.52%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-4397.6	-0.0190	mg/L	0.00252	-0.0190	mg/L	0.00252	13.24%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	-315.4	-0.0009	mg/L	0.00022	-0.0009	mg/L	0.00022	25.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	818.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.56%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	2.5	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	74.05%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	41.5	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	10.82%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	7.5	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	214.60%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	1544.7	0.0033	mg/L	0.00072	0.0033	mg/L	0.00072 21.89%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.863†	-102.6	-0.0017	mg/L	0.00257	-0.0017	mg/L	0.00257 151.23%

QC value within limits for Fe 238.863 Recovery = Not calculated

K 404.721†	-96.2						111.70 116.14%

Unable to evaluate QC.

Mg 279.077†	-89.7	-0.0023	mg/L	0.00237	-0.0023	mg/L	0.00237 104.11%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	282.7	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002 12.53%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	58.6	0.0011	mg/L	0.00021	0.0011	mg/L	0.00021 19.33%

QC value within limits for Mo 202.031 Recovery = Not calculated

Ni 231.604†	13.6	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000 2.93%

QC value within limits for Ni 231.604 Recovery = Not calculated

Na 330.237†	-475.7	-0.2609	mg/L	0.01357	-0.2609	mg/L	0.01357 5.20%

QC value within limits for Na 330.237 Recovery = Not calculated

Pb 220.353†	16.0	0.0006	mg/L	0.00001	0.0006	mg/L	0.00001 1.10%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	6.5	0.0011	mg/L	0.00018	0.0011	mg/L	0.00018 15.45%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	-7.2	-0.0013	mg/L	0.00092	-0.0013	mg/L	0.00092 73.21%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	284.8	0.0094	mg/L	0.00142	0.0094	mg/L	0.00142 15.20%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279†	158.2	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002 6.11%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	19.0	0.0025	mg/L	0.00013	0.0025	mg/L	0.00013 5.19%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	36.6	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007 50.95%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	55.9	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001 7.18%

QC value within limits for Zn 206.200 Recovery = Not calculated

Ca 227.546†	23.2	0.0400	mg/L	0.00757	0.0400	mg/L	0.00757 18.93%

QC value within limits for Ca 227.546 Recovery = Not calculated

Sr 460.733†	146.2	0.0006	mg/L	0.00007	0.0006	mg/L	0.00007 11.83%

QC value within limits for Sr 460.733 Recovery = Not calculated

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 25 **Autosampler Location: 48**
Sample ID: R1004314-005 **Date Collected: 8/13/2010 4:39:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: 1 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 100 mL**

Mean Data: R1004314-005

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8569270.4	0.9814	mg/L	0.00068				0.07%
Ag 328.068†	-3101.4	-0.0017	mg/L	0.00037				21.55%
Al 308.215†	4948643.4	114.8	mg/L	0.17				0.15%
As 188.979†	-240.6	0.0136	mg/L	0.00827				60.89%
B 249.772†	88070.8	0.0671	mg/L	0.00392				5.83%
Ba 233.527†	108293.8	0.2957	mg/L	0.00012				0.04%
Be 313.107†	14027.3	0.0022	mg/L	0.00002				0.75%
Cd 226.502†	3507.4	0.0005	mg/L	0.00025				46.88%
Co 228.616†	2306.9	0.0150	mg/L	0.00042				2.79%
Cr 267.716†	23677.8	0.1108	mg/L	0.00195				1.76%
Cu 324.752†	23223.9	0.0673	mg/L	0.00009				0.13%
Fe 238.863†	6312018.8	104.2	mg/L	0.10				0.10%
K 404.721†	1229.6						161.23	13.11%
Mg 279.077†	137843.8	3.443	mg/L	0.0030				0.09%
Mn 257.610†	1198037.4	0.6987	mg/L	0.00015				0.02%
Mo 202.031†	-168.8	0.0023	mg/L	0.00028				12.11%
Ni 231.604†	4571.5	0.0303	mg/L	0.00054				1.78%
Na 330.237†	-651.9	-0.1148	mg/L	0.02087				18.18%
Pb 220.353†	5797.4	0.2176	mg/L	0.00400				1.84%
Sb 206.836†	4.9	-0.0009	mg/L	0.00273				305.78%
Se 196.026†	-144.1	0.0015	mg/L	0.00213				138.73%
Sn 189.927†	737.4	0.0414	mg/L	0.00087				2.10%

Ti 337.279†	858233.0	1.679	mg/L	0.0096	0.57%
Tl 190.801†	-10.6	0.0036	mg/L	0.00117	32.68%
V 292.402†	69017.5	0.2662	mg/L	0.00034	0.13%
Zn 206.200†	38249.6	0.1226	mg/L	0.00239	1.95%
Ca 227.546†	888.2	7.118	mg/L	0.0583	0.82%
Sr 460.733†	4052.7	0.0155	mg/L	0.00036	2.30%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 26
Sample ID: R1004314-006
Analyst:
Initial Sample Wt: 1.04 g
Dilution:

Autosampler Location: 49
Date Collected: 8/13/2010 4:44:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-006

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8713033.0	0.9978	mg/L	0.00293				0.29%
Ag 328.068†	-3664.7	-0.0050	mg/L	0.00029				5.89%
Al 308.215†	5110166.5	118.5	mg/L	0.11				0.09%
As 188.979†	-213.8	0.0057	mg/L	0.00152				26.54%
B 249.772†	62354.6	0.0321	mg/L	0.00060				1.86%
Ba 233.527†	185409.3	0.5112	mg/L	0.00039				0.08%
Be 313.107†	16504.5	0.0026	mg/L	0.00002				0.83%
Cd 226.502†	2317.5	-0.0003	mg/L	0.00005				13.93%
Co 228.616†	2418.3	0.0165	mg/L	0.00042				2.58%
Cr 267.716†	31498.0	0.1452	mg/L	0.00185				1.28%
Cu 324.752†	27690.0	0.0717	mg/L	0.00023				0.32%
Fe 238.863†	4685828.1	77.36	mg/L	0.198				0.26%
K 404.721†	3002.5						42.72	1.42%
Mg 279.077†	320743.8	8.111	mg/L	0.0018				0.02%
Mn 257.610†	600691.9	0.3502	mg/L	0.00008				0.02%
Mo 202.031†	-75.4	0.0030	mg/L	0.00051				16.82%
Ni 231.604†	4805.0	0.0319	mg/L	0.00028				0.89%
Na 330.237†	-201.4	0.0617	mg/L	0.00781				12.66%
Pb 220.353†	2356.8	0.0944	mg/L	0.00223				2.37%
Sb 206.836†	19.2	0.0018	mg/L	0.00587				328.32%
Se 196.026†	-77.3	0.0052	mg/L	0.00155				29.84%
Sn 189.927†	663.8	0.0353	mg/L	0.00020				0.56%
Ti 337.279†	1564882.5	3.063	mg/L	0.0101				0.33%
Tl 190.801†	-30.3	-0.0001	mg/L	0.00384				>999.9%
V 292.402†	68434.2	0.2616	mg/L	0.00161				0.62%
Zn 206.200†	38403.7	0.1233	mg/L	0.00139				1.13%
Ca 227.546†	-1446.4	1.673	mg/L	0.0287				1.72%
Sr 460.733†	299.0	0.0013	mg/L	0.00025				19.83%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 27
Sample ID: R1004314-007
Analyst:
Initial Sample Wt: 1.05 g
Dilution:

Autosampler Location: 50
Date Collected: 8/13/2010 4:48:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-007

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8264694.1	0.9465	mg/L	0.00420				0.44%
Ag 328.068†	-5971.8	-0.0018	mg/L	0.00019				10.62%
Al 308.215†	6928721.9	160.7	mg/L	0.78				0.49%
As 188.979†	-631.3	0.0161	mg/L	0.00560				34.82%
B 249.772†	192378.4	0.1730	mg/L	0.01641				9.48%
Ba 233.527†	95037.5	0.2531	mg/L	0.00171				0.68%
Be 313.107†	19998.7	0.0031	mg/L	0.00004				1.27%
Cd 226.502†	6763.5	-0.0009	mg/L	0.00007				8.14%
Co 228.616†	3631.6	0.0223	mg/L	0.00015				0.69%
Cr 267.716†	44360.1	0.2086	mg/L	0.00084				0.40%
Cu 324.752†	23440.1	0.0891	mg/L	0.00078				0.87%
Fe 238.863†	13525105.0	223.3	mg/L	1.19				0.53%

K 404.721†	172.6					19.94	11.55%
Mg 279.077†	152116.0	3.733	mg/L	0.0131			0.35%
Mn 257.610†	893638.7	0.5208	mg/L	0.00275			0.53%
Mo 202.031†	-301.3	0.0052	mg/L	0.00016			3.07%
Ni 231.604†	6380.1	0.0422	mg/L	0.00034			0.81%
Na 330.237†	-347.9	0.3642	mg/L	0.03676			10.09%
Pb 220.353†	2745.2	0.1033	mg/L	0.00360			3.49%
Sb 206.836†	17.8	0.0000	mg/L	0.00284			>999.9%
Se 196.026†	-293.1	0.0089	mg/L	0.00219			24.74%
Sn 189.927†	741.4	0.0587	mg/L	0.00069			1.18%
Ti 337.279†	1445294.6	2.828	mg/L	0.0129			0.46%
Tl 190.801†	-74.1	0.0007	mg/L	0.00416			607.81%
V 292.402†	122712.6	0.4769	mg/L	0.00021			0.04%
Zn 206.200†	43988.1	0.1391	mg/L	0.00033			0.24%
Ca 227.546†	-3903.3	5.120	mg/L	0.0490			0.96%
Sr 460.733†	9382.6	0.0357	mg/L	0.00056			1.57%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 28
Sample ID: R1004314-008
Analyst:
Initial Sample Wt: 1.03 g
Dilution:

Autosampler Location: 51
Date Collected: 8/13/2010 4:52:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-008

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8471903.9	0.9702	mg/L	0.02067				2.13%
Ag 328.068†	-4473.0	-0.0054	mg/L	0.00003				0.60%
Al 308.215†	4321044.6	100.2	mg/L	2.05				2.04%
As 188.979†	-308.5	0.0055	mg/L	0.00085				15.40%
B 249.772†	88457.3	0.0725	mg/L	0.00135				1.86%
Ba 233.527†	128653.1	0.3523	mg/L	0.00698				1.98%
Be 313.107†	21048.2	0.0032	mg/L	0.00002				0.67%
Cd 226.502†	3135.3	-0.0004	mg/L	0.00008				17.76%
Co 228.616†	3219.9	0.0219	mg/L	0.00086				3.92%
Cr 267.716†	26513.6	0.1236	mg/L	0.00197				1.59%
Cu 324.752†	28022.2	0.0774	mg/L	0.00159				2.05%
Fe 238.863†	6284681.7	103.8	mg/L	2.43				2.34%
K 404.721†	3486.8						46.38	1.33%
Mg 279.077†	358696.9	9.060	mg/L	0.1797				1.98%
Mn 257.610†	502452.6	0.2927	mg/L	0.00596				2.04%
Mo 202.031†	-161.1	0.0023	mg/L	0.00069				30.01%
Ni 231.604†	4532.9	0.0301	mg/L	0.00064				2.13%
Na 330.237†	-557.7	-0.0549	mg/L	0.02335				42.50%
Pb 220.353†	2690.3	0.1025	mg/L	0.00313				3.05%
Sb 206.836†	-6.5	-0.0028	mg/L	0.00411				147.56%
Se 196.026†	-134.1	0.0036	mg/L	0.00303				83.39%
Sn 189.927†	435.6	0.0311	mg/L	0.00011				0.37%
Ti 337.279†	1930485.6	3.778	mg/L	0.0734				1.94%
Tl 190.801†	-9.1	0.0037	mg/L	0.00127				33.82%
V 292.402†	80714.8	0.3097	mg/L	0.00730				2.36%
Zn 206.200†	41614.4	0.1337	mg/L	0.00142				1.06%
Ca 227.546†	-2953.8	0.4316	mg/L	0.02369				5.49%
Sr 460.733†	-2479.5	-0.0097	mg/L	0.00029				3.01%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 29
Sample ID: R1004314-009
Analyst:
Initial Sample Wt: 1.03 g
Dilution:

Autosampler Location: 52
Date Collected: 8/13/2010 4:56:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-009

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8622595.4	0.9875	mg/L	0.00527				0.53%
Ag 328.068†	-5207.7	-0.0015	mg/L	0.00021				13.95%

Al 308.215†	5721978.8	132.7	mg/L	0.22			0.17%
As 188.979†	-556.8	0.0134	mg/L	0.00010			0.71%
B 249.772†	170524.7	0.1630	mg/L	0.00112			0.69%
Ba 233.527†	100318.5	0.2691	mg/L	0.00027			0.10%
Be 313.107†	18888.5	0.0029	mg/L	0.00002			0.81%
Cd 226.502†	5958.0	-0.0007	mg/L	0.00024			36.50%
Co 228.616†	3516.0	0.0220	mg/L	0.00006			0.25%
Cr 267.716†	43298.6	0.2027	mg/L	0.00018			0.09%
Cu 324.752†	18419.4	0.0735	mg/L	0.00020			0.27%
Fe 238.863†	11809450.2	195.0	mg/L	0.64			0.33%
K 404.721†	542.6					84.74	15.62%
Mg 279.077†	145338.0	3.578	mg/L	0.0039			0.11%
Mn 257.610†	1017188.6	0.5929	mg/L	0.00036			0.06%
Mo 202.031†	-267.5	0.0044	mg/L	0.00050			11.49%
Ni 231.604†	5335.7	0.0353	mg/L	0.00007			0.20%
Na 330.237†	49.0	0.5131	mg/L	0.07305			14.24%
Pb 220.353†	3184.4	0.1180	mg/L	0.00068			0.57%
Sb 206.836†	31.2	0.0028	mg/L	0.00015			5.37%
Se 196.026†	-243.5	0.0101	mg/L	0.00338			33.41%
Sn 189.927†	577.3	0.0489	mg/L	0.00121			2.48%
Ti 337.279†	1347686.8	2.637	mg/L	0.0068			0.26%
Tl 190.801†	-57.5	0.0015	mg/L	0.00260			171.03%
V 292.402†	106822.2	0.4152	mg/L	0.00054			0.13%
Zn 206.200†	38154.2	0.1207	mg/L	0.00018			0.15%
Ca 227.546†	-2861.6	5.409	mg/L	0.0951			1.76%
Sr 460.733†	8799.7	0.0335	mg/L	0.00032			0.96%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 30 **Autosampler Location: 53**
Sample ID: R1004314-010 **Date Collected: 8/13/2010 5:01:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: 1.02 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 100 mL**

Mean Data: R1004314-010

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8466147.8	0.9696	mg/L	0.00387				0.40%
Ag 328.068†	-4374.7	-0.0020	mg/L	0.00048				24.03%
Al 308.215†	5655805.6	131.2	mg/L	0.41				0.32%
As 188.979†	-387.8	0.0160	mg/L	0.00107				6.64%
B 249.772†	133368.1	0.1229	mg/L	0.00259				2.11%
Ba 233.527†	84877.6	0.2283	mg/L	0.00078				0.34%
Be 313.107†	10869.0	0.0017	mg/L	0.00001				0.69%
Cd 226.502†	4424.8	-0.0011	mg/L	0.00001				0.62%
Co 228.616†	1606.8	0.0087	mg/L	0.00022				2.58%
Cr 267.716†	41648.3	0.1938	mg/L	0.00117				0.60%
Cu 324.752†	13621.5	0.0557	mg/L	0.00014				0.25%
Fe 238.863†	9259562.6	152.9	mg/L	0.01				0.00%
K 404.721†	809.6						123.28	15.23%
Mg 279.077†	119338.0	2.942	mg/L	0.0106				0.36%
Mn 257.610†	221635.8	0.1290	mg/L	0.00029				0.23%
Mo 202.031†	-248.0	0.0030	mg/L	0.00015				4.97%
Ni 231.604†	4075.9	0.0270	mg/L	0.00092				3.41%
Na 330.237†	-612.8	0.0398	mg/L	0.11512				289.27%
Pb 220.353†	2931.6	0.1115	mg/L	0.00102				0.92%
Sb 206.836†	15.9	0.0005	mg/L	0.00228				448.78%
Se 196.026†	-193.6	0.0066	mg/L	0.00108				16.31%
Sn 189.927†	581.3	0.0428	mg/L	0.00030				0.69%
Ti 337.279†	789703.1	1.545	mg/L	0.0001				0.01%
Tl 190.801†	-29.6	0.0033	mg/L	0.00120				36.53%
V 292.402†	75834.9	0.2961	mg/L	0.00133				0.45%
Zn 206.200†	26036.6	0.0816	mg/L	0.00152				1.86%
Ca 227.546†	-4577.4	0.2297	mg/L	0.16134				70.23%
Sr 460.733†	-890.3	-0.0037	mg/L	0.00015				3.98%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 31 **Autosampler Location: 54**
Sample ID: R1004314-011 **Date Collected: 8/13/2010 5:05:45 PM**

Analyst:
Initial Sample Wt: 1.02 g
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-011

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8397856.7	0.9617	mg/L	0.00263				0.27%
Ag 328.068†	-4857.7	-0.0004	mg/L	0.00123				327.67%
Al 308.215†	5632480.4	130.6	mg/L	0.13				0.10%
As 188.979†	-516.0	0.0195	mg/L	0.00244				12.48%
B 249.772†	177740.0	0.1854	mg/L	0.03033				16.36%
Ba 233.527†	113990.7	0.3070	mg/L	0.00228				0.74%
Be 313.107†	15981.1	0.0025	mg/L	0.00002				0.77%
Cd 226.502†	5977.1	-0.0009	mg/L	0.00010				11.37%
Co 228.616†	2727.2	0.0161	mg/L	0.00007				0.45%
Cr 267.716†	39191.7	0.1843	mg/L	0.00107				0.58%
Cu 324.752†	18400.7	0.0741	mg/L	0.00051				0.69%
Fe 238.863†	12001551.3	198.2	mg/L	0.53				0.27%
K 404.721†	113.9				130.00		114.10	0.90%
Mg 279.077†	143350.3	3.525	mg/L	0.0318				0.62%
Mn 257.610†	553679.1	0.3225	mg/L	0.00201				6.73%
Mo 202.031†	-243.1	0.0050	mg/L	0.00033				2.24%
Ni 231.604†	4417.5	0.0292	mg/L	0.00065				5.86%
Na 330.237†	-482.7	0.2300	mg/L	0.01348				1.15%
Pb 220.353†	2064.2	0.0767	mg/L	0.00088				47.26%
Sb 206.836†	25.7	0.0018	mg/L	0.00087				83.91%
Se 196.026†	-276.4	0.0054	mg/L	0.00453				1.95%
Sn 189.927†	566.9	0.0491	mg/L	0.00096				2.40%
Ti 337.279†	840763.7	1.645	mg/L	0.0395				84.30%
Tl 190.801†	-44.5	0.0033	mg/L	0.00281				1.38%
V 292.402†	104383.2	0.4064	mg/L	0.00560				0.50%
Zn 206.200†	57894.3	0.1855	mg/L	0.00094				2.59%
Ca 227.546†	-2312.2	6.524	mg/L	0.1688				1.04%
Sr 460.733†	11030.9	0.0421	mg/L	0.00044				

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 32
Sample ID: R1004314-012
Analyst:
Initial Sample Wt: 1 g
Dilution:

Autosampler Location: 55
Date Collected: 8/13/2010 5:10:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-012

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8679630.8	0.9940	mg/L	0.00293				0.30%
Ag 328.068†	-5581.1	-0.0019	mg/L	0.00029				15.34%
Al 308.215†	5204823.4	120.7	mg/L	0.63				0.52%
As 188.979†	-623.2	0.0095	mg/L	0.00377				39.69%
B 249.772†	175010.3	0.1584	mg/L	0.00097				0.61%
Ba 233.527†	89811.9	0.2396	mg/L	0.00211				0.88%
Be 313.107†	18832.4	0.0029	mg/L	0.00002				0.65%
Cd 226.502†	6288.1	-0.0006	mg/L	0.00036				62.45%
Co 228.616†	2810.2	0.0165	mg/L	0.00031				1.86%
Cr 267.716†	36151.2	0.1708	mg/L	0.00054				0.32%
Cu 324.752†	36888.5	0.1144	mg/L	0.00062				0.54%
Fe 238.863†	12365896.4	204.2	mg/L	0.73				0.36%
K 404.721†	671.0				16.65		2.48	0.75%
Mg 279.077†	226174.1	5.628	mg/L	0.0422				0.87%
Mn 257.610†	301555.2	0.1753	mg/L	0.00152				6.55%
Mo 202.031†	-359.0	0.0029	mg/L	0.00019				2.79%
Ni 231.604†	4363.7	0.0288	mg/L	0.00080				519.21%
Na 330.237†	-933.8	0.0070	mg/L	0.03634				0.29%
Pb 220.353†	3113.8	0.1133	mg/L	0.00033				113.94%
Sb 206.836†	7.4	-0.0013	mg/L	0.00151				70.78%
Se 196.026†	-279.5	0.0070	mg/L	0.00494				0.95%
Sn 189.927†	457.0	0.0458	mg/L	0.00043				1.18%
Ti 337.279†	1508046.5	2.951	mg/L	0.0349				

Tl 190.801†	-72.1	0.0000 mg/L	0.00025		>999.9%
V 292.402†	102604.2	0.4004 mg/L	0.00282		0.71%
Zn 206.200†	38971.7	0.1233 mg/L	0.00138		1.12%
Ca 227.546†	-6151.3	0.1864 mg/L	0.10055		53.93%
Sr 460.733†	-67.7	-0.0008 mg/L	0.00012		15.51%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 33
Sample ID: R1004314-013
Analyst:
Initial Sample Wt: 1.04 g
Dilution:

Autosampler Location: 56
Date Collected: 8/13/2010 5:14:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-013

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8405678.5	0.9626	mg/L	0.00630				0.65%
Ag 328.068†	-5047.1	-0.0009	mg/L	0.00039				45.02%
Al 308.215†	6098658.2	141.5	mg/L	0.57				0.40%
As 188.979†	-514.1	0.0199	mg/L	0.00154				7.76%
B 249.772†	174482.0	0.1682	mg/L	0.01350				8.03%
Ba 233.527†	104584.0	0.2808	mg/L	0.00074				0.26%
Be 313.107†	19290.4	0.0030	mg/L	0.00001				0.41%
Cd 226.502†	6008.2	-0.0008	mg/L	0.00019				22.20%
Co 228.616†	7042.4	0.0483	mg/L	0.00001				0.03%
Cr 267.716†	37820.8	0.1781	mg/L	0.00068				0.38%
Cu 324.752†	21589.0	0.0809	mg/L	0.00077				0.95%
Fe 238.863†	12033945.8	198.7	mg/L	0.71				0.36%
K 404.721†	314.9						121.73	38.66%
Mg 279.077†	132301.2	3.244	mg/L	0.0060				0.19%
Mn 257.610†	1145478.8	0.6678	mg/L	0.00186				0.28%
Mo 202.031†	-235.5	0.0052	mg/L	0.00027				5.13%
Ni 231.604†	5619.4	0.0372	mg/L	0.00083				2.23%
Na 330.237†	-168.3	0.3995	mg/L	0.05454				13.65%
Pb 220.353†	2479.8	0.0931	mg/L	0.00133				1.43%
Sb 206.836†	41.9	0.0046	mg/L	0.00033				7.16%
Se 196.026†	-243.2	0.0109	mg/L	0.00216				19.74%
Sn 189.927†	566.8	0.0494	mg/L	0.00058				1.18%
Ti 337.279†	1316926.6	2.577	mg/L	0.0194				0.75%
Tl 190.801†	-74.8	-0.0005	mg/L	0.00358				653.51%
V 292.402†	111964.1	0.4347	mg/L	0.00295				0.68%
Zn 206.200†	39250.6	0.1241	mg/L	0.00047				0.38%
Ca 227.546†	-1658.9	7.693	mg/L	0.1207				1.57%
Sr 460.733†	8141.8	0.0309	mg/L	0.00026				0.84%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 34
Sample ID: R1004314-014
Analyst:
Initial Sample Wt: 1 g
Dilution:

Autosampler Location: 57
Date Collected: 8/13/2010 5:18:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-014

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8574798.6	0.9820	mg/L	0.00493				0.50%
Ag 328.068†	-4989.3	-0.0046	mg/L	0.00007				1.58%
Al 308.215†	6186177.9	143.5	mg/L	0.51				0.36%
As 188.979†	-279.9	0.0224	mg/L	0.00036				1.59%
B 249.772†	115494.5	0.0867	mg/L	0.00039				0.45%
Ba 233.527†	99226.8	0.2689	mg/L	0.00037				0.14%
Be 313.107†	15146.0	0.0024	mg/L	0.00000				0.18%
Cd 226.502†	4025.9	-0.0009	mg/L	0.00016				17.95%
Co 228.616†	2229.2	0.0137	mg/L	0.00061				4.44%
Cr 267.716†	44645.6	0.2068	mg/L	0.00002				0.01%
Cu 324.752†	42810.9	0.1146	mg/L	0.00060				0.52%
Fe 238.863†	8343992.1	137.8	mg/L	0.35				0.25%
K 404.721†	1878.0						149.30	7.95%

Mg 279.077†	215052.2	5.386 mg/L	0.0042		0.08%
Mn 257.610†	342470.1	0.1995 mg/L	0.00025		0.13%
Mo 202.031†	-149.3	0.0044 mg/L	0.00005		1.07%
Ni 231.604†	4732.2	0.0314 mg/L	0.00022		0.70%
Na 330.237†	-593.5	0.0049 mg/L	0.04986		>999.9%
Pb 220.353†	3339.0	0.1289 mg/L	0.00258		2.00%
Sb 206.836†	27.4	0.0025 mg/L	0.00265		104.20%
Se 196.026†	-158.6	0.0079 mg/L	0.00220		27.90%
Sn 189.927†	551.7	0.0401 mg/L	0.00044		1.08%
Ti 337.279†	752920.0	1.473 mg/L	0.0007		0.05%
Tl 190.801†	-14.0	0.0047 mg/L	0.00483		102.82%
V 292.402†	142426.7	0.5422 mg/L	0.00247		0.46%
Zn 206.200†	35652.8	0.1132 mg/L	0.00068		0.60%
Ca 227.546†	-4011.4	0.4282 mg/L	0.23778		55.53%
Sr 460.733†	-460.6	-0.0019 mg/L	0.00024		12.76%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

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Sequence No.: 35 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/13/2010 5:23:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8576396.8	0.9822	mg/L	0.00139				0.14%
Ag 328.068†	184773.4	0.4957	mg/L	0.00067	0.4957	mg/L	0.00067	0.13%
QC value within limits for Ag 328.068 Recovery = 99.14%								
Al 308.215†	426215.8	9.881	mg/L	0.0529	9.881	mg/L	0.0529	0.54%
QC value within limits for Al 308.215 Recovery = 98.81%								
As 188.979†	8421.0	0.9871	mg/L	0.00545	0.9871	mg/L	0.00545	0.55%
QC value within limits for As 188.979 Recovery = 98.71%								
B 249.772†	543889.0	2.335	mg/L	0.0071	2.335	mg/L	0.0071	0.30%
QC value within limits for B 249.772 Recovery = 93.42%								
Ba 233.527†	3555292.4	9.875	mg/L	0.0630	9.875	mg/L	0.0630	0.64%
QC value within limits for Ba 233.527 Recovery = 98.75%								
Be 313.107†	1597873.3	0.2432	mg/L	0.00138	0.2432	mg/L	0.00138	0.57%
QC value within limits for Be 313.107 Recovery = 97.30%								
Cd 226.502†	188276.6	0.4920	mg/L	0.00204	0.4920	mg/L	0.00204	0.41%
QC value within limits for Cd 226.502 Recovery = 98.41%								
Co 228.616†	326922.8	2.445	mg/L	0.0185	2.445	mg/L	0.0185	0.76%
QC value within limits for Co 228.616 Recovery = 97.82%								
Cr 267.716†	110030.9	0.4976	mg/L	0.00166	0.4976	mg/L	0.00166	0.33%
QC value within limits for Cr 267.716 Recovery = 99.52%								
Cu 324.752†	573109.1	1.213	mg/L	0.0046	1.213	mg/L	0.0046	0.38%
QC value within limits for Cu 324.752 Recovery = 97.08%								
Fe 238.863†	303597.4	5.005	mg/L	0.0186	5.005	mg/L	0.0186	0.37%
QC value within limits for Fe 238.863 Recovery = 100.11%								
K 404.721†	4184.9						268.92	6.43%
Unable to evaluate QC.								
Mg 279.077†	977450.6	24.86	mg/L	0.139	24.86	mg/L	0.139	0.56%
QC value within limits for Mg 279.077 Recovery = 99.43%								
Mn 257.610†	1270222.3	0.7403	mg/L	0.00446	0.7403	mg/L	0.00446	0.60%
QC value within limits for Mn 257.610 Recovery = 98.70%								
Mo 202.031†	128553.8	2.405	mg/L	0.0157	2.405	mg/L	0.0157	0.65%
QC value within limits for Mo 202.031 Recovery = 96.21%								
Ni 231.604†	299474.3	1.996	mg/L	0.0031	1.996	mg/L	0.0031	0.16%
QC value within limits for Ni 231.604 Recovery = 99.81%								
Na 330.237†	42547.9	23.32	mg/L	0.054	23.32	mg/L	0.054	0.23%
QC value within limits for Na 330.237 Recovery = 93.27%								
Pb 220.353†	13934.4	0.5089	mg/L	0.00216	0.5089	mg/L	0.00216	0.42%
QC value within limits for Pb 220.353 Recovery = 101.79%								
Sb 206.836†	28083.4	4.911	mg/L	0.0175	4.911	mg/L	0.0175	0.36%
QC value within limits for Sb 206.836 Recovery = 98.21%								
Se 196.026†	2853.5	0.4928	mg/L	0.00801	0.4928	mg/L	0.00801	1.62%
QC value within limits for Se 196.026 Recovery = 98.56%								
Sn 189.927†	148967.3	4.903	mg/L	0.0352	4.903	mg/L	0.0352	0.72%
QC value within limits for Sn 189.927 Recovery = 98.07%								
Ti 337.279†	1270064.1	2.486	mg/L	0.0062	2.486	mg/L	0.0062	0.25%

QC value within limits for Ti 337.279 Recovery = 99.42%

Tl 190.801†	7643.3	0.9957 mg/L	0.00188	0.9957 mg/L	0.00188	0.19%

QC value within limits for Tl 190.801 Recovery = 99.57%

V 292.402†	654173.5	2.432 mg/L	0.0108	2.432 mg/L	0.0108	0.44%

QC value within limits for V 292.402 Recovery = 97.29%

Zn 206.200†	300738.8	0.9873 mg/L	0.00614	0.9873 mg/L	0.00614	0.62%

QC value within limits for Zn 206.200 Recovery = 98.73%

Ca 227.546†	14121.1	24.71 mg/L	0.087	24.71 mg/L	0.087	0.35%

QC value within limits for Ca 227.546 Recovery = 98.83%

Sr 460.733†	635967.2	2.460 mg/L	0.0138	2.460 mg/L	0.0138	0.56%

QC value within limits for Sr 460.733 Recovery = 98.41%

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 36
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/13/2010 5:27:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8827033.5	1.011	mg/L	0.0070				0.69%
Ag 328.068†	-41.1	-0.0001	mg/L	0.00023	-0.0001	mg/L	0.00023	210.18%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-160.1	-0.0037	mg/L	0.00008	-0.0037	mg/L	0.00008	2.21%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-3.1	-0.0004	mg/L	0.00140	-0.0004	mg/L	0.00140	396.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-6789.1	-0.0295	mg/L	0.00209	-0.0295	mg/L	0.00209	7.10%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	-903.0	-0.0025	mg/L	0.00019	-0.0025	mg/L	0.00019	7.62%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	451.2	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	41.81%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	6.0	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	136.57%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	18.7	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	95.53%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	17.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.69%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1783.5	0.0038	mg/L	0.00084	0.0038	mg/L	0.00084	22.15%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	1272.8	0.0210	mg/L	0.00253	0.0210	mg/L	0.00253	12.05%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	-52.5						75.52	143.82%
Unable to evaluate QC.								
Mg 279.077†	-235.1	-0.0060	mg/L	0.00107	-0.0060	mg/L	0.00107	17.79%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-214.2	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	13.51%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	47.7	0.0009	mg/L	0.00050	0.0009	mg/L	0.00050	55.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	8.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	63.66%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	-371.7	-0.2038	mg/L	0.01571	-0.2038	mg/L	0.01571	7.71%
QC value within limits for Na 330.237 Recovery = Not calculated								
Pb 220.353†	13.3	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	8.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	9.1	0.0016	mg/L	0.00023	0.0016	mg/L	0.00023	14.41%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-4.4	-0.0008	mg/L	0.00214	-0.0008	mg/L	0.00214	283.12%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	232.8	0.0077	mg/L	0.00111	0.0077	mg/L	0.00111	14.54%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	112.0	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	40.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	3.9	0.0005	mg/L	0.00122	0.0005	mg/L	0.00122	236.35%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	91.6	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	27.73%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	61.6	0.0002	mg/L	0.00016	0.0002	mg/L	0.00016 80.43%

QC value within limits for Zn 206.200 Recovery = Not calculated

Ca 227.546†	0.9	0.0026	mg/L	0.01022	0.0026	mg/L	0.01022 387.70%

QC value within limits for Ca 227.546 Recovery = Not calculated

Sr 460.733†	94.7	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016 42.92%

QC value within limits for Sr 460.733 Recovery = Not calculated

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 37
Sample ID: R1004314-015
Analyst:
Initial Sample Wt: 1.02 g
Dilution:

Autosampler Location: 58
Date Collected: 8/13/2010 5:33:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-015

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8838469.2	1.012	mg/L	0.0050				0.49%
Ag 328.068†	-4466.4	-0.0017	mg/L	0.00013				7.42%
Al 308.215†	4641525.2	107.7	mg/L	0.17				0.16%
As 188.979†	-438.6	0.0134	mg/L	0.00417				31.14%
B 249.772†	136928.8	0.1196	mg/L	0.00116				0.97%
Ba 233.527†	83644.4	0.2245	mg/L	0.00204				0.91%
Be 313.107†	15675.1	0.0024	mg/L	0.00003				1.14%
Cd 226.502†	4800.6	-0.0008	mg/L	0.00003				3.81%
Co 228.616†	2708.4	0.0167	mg/L	0.00024				1.45%
Cr 267.716†	47069.2	0.2185	mg/L	0.00172				0.79%
Cu 324.752†	16410.4	0.0632	mg/L	0.00041				0.64%
Fe 238.863†	9723345.9	160.6	mg/L	0.02				0.01%
K 404.721†	391.4						77.32	19.76%
Mg 279.077†	121453.3	2.991	mg/L	0.0317				1.06%
Mn 257.610†	866290.6	0.5050	mg/L	0.00428				0.85%
Mo 202.031†	-193.1	0.0041	mg/L	0.00034				8.23%
Ni 231.604†	3788.3	0.0250	mg/L	0.00047				1.88%
Na 330.237†	-467.9	0.1457	mg/L	0.15379				105.53%
Pb 220.353†	2053.4	0.0762	mg/L	0.00020				0.26%
Sb 206.836†	33.7	0.0037	mg/L	0.00520				139.07%
Se 196.026†	-206.0	0.0074	mg/L	0.00460				61.92%
Sn 189.927†	675.5	0.0467	mg/L	0.00031				0.66%
Ti 337.279†	963030.5	1.884	mg/L	0.0212				1.13%
Tl 190.801†	-46.4	0.0014	mg/L	0.00124				90.67%
V 292.402†	95944.0	0.3716	mg/L	0.00128				0.34%
Zn 206.200†	28051.8	0.0883	mg/L	0.00024				0.28%
Ca 227.546†	-3457.1	2.547	mg/L	0.0573				2.25%
Sr 460.733†	3740.6	0.0141	mg/L	0.00060				4.27%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

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Sequence No.: 38
Sample ID: R1004314-016
Analyst:
Initial Sample Wt: 1.05 g
Dilution:

Autosampler Location: 59
Date Collected: 8/13/2010 5:37:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-016

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8404138.5	0.9625	mg/L	0.00274				0.28%
Ag 328.068†	-4518.9	-0.0048	mg/L	0.00045				9.54%
Al 308.215†	5681060.0	131.8	mg/L	0.02				0.02%
As 188.979†	-335.3	0.0073	mg/L	0.00019				2.68%
B 249.772†	95709.3	0.0641	mg/L	0.01178				18.37%
Ba 233.527†	245807.9	0.6771	mg/L	0.00005				0.01%
Be 313.107†	17429.1	0.0027	mg/L	0.00000				0.08%
Cd 226.502†	3325.1	-0.0009	mg/L	0.00011				11.73%
Co 228.616†	2270.7	0.0145	mg/L	0.00042				2.88%
Cr 267.716†	32497.8	0.1511	mg/L	0.00001				0.01%
Cu 324.752†	26843.0	0.0770	mg/L	0.00042				0.54%

Fe 238.863†	7040172.6	116.2	mg/L	0.42		0.36%
K 404.721†	2378.4				192.25	8.08%
Mg 279.077†	217322.0	5.457	mg/L	0.0115		0.21%
Mn 257.610†	333740.8	0.1945	mg/L	0.00020		0.10%
Mo 202.031†	-239.4	0.0017	mg/L	0.00003		1.48%
Ni 231.604†	4295.1	0.0285	mg/L	0.00012		0.41%
Na 330.237†	-481.1	0.0115	mg/L	0.01523		132.54%
Pb 220.353†	3489.1	0.1345	mg/L	0.00445		3.31%
Sb 206.836†	8.7	-0.0004	mg/L	0.00319		712.26%
Se 196.026†	-141.2	0.0050	mg/L	0.00563		111.61%
Sn 189.927†	714.2	0.0423	mg/L	0.00014		0.33%
Ti 337.279†	1195046.9	2.339	mg/L	0.0382		1.63%
Tl 190.801†	-23.4	0.0025	mg/L	0.00296		118.91%
V 292.402†	67885.6	0.2631	mg/L	0.00067		0.25%
Zn 206.200†	41920.6	0.1342	mg/L	0.00023		0.17%
Ca 227.546†	-3398.3	0.3482	mg/L	0.09296		26.70%
Sr 460.733†	-1213.8	-0.0047	mg/L	0.00023		4.87%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 39
Sample ID: R1004314-017
Analyst:
Initial Sample Wt: 1.05 g
Dilution:

Autosampler Location: 60
Date Collected: 8/13/2010 5:41:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-017

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8362997.3	0.9578	mg/L	0.00353				0.37%
Ag 328.068†	-5189.6	-0.0027	mg/L	0.00067				24.84%
Al 308.215†	5429074.3	125.9	mg/L	0.19				0.15%
As 188.979†	-481.8	0.0145	mg/L	0.00395				27.18%
B 249.772†	145464.1	0.1094	mg/L	0.01442				13.18%
Ba 233.527†	80878.3	0.2161	mg/L	0.00111				0.51%
Be 313.107†	14953.3	0.0023	mg/L	0.00002				0.86%
Cd 226.502†	5217.2	-0.0010	mg/L	0.00008				7.73%
Co 228.616†	3201.4	0.0201	mg/L	0.00031				1.53%
Cr 267.716†	30991.1	0.1464	mg/L	0.00099				0.68%
Cu 324.752†	18428.5	0.0702	mg/L	0.00023				0.33%
Fe 238.863†	10661665.4	176.0	mg/L	0.12				0.07%
K 404.721†	601.1						92.90	15.46%
Mg 279.077†	129914.0	3.197	mg/L	0.0151				0.47%
Mn 257.610†	751543.8	0.4380	mg/L	0.00248				0.57%
Mo 202.031†	-219.0	0.0044	mg/L	0.00029				6.48%
Ni 231.604†	4406.8	0.0291	mg/L	0.00039				1.33%
Na 330.237†	-536.0	0.1419	mg/L	0.05041				35.54%
Pb 220.353†	2406.6	0.0902	mg/L	0.00254				2.82%
Sb 206.836†	25.1	0.0020	mg/L	0.00186				94.77%
Se 196.026†	-241.9	0.0051	mg/L	0.00353				69.08%
Sn 189.927†	611.9	0.0474	mg/L	0.00126				2.66%
Ti 337.279†	1210038.2	2.368	mg/L	0.0658				2.78%
Tl 190.801†	-79.9	-0.0023	mg/L	0.00218				96.57%
V 292.402†	97573.9	0.3791	mg/L	0.00155				0.41%
Zn 206.200†	34352.1	0.1086	mg/L	0.00055				0.51%
Ca 227.546†	-1656.8	6.493	mg/L	0.0674				1.04%
Sr 460.733†	6823.3	0.0259	mg/L	0.00026				1.01%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 40
Sample ID: R1004314-018
Analyst:
Initial Sample Wt: 1.05 g
Dilution:

Autosampler Location: 61
Date Collected: 8/13/2010 5:46:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-018

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8561211.3	0.9805	mg/L	0.00002				0.00%

Ag 328.068†	-1447.1	-0.0025	mg/L	0.00009		3.65%
Al 308.215†	1945117.1	45.12	mg/L	0.081		0.18%
As 188.979†	-55.0	0.0026	mg/L	0.00308		120.30%
B 249.772†	11206.3	-0.0231	mg/L	0.00454		19.65%
Ba 233.527†	94016.9	0.2600	mg/L	0.00072		0.28%
Be 313.107†	5873.7	0.0009	mg/L	0.00003		2.84%
Cd 226.502†	673.6	-0.0001	mg/L	0.00001		6.21%
Co 228.616†	1027.1	0.0072	mg/L	0.00011		1.59%
Cr 267.716†	11450.1	0.0526	mg/L	0.00022		0.43%
Cu 324.752†	22737.5	0.0519	mg/L	0.00008		0.16%
Fe 238.863†	1381645.1	22.81	mg/L	0.039		0.17%
K 404.721†	1379.9				131.55	9.53%
Mg 279.077†	111410.5	2.820	mg/L	0.0030		0.10%
Mn 257.610†	137463.2	0.0802	mg/L	0.00011		0.14%
Mo 202.031†	45.7	0.0023	mg/L	0.00060		26.46%
Ni 231.604†	2453.4	0.0163	mg/L	0.00025		1.53%
Na 330.237†	89.4	0.0966	mg/L	0.08211		85.02%
Pb 220.353†	1456.6	0.0568	mg/L	0.00237		4.17%
Sb 206.836†	-2.7	-0.0010	mg/L	0.00571		569.17%
Se 196.026†	-36.1	-0.0011	mg/L	0.00016		14.87%
Sn 189.927†	547.7	0.0222	mg/L	0.00097		4.39%
Ti 337.279†	693992.8	1.358	mg/L	0.0013		0.10%
Tl 190.801†	-23.7	-0.0019	mg/L	0.00448		232.66%
V 292.402†	35995.0	0.1359	mg/L	0.00030		0.22%
Zn 206.200†	19466.4	0.0630	mg/L	0.00041		0.66%
Ca 227.546†	-465.4	0.4361	mg/L	0.08004		18.35%
Sr 460.733†	-488.7	-0.0018	mg/L	0.00034		18.93%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 41 **Autosampler Location: 62**
Sample ID: R1004314-019 **Date Collected: 8/13/2010 5:50:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: 1.04 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 100 mL**

Mean Data: R1004314-019

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8294785.8	0.9499	mg/L	0.00048				0.05%
Ag 328.068†	-6026.5	-0.0013	mg/L	0.00035				26.43%
Al 308.215†	6630425.3	153.8	mg/L	0.87				0.57%
As 188.979†	-650.1	0.0176	mg/L	0.00184				10.44%
B 249.772†	204624.2	0.2015	mg/L	0.00560				2.78%
Ba 233.527†	106854.9	0.2855	mg/L	0.00054				0.19%
Be 313.107†	18390.7	0.0029	mg/L	0.00002				0.65%
Cd 226.502†	7038.5	-0.0009	mg/L	0.00002				1.67%
Co 228.616†	3671.7	0.0224	mg/L	0.00004				0.19%
Cr 267.716†	51973.2	0.2433	mg/L	0.00119				0.49%
Cu 324.752†	24002.3	0.0920	mg/L	0.00022				0.24%
Fe 238.863†	14065745.3	232.3	mg/L	1.35				0.58%
K 404.721†	505.4				59.72			11.82%
Mg 279.077†	154371.6	3.785	mg/L	0.0087				0.23%
Mn 257.610†	1025127.3	0.5975	mg/L	0.00080				0.13%
Mo 202.031†	-340.3	0.0048	mg/L	0.00139				29.13%
Ni 231.604†	5159.1	0.0341	mg/L	0.00022				0.66%
Na 330.237†	311.9	0.7519	mg/L	0.00119				0.16%
Pb 220.353†	2517.6	0.0935	mg/L	0.00023				0.24%
Sb 206.836†	45.2	0.0048	mg/L	0.00121				25.20%
Se 196.026†	-279.2	0.0140	mg/L	0.00715				50.90%
Sn 189.927†	609.8	0.0556	mg/L	0.00043				0.77%
Ti 337.279†	1104276.9	2.161	mg/L	0.0178				0.82%
Tl 190.801†	-56.4	0.0034	mg/L	0.00005				1.36%
V 292.402†	125351.7	0.4876	mg/L	0.00051				0.10%
Zn 206.200†	40156.8	0.1264	mg/L	0.00046				0.37%
Ca 227.546†	-3711.4	5.914	mg/L	0.2116				3.58%
Sr 460.733†	8865.5	0.0336	mg/L	0.00028				0.83%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

Sequence No.: 42 **Autosampler Location: 63**

Sample ID: R1004314-020
Analyst:
Initial Sample Wt: 1 g
Dilution:

Date Collected: 8/13/2010 5:55:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: R1004314-020

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8957186.5	1.026	mg/L	0.0051				0.50%
Ag 328.068†	-5879.6	-0.0039	mg/L	0.00010				2.66%
Al 308.215†	4854768.9	112.6	mg/L	0.14				0.12%
As 188.979†	-543.6	0.0112	mg/L	0.00089				7.96%
B 249.772†	154473.3	0.1241	mg/L	0.00748				6.03%
Ba 233.527†	103334.8	0.2780	mg/L	0.00162				0.58%
Be 313.107†	22120.6	0.0034	mg/L	0.00003				0.82%
Cd 226.502†	5517.0	-0.0010	mg/L	0.00031				30.28%
Co 228.616†	2242.8	0.0127	mg/L	0.00020				1.57%
Cr 267.716†	33240.7	0.1570	mg/L	0.00140				0.89%
Cu 324.752†	16043.1	0.0670	mg/L	0.00021				0.31%
Fe 238.863†	11230859.4	185.4	mg/L	0.10				0.05%
K 404.721†	1182.2						11.02	0.93%
Mg 279.077†	136480.6	3.358	mg/L	0.0249				0.74%
Mn 257.610†	251353.5	0.1461	mg/L	0.00104				0.72%
Mo 202.031†	-339.4	0.0024	mg/L	0.00089				36.53%
Ni 231.604†	3916.6	0.0259	mg/L	0.00015				0.57%
Na 330.237†	-1166.7	-0.1691	mg/L	0.05021				29.69%
Pb 220.353†	3086.6	0.1127	mg/L	0.00293				2.60%
Sb 206.836†	25.0	0.0020	mg/L	0.00106				53.89%
Se 196.026†	-268.2	0.0038	mg/L	0.00235				62.10%
Sn 189.927†	460.5	0.0430	mg/L	0.00132				3.07%
Ti 337.279†	865268.7	1.693	mg/L	0.0275				1.63%
Tl 190.801†	-45.4	0.0026	mg/L	0.00393				151.59%
V 292.402†	66432.4	0.2642	mg/L	0.00058				0.22%
Zn 206.200†	33591.6	0.1061	mg/L	0.00080				0.76%
Ca 227.546†	-5630.4	0.0966	mg/L	0.03285				34.00%
Sr 460.733†	-1705.0	-0.0071	mg/L	0.00065				9.14%

Sample conc. not calculated. Nominal Wt. AND Initial Wt. required OR sample units incorrect.

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Sequence No.: 43
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2010 6:00:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8572564.3	0.9818	mg/L	0.01555				1.58%
Ag 328.068†	184835.3	0.4959	mg/L	0.00914	0.4959	mg/L	0.00914	1.84%
QC value within limits for Ag 328.068 Recovery = 99.17%								
Al 308.215†	426491.0	9.888	mg/L	0.1648	9.888	mg/L	0.1648	1.67%
QC value within limits for Al 308.215 Recovery = 98.88%								
As 188.979†	8447.8	0.9902	mg/L	0.01513	0.9902	mg/L	0.01513	1.53%
QC value within limits for As 188.979 Recovery = 99.02%								
B 249.772†	542076.4	2.328	mg/L	0.0388	2.328	mg/L	0.0388	1.67%
QC value within limits for B 249.772 Recovery = 93.10%								
Ba 233.527†	3556090.0	9.877	mg/L	0.1453	9.877	mg/L	0.1453	1.47%
QC value within limits for Ba 233.527 Recovery = 98.77%								
Be 313.107†	1596252.1	0.2430	mg/L	0.00326	0.2430	mg/L	0.00326	1.34%
QC value within limits for Be 313.107 Recovery = 97.20%								
Cd 226.502†	188791.4	0.4934	mg/L	0.00684	0.4934	mg/L	0.00684	1.39%
QC value within limits for Cd 226.502 Recovery = 98.67%								
Co 228.616†	327447.2	2.449	mg/L	0.0348	2.449	mg/L	0.0348	1.42%
QC value within limits for Co 228.616 Recovery = 97.97%								
Cr 267.716†	109954.0	0.4973	mg/L	0.01057	0.4973	mg/L	0.01057	2.13%
QC value within limits for Cr 267.716 Recovery = 99.45%								
Cu 324.752†	571824.9	1.211	mg/L	0.0214	1.211	mg/L	0.0214	1.77%
QC value within limits for Cu 324.752 Recovery = 96.86%								
Fe 238.863†	306037.5	5.046	mg/L	0.0800	5.046	mg/L	0.0800	1.59%

QC value within limits for Fe 238.863 Recovery = 100.91%

K 404.721†	4237.7					55.64	1.31%
Unable to evaluate QC.							
Mg 279.077†	979727.1	24.92 mg/L	0.353	24.92 mg/L	0.353		1.41%
QC value within limits for Mg 279.077 Recovery = 99.66%							
Mn 257.610†	1270185.0	0.7402 mg/L	0.01111	0.7402 mg/L	0.01111		1.50%
QC value within limits for Mn 257.610 Recovery = 98.70%							
Mo 202.031†	128816.8	2.410 mg/L	0.0181	2.410 mg/L	0.0181		0.75%
QC value within limits for Mo 202.031 Recovery = 96.40%							
Ni 231.604†	300182.3	2.001 mg/L	0.0331	2.001 mg/L	0.0331		1.65%
QC value within limits for Ni 231.604 Recovery = 100.04%							
Na 330.237†	42668.9	23.39 mg/L	0.380	23.39 mg/L	0.380		1.62%
QC value within limits for Na 330.237 Recovery = 93.54%							
Pb 220.353†	13592.6	0.4965 mg/L	0.00494	0.4965 mg/L	0.00494		1.00%
QC value within limits for Pb 220.353 Recovery = 99.29%							
Sb 206.836†	28782.5	5.033 mg/L	0.1383	5.033 mg/L	0.1383		2.75%
QC value within limits for Sb 206.836 Recovery = 100.66%							
Se 196.026†	2877.3	0.4969 mg/L	0.01971	0.4969 mg/L	0.01971		3.97%
QC value within limits for Se 196.026 Recovery = 99.39%							
Sn 189.927†	149435.4	4.919 mg/L	0.0583	4.919 mg/L	0.0583		1.18%
QC value within limits for Sn 189.927 Recovery = 98.38%							
Ti 337.279†	1273482.6	2.492 mg/L	0.0499	2.492 mg/L	0.0499		2.00%
QC value within limits for Ti 337.279 Recovery = 99.69%							
Tl 190.801†	7716.3	1.005 mg/L	0.0267	1.005 mg/L	0.0267		2.66%
QC value within limits for Tl 190.801 Recovery = 100.52%							
V 292.402†	653928.4	2.431 mg/L	0.0277	2.431 mg/L	0.0277		1.14%
QC value within limits for V 292.402 Recovery = 97.25%							
Zn 206.200†	301362.9	0.9893 mg/L	0.01396	0.9893 mg/L	0.01396		1.41%
QC value within limits for Zn 206.200 Recovery = 98.93%							
Ca 227.546†	14100.4	24.67 mg/L	0.433	24.67 mg/L	0.433		1.75%
QC value within limits for Ca 227.546 Recovery = 98.70%							
Sr 460.733†	641383.4	2.481 mg/L	0.0394	2.481 mg/L	0.0394		1.59%
QC value within limits for Sr 460.733 Recovery = 99.25%							

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 44 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/13/2010 6:04:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8789795.8	1.007	mg/L	0.0013				0.12%
Ag 328.068†	-112.4	-0.0003	mg/L	0.00083	-0.0003	mg/L	0.00083	278.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	26.7	0.0006	mg/L	0.00097	0.0006	mg/L	0.00097	156.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	6.4	0.0008	mg/L	0.00070	0.0008	mg/L	0.00070	92.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-7224.5	-0.0314	mg/L	0.00261	-0.0314	mg/L	0.00261	8.33%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	-1001.1	-0.0028	mg/L	0.00032	-0.0028	mg/L	0.00032	11.33%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	271.3	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	99.86%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	10.5	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	161.25%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-4.2	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	415.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	18.7	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	46.36%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1736.1	0.0037	mg/L	0.00077	0.0037	mg/L	0.00077	21.04%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	1865.5	0.0308	mg/L	0.00084	0.0308	mg/L	0.00084	2.71%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	58.7						120.15	204.85%
Unable to evaluate QC.								
Mg 279.077†	-205.3	-0.0052	mg/L	0.00124	-0.0052	mg/L	0.00124	23.63%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	-303.0	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	9.43%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	51.8	0.0010 mg/L	0.00048	0.0010 mg/L	0.00048	49.21%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	22.0	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	10.40%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Na 330.237†	-243.9	-0.1337 mg/L	0.10275	-0.1337 mg/L	0.10275	76.87%
QC value within limits for Na 330.237 Recovery = Not calculated							
Pb 220.353†	25.0	0.0009 mg/L	0.00055	0.0009 mg/L	0.00055	60.95%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	5.2	0.0009 mg/L	0.00040	0.0009 mg/L	0.00040	44.30%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-7.7	-0.0013 mg/L	0.00096	-0.0013 mg/L	0.00096	73.05%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	217.8	0.0072 mg/L	0.00090	0.0072 mg/L	0.00090	12.55%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	130.3	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	5.74%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	8.6	0.0011 mg/L	0.00077	0.0011 mg/L	0.00077	69.17%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	102.6	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	8.90%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	75.7	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	9.46%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Ca 227.546†	-5.5	-0.0079 mg/L	0.07194	-0.0079 mg/L	0.07194	907.03%
QC value within limits for Ca 227.546 Recovery = Not calculated							
Sr 460.733†	-8.6	0.0000 mg/L	0.00051	0.0000 mg/L	0.00051	>999.9%
QC value within limits for Sr 460.733 Recovery = Not calculated							

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 45 **Autosampler Location: 6**
Sample ID: MRL **Date Collected: 8/13/2010 6:10:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8882237.7	1.017	mg/L	0.0064				0.63%
Ag 328.068†	3734.7	0.0100	mg/L	0.00054	0.0100	mg/L	0.00054	5.37%
QC value within limits for Ag 328.068 Recovery = 100.19%								
Al 308.215†	8109.6	0.1879	mg/L	0.00018	0.1879	mg/L	0.00018	0.10%
QC value within limits for Al 308.215 Recovery = 93.96%								
As 188.979†	169.8	0.0199	mg/L	0.00048	0.0199	mg/L	0.00048	2.43%
QC value within limits for As 188.979 Recovery = 99.59%								
B 249.772†	33557.9	0.1448	mg/L	0.00034	0.1448	mg/L	0.00034	0.24%
QC value less than the lower limit for B 249.772 Recovery = 72.40%								
Ba 233.527†	71624.8	0.1989	mg/L	0.00135	0.1989	mg/L	0.00135	0.68%
QC value within limits for Ba 233.527 Recovery = 99.47%								
Be 313.107†	31314.2	0.0048	mg/L	0.00005	0.0048	mg/L	0.00005	1.05%
QC value within limits for Be 313.107 Recovery = 95.34%								
Cd 226.502†	3714.0	0.0097	mg/L	0.00001	0.0097	mg/L	0.00001	0.12%
QC value within limits for Cd 226.502 Recovery = 97.04%								
Co 228.616†	6623.8	0.0495	mg/L	0.00006	0.0495	mg/L	0.00006	0.12%
QC value within limits for Co 228.616 Recovery = 99.09%								
Cr 267.716†	2177.0	0.0099	mg/L	0.00003	0.0099	mg/L	0.00003	0.31%
QC value within limits for Cr 267.716 Recovery = 98.50%								
Cu 324.752†	11656.0	0.0247	mg/L	0.00040	0.0247	mg/L	0.00040	1.64%
QC value within limits for Cu 324.752 Recovery = 98.69%								
Fe 238.863†	7337.6	0.1209	mg/L	0.00370	0.1209	mg/L	0.00370	3.06%
QC value greater than the upper limit for Fe 238.863 Recovery = 120.88%								
K 404.721†	83.8						36.96	44.09%
Unable to evaluate QC.								
Mg 279.077†	40144.5	1.021	mg/L	0.0080	1.021	mg/L	0.0080	0.78%
QC value within limits for Mg 279.077 Recovery = 102.10%								
Mn 257.610†	25462.4	0.0148	mg/L	0.00016	0.0148	mg/L	0.00016	1.09%
QC value within limits for Mn 257.610 Recovery = 98.82%								
Mo 202.031†	1319.1	0.0247	mg/L	0.00019	0.0247	mg/L	0.00019	0.77%

QC value within limits for Mo 202.031 Recovery = 98.73%

Ni 231.604†	5971.7	0.0398 mg/L	0.00005	0.0398 mg/L	0.00005	0.12%

QC value within limits for Ni 231.604 Recovery = 99.51%

Na 330.237†	1293.7	0.7088 mg/L	0.03403	0.7088 mg/L	0.03403	4.80%

QC value less than the lower limit for Na 330.237 Recovery = 70.88%

Pb 220.353†	279.2	0.0102 mg/L	0.00055	0.0102 mg/L	0.00055	5.38%

QC value within limits for Pb 220.353 Recovery = 101.98%

Sb 206.836†	323.3	0.0565 mg/L	0.00042	0.0565 mg/L	0.00042	0.75%

QC value within limits for Sb 206.836 Recovery = 94.22%

Se 196.026†	44.0	0.0076 mg/L	0.00179	0.0076 mg/L	0.00179	23.58%

QC value less than the lower limit for Se 196.026 Recovery = 75.97%

Sn 189.927†	15633.8	0.5143 mg/L	0.00082	0.5143 mg/L	0.00082	0.16%

QC value within limits for Sn 189.927 Recovery = 102.86%

Ti 337.279†	25289.4	0.0495 mg/L	0.00025	0.0495 mg/L	0.00025	0.50%

QC value within limits for Ti 337.279 Recovery = 98.97%

Tl 190.801†	155.6	0.0203 mg/L	0.00079	0.0203 mg/L	0.00079	3.90%

QC value within limits for Tl 190.801 Recovery = 101.38%

V 292.402†	12817.4	0.0477 mg/L	0.00036	0.0477 mg/L	0.00036	0.75%

QC value within limits for V 292.402 Recovery = 95.32%

Zn 206.200†	5981.3	0.0196 mg/L	0.00004	0.0196 mg/L	0.00004	0.20%

QC value within limits for Zn 206.200 Recovery = 98.07%

Ca 227.546†	502.8	0.8766 mg/L	0.00962	0.8766 mg/L	0.00962	1.10%

QC value within limits for Ca 227.546 Recovery = 87.66%

Sr 460.733†	23802.2	0.0921 mg/L	0.00014	0.0921 mg/L	0.00014	0.15%

QC value within limits for Sr 460.733 Recovery = 92.08%

QC Failed. Continue with analysis.

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Sequence No.: 46 **Autosampler Location: 7**
Sample ID: ICSA **Date Collected: 8/13/2010 6:15:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7814193.2	0.8949	mg/L	0.00088				0.10%
Ag 328.068†	-2360.9	-0.0014	mg/L	0.00001	-0.0014	mg/L	0.00001	0.81%

QC value within limits for Ag 328.068 Recovery = Not calculated

Al 308.215†	10662724.7	247.3	mg/L	0.21	247.3	mg/L	0.21	0.09%

QC value within limits for Al 308.215 Recovery = 98.91%

As 188.979†	-376.8	-0.0053	mg/L	0.00629	-0.0053	mg/L	0.00629	119.23%

QC value within limits for As 188.979 Recovery = Not calculated

B 249.772†	72015.2	-0.0327	mg/L	0.00371	-0.0327	mg/L	0.00371	11.34%
Ba 233.527†	852.0	-0.0050	mg/L	0.00037	-0.0050	mg/L	0.00037	7.42%
Be 313.107†	-1875.7	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	2.52%

QC value within limits for Be 313.107 Recovery = Not calculated

Cd 226.502†	2742.0	-0.0005	mg/L	0.00000	-0.0005	mg/L	0.00000	0.92%

QC value within limits for Cd 226.502 Recovery = Not calculated

Co 228.616†	262.7	-0.0001	mg/L	0.00065	-0.0001	mg/L	0.00065	686.56%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	-1393.3	-0.0013	mg/L	0.00000	-0.0013	mg/L	0.00000	0.07%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	-6120.2	-0.0030	mg/L	0.00037	-0.0030	mg/L	0.00037	12.24%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.863†	5736153.1	94.62	mg/L	0.196	94.62	mg/L	0.196	0.21%

QC value within limits for Fe 238.863 Recovery = 94.62%

K 404.721†	-291.2						37.13	12.75%
Mg 279.077†	9530860.0	242.4	mg/L	0.15	242.4	mg/L	0.15	0.06%

QC value within limits for Mg 279.077 Recovery = 96.94%

Mn 257.610†	-630.0	-0.0076	mg/L	0.00002	-0.0076	mg/L	0.00002	0.21%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	-360.7	-0.0005	mg/L	0.00003	-0.0005	mg/L	0.00003	7.70%
Ni 231.604†	12.5	-0.0011	mg/L	0.00008	-0.0011	mg/L	0.00008	6.94%

QC value within limits for Ni 231.604 Recovery = Not calculated

Na 330.237†	60.3	-0.0003	mg/L	0.07382	-0.0003	mg/L	0.07382	>999.9%
Pb 220.353†	-608.0	0.0018	mg/L	0.00206	0.0018	mg/L	0.00206	117.82%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	24.0	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	16.31%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	-85.2	0.0010 mg/L	0.00364	0.0010 mg/L	0.00364	367.97%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-98.0	0.0475 mg/L	0.00128	0.0475 mg/L	0.00128	2.70%
Ti 337.279†	664.4	-0.0025 mg/L	0.00001	-0.0025 mg/L	0.00001	0.36%
Tl 190.801†	-56.9	0.0000 mg/L	0.00022	0.0000 mg/L	0.00022	456.71%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-2583.2	-0.0009 mg/L	0.00028	-0.0009 mg/L	0.00028	30.50%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	978.9	-0.0116 mg/L	0.00005	-0.0116 mg/L	0.00005	0.44%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	143053.5	252.7 mg/L	0.25	252.7 mg/L	0.25	0.10%
QC value within limits for Ca 227.546 Recovery = 101.10%						
Sr 460.733†	1721.4	0.0018 mg/L	0.00043	0.0018 mg/L	0.00043	24.38%

All analyte(s) passed QC.

Sequence No.: 47 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 8/13/2010 6:20:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7740072.1	0.8864	mg/L	0.00288				0.33%
Ag 328.068†	77840.5	0.2137	mg/L	0.00124	0.2137	mg/L	0.00124	0.58%
QC value within limits for Ag 328.068 Recovery = 106.86%								
Al 308.215†	10715380.5	248.5	mg/L	1.31	248.5	mg/L	1.31	0.53%
QC value within limits for Al 308.215 Recovery = 99.40%								
As 188.979†	607.4	0.1102	mg/L	0.00202	0.1102	mg/L	0.00202	1.83%
QC value within limits for As 188.979 Recovery = 110.18%								
B 249.772†	76211.7	-0.0174	mg/L	0.00285	-0.0174	mg/L	0.00285	16.39%
Ba 233.527†	187772.1	0.5141	mg/L	0.00245	0.5141	mg/L	0.00245	0.48%
QC value within limits for Ba 233.527 Recovery = 102.83%								
Be 313.107†	3359871.4	0.5117	mg/L	0.00238	0.5117	mg/L	0.00238	0.47%
QC value within limits for Be 313.107 Recovery = 102.34%								
Cd 226.502†	383818.5	0.9961	mg/L	0.00467	0.9961	mg/L	0.00467	0.47%
QC value within limits for Cd 226.502 Recovery = 99.61%								
Co 228.616†	66642.8	0.4964	mg/L	0.00306	0.4964	mg/L	0.00306	0.62%
QC value within limits for Co 228.616 Recovery = 99.29%								
Cr 267.716†	111312.7	0.5081	mg/L	0.00252	0.5081	mg/L	0.00252	0.50%
QC value within limits for Cr 267.716 Recovery = 101.63%								
Cu 324.752†	236890.5	0.5115	mg/L	0.00493	0.5115	mg/L	0.00493	0.96%
QC value within limits for Cu 324.752 Recovery = 102.30%								
Fe 238.863†	5786282.2	95.44	mg/L	0.298	95.44	mg/L	0.298	0.31%
QC value within limits for Fe 238.863 Recovery = 95.44%								
K 404.721†	-318.7						190.09	59.65%
Mg 279.077†	9613706.3	244.5	mg/L	1.01	244.5	mg/L	1.01	0.41%
QC value within limits for Mg 279.077 Recovery = 97.79%								
Mn 257.610†	885671.0	0.5094	mg/L	0.00247	0.5094	mg/L	0.00247	0.48%
QC value within limits for Mn 257.610 Recovery = 101.88%								
Mo 202.031†	-348.8	-0.0002	mg/L	0.00107	-0.0002	mg/L	0.00107	580.55%
Ni 231.604†	147372.3	0.9811	mg/L	0.00650	0.9811	mg/L	0.00650	0.66%
QC value within limits for Ni 231.604 Recovery = 98.11%								
Na 330.237†	-809.7	-0.4776	mg/L	0.00207	-0.4776	mg/L	0.00207	0.43%
Pb 220.353†	780.9	0.0525	mg/L	0.00203	0.0525	mg/L	0.00203	3.87%
QC value within limits for Pb 220.353 Recovery = 104.97%								
Sb 206.836†	3714.9	0.6461	mg/L	0.01031	0.6461	mg/L	0.01031	1.60%
QC value within limits for Sb 206.836 Recovery = 107.69%								
Se 196.026†	218.0	0.0534	mg/L	0.00298	0.0534	mg/L	0.00298	5.59%
QC value within limits for Se 196.026 Recovery = 106.86%								
Sn 189.927†	-95.2	0.0481	mg/L	0.00244	0.0481	mg/L	0.00244	5.08%
Ti 337.279†	465.4	-0.0029	mg/L	0.00014	-0.0029	mg/L	0.00014	4.74%
Tl 190.801†	736.5	0.1033	mg/L	0.00358	0.1033	mg/L	0.00358	3.47%
QC value within limits for Tl 190.801 Recovery = 103.32%								
V 292.402†	132196.6	0.5002	mg/L	0.00164	0.5002	mg/L	0.00164	0.33%
QC value within limits for V 292.402 Recovery = 100.03%								
Zn 206.200†	307923.6	0.9973	mg/L	0.00543	0.9973	mg/L	0.00543	0.54%
QC value within limits for Zn 206.200 Recovery = 99.73%								
Ca 227.546†	144485.1	255.3	mg/L	1.09	255.3	mg/L	1.09	0.43%

QC value within limits for Ca 227.546 Recovery = 102.11%

Sr 460.733†	1786.7	0.0020 mg/L	0.00020	0.0020 mg/L	0.00020	9.90%

All analyte(s) passed QC.

Sequence No.: 48
Sample ID: HLCCV2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 8/13/2010 6:24:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: HLCCV2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	7324643.3	0.8388	mg/L	0.00644				0.77%
Ag 328.068†	798845.9	2.147	mg/L	0.0542	2.147	mg/L	0.0542	2.53%
QC value within limits for Ag 328.068 Recovery = 107.33%								
Al 308.215†	21076920.5	488.8	mg/L	7.17	488.8	mg/L	7.17	1.47%
QC value within limits for Al 308.215 Recovery = 97.76%								
As 188.979†	35718.6	4.217	mg/L	0.0458	4.217	mg/L	0.0458	1.09%
QC value within limits for As 188.979 Recovery = 105.43%								
B 249.772†	2499383.0	10.42	mg/L	0.156	10.42	mg/L	0.156	1.50%
QC value within limits for B 249.772 Recovery = 104.19%								
Ba 233.527†	14500407.4	40.27	mg/L	0.058	40.27	mg/L	0.058	0.14%
QC value within limits for Ba 233.527 Recovery = 100.67%								
Be 313.107†	6639019.5	1.011	mg/L	0.0007	1.011	mg/L	0.0007	0.07%
QC value within limits for Be 313.107 Recovery = 101.09%								
Cd 226.502†	770080.6	2.006	mg/L	0.0349	2.006	mg/L	0.0349	1.74%
QC value within limits for Cd 226.502 Recovery = 100.31%								
Co 228.616†	1294806.3	9.684	mg/L	0.1821	9.684	mg/L	0.1821	1.88%
QC value within limits for Co 228.616 Recovery = 96.84%								
Cr 267.716†	2178842.1	9.854	mg/L	0.1641	9.854	mg/L	0.1641	1.67%
QC value within limits for Cr 267.716 Recovery = 98.54%								
Cu 324.752†	2446168.6	5.183	mg/L	0.0731	5.183	mg/L	0.0731	1.41%
QC value within limits for Cu 324.752 Recovery = 103.65%								
Fe 238.863†	5950408.0	98.07	mg/L	0.294	98.07	mg/L	0.294	0.30%
QC value within limits for Fe 238.863 Recovery = 98.07%								
K 404.721†	20.3						43.34	213.57%
Mg 279.077†	19210970.5	488.6	mg/L	1.00	488.6	mg/L	1.00	0.20%
QC value within limits for Mg 279.077 Recovery = 97.71%								
Mn 257.610†	17004665.6	9.906	mg/L	0.0172	9.906	mg/L	0.0172	0.17%
QC value within limits for Mn 257.610 Recovery = 99.06%								
Mo 202.031†	547864.1	10.26	mg/L	0.040	10.26	mg/L	0.040	0.39%
QC value within limits for Mo 202.031 Recovery = 102.58%								
Ni 231.604†	1170679.8	7.802	mg/L	0.1968	7.802	mg/L	0.1968	2.52%
QC value within limits for Ni 231.604 Recovery = 97.52%								
Na 330.237†	212259.4	116.3	mg/L	0.74	116.3	mg/L	0.74	0.63%
Pb 220.353†	269433.7	9.874	mg/L	0.0015	9.874	mg/L	0.0015	0.02%
QC value within limits for Pb 220.353 Recovery = 98.74%								
Sb 206.836†	685.2	0.1139	mg/L	0.00177	0.1139	mg/L	0.00177	1.55%
Se 196.026†	11806.9	2.044	mg/L	0.0195	2.044	mg/L	0.0195	0.96%
QC value within limits for Se 196.026 Recovery = 102.19%								
Sn 189.927†	-253.4	0.0639	mg/L	0.00067	0.0639	mg/L	0.00067	1.05%
Ti 337.279†	5296472.3	10.36	mg/L	0.013	10.36	mg/L	0.013	0.13%
QC value within limits for Ti 337.279 Recovery = 103.61%								
Tl 190.801†	29314.6	3.827	mg/L	0.0521	3.827	mg/L	0.0521	1.36%
QC value within limits for Tl 190.801 Recovery = 95.68%								
V 292.402†	2690515.3	10.01	mg/L	0.198	10.01	mg/L	0.198	1.98%
QC value within limits for V 292.402 Recovery = 100.10%								
Zn 206.200†	1214156.1	3.964	mg/L	0.0691	3.964	mg/L	0.0691	1.74%
QC value within limits for Zn 206.200 Recovery = 99.11%								
Ca 227.546†	147338.7	260.6	mg/L	1.85	260.6	mg/L	1.85	0.71%
QC value within limits for Ca 227.546 Recovery = 104.23%								
Sr 460.733†	1318.4	0.0012	mg/L	0.00031	0.0012	mg/L	0.00031	26.01%

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: HLCCV1
Analyst:
Initial Sample Wt:

Autosampler Location: 2
Date Collected: 8/13/2010 6:29:13 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Mean Data: HLCCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8316953.5	0.9525	mg/L	0.00835				0.88%
Ag 328.068†	371974.7	0.9979	mg/L	0.00277	0.9979	mg/L	0.00277	0.28%
QC value within limits for Ag 328.068 Recovery = 99.79%								
Al 308.215†	863223.7	20.01	mg/L	0.148	20.01	mg/L	0.148	0.74%
QC value within limits for Al 308.215 Recovery = 100.06%								
As 188.979†	17200.9	2.016	mg/L	0.0178	2.016	mg/L	0.0178	0.88%
QC value within limits for As 188.979 Recovery = 100.80%								
B 249.772†	1144120.2	4.915	mg/L	0.0874	4.915	mg/L	0.0874	1.78%
QC value within limits for B 249.772 Recovery = 98.29%								
Ba 233.527†	7158676.7	19.88	mg/L	0.063	19.88	mg/L	0.063	0.32%
QC value within limits for Ba 233.527 Recovery = 99.42%								
Be 313.107†	3246877.7	0.4943	mg/L	0.00056	0.4943	mg/L	0.00056	0.11%
QC value within limits for Be 313.107 Recovery = 98.85%								
Cd 226.502†	383179.8	1.001	mg/L	0.0114	1.001	mg/L	0.0114	1.14%
QC value within limits for Cd 226.502 Recovery = 100.14%								
Co 228.616†	664027.7	4.967	mg/L	0.0513	4.967	mg/L	0.0513	1.03%
QC value within limits for Co 228.616 Recovery = 99.34%								
Cr 267.716†	221510.5	1.002	mg/L	0.0112	1.002	mg/L	0.0112	1.12%
QC value within limits for Cr 267.716 Recovery = 100.18%								
Cu 324.752†	1176081.4	2.490	mg/L	0.0259	2.490	mg/L	0.0259	1.04%
QC value within limits for Cu 324.752 Recovery = 99.61%								
Fe 238.863†	609295.9	10.05	mg/L	0.132	10.05	mg/L	0.132	1.31%
QC value within limits for Fe 238.863 Recovery = 100.45%								
K 404.721†	9528.9						21.52	0.23%
Unable to evaluate QC.								
Mg 279.077†	1972232.1	50.16	mg/L	0.561	50.16	mg/L	0.561	1.12%
QC value within limits for Mg 279.077 Recovery = 100.31%								
Mn 257.610†	2542970.0	1.482	mg/L	0.0142	1.482	mg/L	0.0142	0.96%
QC value within limits for Mn 257.610 Recovery = 98.80%								
Mo 202.031†	263448.0	4.929	mg/L	0.1158	4.929	mg/L	0.1158	2.35%
QC value within limits for Mo 202.031 Recovery = 98.58%								
Ni 231.604†	601909.2	4.012	mg/L	0.0234	4.012	mg/L	0.0234	0.58%
QC value within limits for Ni 231.604 Recovery = 100.30%								
Na 330.237†	92392.8	50.64	mg/L	0.713	50.64	mg/L	0.713	1.41%
QC value within limits for Na 330.237 Recovery = 101.28%								
Pb 220.353†	28586.4	1.044	mg/L	0.0134	1.044	mg/L	0.0134	1.28%
QC value within limits for Pb 220.353 Recovery = 104.41%								
Sb 206.836†	56616.7	9.900	mg/L	0.0541	9.900	mg/L	0.0541	0.55%
QC value within limits for Sb 206.836 Recovery = 99.00%								
Se 196.026†	5896.5	1.018	mg/L	0.0013	1.018	mg/L	0.0013	0.13%
QC value within limits for Se 196.026 Recovery = 101.83%								
Sn 189.927†	303436.9	9.988	mg/L	0.1720	9.988	mg/L	0.1720	1.72%
QC value within limits for Sn 189.927 Recovery = 99.88%								
Ti 337.279†	2525206.7	4.942	mg/L	0.0313	4.942	mg/L	0.0313	0.63%
QC value within limits for Ti 337.279 Recovery = 98.84%								
Tl 190.801†	15375.4	2.003	mg/L	0.0158	2.003	mg/L	0.0158	0.79%
QC value within limits for Tl 190.801 Recovery = 100.15%								
V 292.402†	1332179.4	4.953	mg/L	0.0649	4.953	mg/L	0.0649	1.31%
QC value within limits for V 292.402 Recovery = 99.06%								
Zn 206.200†	609846.2	2.002	mg/L	0.0216	2.002	mg/L	0.0216	1.08%
QC value within limits for Zn 206.200 Recovery = 100.10%								
Ca 227.546†	28782.8	50.35	mg/L	0.145	50.35	mg/L	0.145	0.29%
QC value within limits for Ca 227.546 Recovery = 100.71%								
Sr 460.733†	1311715.2	5.075	mg/L	0.0397	5.075	mg/L	0.0397	0.78%

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 50 Autosampler Location: 3
Sample ID: CCV Date Collected: 8/13/2010 6:33:40 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	8401528.2	0.9622	mg/L	0.00093				0.10%
Ag 328.068†	186831.8	0.5012	mg/L	0.00380	0.5012	mg/L	0.00380	0.76%
QC value within limits for Ag 328.068 Recovery = 100.24%								
Al 308.215†	427727.4	9.916	mg/L	0.0280	9.916	mg/L	0.0280	0.28%
QC value within limits for Al 308.215 Recovery = 99.16%								
As 188.979†	8499.7	0.9963	mg/L	0.00052	0.9963	mg/L	0.00052	0.05%
QC value within limits for As 188.979 Recovery = 99.63%								
B 249.772†	566005.9	2.431	mg/L	0.0062	2.431	mg/L	0.0062	0.25%
QC value within limits for B 249.772 Recovery = 97.25%								
Ba 233.527†	3593371.3	9.981	mg/L	0.0316	9.981	mg/L	0.0316	0.32%
QC value within limits for Ba 233.527 Recovery = 99.81%								
Be 313.107†	1614353.2	0.2458	mg/L	0.00038	0.2458	mg/L	0.00038	0.15%
QC value within limits for Be 313.107 Recovery = 98.30%								
Cd 226.502†	191328.6	0.5000	mg/L	0.00048	0.5000	mg/L	0.00048	0.10%
QC value within limits for Cd 226.502 Recovery = 100.00%								
Co 228.616†	330531.9	2.472	mg/L	0.0064	2.472	mg/L	0.0064	0.26%
QC value within limits for Co 228.616 Recovery = 98.90%								
Cr 267.716†	110864.9	0.5014	mg/L	0.00158	0.5014	mg/L	0.00158	0.31%
QC value within limits for Cr 267.716 Recovery = 100.28%								
Cu 324.752†	587061.5	1.243	mg/L	0.0055	1.243	mg/L	0.0055	0.44%
QC value within limits for Cu 324.752 Recovery = 99.44%								
Fe 238.863†	304656.1	5.023	mg/L	0.0047	5.023	mg/L	0.0047	0.09%
QC value within limits for Fe 238.863 Recovery = 100.45%								
K 404.721†	4116.3						131.14	3.19%
Unable to evaluate QC.								
Mg 279.077†	994972.4	25.30	mg/L	0.063	25.30	mg/L	0.063	0.25%
QC value within limits for Mg 279.077 Recovery = 101.22%								
Mn 257.610†	1284073.1	0.7483	mg/L	0.00249	0.7483	mg/L	0.00249	0.33%
QC value within limits for Mn 257.610 Recovery = 99.78%								
Mo 202.031†	130367.5	2.439	mg/L	0.0012	2.439	mg/L	0.0012	0.05%
QC value within limits for Mo 202.031 Recovery = 97.56%								
Ni 231.604†	303489.7	2.023	mg/L	0.0111	2.023	mg/L	0.0111	0.55%
QC value within limits for Ni 231.604 Recovery = 101.15%								
Na 330.237†	43229.6	23.69	mg/L	0.034	23.69	mg/L	0.034	0.14%
QC value within limits for Na 330.237 Recovery = 94.77%								
Pb 220.353†	13922.0	0.5085	mg/L	0.01263	0.5085	mg/L	0.01263	2.48%
QC value within limits for Pb 220.353 Recovery = 101.70%								
Sb 206.836†	28582.7	4.998	mg/L	0.0233	4.998	mg/L	0.0233	0.47%
QC value within limits for Sb 206.836 Recovery = 99.96%								
Se 196.026†	2948.9	0.5093	mg/L	0.00834	0.5093	mg/L	0.00834	1.64%
QC value within limits for Se 196.026 Recovery = 101.85%								
Sn 189.927†	152511.4	5.020	mg/L	0.0129	5.020	mg/L	0.0129	0.26%
QC value within limits for Sn 189.927 Recovery = 100.40%								
Ti 337.279†	1283437.5	2.512	mg/L	0.0342	2.512	mg/L	0.0342	1.36%
QC value within limits for Ti 337.279 Recovery = 100.47%								
Tl 190.801†	7804.6	1.017	mg/L	0.0039	1.017	mg/L	0.0039	0.38%
QC value within limits for Tl 190.801 Recovery = 101.67%								
V 292.402†	659985.6	2.454	mg/L	0.0008	2.454	mg/L	0.0008	0.03%
QC value within limits for V 292.402 Recovery = 98.15%								
Zn 206.200†	306822.2	1.007	mg/L	0.0033	1.007	mg/L	0.0033	0.33%
QC value within limits for Zn 206.200 Recovery = 100.73%								
Ca 227.546†	14150.5	24.76	mg/L	0.081	24.76	mg/L	0.081	0.33%
QC value within limits for Ca 227.546 Recovery = 99.04%								
Sr 460.733†	650994.6	2.518	mg/L	0.0129	2.518	mg/L	0.0129	0.51%
QC value within limits for Sr 460.733 Recovery = 100.74%								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 51 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/13/2010 6:38:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8573385.1	0.9818	mg/L	0.01502				1.53%
Ag 328.068†	136.9	0.0004	mg/L	0.00037	0.0004	mg/L	0.00037	100.35%
QC value within limits for Ag 328.068 Recovery = Not calculated								

Al 308.215†	141.5	0.0033 mg/L	0.00027	0.0033 mg/L	0.00027	8.34%
QC value within limits for Al 308.215 Recovery = Not calculated						
As 188.979†	27.5	0.0032 mg/L	0.00046	0.0032 mg/L	0.00046	14.15%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.772†	3628.2	0.0156 mg/L	0.00164	0.0156 mg/L	0.00164	10.55%
QC value within limits for B 249.772 Recovery = Not calculated						
Ba 233.527†	763.2	0.0021 mg/L	0.00032	0.0021 mg/L	0.00032	15.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	635.4	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	46.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Cd 226.502†	22.5	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	54.14%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	114.1	0.0009 mg/L	0.00006	0.0009 mg/L	0.00006	7.38%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	121.1	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	27.54%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	4420.3	0.0094 mg/L	0.00145	0.0094 mg/L	0.00145	15.45%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.863†	3306.9	0.0546 mg/L	0.00788	0.0546 mg/L	0.00788	14.44%
QC value within limits for Fe 238.863 Recovery = Not calculated						
K 404.721†	-20.1				12.00	59.74%
Unable to evaluate QC.						
Mg 279.077†	38.8	0.0010 mg/L	0.00469	0.0010 mg/L	0.00469	491.43%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	1645.6	0.0010 mg/L	0.00002	0.0010 mg/L	0.00002	2.37%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	115.7	0.0022 mg/L	0.00058	0.0022 mg/L	0.00058	26.96%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	139.7	0.0009 mg/L	0.00007	0.0009 mg/L	0.00007	7.69%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Na 330.237†	-210.9	-0.1155 mg/L	0.07769	-0.1155 mg/L	0.07769	67.29%
QC value within limits for Na 330.237 Recovery = Not calculated						
Pb 220.353†	22.8	0.0008 mg/L	0.00028	0.0008 mg/L	0.00028	34.08%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	10.9	0.0019 mg/L	0.00014	0.0019 mg/L	0.00014	7.07%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.4	-0.0002 mg/L	0.00075	-0.0002 mg/L	0.00075	322.86%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	563.1	0.0185 mg/L	0.00213	0.0185 mg/L	0.00213	11.50%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	16.1	0.0000 mg/L	0.00034	0.0000 mg/L	0.00034	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	17.1	0.0022 mg/L	0.00081	0.0022 mg/L	0.00081	36.38%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	89.5	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	10.60%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	181.0	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	2.55%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	-41.5	-0.0690 mg/L	0.06145	-0.0690 mg/L	0.06145	89.09%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Sr 460.733†	56.2	0.0002 mg/L	0.00032	0.0002 mg/L	0.00032	148.02%
QC value within limits for Sr 460.733 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 52
Sample ID: PBW-117097
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 8/13/2010 6:44:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: PBW-117097

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8568780.1	0.9813	mg/L	0.01316				1.34%
Ag 328.068†	212.1	0.0006	mg/L	0.00005				9.55%
Al 308.215†	153.1	0.0036	mg/L	0.00290				81.61%
As 188.979†	2.6	0.0003	mg/L	0.00094				289.49%
B 249.772†	1880.4	0.0080	mg/L	0.00097				12.11%
Ba 233.527†	254.4	0.0007	mg/L	0.00001				0.95%
Be 313.107†	388.6	0.0001	mg/L	0.00004				67.23%

Cd 226.502†	-6.0	0.0000	mg/L	0.00003		124.03%
Co 228.616†	89.9	0.0007	mg/L	0.00017		25.46%
Cr 267.716†	195.2	0.0009	mg/L	0.00004		4.46%
Cu 324.752†	1983.5	0.0042	mg/L	0.00047		11.16%
Fe 238.863†	3592.0	0.0593	mg/L	0.00770		12.98%
K 404.721†	35.6				117.49	329.90%
Mg 279.077†	-127.5	-0.0033	mg/L	0.00603		183.92%
Mn 257.610†	1357.9	0.0008	mg/L	0.00002		2.83%
Mo 202.031†	48.4	0.0009	mg/L	0.00002		1.90%
Ni 231.604†	109.7	0.0007	mg/L	0.00004		4.88%
Na 330.237†	14.7	0.0083	mg/L	0.07627		922.90%
Pb 220.353†	29.8	0.0011	mg/L	0.00008		7.21%
Sb 206.836†	5.8	0.0010	mg/L	0.00072		70.40%
Se 196.026†	-0.8	-0.0001	mg/L	0.00249		>999.9%
Sn 189.927†	341.0	0.0112	mg/L	0.00146		12.98%
Ti 337.279†	-37.4	-0.0001	mg/L	0.00010		134.39%
Tl 190.801†	6.7	0.0009	mg/L	0.00029		33.30%
V 292.402†	76.5	0.0003	mg/L	0.00014		49.82%
Zn 206.200†	824.3	0.0027	mg/L	0.00000		0.04%
Ca 227.546†	-31.1	-0.0507	mg/L	0.01240		24.47%
Sr 460.733†	-123.2	-0.0005	mg/L	0.00007		14.24%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 53
Sample ID: LCSW-117097
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 8/13/2010 6:50:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: LCSW-117097

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8819316.4	1.010	mg/L	0.0072				0.71%
Ag 328.068†	18036.7	0.0484	mg/L	0.00056				1.17%
Al 308.215†	82219.9	1.907	mg/L	0.0195				1.02%
As 188.979†	336.1	0.0397	mg/L	0.00092				2.31%
B 249.772†	206928.0	0.8926	mg/L	0.01745				1.95%
Ba 233.527†	678073.4	1.883	mg/L	0.0131				0.70%
Be 313.107†	299074.1	0.0455	mg/L	0.00036				0.78%
Cd 226.502†	18197.4	0.0475	mg/L	0.00010				0.20%
Co 228.616†	65152.6	0.4874	mg/L	0.00302				0.62%
Cr 267.716†	42202.6	0.1908	mg/L	0.00138				0.72%
Cu 324.752†	117617.6	0.2491	mg/L	0.00199				0.80%
Fe 238.863†	60455.8	0.9975	mg/L	0.01523				1.53%
K 404.721†	3015.1						41.11	1.36%
Mg 279.077†	76759.2	1.952	mg/L	0.0176				0.90%
Mn 257.610†	821946.5	0.4795	mg/L	0.00350				0.73%
Mo 202.031†	25418.6	0.4756	mg/L	0.00777				1.63%
Ni 231.604†	64801.0	0.4319	mg/L	0.00255				0.59%
Na 330.237†	32532.2	17.84	mg/L	0.221				1.24%
Pb 220.353†	13409.4	0.4890	mg/L	0.00106				0.22%
Sb 206.836†	2524.9	0.4415	mg/L	0.00429				0.97%
Se 196.026†	5453.9	0.9407	mg/L	0.00576				0.61%
Sn 189.927†	156972.8	5.163	mg/L	0.0715				1.38%
Ti 337.279†	246556.6	0.4826	mg/L	0.00074				0.15%
Tl 190.801†	14309.4	1.863	mg/L	0.0103				0.55%
V 292.402†	123817.4	0.4604	mg/L	0.00507				1.10%
Zn 206.200†	152338.6	0.5006	mg/L	0.00511				1.02%
Ca 227.546†	1051.2	1.873	mg/L	0.0295				1.57%
Sr 460.733†	492200.2	1.904	mg/L	0.0266				1.40%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 54
Sample ID: R1004262-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 8/13/2010 6:55:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004262-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7374436.1	0.8445	mg/L	0.00280				0.33%
Ag 328.068†	64.2	0.0006	mg/L	0.00021				31.70%
Al 308.215†	23332.3	0.5258	mg/L	0.00521				0.99%
As 188.979†	360.3	0.0476	mg/L	0.00078				1.65%
B 249.772†	966340.0	4.138	mg/L	0.0303				0.73%
Ba 233.527†	133698.0	0.3699	mg/L	0.00192				0.52%
Be 313.107†	-1469.8	-0.0002	mg/L	0.00005				30.93%
Cd 226.502†	283.9	-0.0002	mg/L	0.00010				43.54%
Co 228.616†	31988.7	0.2390	mg/L	0.00139				0.58%
Cr 267.716†	9933.6	0.0458	mg/L	0.00011				0.23%
Cu 324.752†	99605.9	0.2113	mg/L	0.00059				0.28%
Fe 238.863†	718951.0	11.85	mg/L	0.102				0.86%
K 404.721†	97968.0						466.27	0.48%
Mg 279.077†	2810083.1	71.47	mg/L	0.449				0.63%
Mn 257.610†	2058209.4	1.198	mg/L	0.0046				0.39%
Mo 202.031†	7622.4	0.1430	mg/L	0.00139				0.97%
Ni 231.604†	7116.8	0.0471	mg/L	0.00109				2.32%
Na 330.237†	1619729.2	888.1	mg/L	1.26				0.14%
Pb 220.353†	72.6	0.0024	mg/L	0.00236				98.41%
Sb 206.836†	8.2	0.0011	mg/L	0.00347				318.13%
Se 196.026†	19.7	0.0056	mg/L	0.00058				10.44%
Sn 189.927†	414.2	0.0259	mg/L	0.00143				5.52%
Ti 337.279†	19569.3	0.0372	mg/L	0.00096				2.58%
Tl 190.801†	-47.7	-0.0050	mg/L	0.00626				126.51%
V 292.402†	3138.3	0.0128	mg/L	0.00017				1.33%
Zn 206.200†	202959.6	0.6638	mg/L	0.00357				0.54%
Ca 227.546†	49849.1	86.88	mg/L	0.069				0.08%
Sr 460.733†	218415.2	0.8432	mg/L	0.00062				0.07%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 55
Sample ID: R1004262-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 8/13/2010 7:00:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004262-003

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7398639.4	0.8473	mg/L	0.00356				0.42%
Ag 328.068†	224.4	0.0006	mg/L	0.00038				67.66%
Al 308.215†	3522.9	0.0716	mg/L	0.00281				3.92%
As 188.979†	416.7	0.0501	mg/L	0.00064				1.29%
B 249.772†	1012914.8	4.371	mg/L	0.0415				0.95%
Ba 233.527†	24050.4	0.0661	mg/L	0.00012				0.18%
Be 313.107†	-1869.9	-0.0003	mg/L	0.00003				13.80%
Cd 226.502†	110.4	0.0001	mg/L	0.00001				6.02%
Co 228.616†	17311.3	0.1294	mg/L	0.00004				0.03%
Cr 267.716†	6336.0	0.0292	mg/L	0.00009				0.30%
Cu 324.752†	44994.5	0.0943	mg/L	0.00022				0.24%
Fe 238.863†	137297.0	2.252	mg/L	0.0093				0.41%
K 404.721†	110675.4						0.94	0.00%
Mg 279.077†	2568447.6	65.33	mg/L	0.259				0.40%
Mn 257.610†	263550.1	0.1517	mg/L	0.00020				0.13%
Mo 202.031†	7310.5	0.1368	mg/L	0.00266				1.95%
Ni 231.604†	7269.3	0.0482	mg/L	0.00085				1.77%
Na 330.237†	2881090.7	1580	mg/L	3.0				0.19%
Pb 220.353†	24.7	0.0010	mg/L	0.00045				47.17%
Sb 206.836†	12.8	0.0020	mg/L	0.00152				74.76%
Se 196.026†	16.0	0.0026	mg/L	0.00684				260.94%
Sn 189.927†	799.9	0.0340	mg/L	0.00045				1.33%
Ti 337.279†	4417.9	0.0078	mg/L	0.00018				2.34%
Tl 190.801†	-17.0	-0.0015	mg/L	0.00343				231.63%
V 292.402†	2920.3	0.0111	mg/L	0.00023				2.09%
Zn 206.200†	33915.9	0.1088	mg/L	0.00037				0.34%
Ca 227.546†	26279.9	45.59	mg/L	0.267				0.59%
Sr 460.733†	81509.4	0.3144	mg/L	0.00090				0.29%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 56 **Autosampler Location: 68**
Sample ID: R1004263-001 **Date Collected: 8/13/2010 7:04:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004263-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8239469.1	0.9436	mg/L	0.00128				0.14%
Ag 328.068†	-459.8	0.0005	mg/L	0.00040				75.71%
Al 308.215†	1062566.0	24.64	mg/L	0.051				0.21%
As 188.979†	-126.4	-0.0026	mg/L	0.00169				63.94%
B 249.772†	35330.5	0.0592	mg/L	0.00089				1.51%
Ba 233.527†	2349.5	0.0047	mg/L	0.00026				5.55%
Be 313.107†	-429.7	0.0000	mg/L	0.00002				87.42%
Cd 226.502†	710.5	-0.0006	mg/L	0.00004				6.19%
Co 228.616†	812.2	0.0054	mg/L	0.00039				7.34%
Cr 267.716†	2262.9	0.0113	mg/L	0.00025				2.19%
Cu 324.752†	1997932.1	4.234	mg/L	0.0069				0.16%
Fe 238.863†	1795724.5	29.65	mg/L	0.076				0.26%
K 404.721†	2806.7						4.11	0.15%
Mg 279.077†	50436.5	1.265	mg/L	0.0039				0.31%
Mn 257.610†	8165.0	0.0047	mg/L	0.00004				0.82%
Mo 202.031†	366.0	0.0083	mg/L	0.00035				4.19%
Ni 231.604†	889.7	0.0058	mg/L	0.00004				0.75%
Na 330.237†	53195.3	29.20	mg/L	0.050				0.17%
Pb 220.353†	203.2	0.0087	mg/L	0.00164				18.92%
Sb 206.836†	-14.0	-0.0029	mg/L	0.00152				51.85%
Se 196.026†	-35.6	0.0010	mg/L	0.00432				416.65%
Sn 189.927†	6.5	0.0087	mg/L	0.00045				5.19%
Ti 337.279†	11823.3	0.0228	mg/L	0.00057				2.49%
Tl 190.801†	-0.3	0.0014	mg/L	0.00501				350.37%
V 292.402†	-561.4	0.0006	mg/L	0.00041				64.05%
Zn 206.200†	21064.8	0.0681	mg/L	0.00027				0.40%
Ca 227.546†	31847.9	56.69	mg/L	0.443				0.78%
Sr 460.733†	14663.9	0.0554	mg/L	0.00033				0.60%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 57 **Autosampler Location: 69**
Sample ID: R1004263-002 **Date Collected: 8/13/2010 7:08:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004263-002

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8236051.3	0.9432	mg/L	0.00418				0.44%
Ag 328.068†	418.5	0.0035	mg/L	0.00028				7.97%
Al 308.215†	1780747.1	41.30	mg/L	0.064				0.16%
As 188.979†	-139.6	-0.0005	mg/L	0.00716				>999.9%
B 249.772†	40191.6	0.0524	mg/L	0.00298				5.70%
Ba 233.527†	2874.4	0.0058	mg/L	0.00012				2.11%
Be 313.107†	-672.8	-0.0001	mg/L	0.00003				41.59%
Cd 226.502†	952.3	-0.0007	mg/L	0.00014				19.28%
Co 228.616†	240.9	0.0009	mg/L	0.00059				63.88%
Cr 267.716†	2817.5	0.0141	mg/L	0.00014				0.98%
Cu 324.752†	3694643.9	7.828	mg/L	0.0043				0.06%
Fe 238.863†	2364741.1	39.04	mg/L	0.094				0.24%
K 404.721†	72.1						307.37	426.29%
Mg 279.077†	46449.0	1.158	mg/L	0.0004				0.03%
Mn 257.610†	10808.8	0.0062	mg/L	0.00001				0.12%
Mo 202.031†	383.8	0.0092	mg/L	0.00047				5.13%
Ni 231.604†	689.3	0.0044	mg/L	0.00038				8.55%
Na 330.237†	58022.4	31.87	mg/L	0.002				0.01%

Pb 220.353†	337.8	0.0148	mg/L	0.00066	4.45%
Sb 206.836†	-0.9	-0.0008	mg/L	0.00147	173.25%
Se 196.026†	-12.7	0.0073	mg/L	0.00597	81.76%
Sn 189.927†	-30.2	0.0083	mg/L	0.00129	15.51%
Ti 337.279†	10792.5	0.0208	mg/L	0.00025	1.20%
Tl 190.801†	-9.9	0.0006	mg/L	0.00401	640.64%
V 292.402†	-685.2	0.0011	mg/L	0.00021	20.05%
Zn 206.200†	33071.0	0.1073	mg/L	0.00096	0.89%
Ca 227.546†	24594.1	44.65	mg/L	0.558	1.25%
Sr 460.733†	12159.2	0.0461	mg/L	0.00027	0.58%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 58
Sample ID: R1004263-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 8/13/2010 7:12:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004263-003

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8363057.5	0.9578	mg/L	0.00107				0.11%
Ag 328.068†	85.4	0.0016	mg/L	0.00060				36.47%
Al 308.215†	1163881.2	26.99	mg/L	0.051				0.19%
As 188.979†	-93.1	-0.0008	mg/L	0.00712				845.23%
B 249.772†	25895.4	0.0323	mg/L	0.00095				2.95%
Ba 233.527†	2007.6	0.0039	mg/L	0.00015				3.84%
Be 313.107†	-220.9	0.0000	mg/L	0.00001				155.63%
Cd 226.502†	600.0	-0.0004	mg/L	0.00003				6.20%
Co 228.616†	163.4	0.0006	mg/L	0.00068				108.16%
Cr 267.716†	1954.0	0.0097	mg/L	0.00015				1.58%
Cu 324.752†	2380894.9	5.044	mg/L	0.0095				0.19%
Fe 238.863†	1484562.1	24.51	mg/L	0.092				0.38%
K 404.721†	2424.4						138.72	5.72%
Mg 279.077†	32028.8	0.8000	mg/L	0.00299				0.37%
Mn 257.610†	7622.0	0.0044	mg/L	0.00003				0.59%
Mo 202.031†	295.2	0.0068	mg/L	0.00063				9.29%
Ni 231.604†	610.6	0.0039	mg/L	0.00033				8.45%
Na 330.237†	35988.1	19.74	mg/L	0.029				0.15%
Pb 220.353†	238.3	0.0106	mg/L	0.00123				11.62%
Sb 206.836†	0.9	-0.0003	mg/L	0.00007				22.29%
Se 196.026†	-9.5	0.0039	mg/L	0.00042				10.67%
Sn 189.927†	-83.2	0.0054	mg/L	0.00007				1.35%
Ti 337.279†	9593.0	0.0185	mg/L	0.00025				1.36%
Tl 190.801†	-3.7	0.0008	mg/L	0.00065				85.38%
V 292.402†	-472.6	0.0005	mg/L	0.00004				8.36%
Zn 206.200†	21447.7	0.0694	mg/L	0.00030				0.43%
Ca 227.546†	34344.2	60.74	mg/L	0.189				0.31%
Sr 460.733†	15531.2	0.0588	mg/L	0.00001				0.03%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 59
Sample ID: R1004263-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 8/13/2010 7:17:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004263-004

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8435994.9	0.9661	mg/L	0.00524				0.54%
Ag 328.068†	-307.6	0.0006	mg/L	0.00151				240.84%
Al 308.215†	946563.5	21.95	mg/L	0.065				0.30%
As 188.979†	-113.1	-0.0033	mg/L	0.00464				140.75%
B 249.772†	25108.2	0.0321	mg/L	0.00541				16.84%
Ba 233.527†	2060.2	0.0042	mg/L	0.00007				1.54%
Be 313.107†	-193.1	0.0000	mg/L	0.00003				>999.9%
Cd 226.502†	565.5	-0.0005	mg/L	0.00024				45.97%

Co 228.616†	215.5	0.0010	mg/L	0.00003		2.72%
Cr 267.716†	1809.6	0.0090	mg/L	0.00045		4.99%
Cu 324.752†	2373173.3	5.028	mg/L	0.0064		0.13%
Fe 238.863†	1473889.5	24.33	mg/L	0.148		0.61%
K 404.721†	2442.4				50.86	2.08%
Mg 279.077†	31671.8	0.7909	mg/L	0.00237		0.30%
Mn 257.610†	9108.2	0.0053	mg/L	0.00001		0.17%
Mo 202.031†	230.0	0.0055	mg/L	0.00041		7.46%
Ni 231.604†	570.1	0.0037	mg/L	0.00028		7.71%
Na 330.237†	35870.7	19.70	mg/L	0.012		0.06%
Pb 220.353†	253.2	0.0104	mg/L	0.00103		9.87%
Sb 206.836†	-7.9	-0.0018	mg/L	0.00160		89.68%
Se 196.026†	-13.3	0.0036	mg/L	0.00001		0.35%
Sn 189.927†	-1.2	0.0066	mg/L	0.00134		20.44%
Ti 337.279†	9967.3	0.0193	mg/L	0.00109		5.66%
Tl 190.801†	-22.3	-0.0017	mg/L	0.00186		109.22%
V 292.402†	-488.0	0.0004	mg/L	0.00021		48.74%
Zn 206.200†	21882.2	0.0710	mg/L	0.00013		0.18%
Ca 227.546†	22853.5	40.84	mg/L	0.174		0.43%
Sr 460.733†	13201.3	0.0502	mg/L	0.00009		0.18%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 60
Sample ID: R1004263-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 8/13/2010 7:21:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004263-005

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8322662.4	0.9531	mg/L	0.00496				0.52%
Ag 328.068†	136.3	0.0018	mg/L	0.00052				28.30%
Al 308.215†	1106906.1	25.67	mg/L	0.080				0.31%
As 188.979†	-87.0	0.0000	mg/L	0.00301				>999.9%
B 249.772†	25515.1	0.0311	mg/L	0.00170				5.46%
Ba 233.527†	2001.8	0.0040	mg/L	0.00003				0.70%
Be 313.107†	-545.2	0.0000	mg/L	0.00001				19.13%
Cd 226.502†	597.2	-0.0005	mg/L	0.00018				37.27%
Co 228.616†	257.6	0.0013	mg/L	0.00014				10.54%
Cr 267.716†	1804.4	0.0090	mg/L	0.00019				2.15%
Cu 324.752†	2402057.5	5.089	mg/L	0.0216				0.42%
Fe 238.863†	1504375.6	24.83	mg/L	0.117				0.47%
K 404.721†	2546.0						263.22	10.34%
Mg 279.077†	31248.0	0.7799	mg/L	0.00123				0.16%
Mn 257.610†	8733.4	0.0051	mg/L	0.00000				0.10%
Mo 202.031†	239.6	0.0057	mg/L	0.00020				3.47%
Ni 231.604†	633.2	0.0041	mg/L	0.00005				1.35%
Na 330.237†	36739.0	20.17	mg/L	0.108				0.54%
Pb 220.353†	250.5	0.0108	mg/L	0.00191				17.69%
Sb 206.836†	7.1	0.0008	mg/L	0.00223				282.64%
Se 196.026†	-18.7	0.0026	mg/L	0.00494				189.42%
Sn 189.927†	-28.8	0.0064	mg/L	0.00097				15.26%
Ti 337.279†	9774.5	0.0189	mg/L	0.00035				1.86%
Tl 190.801†	-6.1	0.0005	mg/L	0.00114				251.03%
V 292.402†	-463.0	0.0006	mg/L	0.00026				46.58%
Zn 206.200†	23591.1	0.0765	mg/L	0.00018				0.23%
Ca 227.546†	27635.0	49.15	mg/L	0.110				0.22%
Sr 460.733†	14329.7	0.0544	mg/L	0.00042				0.78%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 61
Sample ID: R1004264-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 8/13/2010 7:25:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004264-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8278283.4	0.9481	mg/L	0.01903				2.01%
Ag 328.068†	13743.4	0.0367	mg/L	0.00096				2.61%
Al 308.215†	6915.0	0.1525	mg/L	0.00309				2.02%
As 188.979†	78.9	0.0096	mg/L	0.00073				7.58%
B 249.772†	32432.1	0.1329	mg/L	0.00131				0.98%
Ba 233.527†	28035.6	0.0774	mg/L	0.00207				2.68%
Be 313.107†	-746.6	-0.0001	mg/L	0.00005				57.09%
Cd 226.502†	-63.0	-0.0002	mg/L	0.00004				27.13%
Co 228.616†	22.5	0.0001	mg/L	0.00051				507.06%
Cr 267.716†	2015.7	0.0092	mg/L	0.00028				3.01%
Cu 324.752†	13979.5	0.0291	mg/L	0.00001				0.02%
Fe 238.863†	15824.9	0.2539	mg/L	0.01937				7.63%
K 404.721†	1940.9						174.54	8.99%
Mg 279.077†	465938.8	11.85	mg/L	0.133				1.12%
Mn 257.610†	35748.8	0.0205	mg/L	0.00056				2.71%
Mo 202.031†	535.8	0.0100	mg/L	0.00076				7.62%
Ni 231.604†	1102.8	0.0072	mg/L	0.00003				0.44%
Na 330.237†	445726.9	244.3	mg/L	4.86				1.99%
Pb 220.353†	281.0	0.0107	mg/L	0.00052				4.84%
Sb 206.836†	90.3	0.0157	mg/L	0.00262				16.69%
Se 196.026†	14.3	0.0018	mg/L	0.00451				246.08%
Sn 189.927†	-63.1	0.0029	mg/L	0.00012				4.00%
Ti 337.279†	682.9	0.0010	mg/L	0.00006				6.25%
Tl 190.801†	12.1	0.0018	mg/L	0.00282				159.24%
V 292.402†	318.1	0.0012	mg/L	0.00019				15.77%
Zn 206.200†	13722.4	0.0443	mg/L	0.00157				3.55%
Ca 227.546†	35355.6	61.19	mg/L	1.367				2.23%
Sr 460.733†	70307.5	0.2707	mg/L	0.00544				2.01%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 62
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2010 7:29:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8504770.5	0.9740	mg/L	0.00455				0.47%
Ag 328.068†	186055.0	0.4991	mg/L	0.00780	0.4991	mg/L	0.00780	1.56%
QC value within limits for Ag 328.068 Recovery = 99.83%								
Al 308.215†	426223.8	9.881	mg/L	0.0727	9.881	mg/L	0.0727	0.74%
QC value within limits for Al 308.215 Recovery = 98.81%								
As 188.979†	8514.3	0.9980	mg/L	0.00474	0.9980	mg/L	0.00474	0.48%
QC value within limits for As 188.979 Recovery = 99.80%								
B 249.772†	553429.4	2.377	mg/L	0.0012	2.377	mg/L	0.0012	0.05%
QC value within limits for B 249.772 Recovery = 95.07%								
Ba 233.527†	3581752.0	9.948	mg/L	0.0337	9.948	mg/L	0.0337	0.34%
QC value within limits for Ba 233.527 Recovery = 99.48%								
Be 313.107†	1594634.5	0.2427	mg/L	0.00170	0.2427	mg/L	0.00170	0.70%
QC value within limits for Be 313.107 Recovery = 97.10%								
Cd 226.502†	190381.6	0.4975	mg/L	0.00144	0.4975	mg/L	0.00144	0.29%
QC value within limits for Cd 226.502 Recovery = 99.51%								
Co 228.616†	328701.9	2.459	mg/L	0.0149	2.459	mg/L	0.0149	0.60%
QC value within limits for Co 228.616 Recovery = 98.35%								
Cr 267.716†	109745.2	0.4963	mg/L	0.00086	0.4963	mg/L	0.00086	0.17%
QC value within limits for Cr 267.716 Recovery = 99.27%								
Cu 324.752†	573995.0	1.215	mg/L	0.0065	1.215	mg/L	0.0065	0.53%
QC value within limits for Cu 324.752 Recovery = 97.23%								
Fe 238.863†	302396.6	4.985	mg/L	0.0287	4.985	mg/L	0.0287	0.58%
QC value within limits for Fe 238.863 Recovery = 99.71%								
K 404.721†	4884.4						159.37	3.26%
Unable to evaluate QC.								
Mg 279.077†	991473.3	25.21	mg/L	0.135	25.21	mg/L	0.135	0.54%
QC value within limits for Mg 279.077 Recovery = 100.86%								
Mn 257.610†	1269916.1	0.7401	mg/L	0.00511	0.7401	mg/L	0.00511	0.69%
QC value within limits for Mn 257.610 Recovery = 98.68%								

Mo 202.031†	128513.3	2.404 mg/L	0.0139	2.404 mg/L	0.0139	0.58%
QC value within limits for Mo 202.031 Recovery = 96.18%						
Ni 231.604†	303443.2	2.023 mg/L	0.0258	2.023 mg/L	0.0258	1.27%
QC value within limits for Ni 231.604 Recovery = 101.13%						
Na 330.237†	43785.5	24.00 mg/L	0.069	24.00 mg/L	0.069	0.29%
QC value within limits for Na 330.237 Recovery = 95.99%						
Pb 220.353†	13867.6	0.5065 mg/L	0.00627	0.5065 mg/L	0.00627	1.24%
QC value within limits for Pb 220.353 Recovery = 101.30%						
Sb 206.836†	28454.8	4.976 mg/L	0.0723	4.976 mg/L	0.0723	1.45%
QC value within limits for Sb 206.836 Recovery = 99.51%						
Se 196.026†	2928.8	0.5058 mg/L	0.00160	0.5058 mg/L	0.00160	0.32%
QC value within limits for Se 196.026 Recovery = 101.16%						
Sn 189.927†	153374.6	5.048 mg/L	0.0029	5.048 mg/L	0.0029	0.06%
QC value within limits for Sn 189.927 Recovery = 100.97%						
Ti 337.279†	1283713.5	2.512 mg/L	0.0510	2.512 mg/L	0.0510	2.03%
QC value within limits for Ti 337.279 Recovery = 100.49%						
Tl 190.801†	7689.1	1.002 mg/L	0.0046	1.002 mg/L	0.0046	0.46%
QC value within limits for Tl 190.801 Recovery = 100.17%						
V 292.402†	654343.9	2.433 mg/L	0.0140	2.433 mg/L	0.0140	0.58%
QC value within limits for V 292.402 Recovery = 97.31%						
Zn 206.200†	305617.8	1.003 mg/L	0.0053	1.003 mg/L	0.0053	0.53%
QC value within limits for Zn 206.200 Recovery = 100.33%						
Ca 227.546†	14111.7	24.69 mg/L	0.076	24.69 mg/L	0.076	0.31%
QC value within limits for Ca 227.546 Recovery = 98.76%						
Sr 460.733†	659670.9	2.552 mg/L	0.0276	2.552 mg/L	0.0276	1.08%
QC value within limits for Sr 460.733 Recovery = 102.08%						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 63 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/13/2010 7:34:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8769955.4	1.004	mg/L	0.0032				0.32%
Ag 328.068†	144.5	0.0004	mg/L	0.00019	0.0004	mg/L	0.00019	48.46%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-339.9	-0.0079	mg/L	0.00092	-0.0079	mg/L	0.00092	11.74%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	11.2	0.0013	mg/L	0.00081	0.0013	mg/L	0.00081	61.13%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	2871.0	0.0123	mg/L	0.00171	0.0123	mg/L	0.00171	13.86%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	110.4	0.0003	mg/L	0.00019	0.0003	mg/L	0.00019	60.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	753.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	17.26%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	18.4	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	2.14%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	45.7	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	31.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	14.6	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	55.92%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	3378.5	0.0072	mg/L	0.00103	0.0072	mg/L	0.00103	14.36%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	2646.2	0.0437	mg/L	0.00094	0.0437	mg/L	0.00094	2.15%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	-78.3						44.77	57.15%
Unable to evaluate QC.								
Mg 279.077†	-170.2	-0.0044	mg/L	0.00146	-0.0044	mg/L	0.00146	33.40%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	638.1	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.56%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	45.0	0.0008	mg/L	0.00028	0.0008	mg/L	0.00028	32.63%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	44.9	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.76%
QC value within limits for Ni 231.604 Recovery = Not calculated								

Na 330.237†	-282.9	-0.1549 mg/L	0.02769	-0.1549 mg/L	0.02769	17.88%
QC value within limits for Na 330.237 Recovery = Not calculated						
Pb 220.353†	13.1	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	13.42%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	8.6	0.0015 mg/L	0.00034	0.0015 mg/L	0.00034	22.68%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.6	-0.0004 mg/L	0.00040	-0.0004 mg/L	0.00040	89.85%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	252.1	0.0083 mg/L	0.00110	0.0083 mg/L	0.00110	13.25%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-62.6	-0.0001 mg/L	0.00023	-0.0001 mg/L	0.00023	186.90%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	9.3	0.0012 mg/L	0.00067	0.0012 mg/L	0.00067	54.96%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	129.0	0.0005 mg/L	0.00014	0.0005 mg/L	0.00014	29.78%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	69.4	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	53.56%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	-53.1	-0.0896 mg/L	0.00303	-0.0896 mg/L	0.00303	3.38%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Sr 460.733†	-1.3	0.0000 mg/L	0.00022	0.0000 mg/L	0.00022	>999.9%
QC value within limits for Sr 460.733 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 64
Sample ID: R1004264-001D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 8/13/2010 7:39:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004264-001D

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8194558.1	0.9385	mg/L	0.00749				0.80%
Ag 328.068†	13706.3	0.0366	mg/L	0.00007				0.20%
Al 308.215†	6315.6	0.1390	mg/L	0.00026				0.19%
As 188.979†	70.4	0.0086	mg/L	0.00114				13.27%
B 249.772†	31020.9	0.1271	mg/L	0.00059				0.46%
Ba 233.527†	27120.5	0.0748	mg/L	0.00021				0.28%
Be 313.107†	-825.2	-0.0001	mg/L	0.00001				10.65%
Cd 226.502†	-28.6	-0.0001	mg/L	0.00015				204.30%
Co 228.616†	40.1	0.0002	mg/L	0.00013				53.41%
Cr 267.716†	1912.6	0.0087	mg/L	0.00039				4.46%
Cu 324.752†	7898.8	0.0163	mg/L	0.00002				0.15%
Fe 238.863†	15712.5	0.2524	mg/L	0.00489				1.94%
K 404.721†	1768.2						12.90	0.73%
Mg 279.077†	441990.5	11.24	mg/L	0.050				0.44%
Mn 257.610†	34050.7	0.0195	mg/L	0.00006				0.30%
Mo 202.031†	517.6	0.0097	mg/L	0.00073				7.54%
Ni 231.604†	1056.5	0.0069	mg/L	0.00025				3.60%
Na 330.237†	425588.7	233.3	mg/L	0.01				0.00%
Pb 220.353†	331.0	0.0125	mg/L	0.00180				14.42%
Sb 206.836†	113.4	0.0197	mg/L	0.00518				26.25%
Se 196.026†	6.3	0.0005	mg/L	0.00443				904.38%
Sn 189.927†	41.8	0.0062	mg/L	0.00053				8.53%
Ti 337.279†	620.3	0.0009	mg/L	0.00014				16.10%
Tl 190.801†	14.5	0.0021	mg/L	0.00570				273.89%
V 292.402†	298.7	0.0011	mg/L	0.00003				3.03%
Zn 206.200†	13253.9	0.0428	mg/L	0.00013				0.30%
Ca 227.546†	33731.4	58.38	mg/L	0.125				0.21%
Sr 460.733†	67043.3	0.2581	mg/L	0.00013				0.05%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 65
Sample ID: R1004264-001S
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 8/13/2010 7:43:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004264-001S

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	7807162.3	0.8941	mg/L	0.00547				0.61%
Ag 328.068†	34257.5	0.0918	mg/L	0.00013				0.14%
Al 308.215†	96404.5	2.228	mg/L	0.0055				0.25%
As 188.979†	409.4	0.0487	mg/L	0.00683				14.01%
B 249.772†	272157.1	1.167	mg/L	0.0022				0.19%
Ba 233.527†	766853.5	2.129	mg/L	0.0030				0.14%
Be 313.107†	333636.8	0.0508	mg/L	0.00004				0.08%
Cd 226.502†	19909.6	0.0520	mg/L	0.00082				1.58%
Co 228.616†	72065.4	0.5390	mg/L	0.00746				1.38%
Cr 267.716†	47579.4	0.2151	mg/L	0.00197				0.91%
Cu 324.752†	137502.2	0.2907	mg/L	0.00032				0.11%
Fe 238.863†	83734.3	1.374	mg/L	0.0032				0.23%
K 404.721†	5940.8						93.29	1.57%
Mg 279.077†	562047.9	14.29	mg/L	0.013				0.09%
Mn 257.610†	951841.7	0.5549	mg/L	0.00099				0.18%
Mo 202.031†	28767.0	0.5382	mg/L	0.00483				0.90%
Ni 231.604†	74269.7	0.4949	mg/L	0.00163				0.33%
Na 330.237†	510648.5	279.9	mg/L	0.28				0.10%
Pb 220.353†	14584.3	0.5323	mg/L	0.00588				1.10%
Sb 206.836†	3077.8	0.5381	mg/L	0.00263				0.49%
Se 196.026†	6036.9	1.041	mg/L	0.0059				0.57%
Sn 189.927†	173476.7	5.711	mg/L	0.0130				0.23%
Ti 337.279†	279141.2	0.5460	mg/L	0.00663				1.21%
Tl 190.801†	15498.0	2.018	mg/L	0.0197				0.98%
V 292.402†	139968.5	0.5204	mg/L	0.00140				0.27%
Zn 206.200†	180956.7	0.5938	mg/L	0.00028				0.05%
Ca 227.546†	37297.0	64.61	mg/L	0.704				1.09%
Sr 460.733†	660139.8	2.553	mg/L	0.0078				0.31%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 66
Sample ID: R1004264-001A
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 76
Date Collected: 8/13/2010 7:48:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004264-001A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	7978178.6	0.9137	mg/L	0.00362				0.40%
Ag 328.068†	32977.6	0.0884	mg/L	0.00006				0.07%
Al 308.215†	93720.5	2.166	mg/L	0.0189				0.87%
As 188.979†	414.6	0.0493	mg/L	0.00165				3.34%
B 249.772†	268101.1	1.150	mg/L	0.0114				0.99%
Ba 233.527†	748190.9	2.078	mg/L	0.0102				0.49%
Be 313.107†	325594.9	0.0496	mg/L	0.00016				0.33%
Cd 226.502†	19259.4	0.0503	mg/L	0.00034				0.67%
Co 228.616†	69732.5	0.5215	mg/L	0.00254				0.49%
Cr 267.716†	45992.1	0.2080	mg/L	0.00041				0.19%
Cu 324.752†	133459.5	0.2822	mg/L	0.00117				0.41%
Fe 238.863†	80980.9	1.329	mg/L	0.0093				0.70%
K 404.721†	5869.9						106.81	1.82%
Mg 279.077†	547203.6	13.92	mg/L	0.087				0.63%
Mn 257.610†	928420.4	0.5412	mg/L	0.00257				0.48%
Mo 202.031†	27892.0	0.5218	mg/L	0.00053				0.10%
Ni 231.604†	72278.1	0.4816	mg/L	0.00177				0.37%
Na 330.237†	495529.1	271.7	mg/L	1.66				0.61%
Pb 220.353†	14114.2	0.5152	mg/L	0.00120				0.23%
Sb 206.836†	3068.1	0.5364	mg/L	0.00170				0.32%
Se 196.026†	77.7	0.0130	mg/L	0.00441				33.96%
Sn 189.927†	282.0	0.0147	mg/L	0.00120				8.19%
Ti 337.279†	271902.6	0.5318	mg/L	0.01175				2.21%
Tl 190.801†	14995.0	1.953	mg/L	0.0081				0.41%
V 292.402†	136199.2	0.5064	mg/L	0.00416				0.82%
Zn 206.200†	178680.9	0.5864	mg/L	0.00191				0.33%
Ca 227.546†	35969.6	62.31	mg/L	0.410				0.66%

Sr 460.733†	70993.6	0.2733 mg/L	0.00176		0.64%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 67 — **Autosampler Location: 77**
Sample ID: R1004264-001L — **Date Collected: 8/13/2010 7:52:27 PM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol: 50 mL**

Mean Data: R1004264-001L

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	8685278.9	0.9947	mg/L	0.00917				0.92%
Ag 328.068†	2705.7	0.0072	mg/L	0.00002				0.29%
Al 308.215†	1047.3	0.0228	mg/L	0.00086				3.76%
As 188.979†	7.0	0.0009	mg/L	0.00086				94.89%
B 249.772†	8122.7	0.0336	mg/L	0.00093				2.78%
Ba 233.527†	5850.7	0.0162	mg/L	0.00016				0.98%
Be 313.107†	220.8	0.0000	mg/L	0.00000				8.07%
Cd 226.502†	40.7	0.0001	mg/L	0.00003				30.54%
Co 228.616†	23.8	0.0002	mg/L	0.00002				9.99%
Cr 267.716†	353.4	0.0016	mg/L	0.00006				3.43%
Cu 324.752†	1788.3	0.0037	mg/L	0.00016				4.24%
Fe 238.863†	5518.8	0.0897	mg/L	0.00468				5.22%
K 404.721†	205.3				114.33			55.69%
Mg 279.077†	93271.5	2.372	mg/L	0.0319				1.34%
Mn 257.610†	7638.6	0.0044	mg/L	0.00005				1.12%
Mo 202.031†	119.2	0.0022	mg/L	0.00011				4.74%
Ni 231.604†	231.2	0.0015	mg/L	0.00001				0.47%
Na 330.237†	77418.8	42.44	mg/L	0.407				0.96%
Pb 220.353†	87.9	0.0033	mg/L	0.00065				19.75%
Sb 206.836†	16.9	0.0029	mg/L	0.00099				33.72%
Se 196.026†	0.7	0.0000	mg/L	0.00034				>999.9%
Sn 189.927†	123.1	0.0050	mg/L	0.00048				9.49%
Ti 337.279†	-3.7	-0.0001	mg/L	0.00023				311.62%
Tl 190.801†	20.1	0.0027	mg/L	0.00088				33.16%
V 292.402†	113.1	0.0004	mg/L	0.00002				5.38%
Zn 206.200†	3611.5	0.0117	mg/L	0.00002				0.18%
Ca 227.546†	6770.0	11.72	mg/L	0.039				0.33%
Sr 460.733†	13770.0	0.0530	mg/L	0.00077				1.44%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 68 — **Autosampler Location: 78**
Sample ID: R1004264-002 — **Date Collected: 8/13/2010 7:58:09 PM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol: 50 mL**

Mean Data: R1004264-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	7897140.9	0.9044	mg/L	0.00529				0.59%
Ag 328.068†	97996.2	0.2627	mg/L	0.00153				0.58%
Al 308.215†	24843.0	0.5699	mg/L	0.00442				0.78%
As 188.979†	34.2	0.0045	mg/L	0.00175				38.72%
B 249.772†	33130.4	0.1358	mg/L	0.00124				0.92%
Ba 233.527†	40705.3	0.1126	mg/L	0.00056				0.49%
Be 313.107†	-815.9	-0.0001	mg/L	0.00000				2.80%
Cd 226.502†	60.1	0.0001	mg/L	0.00009				81.27%
Co 228.616†	46.5	0.0003	mg/L	0.00006				19.92%
Cr 267.716†	4005.8	0.0182	mg/L	0.00051				2.79%
Cu 324.752†	12684.6	0.0265	mg/L	0.00008				0.31%
Fe 238.863†	43898.7	0.7184	mg/L	0.00325				0.45%
K 404.721†	1932.6				127.60			6.60%
Mg 279.077†	503727.3	12.81	mg/L	0.011				0.09%
Mn 257.610†	45796.8	0.0263	mg/L	0.00000				0.01%
Mo 202.031†	602.4	0.0113	mg/L	0.00004				0.33%
Ni 231.604†	1149.1	0.0075	mg/L	0.00054				7.17%

Na 330.237†	480049.6	263.2	mg/L	0.39		0.15%
Pb 220.353†	443.6	0.0165	mg/L	0.00059		3.56%
Sb 206.836†	147.8	0.0258	mg/L	0.00235		9.13%
Se 196.026†	27.9	0.0044	mg/L	0.00466		105.15%
Sn 189.927†	39.0	0.0055	mg/L	0.00002		0.29%
Ti 337.279†	8860.9	0.0170	mg/L	0.00012		0.70%
Tl 190.801†	26.4	0.0036	mg/L	0.00393		107.82%
V 292.402†	489.4	0.0019	mg/L	0.00011		6.08%
Zn 206.200†	18037.1	0.0585	mg/L	0.00009		0.16%
Ca 227.546†	27408.2	47.47	mg/L	0.197		0.41%
Sr 460.733†	75562.8	0.2913	mg/L	0.00012		0.04%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 69 **Autosampler Location: 79**
Sample ID: R1004271-001 **Date Collected: 8/13/2010 8:02:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004271-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7993321.6	0.9154	mg/L	0.00242				0.26%
Ag 328.068†	-59.0	0.0003	mg/L	0.00084				250.06%
Al 308.215†	2924712.9	67.83	mg/L	0.128				0.19%
As 188.979†	-13.6	0.0025	mg/L	0.00170				67.18%
B 249.772†	21291.2	0.0468	mg/L	0.00050				1.07%
Ba 233.527†	15091.6	0.0410	mg/L	0.00015				0.36%
Be 313.107†	-713.2	-0.0001	mg/L	0.00001				19.44%
Cd 226.502†	196.4	-0.0003	mg/L	0.00005				14.65%
Co 228.616†	193.7	0.0012	mg/L	0.00001				0.99%
Cr 267.716†	5275.8	0.0242	mg/L	0.00008				0.35%
Cu 324.752†	107568.9	0.2287	mg/L	0.00072				0.31%
Fe 238.863†	649929.6	10.71	mg/L	0.058				0.54%
K 404.721†	817.1						69.70	8.53%
Mg 279.077†	392843.5	9.986	mg/L	0.0330				0.33%
Mn 257.610†	146244.3	0.0852	mg/L	0.00014				0.16%
Mo 202.031†	412.0	0.0088	mg/L	0.00008				0.96%
Ni 231.604†	82188.8	0.5477	mg/L	0.00271				0.50%
Na 330.237†	69188.7	37.91	mg/L	0.150				0.40%
Pb 220.353†	-112.2	0.0035	mg/L	0.00120				34.32%
Sb 206.836†	7.6	0.0007	mg/L	0.00412				628.16%
Se 196.026†	24.9	0.0047	mg/L	0.00237				50.55%
Sn 189.927†	54.7	0.0084	mg/L	0.00186				22.25%
Ti 337.279†	5974.6	0.0114	mg/L	0.00007				0.63%
Tl 190.801†	-18.7	-0.0016	mg/L	0.00301				186.61%
V 292.402†	5009.8	0.0196	mg/L	0.00014				0.69%
Zn 206.200†	29530.1	0.0954	mg/L	0.00123				1.29%
Ca 227.546†	26591.9	46.65	mg/L	0.059				0.13%
Sr 460.733†	97923.0	0.3781	mg/L	0.00146				0.38%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 70 **Autosampler Location: 80**
Sample ID: PBW-117216 **Date Collected: 8/13/2010 8:06:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: PBW-117216

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8738824.4	1.001	mg/L	0.0087				0.87%
Ag 328.068†	55.0	0.0002	mg/L	0.00016				103.07%
Al 308.215†	-208.6	-0.0048	mg/L	0.00658				136.25%
As 188.979†	-3.0	-0.0003	mg/L	0.00066				203.94%
B 249.772†	-1166.8	-0.0052	mg/L	0.00144				27.71%
Ba 233.527†	-18.8	-0.0001	mg/L	0.00013				245.79%
Be 313.107†	174.7	0.0000	mg/L	0.00001				26.69%

Cd 226.502†	-27.6	-0.0001	mg/L	0.00002		32.44%
Co 228.616†	-6.6	-0.0001	mg/L	0.00004		75.26%
Cr 267.716†	16.4	0.0001	mg/L	0.00008		101.44%
Cu 324.752†	473.5	0.0010	mg/L	0.00048		47.05%
Fe 238.863†	3280.7	0.0542	mg/L	0.00725		13.37%
K 404.721†	-128.1				82.27	64.24%
Mg 279.077†	-361.3	-0.0092	mg/L	0.00232		25.17%
Mn 257.610†	237.8	0.0001	mg/L	0.00003		19.69%
Mo 202.031†	-7.3	-0.0001	mg/L	0.00001		6.17%
Ni 231.604†	5.9	0.0000	mg/L	0.00004		107.81%
Na 330.237†	269.4	0.1479	mg/L	0.04676		31.61%
Pb 220.353†	47.6	0.0017	mg/L	0.00043		24.75%
Sb 206.836†	-2.1	-0.0004	mg/L	0.00138		368.60%
Se 196.026†	4.6	0.0008	mg/L	0.00075		93.09%
Sn 189.927†	46.2	0.0015	mg/L	0.00004		2.45%
Ti 337.279†	-27.5	-0.0001	mg/L	0.00008		142.84%
Tl 190.801†	0.1	0.0000	mg/L	0.00093		>999.9%
V 292.402†	103.4	0.0004	mg/L	0.00008		20.76%
Zn 206.200†	653.0	0.0021	mg/L	0.00002		1.05%
Ca 227.546†	-40.7	-0.0676	mg/L	0.02744		40.57%
Sr 460.733†	-31.1	-0.0001	mg/L	0.00064		534.19%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 71
Sample ID: LCSW-117216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 8/13/2010 8:12:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: LCSW-117216

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8561508.6	0.9805	mg/L	0.00726				0.74%
Ag 328.068†	18538.0	0.0498	mg/L	0.00012				0.24%
Al 308.215†	85721.4	1.988	mg/L	0.0099				0.50%
As 188.979†	367.9	0.0435	mg/L	0.00266				6.11%
B 249.772†	208846.5	0.9007	mg/L	0.00412				0.46%
Ba 233.527†	700722.1	1.946	mg/L	0.0056				0.29%
Be 313.107†	309139.6	0.0471	mg/L	0.00019				0.40%
Cd 226.502†	19155.9	0.0500	mg/L	0.00024				0.48%
Co 228.616†	67919.8	0.5081	mg/L	0.00090				0.18%
Cr 267.716†	43589.5	0.1970	mg/L	0.00128				0.65%
Cu 324.752†	122026.9	0.2584	mg/L	0.00033				0.13%
Fe 238.863†	64216.3	1.060	mg/L	0.0103				0.98%
K 404.721†	3400.4						8.37	0.25%
Mg 279.077†	79790.6	2.029	mg/L	0.0069				0.34%
Mn 257.610†	843811.3	0.4922	mg/L	0.00132				0.27%
Mo 202.031†	25956.8	0.4856	mg/L	0.00190				0.39%
Ni 231.604†	67390.7	0.4492	mg/L	0.00163				0.36%
Na 330.237†	34902.7	19.14	mg/L	0.138				0.72%
Pb 220.353†	13892.6	0.5066	mg/L	0.00037				0.07%
Sb 206.836†	2687.8	0.4700	mg/L	0.01195				2.54%
Se 196.026†	5895.5	1.017	mg/L	0.0021				0.20%
Sn 189.927†	164329.4	5.405	mg/L	0.0456				0.84%
Ti 337.279†	257254.4	0.5035	mg/L	0.00684				1.36%
Tl 190.801†	15047.3	1.959	mg/L	0.0151				0.77%
V 292.402†	128733.8	0.4786	mg/L	0.00326				0.68%
Zn 206.200†	157211.3	0.5166	mg/L	0.00225				0.44%
Ca 227.546†	1037.8	1.853	mg/L	0.0785				4.23%
Sr 460.733†	208.2	0.0008	mg/L	0.00037				47.89%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 72
Sample ID: R1004141-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 8/13/2010 8:16:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004141-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	8343837.5	0.9556	mg/L	0.00816				0.85%
Ag 328.068†	-127.0	-0.0007	mg/L	0.00008				11.03%
Al 308.215†	-359.3	-0.0276	mg/L	0.00136				4.93%
As 188.979†	-60.9	-0.0063	mg/L	0.00606				95.87%
B 249.772†	8023.7	0.0172	mg/L	0.00138				8.04%
Ba 233.527†	23114.5	0.0630	mg/L	0.00005				0.07%
Be 313.107†	-638.1	0.0000	mg/L	0.00002				148.38%
Cd 226.502†	-65.0	-0.0001	mg/L	0.00020				157.63%
Co 228.616†	122.0	0.0007	mg/L	0.00042				56.46%
Cr 267.716†	72.7	0.0004	mg/L	0.00040				104.22%
Cu 324.752†	1715.4	0.0025	mg/L	0.00025				9.90%
Fe 238.863†	16389.8	0.2531	mg/L	0.00436				1.72%
K 404.721†	457.6				8.02			1.75%
Mg 279.077†	903044.8	22.97	mg/L	0.015				0.06%
Mn 257.610†	117928.7	0.0681	mg/L	0.00012				0.18%
Mo 202.031†	99.7	0.0018	mg/L	0.00030				17.05%
Ni 231.604†	437.3	0.0025	mg/L	0.00011				4.37%
Na 330.237†	10890.8	5.850	mg/L	0.0447				0.76%
Pb 220.353†	-2.6	0.0011	mg/L	0.00085				78.92%
Sb 206.836†	3.2	0.0004	mg/L	0.00070				197.40%
Se 196.026†	15.6	0.0010	mg/L	0.00592				575.64%
Sn 189.927†	14.1	0.0126	mg/L	0.00135				10.70%
Ti 337.279†	-162.5	-0.0011	mg/L	0.00011				9.73%
Tl 190.801†	12.1	0.0020	mg/L	0.00128				64.22%
V 292.402†	103.6	0.0004	mg/L	0.00013				38.15%
Zn 206.200†	1465.6	0.0030	mg/L	0.00009				3.06%
Ca 227.546†	89111.5	154.2	mg/L	0.28				0.18%
Sr 460.733†	126021.1	0.4842	mg/L	0.00143				0.30%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 73
Sample ID: R1004141-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 8/13/2010 8:20:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004141-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	8274441.8	0.9476	mg/L	0.00480				0.51%
Ag 328.068†	98.6	0.0000	mg/L	0.00004				505.27%
Al 308.215†	51.9	-0.0121	mg/L	0.00222				18.25%
As 188.979†	-42.9	-0.0045	mg/L	0.00217				48.64%
B 249.772†	8134.3	0.0231	mg/L	0.00017				0.75%
Ba 233.527†	19019.5	0.0520	mg/L	0.00001				0.03%
Be 313.107†	-282.3	0.0000	mg/L	0.00004				243.92%
Cd 226.502†	-30.2	-0.0001	mg/L	0.00003				62.89%
Co 228.616†	11.6	0.0000	mg/L	0.00007				281.97%
Cr 267.716†	80.0	0.0004	mg/L	0.00011				24.90%
Cu 324.752†	1699.6	0.0028	mg/L	0.00026				9.32%
Fe 238.863†	11879.5	0.1837	mg/L	0.00365				1.99%
K 404.721†	323.7				79.65			24.61%
Mg 279.077†	739933.2	18.82	mg/L	0.025				0.13%
Mn 257.610†	17804.8	0.0098	mg/L	0.00007				0.68%
Mo 202.031†	135.9	0.0025	mg/L	0.00057				23.06%
Ni 231.604†	106.7	0.0004	mg/L	0.00012				27.89%
Na 330.237†	13414.2	7.272	mg/L	0.0335				0.46%
Pb 220.353†	-3.2	0.0007	mg/L	0.00095				141.33%
Sb 206.836†	7.9	0.0012	mg/L	0.00071				57.45%
Se 196.026†	21.3	0.0025	mg/L	0.00018				7.02%
Sn 189.927†	-73.9	0.0060	mg/L	0.00174				28.84%
Ti 337.279†	-232.2	-0.0010	mg/L	0.00019				18.74%
Tl 190.801†	-8.1	-0.0007	mg/L	0.00125				171.79%
V 292.402†	137.3	0.0005	mg/L	0.00026				53.74%
Zn 206.200†	1446.5	0.0034	mg/L	0.00019				5.54%
Ca 227.546†	60556.2	104.8	mg/L	0.85				0.81%
Sr 460.733†	91692.6	0.3525	mg/L	0.00111				0.31%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 74
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 8/13/2010 8:24:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8413184.5	0.9635	mg/L	0.01459				1.51%
Ag 328.068†	193054.0	0.5179	mg/L	0.00777	0.5179	mg/L	0.00777	1.50%
QC value within limits for Ag 328.068 Recovery = 103.58%								
Al 308.215†	432605.1	10.03	mg/L	0.212	10.03	mg/L	0.212	2.11%
QC value within limits for Al 308.215 Recovery = 100.29%								
As 188.979†	8507.0	0.9971	mg/L	0.00669	0.9971	mg/L	0.00669	0.67%
QC value within limits for As 188.979 Recovery = 99.71%								
B 249.772†	554982.0	2.383	mg/L	0.0724	2.383	mg/L	0.0724	3.04%
QC value within limits for B 249.772 Recovery = 95.33%								
Ba 233.527†	3490617.1	9.695	mg/L	0.1970	9.695	mg/L	0.1970	2.03%
QC value within limits for Ba 233.527 Recovery = 96.95%								
Be 313.107†	1610164.9	0.2451	mg/L	0.00570	0.2451	mg/L	0.00570	2.32%
QC value within limits for Be 313.107 Recovery = 98.05%								
Cd 226.502†	190316.1	0.4974	mg/L	0.00657	0.4974	mg/L	0.00657	1.32%
QC value within limits for Cd 226.502 Recovery = 99.47%								
Co 228.616†	321817.3	2.407	mg/L	0.0493	2.407	mg/L	0.0493	2.05%
QC value within limits for Co 228.616 Recovery = 96.29%								
Cr 267.716†	111263.1	0.5032	mg/L	0.00756	0.5032	mg/L	0.00756	1.50%
QC value within limits for Cr 267.716 Recovery = 100.64%								
Cu 324.752†	573467.5	1.214	mg/L	0.0276	1.214	mg/L	0.0276	2.27%
QC value within limits for Cu 324.752 Recovery = 97.14%								
Fe 238.863†	307594.3	5.071	mg/L	0.1353	5.071	mg/L	0.1353	2.67%
QC value within limits for Fe 238.863 Recovery = 101.42%								
K 404.721†	4451.6						23.38	0.53%
Unable to evaluate QC.								
Mg 279.077†	1006867.9	25.61	mg/L	0.572	25.61	mg/L	0.572	2.24%
QC value within limits for Mg 279.077 Recovery = 102.43%								
Mn 257.610†	1297817.3	0.7563	mg/L	0.01538	0.7563	mg/L	0.01538	2.03%
QC value within limits for Mn 257.610 Recovery = 100.85%								
Mo 202.031†	129706.2	2.427	mg/L	0.0759	2.427	mg/L	0.0759	3.13%
QC value within limits for Mo 202.031 Recovery = 97.07%								
Ni 231.604†	308096.1	2.054	mg/L	0.0377	2.054	mg/L	0.0377	1.83%
QC value within limits for Ni 231.604 Recovery = 102.68%								
Na 330.237†	44924.0	24.62	mg/L	0.368	24.62	mg/L	0.368	1.49%
QC value within limits for Na 330.237 Recovery = 98.49%								
Pb 220.353†	13794.2	0.5038	mg/L	0.01158	0.5038	mg/L	0.01158	2.30%
QC value within limits for Pb 220.353 Recovery = 100.77%								
Sb 206.836†	28292.3	4.947	mg/L	0.0375	4.947	mg/L	0.0375	0.76%
QC value within limits for Sb 206.836 Recovery = 98.94%								
Se 196.026†	2922.4	0.5047	mg/L	0.00371	0.5047	mg/L	0.00371	0.73%
QC value within limits for Se 196.026 Recovery = 100.94%								
Sn 189.927†	155722.4	5.126	mg/L	0.1359	5.126	mg/L	0.1359	2.65%
QC value within limits for Sn 189.927 Recovery = 102.51%								
Ti 337.279†	1289545.2	2.524	mg/L	0.0044	2.524	mg/L	0.0044	0.17%
QC value within limits for Ti 337.279 Recovery = 100.95%								
Tl 190.801†	7690.6	1.002	mg/L	0.0159	1.002	mg/L	0.0159	1.58%
QC value within limits for Tl 190.801 Recovery = 100.19%								
V 292.402†	657960.6	2.446	mg/L	0.0736	2.446	mg/L	0.0736	3.01%
QC value within limits for V 292.402 Recovery = 97.85%								
Zn 206.200†	314999.6	1.034	mg/L	0.0216	1.034	mg/L	0.0216	2.09%
QC value within limits for Zn 206.200 Recovery = 103.41%								
Ca 227.546†	14289.6	25.00	mg/L	0.262	25.00	mg/L	0.262	1.05%
QC value within limits for Ca 227.546 Recovery = 100.01%								
Sr 460.733†	678565.5	2.625	mg/L	0.0302	2.625	mg/L	0.0302	1.15%
QC value within limits for Sr 460.733 Recovery = 105.01%								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 75
Autosampler Location: 5

Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 8/13/2010 8:29:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8879204.6	1.017	mg/L	0.0024				0.24%
Ag 328.068†	105.3	0.0003	mg/L	0.00084	0.0003	mg/L	0.00084	293.37%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-646.9	-0.0150	mg/L	0.00031	-0.0150	mg/L	0.00031	2.04%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	26.4	0.0031	mg/L	0.00083	0.0031	mg/L	0.00083	26.78%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-1281.5	-0.0057	mg/L	0.00167	-0.0057	mg/L	0.00167	29.49%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	986.1	0.0027	mg/L	0.00032	0.0027	mg/L	0.00032	11.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	683.6	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	19.01%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	16.3	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	2.03%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	35.6	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	23.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-17.3	-0.0001	mg/L	0.00027	-0.0001	mg/L	0.00027	345.39%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1517.2	0.0032	mg/L	0.00053	0.0032	mg/L	0.00053	16.31%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	2541.7	0.0420	mg/L	0.00058	0.0420	mg/L	0.00058	1.39%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	-29.1						21.14	72.63%
Unable to evaluate QC.								
Mg 279.077†	-215.9	-0.0055	mg/L	0.00108	-0.0055	mg/L	0.00108	19.49%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	452.2	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	7.67%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	30.5	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	11.15%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	26.8	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	28.79%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	-265.3	-0.1453	mg/L	0.02883	-0.1453	mg/L	0.02883	19.84%
QC value within limits for Na 330.237 Recovery = Not calculated								
Pb 220.353†	17.9	0.0006	mg/L	0.00027	0.0006	mg/L	0.00027	41.29%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	5.4	0.0009	mg/L	0.00012	0.0009	mg/L	0.00012	12.31%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.1	0.0000	mg/L	0.00131	0.0000	mg/L	0.00131	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	233.6	0.0077	mg/L	0.00124	0.0077	mg/L	0.00124	16.16%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-88.8	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	79.06%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	10.7	0.0014	mg/L	0.00090	0.0014	mg/L	0.00090	64.21%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	52.5	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	28.83%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	43.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	13.20%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Ca 227.546†	-37.0	-0.0618	mg/L	0.00522	-0.0618	mg/L	0.00522	8.45%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Sr 460.733†	21.7	0.0001	mg/L	0.00030	0.0001	mg/L	0.00030	348.00%
QC value within limits for Sr 460.733 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 76
Sample ID: R1004141-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 8/13/2010 8:35:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004141-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	8105621.9	0.9283	mg/L	0.00283				0.31%
Ag 328.068†	-44.9	-0.0004	mg/L	0.00038				99.95%
Al 308.215†	699.6	0.0019	mg/L	0.00017				9.06%
As 188.979†	-32.0	-0.0031	mg/L	0.00178				57.95%
B 249.772†	20523.2	0.0752	mg/L	0.00022				0.30%
Ba 233.527†	23299.0	0.0638	mg/L	0.00026				0.41%
Be 313.107†	-652.4	0.0000	mg/L	0.00000				5.87%
Cd 226.502†	-85.6	-0.0002	mg/L	0.00015				70.62%
Co 228.616†	103.6	0.0006	mg/L	0.00002				3.61%
Cr 267.716†	141.9	0.0007	mg/L	0.00015				22.21%
Cu 324.752†	1457.8	0.0023	mg/L	0.00000				0.16%
Fe 238.863†	24913.4	0.3986	mg/L	0.00168				0.42%
K 404.721†	312.6						25.50	8.16%
Mg 279.077†	595076.5	15.14	mg/L	0.023				0.15%
Mn 257.610†	180538.0	0.1049	mg/L	0.00000				0.00%
Mo 202.031†	264.7	0.0049	mg/L	0.00027				5.43%
Ni 231.604†	207.3	0.0011	mg/L	0.00003				3.21%
Na 330.237†	17120.6	9.297	mg/L	0.1208				1.30%
Pb 220.353†	14.8	0.0014	mg/L	0.00165				116.36%
Sb 206.836†	-16.7	-0.0031	mg/L	0.00441				144.24%
Se 196.026†	27.3	0.0035	mg/L	0.00203				57.36%
Sn 189.927†	61.0	0.0110	mg/L	0.00079				7.16%
Ti 337.279†	-282.5	-0.0011	mg/L	0.00011				9.68%
Tl 190.801†	9.8	0.0016	mg/L	0.00074				46.73%
V 292.402†	161.6	0.0006	mg/L	0.00010				17.22%
Zn 206.200†	1211.7	0.0027	mg/L	0.00009				3.36%
Ca 227.546†	66792.7	115.6	mg/L	0.02				0.02%
Sr 460.733†	125478.3	0.4830	mg/L	0.00148				0.31%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 77
Sample ID: R1004141-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 85
Date Collected: 8/13/2010 8:39:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004141-004

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	7876511.8	0.9020	mg/L	0.00107				0.12%
Ag 328.068†	140.4	0.0003	mg/L	0.00040				140.29%
Al 308.215†	1196.9	0.0225	mg/L	0.00278				12.36%
As 188.979†	-24.9	-0.0026	mg/L	0.00462				175.18%
B 249.772†	264199.0	1.139	mg/L	0.0104				0.91%
Ba 233.527†	15471.5	0.0426	mg/L	0.00061				1.42%
Be 313.107†	-807.8	-0.0001	mg/L	0.00005				44.20%
Cd 226.502†	-24.9	-0.0001	mg/L	0.00003				52.00%
Co 228.616†	-0.6	0.0000	mg/L	0.00017				413.78%
Cr 267.716†	40.4	0.0003	mg/L	0.00051				176.26%
Cu 324.752†	1466.9	0.0027	mg/L	0.00031				11.53%
Fe 238.863†	9852.1	0.1567	mg/L	0.00229				1.46%
K 404.721†	676.0						18.81	2.78%
Mg 279.077†	651897.2	16.58	mg/L	0.111				0.67%
Mn 257.610†	8900.0	0.0047	mg/L	0.00008				1.65%
Mo 202.031†	498.4	0.0093	mg/L	0.00011				1.14%
Ni 231.604†	34.5	0.0001	mg/L	0.00062				576.96%
Na 330.237†	227389.2	124.6	mg/L	0.93				0.75%
Pb 220.353†	66.7	0.0027	mg/L	0.00143				53.49%
Sb 206.836†	12.2	0.0021	mg/L	0.00135				65.78%
Se 196.026†	23.6	0.0037	mg/L	0.00589				160.66%
Sn 189.927†	54.4	0.0053	mg/L	0.00134				25.00%
Ti 337.279†	-401.9	-0.0011	mg/L	0.00005				4.88%
Tl 190.801†	1.6	0.0004	mg/L	0.00131				318.77%
V 292.402†	424.4	0.0016	mg/L	0.00013				8.45%
Zn 206.200†	2226.8	0.0065	mg/L	0.00019				2.90%

Ca 227.546†	20597.1	35.65	mg/L	0.332	0.93%
Sr 460.733†	443114.0	1.714	mg/L	0.0005	0.03%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 78
Sample ID: R1004141-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 86
Date Collected: 8/13/2010 8:43:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004141-005

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8038233.9	0.9206	mg/L	0.00453				0.49%
Ag 328.068†	110.0	0.0000	mg/L	0.00078				>999.9%
Al 308.215†	755.9	0.0033	mg/L	0.00244				73.15%
As 188.979†	-46.0	-0.0047	mg/L	0.00441				94.15%
B 249.772†	30203.5	0.1173	mg/L	0.00280				2.39%
Ba 233.527†	20688.4	0.0565	mg/L	0.00068				1.20%
Be 313.107†	-931.9	-0.0001	mg/L	0.00002				29.26%
Cd 226.502†	-81.0	-0.0002	mg/L	0.00013				62.86%
Co 228.616†	5.2	-0.0001	mg/L	0.00026				330.50%
Cr 267.716†	35.2	0.0003	mg/L	0.00032				113.72%
Cu 324.752†	1069.1	0.0013	mg/L	0.00034				25.46%
Fe 238.863†	26035.8	0.4159	mg/L	0.01010				2.43%
K 404.721†	449.4				227.76			50.68%
Mg 279.077†	1033284.4	26.28	mg/L	0.029				0.11%
Mn 257.610†	38740.3	0.0218	mg/L	0.00040				1.82%
Mo 202.031†	9.1	0.0001	mg/L	0.00060				555.21%
Ni 231.604†	92.7	0.0003	mg/L	0.00011				37.77%
Na 330.237†	33947.2	18.53	mg/L	0.010				0.05%
Pb 220.353†	-4.3	0.0006	mg/L	0.00081				129.96%
Sb 206.836†	-18.6	-0.0034	mg/L	0.00104				30.54%
Se 196.026†	66.3	0.0103	mg/L	0.00382				37.14%
Sn 189.927†	-103.7	0.0057	mg/L	0.00008				1.37%
Ti 337.279†	-192.0	-0.0010	mg/L	0.00016				15.54%
Tl 190.801†	-10.3	-0.0009	mg/L	0.00114				121.10%
V 292.402†	222.0	0.0008	mg/L	0.00022				26.54%
Zn 206.200†	982.4	0.0016	mg/L	0.00002				1.02%
Ca 227.546†	62007.7	107.3	mg/L	1.57				1.46%
Sr 460.733†	249319.7	0.9624	mg/L	0.00898				0.93%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 79
Sample ID: R1004141-005D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 87
Date Collected: 8/13/2010 8:47:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004141-005D

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8009909.8	0.9173	mg/L	0.00096				0.10%
Ag 328.068†	49.2	-0.0001	mg/L	0.00104				851.66%
Al 308.215†	941.9	0.0077	mg/L	0.00442				57.46%
As 188.979†	-90.2	-0.0098	mg/L	0.00266				26.99%
B 249.772†	28731.8	0.1109	mg/L	0.00376				3.39%
Ba 233.527†	21215.9	0.0580	mg/L	0.00064				1.11%
Be 313.107†	-915.2	-0.0001	mg/L	0.00000				2.33%
Cd 226.502†	-66.2	-0.0002	mg/L	0.00016				95.77%
Co 228.616†	24.1	0.0001	mg/L	0.00017				277.15%
Cr 267.716†	139.7	0.0008	mg/L	0.00001				1.95%
Cu 324.752†	1070.4	0.0013	mg/L	0.00016				12.29%
Fe 238.863†	26796.2	0.4285	mg/L	0.01051				2.45%
K 404.721†	438.9				6.03			1.37%
Mg 279.077†	1027035.3	26.12	mg/L	0.111				0.42%
Mn 257.610†	39120.3	0.0220	mg/L	0.00037				1.67%
Mo 202.031†	21.4	0.0003	mg/L	0.00038				113.08%

Ni 231.604†	25.7	-0.0001	mg/L	0.00034	230.42%
Na 330.237†	33917.6	18.51	mg/L	0.001	0.00%
Pb 220.353†	-14.4	0.0002	mg/L	0.00043	173.97%
Sb 206.836†	5.4	0.0008	mg/L	0.00010	13.33%
Se 196.026†	34.2	0.0048	mg/L	0.00004	0.86%
Sn 189.927†	-59.2	0.0072	mg/L	0.00099	13.71%
Ti 337.279†	-229.3	-0.0011	mg/L	0.00003	2.72%
Tl 190.801†	-20.9	-0.0023	mg/L	0.00087	37.31%
V 292.402†	175.7	0.0007	mg/L	0.00022	33.38%
Zn 206.200†	537.4	0.0001	mg/L	0.00010	68.64%
Ca 227.546†	61897.5	107.1	mg/L	1.69	1.58%
Sr 460.733†	246559.0	0.9517	mg/L	0.00138	0.15%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 80 **Autosampler Location: 88**
Sample ID: R1004141-005S **Date Collected: 8/13/2010 8:51:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004141-005S

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7954625.0	0.9110	mg/L	0.00036				0.04%
Ag 328.068†	19772.3	0.0528	mg/L	0.00004				0.07%
Al 308.215†	91184.5	2.101	mg/L	0.0076				0.36%
As 188.979†	335.4	0.0403	mg/L	0.00061				1.52%
B 249.772†	256646.3	1.094	mg/L	0.0074				0.67%
Ba 233.527†	755675.0	2.098	mg/L	0.0028				0.13%
Be 313.107†	331123.4	0.0505	mg/L	0.00004				0.09%
Cd 226.502†	19493.8	0.0509	mg/L	0.00051				0.99%
Co 228.616†	68272.0	0.5106	mg/L	0.00397				0.78%
Cr 267.716†	46572.6	0.2107	mg/L	0.00236				1.12%
Cu 324.752†	118400.6	0.2499	mg/L	0.00171				0.69%
Fe 238.863†	90859.8	1.486	mg/L	0.0014				0.09%
K 404.721†	4185.6						163.44	3.90%
Mg 279.077†	1095666.5	27.87	mg/L	0.047				0.17%
Mn 257.610†	952968.8	0.5551	mg/L	0.00084				0.15%
Mo 202.031†	28438.3	0.5320	mg/L	0.00697				1.31%
Ni 231.604†	68064.4	0.4534	mg/L	0.00084				0.18%
Na 330.237†	73120.0	40.01	mg/L	0.085				0.21%
Pb 220.353†	14579.6	0.5324	mg/L	0.00655				1.23%
Sb 206.836†	2832.3	0.4951	mg/L	0.00111				0.22%
Se 196.026†	6224.0	1.072	mg/L	0.0001				0.01%
Sn 189.927†	173048.3	5.701	mg/L	0.0392				0.69%
Ti 337.279†	273116.5	0.5339	mg/L	0.00665				1.25%
Tl 190.801†	15291.1	1.991	mg/L	0.0102				0.51%
V 292.402†	140782.0	0.5234	mg/L	0.00278				0.53%
Zn 206.200†	158967.5	0.5208	mg/L	0.00189				0.36%
Ca 227.546†	62130.4	107.6	mg/L	0.86				0.80%
Sr 460.733†	243792.5	0.9410	mg/L	0.00010				0.01%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 81 **Autosampler Location: 89**
Sample ID: R1004141-005A **Date Collected: 8/13/2010 8:56:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004141-005A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7898517.0	0.9046	mg/L	0.00014				0.02%
Ag 328.068†	18945.3	0.0506	mg/L	0.00015				0.30%
Al 308.215†	88403.5	2.036	mg/L	0.0012				0.06%
As 188.979†	317.7	0.0383	mg/L	0.00732				19.12%
B 249.772†	257149.5	1.096	mg/L	0.0046				0.42%
Ba 233.527†	733460.5	2.036	mg/L	0.0022				0.11%

Be 313.107†	321889.9	0.0491	mg/L	0.00000		0.00%
Cd 226.502†	18987.4	0.0496	mg/L	0.00057		1.15%
Co 228.616†	66787.1	0.4995	mg/L	0.00401		0.80%
Cr 267.716†	45716.1	0.2068	mg/L	0.00237		1.14%
Cu 324.752†	117179.8	0.2473	mg/L	0.00132		0.53%
Fe 238.863†	88961.1	1.454	mg/L	0.0010		0.07%
K 404.721†	3906.3				41.79	1.07%
Mg 279.077†	1098047.5	27.93	mg/L	0.008		0.03%
Mn 257.610†	924635.6	0.5386	mg/L	0.00044		0.08%
Mo 202.031†	43.9	0.0008	mg/L	0.00073		88.56%
Ni 231.604†	65457.6	0.4360	mg/L	0.00154		0.35%
Na 330.237†	72163.9	39.48	mg/L	0.127		0.32%
Pb 220.353†	14169.7	0.5175	mg/L	0.01415		2.74%
Sb 206.836†	9.8	0.0015	mg/L	0.00188		124.25%
Se 196.026†	105.5	0.0173	mg/L	0.00249		14.42%
Sn 189.927†	273.4	0.0185	mg/L	0.00173		9.33%
Ti 337.279†	-268.7	-0.0012	mg/L	0.00020		16.86%
Tl 190.801†	15088.7	1.965	mg/L	0.0152		0.78%
V 292.402†	136801.1	0.5086	mg/L	0.00085		0.17%
Zn 206.200†	156195.5	0.5117	mg/L	0.00127		0.25%
Ca 227.546†	62854.0	108.8	mg/L	1.03		0.94%
Sr 460.733†	246742.4	0.9524	mg/L	0.00801		0.84%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 82 **Autosampler Location: 90**
Sample ID: R1004141-005L **Date Collected: 8/13/2010 9:00:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004141-005L

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8484367.2	0.9717	mg/L	0.00884				0.91%
Ag 328.068†	131.6	0.0003	mg/L	0.00014				44.84%
Al 308.215†	-10.1	-0.0030	mg/L	0.00118				39.48%
As 188.979†	-1.3	0.0000	mg/L	0.00008				>999.9%
B 249.772†	4704.4	0.0176	mg/L	0.00100				5.66%
Ba 233.527†	5689.3	0.0156	mg/L	0.00043				2.72%
Be 313.107†	198.3	0.0000	mg/L	0.00002				36.90%
Cd 226.502†	1.0	0.0000	mg/L	0.00003				>999.9%
Co 228.616†	41.5	0.0003	mg/L	0.00015				52.16%
Cr 267.716†	0.3	0.0000	mg/L	0.00010				332.50%
Cu 324.752†	1261.0	0.0025	mg/L	0.00048				19.08%
Fe 238.863†	8259.6	0.1336	mg/L	0.00688				5.14%
K 404.721†	-59.0				125.82			213.11%
Mg 279.077†	210828.9	5.362	mg/L	0.0141				0.26%
Mn 257.610†	8658.0	0.0049	mg/L	0.00023				4.77%
Mo 202.031†	0.0	0.0000	mg/L	0.00007				709.47%
Ni 231.604†	55.9	0.0003	mg/L	0.00002				8.05%
Na 330.237†	6368.7	3.476	mg/L	0.0902				2.60%
Pb 220.353†	30.3	0.0012	mg/L	0.00026				21.03%
Sb 206.836†	1.8	0.0003	mg/L	0.00163				566.92%
Se 196.026†	7.6	0.0011	mg/L	0.00051				46.15%
Sn 189.927†	94.3	0.0049	mg/L	0.00057				11.70%
Ti 337.279†	-191.2	-0.0005	mg/L	0.00003				6.42%
Tl 190.801†	38.1	0.0050	mg/L	0.00092				18.20%
V 292.402†	182.1	0.0007	mg/L	0.00002				3.63%
Zn 206.200†	1337.7	0.0041	mg/L	0.00017				4.09%
Ca 227.546†	11973.9	20.73	mg/L	0.290				1.40%
Sr 460.733†	50668.5	0.1956	mg/L	0.00160				0.82%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 83 **Autosampler Location: 91**
Sample ID: R1004141-006 **Date Collected: 8/13/2010 9:06:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004141-006

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8211167.4	0.9404	mg/L	0.00125				0.13%
Ag 328.068†	61.8	-0.0001	mg/L	0.00010				108.42%
Al 308.215†	196.5	-0.0091	mg/L	0.00163				17.91%
As 188.979†	-53.9	-0.0057	mg/L	0.00383				67.12%
B 249.772†	24068.5	0.0918	mg/L	0.00022				0.24%
Ba 233.527†	20207.4	0.0553	mg/L	0.00019				0.35%
Be 313.107†	-543.7	0.0000	mg/L	0.00001				44.61%
Cd 226.502†	-67.4	-0.0002	mg/L	0.00009				58.40%
Co 228.616†	-4.3	-0.0001	mg/L	0.00006				46.03%
Cr 267.716†	59.5	0.0004	mg/L	0.00069				182.20%
Cu 324.752†	1214.7	0.0016	mg/L	0.00002				1.05%
Fe 238.863†	13813.0	0.2147	mg/L	0.00026				0.12%
K 404.721†	434.2						5.24	1.21%
Mg 279.077†	973300.7	24.76	mg/L	0.071				0.29%
Mn 257.610†	19046.4	0.0103	mg/L	0.00001				0.14%
Mo 202.031†	20.1	0.0003	mg/L	0.00044				143.97%
Ni 231.604†	88.9	0.0003	mg/L	0.00012				42.68%
Na 330.237†	30059.9	16.40	mg/L	0.034				0.21%
Pb 220.353†	45.0	0.0024	mg/L	0.00102				42.36%
Sb 206.836†	-1.6	-0.0004	mg/L	0.00126				288.70%
Se 196.026†	48.6	0.0072	mg/L	0.00035				4.85%
Sn 189.927†	-36.8	0.0075	mg/L	0.00034				4.46%
Ti 337.279†	-250.7	-0.0011	mg/L	0.00001				0.65%
Tl 190.801†	-0.2	0.0003	mg/L	0.00391				>999.9%
V 292.402†	112.7	0.0004	mg/L	0.00003				6.74%
Zn 206.200†	2181.1	0.0056	mg/L	0.00022				3.90%
Ca 227.546†	59746.3	103.4	mg/L	0.08				0.08%
Sr 460.733†	206254.8	0.7958	mg/L	0.00124				0.16%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 84 **Autosampler Location: 92**
Sample ID: R1004141-007 **Date Collected: 8/13/2010 9:10:13 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004141-007

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7984989.9	0.9145	mg/L	0.00120				0.13%
Ag 328.068†	141.0	0.0002	mg/L	0.00015				64.95%
Al 308.215†	118928.2	2.745	mg/L	0.0138				0.50%
As 188.979†	-51.1	-0.0047	mg/L	0.00338				71.07%
B 249.772†	37174.0	0.1438	mg/L	0.00498				3.46%
Ba 233.527†	30387.6	0.0835	mg/L	0.00126				1.51%
Be 313.107†	-429.8	0.0000	mg/L	0.00001				130.47%
Cd 226.502†	-19.6	-0.0002	mg/L	0.00015				91.36%
Co 228.616†	207.4	0.0014	mg/L	0.00023				16.44%
Cr 267.716†	841.5	0.0040	mg/L	0.00008				1.97%
Cu 324.752†	2367.1	0.0043	mg/L	0.00020				4.72%
Fe 238.863†	110504.0	1.811	mg/L	0.0017				0.09%
K 404.721†	746.6						12.22	1.64%
Mg 279.077†	1079697.0	27.46	mg/L	0.019				0.07%
Mn 257.610†	182501.9	0.1056	mg/L	0.00009				0.09%
Mo 202.031†	608.2	0.0114	mg/L	0.00008				0.72%
Ni 231.604†	676.9	0.0042	mg/L	0.00038				9.11%
Na 330.237†	67380.2	36.87	mg/L	0.072				0.20%
Pb 220.353†	73.1	0.0036	mg/L	0.00054				15.09%
Sb 206.836†	21.2	0.0035	mg/L	0.00434				123.72%
Se 196.026†	33.3	0.0050	mg/L	0.00547				109.53%
Sn 189.927†	-34.7	0.0078	mg/L	0.00066				8.49%
Ti 337.279†	8902.2	0.0168	mg/L	0.00047				2.81%
Tl 190.801†	9.7	0.0017	mg/L	0.00236				135.92%
V 292.402†	1911.1	0.0072	mg/L	0.00011				1.49%
Zn 206.200†	2638.1	0.0070	mg/L	0.00021				3.04%
Ca 227.546†	57466.2	99.54	mg/L	1.442				1.45%

Sr 460.733† 335490.2 1.296 mg/L 0.0059 0.46%
Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 85 **Autosampler Location:** 4
Sample ID: CCV **Date Collected:** 8/13/2010 9:14:25 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8381027.8	0.9598	mg/L	0.00795				0.83%
Ag 328.068†	193506.4	0.5191	mg/L	0.00075	0.5191	mg/L	0.00075	0.14%
QC value within limits for Ag 328.068 Recovery = 103.82%								
Al 308.215†	435885.2	10.11	mg/L	0.110	10.11	mg/L	0.110	1.09%
QC value within limits for Al 308.215 Recovery = 101.05%								
As 188.979†	8588.2	1.007	mg/L	0.0032	1.007	mg/L	0.0032	0.32%
QC value within limits for As 188.979 Recovery = 100.67%								
B 249.772†	552411.9	2.372	mg/L	0.0376	2.372	mg/L	0.0376	1.58%
QC value within limits for B 249.772 Recovery = 94.88%								
Ba 233.527†	3510916.6	9.752	mg/L	0.0870	9.752	mg/L	0.0870	0.89%
QC value within limits for Ba 233.527 Recovery = 97.52%								
Be 313.107†	1614945.5	0.2458	mg/L	0.00205	0.2458	mg/L	0.00205	0.84%
QC value within limits for Be 313.107 Recovery = 98.34%								
Cd 226.502†	193489.7	0.5057	mg/L	0.00345	0.5057	mg/L	0.00345	0.68%
QC value within limits for Cd 226.502 Recovery = 101.13%								
Co 228.616†	323229.9	2.418	mg/L	0.0222	2.418	mg/L	0.0222	0.92%
QC value within limits for Co 228.616 Recovery = 96.71%								
Cr 267.716†	112308.6	0.5079	mg/L	0.00202	0.5079	mg/L	0.00202	0.40%
QC value within limits for Cr 267.716 Recovery = 101.58%								
Cu 324.752†	574466.9	1.216	mg/L	0.0120	1.216	mg/L	0.0120	0.98%
QC value within limits for Cu 324.752 Recovery = 97.31%								
Fe 238.863†	309838.7	5.108	mg/L	0.0649	5.108	mg/L	0.0649	1.27%
QC value within limits for Fe 238.863 Recovery = 102.16%								
K 404.721†	4623.4						209.31	4.53%
Unable to evaluate QC.								
Mg 279.077†	1014545.7	25.80	mg/L	0.273	25.80	mg/L	0.273	1.06%
QC value within limits for Mg 279.077 Recovery = 103.21%								
Mn 257.610†	1303286.0	0.7595	mg/L	0.00678	0.7595	mg/L	0.00678	0.89%
QC value within limits for Mn 257.610 Recovery = 101.27%								
Mo 202.031†	130731.8	2.446	mg/L	0.0640	2.446	mg/L	0.0640	2.61%
QC value within limits for Mo 202.031 Recovery = 97.84%								
Ni 231.604†	309671.3	2.064	mg/L	0.0034	2.064	mg/L	0.0034	0.17%
QC value within limits for Ni 231.604 Recovery = 103.21%								
Na 330.237†	45696.9	25.05	mg/L	0.131	25.05	mg/L	0.131	0.52%
QC value within limits for Na 330.237 Recovery = 100.18%								
Pb 220.353†	14159.6	0.5172	mg/L	0.00531	0.5172	mg/L	0.00531	1.03%
QC value within limits for Pb 220.353 Recovery = 103.43%								
Sb 206.836†	28052.0	4.905	mg/L	0.0207	4.905	mg/L	0.0207	0.42%
QC value within limits for Sb 206.836 Recovery = 98.10%								
Se 196.026†	2921.2	0.5045	mg/L	0.00002	0.5045	mg/L	0.00002	0.00%
QC value within limits for Se 196.026 Recovery = 100.90%								
Sn 189.927†	156910.9	5.165	mg/L	0.0827	5.165	mg/L	0.0827	1.60%
QC value within limits for Sn 189.927 Recovery = 103.30%								
Ti 337.279†	1287662.5	2.520	mg/L	0.0348	2.520	mg/L	0.0348	1.38%
QC value within limits for Ti 337.279 Recovery = 100.80%								
Tl 190.801†	7752.2	1.010	mg/L	0.0022	1.010	mg/L	0.0022	0.21%
QC value within limits for Tl 190.801 Recovery = 100.99%								
V 292.402†	662726.7	2.464	mg/L	0.0325	2.464	mg/L	0.0325	1.32%
QC value within limits for V 292.402 Recovery = 98.56%								
Zn 206.200†	316831.8	1.040	mg/L	0.0088	1.040	mg/L	0.0088	0.84%
QC value within limits for Zn 206.200 Recovery = 104.01%								
Ca 227.546†	14408.3	25.21	mg/L	0.123	25.21	mg/L	0.123	0.49%
QC value within limits for Ca 227.546 Recovery = 100.84%								
Sr 460.733†	678941.4	2.627	mg/L	0.0218	2.627	mg/L	0.0218	0.83%
QC value within limits for Sr 460.733 Recovery = 105.06%								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 86
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 8/13/2010 9:18:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8813592.5	1.009	mg/L	0.0052				0.52%
Ag 328.068†	179.9	0.0005	mg/L	0.00048	0.0005	mg/L	0.00048	99.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-616.7	-0.0143	mg/L	0.00213	-0.0143	mg/L	0.00213	14.92%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	13.5	0.0016	mg/L	0.00031	0.0016	mg/L	0.00031	19.34%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-3334.7	-0.0146	mg/L	0.00291	-0.0146	mg/L	0.00291	19.97%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	1654.3	0.0046	mg/L	0.00040	0.0046	mg/L	0.00040	8.80%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	725.5	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	20.66%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	10.3	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	170.84%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	56.4	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	15.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-29.8	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	28.63%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1598.6	0.0034	mg/L	0.00112	0.0034	mg/L	0.00112	32.96%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	3068.0	0.0507	mg/L	0.00339	0.0507	mg/L	0.00339	6.70%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	-229.7						118.03	51.39%
Unable to evaluate QC.								
Mg 279.077†	-195.7	-0.0050	mg/L	0.00062	-0.0050	mg/L	0.00062	12.37%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	365.1	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	27.91%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	35.0	0.0007	mg/L	0.00014	0.0007	mg/L	0.00014	21.87%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	37.5	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.58%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	-71.1	-0.0387	mg/L	0.04640	-0.0387	mg/L	0.04640	119.76%
QC value within limits for Na 330.237 Recovery = Not calculated								
Pb 220.353†	13.8	0.0005	mg/L	0.00055	0.0005	mg/L	0.00055	110.03%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.4	0.0001	mg/L	0.00060	0.0001	mg/L	0.00060	982.39%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-9.8	-0.0017	mg/L	0.00068	-0.0017	mg/L	0.00068	40.83%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	251.7	0.0083	mg/L	0.00158	0.0083	mg/L	0.00158	19.05%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-41.5	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	186.85%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	7.2	0.0009	mg/L	0.00056	0.0009	mg/L	0.00056	60.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	51.2	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	8.44%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	66.0	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.51%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Ca 227.546†	-53.4	-0.0897	mg/L	0.01735	-0.0897	mg/L	0.01735	19.34%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Sr 460.733†	16.0	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	369.59%
QC value within limits for Sr 460.733 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 87
Sample ID: MRL
Analyst:
Initial Sample Wt:

Autosampler Location: 6
Date Collected: 8/13/2010 9:24:28 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Calib Std.Dev.	Sample Conc.	Units	Sample Std.Dev.	RSD
Y 371.029	8694069.0	0.9957	mg/L	0.00185				0.19%
Ag 328.068†	4022.6	0.0108	mg/L	0.00011	0.0108	mg/L	0.00011	1.04%
QC value within limits for Ag 328.068 Recovery = 107.94%								
Al 308.215†	8146.8	0.1888	mg/L	0.00357	0.1888	mg/L	0.00357	1.89%
QC value within limits for Al 308.215 Recovery = 94.40%								
As 188.979†	188.7	0.0221	mg/L	0.00006	0.0221	mg/L	0.00006	0.29%
QC value within limits for As 188.979 Recovery = 110.72%								
B 249.772†	37993.5	0.1639	mg/L	0.00199	0.1639	mg/L	0.00199	1.22%
QC value within limits for B 249.772 Recovery = 81.95%								
Ba 233.527†	74495.2	0.2069	mg/L	0.00073	0.2069	mg/L	0.00073	0.35%
QC value within limits for Ba 233.527 Recovery = 103.45%								
Be 313.107†	31410.5	0.0048	mg/L	0.00001	0.0048	mg/L	0.00001	0.17%
QC value within limits for Be 313.107 Recovery = 95.64%								
Cd 226.502†	3809.2	0.0099	mg/L	0.00007	0.0099	mg/L	0.00007	0.74%
QC value within limits for Cd 226.502 Recovery = 99.50%								
Co 228.616†	6763.2	0.0506	mg/L	0.00011	0.0506	mg/L	0.00011	0.21%
QC value within limits for Co 228.616 Recovery = 101.18%								
Cr 267.716†	2193.7	0.0099	mg/L	0.00011	0.0099	mg/L	0.00011	1.14%
QC value within limits for Cr 267.716 Recovery = 99.27%								
Cu 324.752†	11617.8	0.0246	mg/L	0.00025	0.0246	mg/L	0.00025	1.02%
QC value within limits for Cu 324.752 Recovery = 98.39%								
Fe 238.863†	9649.1	0.1591	mg/L	0.00095	0.1591	mg/L	0.00095	0.60%
QC value greater than the upper limit for Fe 238.863 Recovery = 159.06%								
K 404.721†	8.8						56.06	639.75%
Unable to evaluate QC.								
Mg 279.077†	41139.2	1.046	mg/L	0.0005	1.046	mg/L	0.0005	0.05%
QC value within limits for Mg 279.077 Recovery = 104.63%								
Mn 257.610†	26187.3	0.0152	mg/L	0.00012	0.0152	mg/L	0.00012	0.78%
QC value within limits for Mn 257.610 Recovery = 101.63%								
Mo 202.031†	1326.6	0.0248	mg/L	0.00001	0.0248	mg/L	0.00001	0.04%
QC value within limits for Mo 202.031 Recovery = 99.30%								
Ni 231.604†	6096.9	0.0406	mg/L	0.00000	0.0406	mg/L	0.00000	0.00%
QC value within limits for Ni 231.604 Recovery = 101.59%								
Na 330.237†	1610.4	0.8826	mg/L	0.03510	0.8826	mg/L	0.03510	3.98%
QC value within limits for Na 330.237 Recovery = 88.26%								
Pb 220.353†	301.0	0.0110	mg/L	0.00066	0.0110	mg/L	0.00066	6.03%
QC value within limits for Pb 220.353 Recovery = 109.88%								
Sb 206.836†	327.2	0.0572	mg/L	0.00062	0.0572	mg/L	0.00062	1.09%
QC value within limits for Sb 206.836 Recovery = 95.35%								
Se 196.026†	62.0	0.0107	mg/L	0.00016	0.0107	mg/L	0.00016	1.50%
QC value within limits for Se 196.026 Recovery = 107.24%								
Sn 189.927†	16279.5	0.5356	mg/L	0.00161	0.5356	mg/L	0.00161	0.30%
QC value within limits for Sn 189.927 Recovery = 107.11%								
Ti 337.279†	24681.4	0.0483	mg/L	0.00088	0.0483	mg/L	0.00088	1.81%
QC value within limits for Ti 337.279 Recovery = 96.59%								
Tl 190.801†	152.9	0.0199	mg/L	0.00142	0.0199	mg/L	0.00142	7.15%
QC value within limits for Tl 190.801 Recovery = 99.62%								
V 292.402†	13080.7	0.0486	mg/L	0.00008	0.0486	mg/L	0.00008	0.17%
QC value within limits for V 292.402 Recovery = 97.28%								
Zn 206.200†	6134.9	0.0201	mg/L	0.00006	0.0201	mg/L	0.00006	0.29%
QC value within limits for Zn 206.200 Recovery = 100.59%								
Ca 227.546†	457.9	0.8009	mg/L	0.02027	0.8009	mg/L	0.02027	2.53%
QC value within limits for Ca 227.546 Recovery = 80.09%								
Sr 460.733†	25784.0	0.0998	mg/L	0.00092	0.0998	mg/L	0.00092	0.93%
QC value within limits for Sr 460.733 Recovery = 99.75%								

QC Failed. Continue with analysis.

Sequence No.: 88 Autosampler Location: 7
Sample ID: ICSA Date Collected: 8/13/2010 9:30:11 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7695587.7	0.8813	mg/L	0.00272				0.31%
Ag 328.068†	-1888.9	-0.0001	mg/L	0.00068	-0.0001	mg/L	0.00068	667.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	10728717.2	248.8	mg/L	0.72	248.8	mg/L	0.72	0.29%
QC value within limits for Al 308.215 Recovery = 99.52%								
As 188.979†	-284.0	0.0058	mg/L	0.00232	0.0058	mg/L	0.00232	40.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	79971.7	-0.0001	mg/L	0.00678	-0.0001	mg/L	0.00678	>999.9%
Ba 233.527†	3783.2	0.0031	mg/L	0.00026	0.0031	mg/L	0.00026	8.44%
Be 313.107†	-1777.0	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	10.50%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	2774.3	-0.0005	mg/L	0.00004	-0.0005	mg/L	0.00004	7.67%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	279.4	0.0000	mg/L	0.00027	0.0000	mg/L	0.00027	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-1373.2	-0.0011	mg/L	0.00052	-0.0011	mg/L	0.00052	46.01%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-6242.9	-0.0033	mg/L	0.00044	-0.0033	mg/L	0.00044	13.58%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	5763088.5	95.06	mg/L	0.312	95.06	mg/L	0.312	0.33%
QC value within limits for Fe 238.863 Recovery = 95.06%								
K 404.721†	-418.4						3.28	0.78%
Mg 279.077†	9661234.5	245.7	mg/L	0.83	245.7	mg/L	0.83	0.34%
QC value within limits for Mg 279.077 Recovery = 98.27%								
Mn 257.610†	-195.6	-0.0074	mg/L	0.00012	-0.0074	mg/L	0.00012	1.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-355.4	-0.0003	mg/L	0.00116	-0.0003	mg/L	0.00116	359.92%
Ni 231.604†	35.8	-0.0010	mg/L	0.00010	-0.0010	mg/L	0.00010	9.63%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	141.3	0.0434	mg/L	0.04061	0.0434	mg/L	0.04061	93.53%
Pb 220.353†	-645.5	0.0005	mg/L	0.00058	0.0005	mg/L	0.00058	108.67%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	7.3	-0.0022	mg/L	0.00339	-0.0022	mg/L	0.00339	153.10%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-79.2	0.0021	mg/L	0.00733	0.0021	mg/L	0.00733	353.11%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-47.2	0.0496	mg/L	0.00055	0.0496	mg/L	0.00055	1.12%
Ti 337.279†	250.4	-0.0033	mg/L	0.00006	-0.0033	mg/L	0.00006	1.91%
Tl 190.801†	-22.0	0.0046	mg/L	0.00188	0.0046	mg/L	0.00188	41.42%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-2648.3	-0.0011	mg/L	0.00000	-0.0011	mg/L	0.00000	0.24%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	1049.9	-0.0115	mg/L	0.00014	-0.0115	mg/L	0.00014	1.20%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Ca 227.546†	143931.4	254.3	mg/L	1.41	254.3	mg/L	1.41	0.56%
QC value within limits for Ca 227.546 Recovery = 101.72%								
Sr 460.733†	1811.1	0.0021	mg/L	0.00032	0.0021	mg/L	0.00032	15.47%

All analyte(s) passed QC.

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Sequence No.: 89 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 8/13/2010 9:34:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7612600.9	0.8718	mg/L	0.00058				0.07%
Ag 328.068†	79037.0	0.2170	mg/L	0.00035	0.2170	mg/L	0.00035	0.16%
QC value within limits for Ag 328.068 Recovery = 108.49%								
Al 308.215†	10863764.0	251.9	mg/L	0.42	251.9	mg/L	0.42	0.17%
QC value within limits for Al 308.215 Recovery = 100.77%								
As 188.979†	544.5	0.1033	mg/L	0.00167	0.1033	mg/L	0.00167	1.62%
QC value within limits for As 188.979 Recovery = 103.27%								
B 249.772†	79628.8	-0.0067	mg/L	0.00300	-0.0067	mg/L	0.00300	45.08%
Ba 233.527†	192788.6	0.5280	mg/L	0.00077	0.5280	mg/L	0.00077	0.15%
QC value within limits for Ba 233.527 Recovery = 105.60%								

Be 313.107†	3357329.8	0.5113 mg/L	0.00118	0.5113 mg/L	0.00118	0.23%
QC value within limits for Be 313.107 Recovery = 102.26%						
Cd 226.502†	391250.2	1.015 mg/L	0.0007	1.015 mg/L	0.0007	0.07%
QC value within limits for Cd 226.502 Recovery = 101.55%						
Co 228.616†	66643.7	0.4964 mg/L	0.00421	0.4964 mg/L	0.00421	0.85%
QC value within limits for Co 228.616 Recovery = 99.29%						
Cr 267.716†	112238.7	0.5124 mg/L	0.00074	0.5124 mg/L	0.00074	0.14%
QC value within limits for Cr 267.716 Recovery = 102.48%						
Cu 324.752†	237187.9	0.5122 mg/L	0.00150	0.5122 mg/L	0.00150	0.29%
QC value within limits for Cu 324.752 Recovery = 102.44%						
Fe 238.863†	5851463.9	96.52 mg/L	0.231	96.52 mg/L	0.231	0.24%
QC value within limits for Fe 238.863 Recovery = 96.52%						
K 404.721†	-282.6				10.85	3.84%
Mg 279.077†	9818974.4	249.7 mg/L	0.63	249.7 mg/L	0.63	0.25%
QC value within limits for Mg 279.077 Recovery = 99.87%						
Mn 257.610†	891123.4	0.5124 mg/L	0.00093	0.5124 mg/L	0.00093	0.18%
QC value within limits for Mn 257.610 Recovery = 102.49%						
Mo 202.031†	-401.0	-0.0011 mg/L	0.00045	-0.0011 mg/L	0.00045	41.51%
Ni 231.604†	150748.5	1.004 mg/L	0.0011	1.004 mg/L	0.0011	0.11%
QC value within limits for Ni 231.604 Recovery = 100.36%						
Na 330.237†	-759.0	-0.4496 mg/L	0.09800	-0.4496 mg/L	0.09800	21.80%
Pb 220.353†	759.3	0.0520 mg/L	0.00327	0.0520 mg/L	0.00327	6.29%
QC value within limits for Pb 220.353 Recovery = 104.06%						
Sb 206.836†	3703.7	0.6441 mg/L	0.00724	0.6441 mg/L	0.00724	1.12%
QC value within limits for Sb 206.836 Recovery = 107.35%						
Se 196.026†	235.1	0.0565 mg/L	0.00468	0.0565 mg/L	0.00468	8.27%
QC value within limits for Se 196.026 Recovery = 113.09%						
Sn 189.927†	-98.6	0.0486 mg/L	0.00058	0.0486 mg/L	0.00058	1.20%
Ti 337.279†	217.2	-0.0034 mg/L	0.00009	-0.0034 mg/L	0.00009	2.53%
Tl 190.801†	725.2	0.1019 mg/L	0.00026	0.1019 mg/L	0.00026	0.25%
QC value within limits for Tl 190.801 Recovery = 101.95%						
V 292.402†	132886.1	0.5028 mg/L	0.00099	0.5028 mg/L	0.00099	0.20%
QC value within limits for V 292.402 Recovery = 100.57%						
Zn 206.200†	315067.4	1.020 mg/L	0.0006	1.020 mg/L	0.0006	0.06%
QC value within limits for Zn 206.200 Recovery = 102.05%						
Ca 227.546†	145444.8	257.0 mg/L	0.45	257.0 mg/L	0.45	0.18%
QC value within limits for Ca 227.546 Recovery = 102.80%						
Sr 460.733†	1922.7	0.0025 mg/L	0.00022	0.0025 mg/L	0.00022	8.85%

All analyte(s) passed QC.

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Sequence No.: 90 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 8/13/2010 9:38:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8187153.0	0.9376	mg/L	0.00410				0.44%
Ag 328.068†	194947.6	0.5230	mg/L	0.00291	0.5230	mg/L	0.00291	0.56%
QC value within limits for Ag 328.068 Recovery = 104.60%								
Al 308.215†	441449.8	10.23	mg/L	0.008	10.23	mg/L	0.008	0.08%
QC value within limits for Al 308.215 Recovery = 102.34%								
As 188.979†	8808.1	1.032	mg/L	0.0062	1.032	mg/L	0.0062	0.60%
QC value within limits for As 188.979 Recovery = 103.24%								
B 249.772†	561484.3	2.411	mg/L	0.0058	2.411	mg/L	0.0058	0.24%
QC value within limits for B 249.772 Recovery = 96.44%								
Ba 233.527†	3551469.2	9.864	mg/L	0.0009	9.864	mg/L	0.0009	0.01%
QC value within limits for Ba 233.527 Recovery = 98.64%								
Be 313.107†	1639226.1	0.2495	mg/L	0.00080	0.2495	mg/L	0.00080	0.32%
QC value within limits for Be 313.107 Recovery = 99.81%								
Cd 226.502†	195725.7	0.5115	mg/L	0.00067	0.5115	mg/L	0.00067	0.13%
QC value within limits for Cd 226.502 Recovery = 102.30%								
Co 228.616†	327024.6	2.446	mg/L	0.0008	2.446	mg/L	0.0008	0.03%
QC value within limits for Co 228.616 Recovery = 97.85%								
Cr 267.716†	114750.3	0.5190	mg/L	0.00241	0.5190	mg/L	0.00241	0.46%
QC value within limits for Cr 267.716 Recovery = 103.79%								
Cu 324.752†	583937.8	1.236	mg/L	0.0019	1.236	mg/L	0.0019	0.16%
QC value within limits for Cu 324.752 Recovery = 98.91%								

Fe 238.863†	315378.7	5.200 mg/L	0.0078	5.200 mg/L	0.0078	0.15%
QC value within limits for Fe 238.863 Recovery = 103.99%						
K 404.721†	4446.8				31.90	0.72%
Unable to evaluate QC.						
Mg 279.077†	1026834.9	26.11 mg/L	0.024	26.11 mg/L	0.024	0.09%
QC value within limits for Mg 279.077 Recovery = 104.46%						
Mn 257.610†	1318246.9	0.7683 mg/L	0.00004	0.7683 mg/L	0.00004	0.00%
QC value within limits for Mn 257.610 Recovery = 102.43%						
Mo 202.031†	132971.7	2.488 mg/L	0.0105	2.488 mg/L	0.0105	0.42%
QC value within limits for Mo 202.031 Recovery = 99.51%						
Ni 231.604†	312116.8	2.080 mg/L	0.0098	2.080 mg/L	0.0098	0.47%
QC value within limits for Ni 231.604 Recovery = 104.02%						
Na 330.237†	46238.1	25.34 mg/L	0.232	25.34 mg/L	0.232	0.91%
QC value within limits for Na 330.237 Recovery = 101.37%						
Pb 220.353†	14289.0	0.5219 mg/L	0.00556	0.5219 mg/L	0.00556	1.06%
QC value within limits for Pb 220.353 Recovery = 104.38%						
Sb 206.836†	28937.2	5.060 mg/L	0.0071	5.060 mg/L	0.0071	0.14%
QC value within limits for Sb 206.836 Recovery = 101.20%						
Se 196.026†	2983.4	0.5153 mg/L	0.00579	0.5153 mg/L	0.00579	1.12%
QC value within limits for Se 196.026 Recovery = 103.05%						
Sn 189.927†	157767.2	5.193 mg/L	0.0076	5.193 mg/L	0.0076	0.15%
QC value within limits for Sn 189.927 Recovery = 103.86%						
Ti 337.279†	1293772.7	2.532 mg/L	0.0180	2.532 mg/L	0.0180	0.71%
QC value within limits for Ti 337.279 Recovery = 101.28%						
Tl 190.801†	7873.5	1.026 mg/L	0.0061	1.026 mg/L	0.0061	0.60%
QC value within limits for Tl 190.801 Recovery = 102.57%						
V 292.402†	671810.0	2.498 mg/L	0.0137	2.498 mg/L	0.0137	0.55%
QC value within limits for V 292.402 Recovery = 99.91%						
Zn 206.200†	320893.6	1.053 mg/L	0.0013	1.053 mg/L	0.0013	0.12%
QC value within limits for Zn 206.200 Recovery = 105.35%						
Ca 227.546†	14556.6	25.47 mg/L	0.205	25.47 mg/L	0.205	0.80%
QC value within limits for Ca 227.546 Recovery = 101.89%						
Sr 460.733†	685202.5	2.651 mg/L	0.0034	2.651 mg/L	0.0034	0.13%
QC value within limits for Sr 460.733 Recovery = 106.03%						

All analyte(s) passed QC. One or more analytes were not evaluated.

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Sequence No.: 91 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 8/13/2010 9:43:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8699060.6	0.9962	mg/L	0.00154				0.16%
Ag 328.068†	60.0	0.0002	mg/L	0.00039	0.0002	mg/L	0.00039	236.15%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-346.1	-0.0080	mg/L	0.00440	-0.0080	mg/L	0.00440	54.87%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-0.2	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-2802.1	-0.0123	mg/L	0.00221	-0.0123	mg/L	0.00221	17.93%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	1905.5	0.0053	mg/L	0.00035	0.0053	mg/L	0.00035	6.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	586.1	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	48.41%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	55.8	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	35.01%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	51.3	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	22.06%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-2.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	157.91%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1728.0	0.0037	mg/L	0.00117	0.0037	mg/L	0.00117	31.95%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	3712.7	0.0613	mg/L	0.00174	0.0613	mg/L	0.00174	2.84%
QC value within limits for Fe 238.863 Recovery = Not calculated								
K 404.721†	-169.4						40.44	23.87%
Unable to evaluate QC.								

Mg 279.077†	-164.7	-0.0042 mg/L	0.00284	-0.0042 mg/L	0.00284	67.13%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	395.4	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	23.89%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	29.5	0.0006 mg/L	0.00017	0.0006 mg/L	0.00017	30.75%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	47.3	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.69%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Na 330.237†	-20.6	-0.0111 mg/L	0.01522	-0.0111 mg/L	0.01522	137.70%
QC value within limits for Na 330.237 Recovery = Not calculated						
Pb 220.353†	22.8	0.0008 mg/L	0.00009	0.0008 mg/L	0.00009	11.31%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	10.5	0.0018 mg/L	0.00062	0.0018 mg/L	0.00062	33.87%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.6	-0.0003 mg/L	0.00025	-0.0003 mg/L	0.00025	99.24%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	270.2	0.0089 mg/L	0.00209	0.0089 mg/L	0.00209	23.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-190.6	-0.0004 mg/L	0.00003	-0.0004 mg/L	0.00003	9.15%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	8.4	0.0011 mg/L	0.00102	0.0011 mg/L	0.00102	92.44%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	120.9	0.0005 mg/L	0.00024	0.0005 mg/L	0.00024	52.03%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	87.4	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	24.94%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	-46.1	-0.0765 mg/L	0.03281	-0.0765 mg/L	0.03281	42.90%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Sr 460.733†	10.9	0.0000 mg/L	0.00021	0.0000 mg/L	0.00021	473.50%
QC value within limits for Sr 460.733 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

End run here

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Sequence No.: 92
Sample ID: PBW-117222
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 93
Date Collected: 8/13/2010 9:48:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: PBW-117222

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8832381.7	1.012	mg/L	0.0152				1.50%
Ag 328.068†	-151.4	-0.0004	mg/L	0.00028				68.41%
Al 308.215†	-527.6	-0.0122	mg/L	0.00289				23.62%
As 188.979†	-6.0	-0.0007	mg/L	0.00070				102.83%
B 249.772†	-4371.8	-0.0191	mg/L	0.00173				9.05%
Ba 233.527†	795.4	0.0022	mg/L	0.00029				12.91%
Be 313.107†	324.8	0.0000	mg/L	0.00003				53.86%
Cd 226.502†	0.9	0.0000	mg/L	0.00000				84.10%
Co 228.616†	2.0	0.0000	mg/L	0.00010				679.86%
Cr 267.716†	68.4	0.0003	mg/L	0.00003				8.37%
Cu 324.752†	246.5	0.0005	mg/L	0.00025				47.22%
Fe 238.863†	3061.2	0.0506	mg/L	0.00931				18.42%
K 404.721†	-130.2				140.16			107.65%
Mg 279.077†	-236.1	-0.0060	mg/L	0.00037				6.20%
Mn 257.610†	-80.9	0.0000	mg/L	0.00002				36.90%
Mo 202.031†	8.9	0.0002	mg/L	0.00014				81.37%
Ni 231.604†	7.8	0.0001	mg/L	0.00008				158.30%
Na 330.237†	61.8	0.0341	mg/L	0.00322				9.43%
Pb 220.353†	15.4	0.0006	mg/L	0.00038				67.93%
Sb 206.836†	1.5	0.0003	mg/L	0.00036				137.44%
Se 196.026†	-1.9	-0.0003	mg/L	0.00213				696.96%
Sn 189.927†	106.0	0.0035	mg/L	0.00096				27.46%
Ti 337.279†	-56.0	-0.0001	mg/L	0.00003				26.16%
Tl 190.801†	6.3	0.0008	mg/L	0.00008				10.33%
V 292.402†	62.6	0.0002	mg/L	0.00001				2.61%
Zn 206.200†	667.3	0.0022	mg/L	0.00004				1.85%
Ca 227.546†	-50.8	-0.0853	mg/L	0.01974				23.13%
Sr 460.733†	-65.1	-0.0003	mg/L	0.00032				128.77%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 93
Sample ID: LCSW-117222
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 94
Date Collected: 8/13/2010 9:54:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: LCSW-117222

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	8454253.7	0.9682	mg/L	0.00107				0.11%
Ag 328.068†	19058.6	0.0512	mg/L	0.00025				0.49%
Al 308.215†	88360.3	2.049	mg/L	0.0055				0.27%
As 188.979†	374.0	0.0442	mg/L	0.00107				2.43%
B 249.772†	208732.4	0.9001	mg/L	0.00598				0.66%
Ba 233.527†	716719.0	1.991	mg/L	0.0021				0.11%
Be 313.107†	314057.3	0.0478	mg/L	0.00002				0.05%
Cd 226.502†	19580.0	0.0511	mg/L	0.00008				0.17%
Co 228.616†	69086.7	0.5168	mg/L	0.00179				0.35%
Cr 267.716†	44429.9	0.2008	mg/L	0.00009				0.04%
Cu 324.752†	124372.8	0.2634	mg/L	0.00026				0.10%
Fe 238.863†	66821.9	1.103	mg/L	0.0020				0.18%
K 404.721†	3320.8						156.64	4.72%
Mg 279.077†	81762.0	2.079	mg/L	0.0004				0.02%
Mn 257.610†	860743.7	0.5021	mg/L	0.00024				0.05%
Mo 202.031†	27264.2	0.5101	mg/L	0.01047				2.05%
Ni 231.604†	68718.0	0.4581	mg/L	0.00079				0.17%
Na 330.237†	36078.6	19.78	mg/L	0.081				0.41%
Pb 220.353†	14564.2	0.5311	mg/L	0.01056				1.99%
Sb 206.836†	2655.2	0.4643	mg/L	0.00496				1.07%
Se 196.026†	5914.9	1.020	mg/L	0.0019				0.19%
Sn 189.927†	168597.4	5.545	mg/L	0.0275				0.50%
Ti 337.279†	260584.5	0.5100	mg/L	0.00792				1.55%
Tl 190.801†	15196.8	1.979	mg/L	0.0116				0.59%
V 292.402†	131576.6	0.4892	mg/L	0.00361				0.74%
Zn 206.200†	161770.4	0.5316	mg/L	0.00011				0.02%
Ca 227.546†	1056.5	1.888	mg/L	0.0465				2.46%
Sr 460.733†	145.3	0.0005	mg/L	0.00027				51.17%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 94
Sample ID: R1004144-001
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 95
Date Collected: 8/13/2010 9:58:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004144-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6965297.6	0.7977	mg/L	0.00462				0.58%
Ag 328.068†	143.3	0.0010	mg/L	0.00060				59.86%
Al 308.215†	2601.0	0.0289	mg/L	0.00128				4.43%
As 188.979†	341.2	0.0489	mg/L	0.00052				1.07%
B 249.772†	198533.3	0.7778	mg/L	0.00765				0.98%
Ba 233.527†	101673.6	0.2795	mg/L	0.00056				0.20%
Be 313.107†	-2508.2	-0.0002	mg/L	0.00005				20.58%
Cd 226.502†	451.8	-0.0003	mg/L	0.00011				33.05%
Co 228.616†	-23.4	-0.0009	mg/L	0.00000				0.09%
Cr 267.716†	-171.8	0.0001	mg/L	0.00007				116.19%
Cu 324.752†	575.0	0.0027	mg/L	0.00029				10.93%
Fe 238.863†	1163886.7	19.19	mg/L	0.155				0.81%
K 404.721†	10348.1						130.26	1.26%
Mg 279.077†	1787793.9	45.46	mg/L	0.274				0.60%
Mn 257.610†	1399025.7	0.8147	mg/L	0.00373				0.46%
Mo 202.031†	5.8	0.0007	mg/L	0.00061				85.02%
Ni 231.604†	199.1	0.0006	mg/L	0.00015				24.48%
Na 330.237†	3286080.1	1802	mg/L	0.5				0.03%
Pb 220.353†	79.8	0.0034	mg/L	0.00005				1.32%

Sb 206.836†	-11.8	-0.0026	mg/L	0.00323	126.49%
Se 196.026†	24.9	0.0071	mg/L	0.00206	29.17%
Sn 189.927†	-35.4	0.0212	mg/L	0.00151	7.09%
Ti 337.279†	-412.9	-0.0022	mg/L	0.00029	13.28%
Tl 190.801†	-25.0	-0.0017	mg/L	0.00044	26.62%
V 292.402†	-143.5	0.0012	mg/L	0.00006	5.53%
Zn 206.200†	1041.0	0.0000	mg/L	0.00017	421.52%
Ca 227.546†	140382.9	243.9	mg/L	1.55	0.64%
Sr 460.733†	1439549.3	5.565	mg/L	0.0015	0.03%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 95
Sample ID: R1004144-001D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 96
Date Collected: 8/13/2010 10:03:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004144-001D

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6642828.8	0.7608	mg/L	0.00242				0.32%
Ag 328.068†	40.2	0.0007	mg/L	0.00074				99.86%
Al 308.215†	2725.3	0.0311	mg/L	0.00352				11.33%
As 188.979†	364.7	0.0518	mg/L	0.00575				11.08%
B 249.772†	201013.9	0.7865	mg/L	0.00631				0.80%
Ba 233.527†	104244.8	0.2866	mg/L	0.00026				0.09%
Be 313.107†	-2936.4	-0.0003	mg/L	0.00003				8.70%
Cd 226.502†	512.4	-0.0002	mg/L	0.00017				79.40%
Co 228.616†	-64.3	-0.0012	mg/L	0.00004				3.47%
Cr 267.716†	31.7	0.0010	mg/L	0.00044				43.55%
Cu 324.752†	1296.1	0.0043	mg/L	0.00028				6.47%
Fe 238.863†	1194822.9	19.70	mg/L	0.012				0.06%
K 404.721†	10869.6						169.76	1.56%
Mg 279.077†	1830713.5	46.55	mg/L	0.052				0.11%
Mn 257.610†	1423619.6	0.8290	mg/L	0.00011				0.01%
Mo 202.031†	22.5	0.0010	mg/L	0.00033				31.44%
Ni 231.604†	178.3	0.0004	mg/L	0.00038				84.46%
Na 330.237†	3417590.4	1874	mg/L	1.8				0.10%
Pb 220.353†	47.9	0.0023	mg/L	0.00217				95.97%
Sb 206.836†	-6.9	-0.0017	mg/L	0.00100				58.53%
Se 196.026†	38.5	0.0095	mg/L	0.00815				85.88%
Sn 189.927†	-112.7	0.0192	mg/L	0.00109				5.70%
Ti 337.279†	-855.2	-0.0031	mg/L	0.00021				6.65%
Tl 190.801†	-39.6	-0.0035	mg/L	0.00056				15.74%
V 292.402†	-174.6	0.0011	mg/L	0.00031				27.95%
Zn 206.200†	1438.2	0.0012	mg/L	0.00014				11.49%
Ca 227.546†	143418.5	249.2	mg/L	0.16				0.07%
Sr 460.733†	1506372.6	5.823	mg/L	0.0555				0.95%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 96
Sample ID: R1004144-001S
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 8/13/2010 10:07:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004144-001S

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6960073.9	0.7971	mg/L	0.00873				1.09%
Ag 328.068†	17876.9	0.0485	mg/L	0.00042				0.87%
Al 308.215†	74943.8	1.712	mg/L	0.0110				0.65%
As 188.979†	664.2	0.0857	mg/L	0.00272				3.18%
B 249.772†	362580.2	1.497	mg/L	0.0150				1.00%
Ba 233.527†	684899.8	1.900	mg/L	0.0055				0.29%
Be 313.107†	271173.9	0.0414	mg/L	0.00002				0.06%
Cd 226.502†	17498.0	0.0444	mg/L	0.00010				0.23%
Co 228.616†	57416.3	0.4289	mg/L	0.00095				0.22%

Cr 267.716†	37683.9	0.1711	mg/L	0.00059		0.35%
Cu 324.752†	108714.2	0.2315	mg/L	0.00034		0.15%
Fe 238.863†	1049005.2	17.30	mg/L	0.117		0.68%
K 404.721†	13194.1				18.60	0.14%
Mg 279.077†	1604123.4	40.79	mg/L	0.227		0.56%
Mn 257.610†	1915811.2	1.116	mg/L	0.0020		0.18%
Mo 202.031†	23552.8	0.4412	mg/L	0.00158		0.36%
Ni 231.604†	58367.8	0.3885	mg/L	0.00041		0.10%
Na 330.237†	2918853.1	1600	mg/L	13.0		0.81%
Pb 220.353†	12382.4	0.4520	mg/L	0.00372		0.82%
Sb 206.836†	2501.9	0.4371	mg/L	0.00733		1.68%
Se 196.026†	5632.2	0.9738	mg/L	0.00696		0.71%
Sn 189.927†	138194.0	4.564	mg/L	0.0624		1.37%
Ti 337.279†	220688.1	0.4308	mg/L	0.00634		1.47%
Tl 190.801†	12743.9	1.661	mg/L	0.0032		0.19%
V 292.402†	116129.9	0.4332	mg/L	0.00342		0.79%
Zn 206.200†	143960.3	0.4701	mg/L	0.00260		0.55%
Ca 227.546†	118705.1	206.3	mg/L	0.80		0.39%
Sr 460.733†	1268935.2	4.905	mg/L	0.0951		1.94%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 97 **Autosampler Location: 98**
Sample ID: R1004144-001A **Date Collected: 8/13/2010 10:11:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004144-001A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	6389192.0	0.7317	mg/L	0.00423				0.58%
Ag 328.068†	19773.0	0.0537	mg/L	0.00037				0.69%
Al 308.215†	86762.9	1.982	mg/L	0.0030				0.15%
As 188.979†	768.3	0.0989	mg/L	0.00535				5.41%
B 249.772†	407040.3	1.680	mg/L	0.0025				0.15%
Ba 233.527†	782489.6	2.171	mg/L	0.0057				0.26%
Be 313.107†	308569.2	0.0471	mg/L	0.00034				0.72%
Cd 226.502†	19634.6	0.0498	mg/L	0.00072				1.45%
Co 228.616†	64880.3	0.4847	mg/L	0.00551				1.14%
Cr 267.716†	42823.4	0.1944	mg/L	0.00254				1.31%
Cu 324.752†	124976.4	0.2661	mg/L	0.00069				0.26%
Fe 238.863†	1188277.4	19.59	mg/L	0.031				0.16%
K 404.721†	15438.5						192.84	1.25%
Mg 279.077†	1803091.2	45.85	mg/L	0.083				0.18%
Mn 257.610†	2163410.4	1.261	mg/L	0.0044				0.35%
Mo 202.031†	27322.9	0.5118	mg/L	0.00411				0.80%
Ni 231.604†	66982.8	0.4458	mg/L	0.00122				0.27%
Na 330.237†	3373950.5	1850	mg/L	6.0				0.33%
Pb 220.353†	13883.5	0.5068	mg/L	0.00837				1.65%
Sb 206.836†	2893.6	0.5055	mg/L	0.01404				2.78%
Se 196.026†	6777.3	1.172	mg/L	0.0192				1.64%
Sn 189.927†	166427.4	5.495	mg/L	0.0085				0.15%
Ti 337.279†	258851.6	0.5053	mg/L	0.00182				0.36%
Tl 190.801†	14021.3	1.827	mg/L	0.0374				2.05%
V 292.402†	134125.4	0.5003	mg/L	0.00086				0.17%
Zn 206.200†	166730.8	0.5446	mg/L	0.00061				0.11%
Ca 227.546†	134789.7	234.3	mg/L	0.10				0.04%
Sr 460.733†	1484579.1	5.739	mg/L	0.0031				0.05%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 98 **Autosampler Location: 99**
Sample ID: R1004144-001L **Date Collected: 8/13/2010 10:16:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004144-001L

	Mean Corrected	Calib			Sample			

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	6802324.2	0.7790	mg/L	0.00200				0.26%
Ag 328.068†	395.0	0.0012	mg/L	0.00027				22.56%
Al 308.215†	742.3	0.0109	mg/L	0.00005				0.49%
As 188.979†	99.8	0.0136	mg/L	0.00441				32.45%
B 249.772†	38958.1	0.1515	mg/L	0.00159				1.05%
Ba 233.527†	22716.6	0.0625	mg/L	0.00008				0.12%
Be 313.107†	-2385.0	-0.0003	mg/L	0.00004				12.57%
Cd 226.502†	95.3	-0.0001	mg/L	0.00013				170.66%
Co 228.616†	-0.2	-0.0001	mg/L	0.00060				413.53%
Cr 267.716†	-69.4	-0.0001	mg/L	0.00036				274.17%
Cu 324.752†	605.3	0.0016	mg/L	0.00010				6.20%
Fe 238.863†	249817.5	4.120	mg/L	0.0158				0.38%
K 404.721†	2123.0						378.68	17.84%
Mg 279.077†	372615.0	9.475	mg/L	0.0607				0.64%
Mn 257.610†	277021.0	0.1613	mg/L	0.00060				0.37%
Mo 202.031†	-60.6	-0.0010	mg/L	0.00034				34.36%
Ni 231.604†	32.2	0.0001	mg/L	0.00002				22.42%
Na 330.237†	684994.2	375.6	mg/L	1.41				0.37%
Pb 220.353†	62.3	0.0024	mg/L	0.00030				12.56%
Sb 206.836†	22.0	0.0037	mg/L	0.00102				27.20%
Se 196.026†	78.8	0.0142	mg/L	0.00032				2.25%
Sn 189.927†	767.2	0.0298	mg/L	0.00180				6.03%
Ti 337.279†	-1538.3	-0.0033	mg/L	0.00012				3.61%
Tl 190.801†	11.0	0.0018	mg/L	0.00557				315.38%
V 292.402†	349.0	0.0017	mg/L	0.00028				16.55%
Zn 206.200†	1392.2	0.0039	mg/L	0.00022				5.65%
Ca 227.546†	28177.3	48.97	mg/L	0.564				1.15%
Sr 460.733†	342394.2	1.324	mg/L	0.0031				0.23%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 99
Sample ID: R1004144-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 8/13/2010 10:20:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004144-002

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6888164.0	0.7889	mg/L	0.00073				0.09%
Ag 328.068†	576.7	0.0019	mg/L	0.00033				17.37%
Al 308.215†	10038.9	0.2201	mg/L	0.00323				1.47%
As 188.979†	55.3	0.0107	mg/L	0.00380				35.63%
B 249.772†	54110.9	0.1974	mg/L	0.00023				0.12%
Ba 233.527†	276304.7	0.7662	mg/L	0.00244				0.32%
Be 313.107†	-2088.7	-0.0003	mg/L	0.00001				4.28%
Cd 226.502†	249.9	-0.0001	mg/L	0.00011				134.02%
Co 228.616†	-125.8	-0.0012	mg/L	0.00007				5.33%
Cr 267.716†	-53.7	0.0003	mg/L	0.00021				75.42%
Cu 324.752†	3549.9	0.0081	mg/L	0.00026				3.17%
Fe 238.863†	552502.8	9.110	mg/L	0.0157				0.17%
K 404.721†	4042.8						136.22	3.37%
Mg 279.077†	1340403.3	34.09	mg/L	0.031				0.09%
Mn 257.610†	606975.6	0.3530	mg/L	0.00075				0.21%
Mo 202.031†	-95.0	-0.0015	mg/L	0.00004				2.84%
Ni 231.604†	541.2	0.0033	mg/L	0.00033				9.95%
Na 330.237†	549162.7	301.1	mg/L	0.98				0.33%
Pb 220.353†	25.6	0.0010	mg/L	0.00029				30.29%
Sb 206.836†	8.4	0.0012	mg/L	0.00105				85.39%
Se 196.026†	71.7	0.0139	mg/L	0.00021				1.49%
Sn 189.927†	352.4	0.0212	mg/L	0.00062				2.93%
Ti 337.279†	397.0	0.0001	mg/L	0.00017				242.75%
Tl 190.801†	12.2	0.0024	mg/L	0.00100				41.53%
V 292.402†	228.7	0.0017	mg/L	0.00027				16.05%
Zn 206.200†	1825.1	0.0041	mg/L	0.00009				2.20%
Ca 227.546†	51099.1	88.90	mg/L	0.173				0.19%
Sr 460.733†	241351.0	0.9319	mg/L	0.00779				0.84%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 100
Sample ID: R1004293-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 8/13/2010 10:24:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004293-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6688482.4	0.7660	mg/L	0.00201				0.26%
Ag 328.068†	896.5	0.0012	mg/L	0.00060				50.92%
Al 308.215†	3866.3	0.0288	mg/L	0.00092				3.18%
As 188.979†	9.1	0.0033	mg/L	0.00351				105.72%
B 249.772†	5486.3	-0.0306	mg/L	0.00045				1.47%
Ba 233.527†	33317.1	0.0885	mg/L	0.00027				0.30%
Be 313.107†	-3649.1	-0.0003	mg/L	0.00003				9.89%
Cd 226.502†	-43.5	0.0001	mg/L	0.00006				55.82%
Co 228.616†	-32.7	-0.0008	mg/L	0.00048				58.28%
Cr 267.716†	10.4	-0.0004	mg/L	0.00020				50.20%
Cu 324.752†	10317.6	0.0191	mg/L	0.00034				1.80%
Fe 238.863†	21266.6	0.3037	mg/L	0.00252				0.83%
K 404.721†	846.4						143.08	16.90%
Mg 279.077†	157494.9	4.007	mg/L	0.0171				0.43%
Mn 257.610†	11367.9	0.0066	mg/L	0.00002				0.25%
Mo 202.031†	-39.3	-0.0011	mg/L	0.00078				70.96%
Ni 231.604†	58.0	-0.0009	mg/L	0.00042				45.19%
Na 330.237†	589377.8	322.7	mg/L	1.48				0.46%
Pb 220.353†	-63.7	0.0020	mg/L	0.00077				39.17%
Sb 206.836†	-14.7	-0.0031	mg/L	0.00338				109.93%
Se 196.026†	102.3	0.0121	mg/L	0.00293				24.23%
Sn 189.927†	-49.2	0.0353	mg/L	0.00005				0.15%
Ti 337.279†	-1979.1	-0.0057	mg/L	0.00014				2.52%
Tl 190.801†	2.8	0.0012	mg/L	0.00565				483.11%
V 292.402†	989.4	0.0035	mg/L	0.00006				1.70%
Zn 206.200†	4367.2	0.0109	mg/L	0.00028				2.55%
Ca 227.546†	307331.5	531.8	mg/L	3.00				0.56%
Sr 460.733†	147362.1	0.5585	mg/L	0.00222				0.40%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 101
Sample ID: R1004293-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 8/13/2010 10:28:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004293-002

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6758371.0	0.7740	mg/L	0.00040				0.05%
Ag 328.068†	806.9	0.0010	mg/L	0.00014				14.17%
Al 308.215†	2889.1	0.0080	mg/L	0.00025				3.16%
As 188.979†	9.7	0.0033	mg/L	0.00396				119.68%
B 249.772†	5719.6	-0.0278	mg/L	0.00117				4.20%
Ba 233.527†	39546.8	0.1060	mg/L	0.00028				0.27%
Be 313.107†	-3327.3	-0.0002	mg/L	0.00001				2.29%
Cd 226.502†	-60.0	0.0001	mg/L	0.00018				332.20%
Co 228.616†	-36.4	-0.0008	mg/L	0.00020				23.66%
Cr 267.716†	51.7	-0.0002	mg/L	0.00003				14.12%
Cu 324.752†	9653.9	0.0178	mg/L	0.00005				0.25%
Fe 238.863†	19044.1	0.2685	mg/L	0.00149				0.55%
K 404.721†	1010.1						29.31	2.90%
Mg 279.077†	158525.3	4.033	mg/L	0.0078				0.19%
Mn 257.610†	9913.4	0.0057	mg/L	0.00000				0.08%
Mo 202.031†	12.9	-0.0001	mg/L	0.00012				117.35%
Ni 231.604†	52.9	-0.0009	mg/L	0.00014				14.76%
Na 330.237†	575392.6	315.1	mg/L	0.64				0.20%
Pb 220.353†	-58.7	0.0020	mg/L	0.00253				125.04%
Sb 206.836†	3.9	0.0002	mg/L	0.00027				139.08%

Se 196.026†	72.6	0.0071 mg/L	0.00181		25.29%
Sn 189.927†	-59.7	0.0337 mg/L	0.00193		5.72%
Ti 337.279†	-1781.3	-0.0053 mg/L	0.00001		0.15%
Tl 190.801†	8.6	0.0019 mg/L	0.00019		10.00%
V 292.402†	842.1	0.0030 mg/L	0.00015		5.09%
Zn 206.200†	7684.6	0.0219 mg/L	0.00003		0.12%
Ca 227.546†	297532.7	514.9 mg/L	1.19		0.23%
Sr 460.733†	144852.8	0.5492 mg/L	0.00294		0.54%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 102 **Autosampler Location:** 4
Sample ID: CCV **Date Collected:** 8/13/2010 10:33:04 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7226539.8	0.8276	mg/L	0.00776				0.94%
Ag 328.068†	198049.4	0.5313	mg/L	0.00943	0.5313	mg/L	0.00943	1.77%
QC value within limits for Ag 328.068 Recovery = 106.26%								
Al 308.215†	468601.6	10.86	mg/L	0.181	10.86	mg/L	0.181	1.67%
QC value within limits for Al 308.215 Recovery = 108.64%								
As 188.979†	8868.4	1.040	mg/L	0.0075	1.040	mg/L	0.0075	0.72%
QC value within limits for As 188.979 Recovery = 103.95%								
B 249.772†	546202.5	2.344	mg/L	0.0340	2.344	mg/L	0.0340	1.45%
QC value within limits for B 249.772 Recovery = 93.76%								
Ba 233.527†	3572384.4	9.922	mg/L	0.1673	9.922	mg/L	0.1673	1.69%
QC value within limits for Ba 233.527 Recovery = 99.22%								
Be 313.107†	1584185.7	0.2412	mg/L	0.00483	0.2412	mg/L	0.00483	2.00%
QC value within limits for Be 313.107 Recovery = 96.46%								
Cd 226.502†	195933.6	0.5120	mg/L	0.00592	0.5120	mg/L	0.00592	1.16%
QC value within limits for Cd 226.502 Recovery = 102.40%								
Co 228.616†	325421.0	2.434	mg/L	0.0439	2.434	mg/L	0.0439	1.80%
QC value within limits for Co 228.616 Recovery = 97.37%								
Cr 267.716†	114143.6	0.5162	mg/L	0.00760	0.5162	mg/L	0.00760	1.47%
QC value within limits for Cr 267.716 Recovery = 103.25%								
Cu 324.752†	571667.3	1.210	mg/L	0.0183	1.210	mg/L	0.0183	1.51%
QC value within limits for Cu 324.752 Recovery = 96.84%								
Fe 238.863†	326742.8	5.387	mg/L	0.1034	5.387	mg/L	0.1034	1.92%
QC value within limits for Fe 238.863 Recovery = 107.74%								
K 404.721†	5406.5						15.41	0.29%
Unable to evaluate QC.								
Mg 279.077†	1047539.4	26.64	mg/L	0.480	26.64	mg/L	0.480	1.80%
QC value within limits for Mg 279.077 Recovery = 106.56%								
Mn 257.610†	1306976.8	0.7617	mg/L	0.01342	0.7617	mg/L	0.01342	1.76%
QC value within limits for Mn 257.610 Recovery = 101.55%								
Mo 202.031†	133976.5	2.507	mg/L	0.0369	2.507	mg/L	0.0369	1.47%
QC value within limits for Mo 202.031 Recovery = 100.27%								
Ni 231.604†	314564.4	2.097	mg/L	0.0431	2.097	mg/L	0.0431	2.06%
QC value within limits for Ni 231.604 Recovery = 104.84%								
Na 330.237†	55034.6	30.16	mg/L	0.398	30.16	mg/L	0.398	1.32%
QC value greater than the upper limit for Na 330.237 Recovery = 120.66%								
Pb 220.353†	14448.0	0.5277	mg/L	0.00334	0.5277	mg/L	0.00334	0.63%
QC value within limits for Pb 220.353 Recovery = 105.55%								
Sb 206.836†	29044.3	5.079	mg/L	0.0255	5.079	mg/L	0.0255	0.50%
QC value within limits for Sb 206.836 Recovery = 101.57%								
Se 196.026†	3104.3	0.5361	mg/L	0.00026	0.5361	mg/L	0.00026	0.05%
QC value within limits for Se 196.026 Recovery = 107.22%								
Sn 189.927†	162373.1	5.345	mg/L	0.0925	5.345	mg/L	0.0925	1.73%
QC value within limits for Sn 189.927 Recovery = 106.89%								
Ti 337.279†	1305975.8	2.556	mg/L	0.0602	2.556	mg/L	0.0602	2.36%
QC value within limits for Ti 337.279 Recovery = 102.24%								
Tl 190.801†	7806.3	1.017	mg/L	0.0026	1.017	mg/L	0.0026	0.25%
QC value within limits for Tl 190.801 Recovery = 101.70%								
V 292.402†	679973.3	2.528	mg/L	0.0479	2.528	mg/L	0.0479	1.89%
QC value within limits for V 292.402 Recovery = 101.13%								
Zn 206.200†	326001.4	1.070	mg/L	0.0197	1.070	mg/L	0.0197	1.84%
QC value within limits for Zn 206.200 Recovery = 107.02%								

Ca 227.546† 15067.8 26.37 mg/L 0.396 26.37 mg/L 0.396 1.50%
QC value within limits for Ca 227.546 Recovery = 105.47%
Sr 460.733† 856292.3 3.313 mg/L 0.0454 3.313 mg/L 0.0454 1.37%
QC value greater than the upper limit for Sr 460.733 Recovery = 132.51%
QC Failed. Continue with analysis.

Sequence No.: 103 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 8/13/2010 10:37:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	7847842.4	0.8988	mg/L	0.00404				0.45%
Ag 328.068†	215.6	0.0006	mg/L	0.00019	0.0006	mg/L	0.00019	31.42%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-817.5	-0.0189	mg/L	0.00060	-0.0189	mg/L	0.00060	3.16%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	36.8	0.0044	mg/L	0.00049	0.0044	mg/L	0.00049	11.25%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-1935.9	-0.0089	mg/L	0.00127	-0.0089	mg/L	0.00127	14.35%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	3404.9	0.0095	mg/L	0.00005	0.0095	mg/L	0.00005	0.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-362.2	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	51.38%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	82.3	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	46.46%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	8.6	0.0001	mg/L	0.00038	0.0001	mg/L	0.00038	616.74%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-14.2	-0.0001	mg/L	0.00020	-0.0001	mg/L	0.00020	359.19%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1580.0	0.0034	mg/L	0.00014	0.0034	mg/L	0.00014	4.25%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	11749.1	0.1941	mg/L	0.00247	0.1941	mg/L	0.00247	1.27%
QC value greater than the upper limit for Fe 238.863 Recovery = Not calculated								
K 404.721†	-29.4						56.88	193.46%
Unable to evaluate QC.								
Mg 279.077†	-898.7	-0.0230	mg/L	0.00253	-0.0230	mg/L	0.00253	11.02%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	748.5	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.40%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-54.8	-0.0010	mg/L	0.00035	-0.0010	mg/L	0.00035	34.53%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-3.4	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	597.30%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	748.9	0.4116	mg/L	0.03944	0.4116	mg/L	0.03944	9.58%
QC value within limits for Na 330.237 Recovery = Not calculated								
Pb 220.353†	64.3	0.0023	mg/L	0.00119	0.0023	mg/L	0.00119	51.20%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	7.7	0.0013	mg/L	0.00266	0.0013	mg/L	0.00266	197.87%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	25.4	0.0044	mg/L	0.00041	0.0044	mg/L	0.00041	9.27%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	453.1	0.0149	mg/L	0.00137	0.0149	mg/L	0.00137	9.23%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-948.0	-0.0019	mg/L	0.00001	-0.0019	mg/L	0.00001	0.37%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	-0.1	0.0000	mg/L	0.00200	0.0000	mg/L	0.00200	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	312.1	0.0012	mg/L	0.00025	0.0012	mg/L	0.00025	20.97%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-1.1	0.0000	mg/L	0.00029	0.0000	mg/L	0.00029	>999.9%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Ca 227.546†	-344.6	-0.5861	mg/L	0.07637	-0.5861	mg/L	0.07637	13.03%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Sr 460.733†	167.6	0.0007	mg/L	0.00013	0.0007	mg/L	0.00013	19.70%
QC value within limits for Sr 460.733 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 104
Sample ID: R1004296-001
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 103
Date Collected: 8/13/2010 10:41:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004296-001

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	7586756.9	0.8689	mg/L	0.00016				0.02%
Ag 328.068†	571.3	0.0015	mg/L	0.00096				62.62%
Al 308.215†	22443.0	0.5182	mg/L	0.00259				0.50%
As 188.979†	8.1	0.0013	mg/L	0.00064				47.74%
B 249.772†	663.6	-0.0015	mg/L	0.00084				56.13%
Ba 233.527†	10518.2	0.0290	mg/L	0.00023				0.79%
Be 313.107†	-807.4	-0.0001	mg/L	0.00002				16.17%
Cd 226.502†	-3.6	-0.0001	mg/L	0.00011				165.35%
Co 228.616†	21.3	0.0001	mg/L	0.00035				279.34%
Cr 267.716†	195.3	0.0009	mg/L	0.00021				22.49%
Cu 324.752†	3161.6	0.0067	mg/L	0.00009				1.30%
Fe 238.863†	48223.5	0.7940	mg/L	0.00252				0.32%
K 404.721†	204.3						133.00	65.09%
Mg 279.077†	167436.6	4.258	mg/L	0.0094				0.22%
Mn 257.610†	151399.0	0.0882	mg/L	0.00037				0.42%
Mo 202.031†	-52.9	-0.0010	mg/L	0.00020				20.83%
Ni 231.604†	74.5	0.0004	mg/L	0.00013				29.76%
Na 330.237†	25893.7	14.19	mg/L	0.043				0.30%
Pb 220.353†	88.2	0.0034	mg/L	0.00069				20.60%
Sb 206.836†	25.0	0.0043	mg/L	0.00275				63.61%
Se 196.026†	39.2	0.0068	mg/L	0.00139				20.60%
Sn 189.927†	175.6	0.0074	mg/L	0.00014				1.84%
Ti 337.279†	3845.1	0.0074	mg/L	0.00013				1.81%
Tl 190.801†	23.2	0.0031	mg/L	0.00209				67.05%
V 292.402†	556.7	0.0021	mg/L	0.00042				19.79%
Zn 206.200†	3376.3	0.0108	mg/L	0.00005				0.47%
Ca 227.546†	10231.1	17.75	mg/L	0.022				0.13%
Sr 460.733†	21279.2	0.0819	mg/L	0.00053				0.65%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 105
Sample ID: R1004296-001D
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 104
Date Collected: 8/13/2010 10:45:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004296-001D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	7476383.7	0.8562	mg/L	0.01136				1.33%
Ag 328.068†	326.7	0.0009	mg/L	0.00008				9.13%
Al 308.215†	23534.6	0.5435	mg/L	0.00560				1.03%
As 188.979†	25.5	0.0034	mg/L	0.00064				18.90%
B 249.772†	175.7	-0.0037	mg/L	0.00004				1.15%
Ba 233.527†	9487.6	0.0262	mg/L	0.00006				0.24%
Be 313.107†	-964.5	-0.0001	mg/L	0.00000				1.31%
Cd 226.502†	44.3	0.0001	mg/L	0.00017				323.28%
Co 228.616†	-100.7	-0.0008	mg/L	0.00026				32.71%
Cr 267.716†	276.8	0.0013	mg/L	0.00009				7.06%
Cu 324.752†	3453.9	0.0073	mg/L	0.00037				5.12%
Fe 238.863†	50584.0	0.8329	mg/L	0.00487				0.59%
K 404.721†	226.0						22.95	10.15%
Mg 279.077†	169742.1	4.317	mg/L	0.0037				0.09%
Mn 257.610†	155047.4	0.0903	mg/L	0.00005				0.05%
Mo 202.031†	-80.2	-0.0015	mg/L	0.00115				77.78%
Ni 231.604†	107.3	0.0007	mg/L	0.00035				53.16%
Na 330.237†	26254.4	14.38	mg/L	0.023				0.16%

Pb 220.353†	71.6	0.0028	mg/L	0.00126	45.93%
Sb 206.836†	20.5	0.0036	mg/L	0.00332	93.29%
Se 196.026†	44.2	0.0076	mg/L	0.00203	26.67%
Sn 189.927†	137.7	0.0062	mg/L	0.00206	33.48%
Ti 337.279†	4466.1	0.0086	mg/L	0.00000	0.02%
Tl 190.801†	-28.9	-0.0037	mg/L	0.00029	7.89%
V 292.402†	596.7	0.0023	mg/L	0.00016	7.17%
Zn 206.200†	3012.3	0.0096	mg/L	0.00001	0.07%
Ca 227.546†	10316.9	17.90	mg/L	0.065	0.37%
Sr 460.733†	21255.7	0.0819	mg/L	0.00057	0.70%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 106 **Autosampler Location: 105**
Sample ID: R1004296-001S **Date Collected: 8/13/2010 10:50:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004296-001S

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7254593.7	0.8308	mg/L	0.00353				0.42%
Ag 328.068†	20114.2	0.0540	mg/L	0.00012				0.22%
Al 308.215†	116472.2	2.699	mg/L	0.0016				0.06%
As 188.979†	468.0	0.0556	mg/L	0.00144				2.58%
B 249.772†	223161.4	0.9580	mg/L	0.00999				1.04%
Ba 233.527†	751098.9	2.086	mg/L	0.0038				0.18%
Be 313.107†	322072.2	0.0490	mg/L	0.00017				0.35%
Cd 226.502†	20531.5	0.0535	mg/L	0.00007				0.14%
Co 228.616†	72585.1	0.5429	mg/L	0.00389				0.72%
Cr 267.716†	47463.8	0.2146	mg/L	0.00101				0.47%
Cu 324.752†	126684.9	0.2683	mg/L	0.00122				0.46%
Fe 238.863†	116343.3	1.918	mg/L	0.0056				0.29%
K 404.721†	4523.4						46.07	1.02%
Mg 279.077†	255207.1	6.490	mg/L	0.0274				0.42%
Mn 257.610†	1059391.5	0.6178	mg/L	0.00163				0.26%
Mo 202.031†	29588.4	0.5536	mg/L	0.00140				0.25%
Ni 231.604†	71905.9	0.4793	mg/L	0.00392				0.82%
Na 330.237†	70972.0	38.90	mg/L	0.028				0.07%
Pb 220.353†	15572.0	0.5680	mg/L	0.00369				0.65%
Sb 206.836†	2931.6	0.5126	mg/L	0.00861				1.68%
Se 196.026†	6408.8	1.105	mg/L	0.0066				0.60%
Sn 189.927†	184028.6	6.054	mg/L	0.0207				0.34%
Ti 337.279†	271895.8	0.5321	mg/L	0.00198				0.37%
Tl 190.801†	15787.3	2.056	mg/L	0.0186				0.90%
V 292.402†	141321.7	0.5255	mg/L	0.00375				0.71%
Zn 206.200†	168876.1	0.5547	mg/L	0.00208				0.38%
Ca 227.546†	11669.1	20.30	mg/L	0.099				0.49%
Sr 460.733†	20641.3	0.0794	mg/L	0.00032				0.40%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

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Sequence No.: 107 **Autosampler Location: 106**
Sample ID: R1004296-001A **Date Collected: 8/13/2010 10:54:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004296-001A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7301824.4	0.8362	mg/L	0.00208				0.25%
Ag 328.068†	19556.2	0.0525	mg/L	0.00012				0.22%
Al 308.215†	118509.4	2.746	mg/L	0.0028				0.10%
As 188.979†	413.3	0.0492	mg/L	0.00272				5.53%
B 249.772†	224067.8	0.9622	mg/L	0.00153				0.16%
Ba 233.527†	734323.0	2.039	mg/L	0.0011				0.05%
Be 313.107†	314677.6	0.0479	mg/L	0.00020				0.42%
Cd 226.502†	19885.7	0.0519	mg/L	0.00016				0.32%

Co 228.616†	70380.4	0.5264	mg/L	0.00192		0.36%
Cr 267.716†	45887.6	0.2075	mg/L	0.00062		0.30%
Cu 324.752†	124479.7	0.2636	mg/L	0.00003		0.01%
Fe 238.863†	113296.2	1.868	mg/L	0.0119		0.64%
K 404.721†	4329.5				200.22	4.62%
Mg 279.077†	248694.5	6.324	mg/L	0.0199		0.31%
Mn 257.610†	1032422.8	0.6021	mg/L	0.00076		0.13%
Mo 202.031†	28080.6	0.5254	mg/L	0.00200		0.38%
Ni 231.604†	70179.7	0.4677	mg/L	0.00052		0.11%
Na 330.237†	68889.2	37.76	mg/L	0.119		0.32%
Pb 220.353†	14753.9	0.5382	mg/L	0.00457		0.85%
Sb 206.836†	2905.8	0.5081	mg/L	0.00856		1.68%
Se 196.026†	6584.4	1.136	mg/L	0.0084		0.74%
Sn 189.927†	181222.9	5.962	mg/L	0.0310		0.52%
Ti 337.279†	268428.5	0.5253	mg/L	0.00841		1.60%
Tl 190.801†	15367.3	2.001	mg/L	0.0097		0.49%
V 292.402†	138168.3	0.5138	mg/L	0.00431		0.84%
Zn 206.200†	167024.4	0.5486	mg/L	0.00058		0.11%
Ca 227.546†	11286.2	19.63	mg/L	0.065		0.33%
Sr 460.733†	20210.7	0.0778	mg/L	0.00048		0.62%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 108 **Autosampler Location: 107**
Sample ID: R1004296-001L **Date Collected: 8/13/2010 10:58:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004296-001L

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7774734.8	0.8904	mg/L	0.00049				0.05%
Ag 328.068†	217.9	0.0006	mg/L	0.00047				78.88%
Al 308.215†	4052.2	0.0936	mg/L	0.00264				2.82%
As 188.979†	43.6	0.0052	mg/L	0.00000				0.03%
B 249.772†	-1123.3	-0.0061	mg/L	0.00099				16.21%
Ba 233.527†	3985.9	0.0110	mg/L	0.00008				0.69%
Be 313.107†	-457.0	-0.0001	mg/L	0.00001				11.14%
Cd 226.502†	83.9	0.0002	mg/L	0.00001				2.58%
Co 228.616†	-79.0	-0.0006	mg/L	0.00054				90.03%
Cr 267.716†	-4.5	0.0000	mg/L	0.00030				>999.9%
Cu 324.752†	436.1	0.0009	mg/L	0.00012				13.06%
Fe 238.863†	19101.5	0.3150	mg/L	0.00365				1.16%
K 404.721†	9.4				281.56			>999.9%
Mg 279.077†	32904.4	0.8367	mg/L	0.00891				1.06%
Mn 257.610†	30845.9	0.0180	mg/L	0.00021				1.17%
Mo 202.031†	-94.0	-0.0017	mg/L	0.00004				2.57%
Ni 231.604†	-33.9	-0.0002	mg/L	0.00063				265.52%
Na 330.237†	5636.6	3.089	mg/L	0.0922				2.99%
Pb 220.353†	-30.3	-0.0011	mg/L	0.00030				27.52%
Sb 206.836†	-5.3	-0.0009	mg/L	0.00176				186.82%
Se 196.026†	42.5	0.0074	mg/L	0.00304				41.21%
Sn 189.927†	462.2	0.0155	mg/L	0.00131				8.44%
Ti 337.279†	52.0	0.0001	mg/L	0.00021				260.84%
Tl 190.801†	33.6	0.0044	mg/L	0.00182				41.36%
V 292.402†	376.4	0.0014	mg/L	0.00004				2.95%
Zn 206.200†	1912.7	0.0062	mg/L	0.00007				1.13%
Ca 227.546†	1770.8	3.081	mg/L	0.2388				7.75%
Sr 460.733†	4538.2	0.0175	mg/L	0.00023				1.29%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 109 **Autosampler Location: 108**
Sample ID: R1004296-002 **Date Collected: 8/13/2010 11:02:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004296-002

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7547723.5	0.8644	mg/L	0.00329				0.38%
Ag 328.068†	318.6	0.0008	mg/L	0.00036				43.79%
Al 308.215†	395.5	0.0064	mg/L	0.00012				1.91%
As 188.979†	0.6	0.0003	mg/L	0.00618				>999.9%
B 249.772†	1967.1	0.0053	mg/L	0.00052				9.76%
Ba 233.527†	20392.2	0.0565	mg/L	0.00007				0.12%
Be 313.107†	-932.1	-0.0001	mg/L	0.00000				2.96%
Cd 226.502†	-23.5	-0.0001	mg/L	0.00007				86.49%
Co 228.616†	-11.8	-0.0001	mg/L	0.00016				141.37%
Cr 267.716†	-22.3	-0.0001	mg/L	0.00010				131.68%
Cu 324.752†	1212.4	0.0024	mg/L	0.00010				3.96%
Fe 238.863†	17308.9	0.2833	mg/L	0.00162				0.57%
K 404.721†	153.3						207.41	135.26%
Mg 279.077†	163698.3	4.164	mg/L	0.0199				0.48%
Mn 257.610†	2396.2	0.0013	mg/L	0.00007				5.66%
Mo 202.031†	-49.1	-0.0009	mg/L	0.00057				61.39%
Ni 231.604†	65.4	0.0004	mg/L	0.00005				14.14%
Na 330.237†	29873.6	16.36	mg/L	0.203				1.24%
Pb 220.353†	40.5	0.0016	mg/L	0.00045				27.66%
Sb 206.836†	2.8	0.0004	mg/L	0.00195				434.17%
Se 196.026†	42.6	0.0072	mg/L	0.00870				121.02%
Sn 189.927†	164.0	0.0072	mg/L	0.00021				2.96%
Ti 337.279†	-1026.3	-0.0021	mg/L	0.00005				2.40%
Tl 190.801†	9.7	0.0013	mg/L	0.00195				146.18%
V 292.402†	371.4	0.0014	mg/L	0.00029				20.49%
Zn 206.200†	6490.8	0.0210	mg/L	0.00031				1.49%
Ca 227.546†	12233.7	21.18	mg/L	0.117				0.55%
Sr 460.733†	21608.3	0.0831	mg/L	0.00002				0.03%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 110 **Autosampler Location: 109**
Sample ID: R1004296-005 **Date Collected: 8/13/2010 11:07:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004296-005

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6711299.2	0.7686	mg/L	0.00188				0.24%
Ag 328.068†	822.2	0.0014	mg/L	0.00007				5.06%
Al 308.215†	3365.6	0.0384	mg/L	0.00218				5.68%
As 188.979†	-20.2	-0.0008	mg/L	0.00400				471.38%
B 249.772†	6066.0	-0.0095	mg/L	0.00116				12.22%
Ba 233.527†	18030.3	0.0475	mg/L	0.00067				1.41%
Be 313.107†	-3200.5	-0.0003	mg/L	0.00001				4.42%
Cd 226.502†	0.2	0.0001	mg/L	0.00006				47.13%
Co 228.616†	1.6	-0.0004	mg/L	0.00008				20.58%
Cr 267.716†	129.2	0.0003	mg/L	0.00068				225.12%
Cu 324.752†	14343.3	0.0286	mg/L	0.00032				1.13%
Fe 238.863†	19940.4	0.2983	mg/L	0.00001				0.00%
K 404.721†	712.4						61.42	8.62%
Mg 279.077†	124688.1	3.172	mg/L	0.0024				0.08%
Mn 257.610†	9508.5	0.0055	mg/L	0.00002				0.39%
Mo 202.031†	-12.9	-0.0005	mg/L	0.00129				273.69%
Ni 231.604†	97.2	-0.0002	mg/L	0.00006				28.57%
Na 330.237†	391843.9	214.6	mg/L	0.31				0.14%
Pb 220.353†	-24.7	0.0019	mg/L	0.00281				148.60%
Sb 206.836†	15.0	0.0023	mg/L	0.00111				48.52%
Se 196.026†	87.5	0.0115	mg/L	0.00305				26.51%
Sn 189.927†	-89.5	0.0211	mg/L	0.00163				7.73%
Ti 337.279†	-1781.7	-0.0047	mg/L	0.00014				2.96%
Tl 190.801†	-17.7	-0.0018	mg/L	0.00294				166.14%
V 292.402†	1002.3	0.0036	mg/L	0.00031				8.65%
Zn 206.200†	4292.2	0.0118	mg/L	0.00030				2.50%
Ca 227.546†	200169.3	346.4	mg/L	0.12				0.04%
Sr 460.733†	99171.1	0.3761	mg/L	0.00027				0.07%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 111
Sample ID: R1004296-006
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 8/13/2010 11:11:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004296-006

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6964869.2	0.7976	mg/L	0.00585				0.73%
Ag 328.068†	519.0	0.0006	mg/L	0.00026				43.17%
Al 308.215†	2309.9	0.0141	mg/L	0.00379				26.87%
As 188.979†	0.2	0.0015	mg/L	0.00239				158.88%
B 249.772†	6218.2	-0.0085	mg/L	0.00038				4.54%
Ba 233.527†	24422.3	0.0652	mg/L	0.00068				1.04%
Be 313.107†	-2888.4	-0.0003	mg/L	0.00000				0.11%
Cd 226.502†	37.5	0.0002	mg/L	0.00019				80.87%
Co 228.616†	-87.6	-0.0010	mg/L	0.00050				48.88%
Cr 267.716†	129.6	0.0003	mg/L	0.00087				283.79%
Cu 324.752†	11839.2	0.0233	mg/L	0.00016				0.69%
Fe 238.863†	16980.2	0.2496	mg/L	0.00667				2.67%
K 404.721†	670.9				107.72			16.06%
Mg 279.077†	124502.8	3.168	mg/L	0.0001				0.00%
Mn 257.610†	6823.4	0.0039	mg/L	0.00008				2.07%
Mo 202.031†	10.8	0.0000	mg/L	0.00042				>999.9%
Ni 231.604†	49.3	-0.0005	mg/L	0.00028				53.50%
Na 330.237†	391943.8	214.6	mg/L	0.05				0.03%
Pb 220.353†	7.6	0.0031	mg/L	0.00018				5.79%
Sb 206.836†	9.3	0.0013	mg/L	0.00368				282.97%
Se 196.026†	60.6	0.0069	mg/L	0.00270				39.21%
Sn 189.927†	-139.0	0.0193	mg/L	0.00131				6.77%
Ti 337.279†	-1651.8	-0.0044	mg/L	0.00037				8.26%
Tl 190.801†	4.4	0.0011	mg/L	0.00134				121.10%
V 292.402†	980.6	0.0035	mg/L	0.00010				2.80%
Zn 206.200†	8949.3	0.0272	mg/L	0.00027				1.00%
Ca 227.546†	198945.1	344.3	mg/L	0.52				0.15%
Sr 460.733†	98374.0	0.3731	mg/L	0.00240				0.64%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 112
Sample ID: R1004296-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 111
Date Collected: 8/13/2010 11:15:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: R1004296-009

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6991387.9	0.8007	mg/L	0.00048				0.06%
Ag 328.068†	750.0	0.0010	mg/L	0.00002				1.54%
Al 308.215†	4627.4	0.0581	mg/L	0.00432				7.44%
As 188.979†	-41.1	-0.0030	mg/L	0.00183				61.30%
B 249.772†	2017.5	-0.0353	mg/L	0.00029				0.82%
Ba 233.527†	27900.3	0.0742	mg/L	0.00039				0.52%
Be 313.107†	-2851.1	-0.0002	mg/L	0.00002				11.79%
Cd 226.502†	-70.0	0.0000	mg/L	0.00016				>999.9%
Co 228.616†	-12.5	-0.0006	mg/L	0.00004				6.70%
Cr 267.716†	-15.5	-0.0004	mg/L	0.00008				20.09%
Cu 324.752†	8976.9	0.0168	mg/L	0.00051				3.04%
Fe 238.863†	17825.5	0.2559	mg/L	0.00065				0.25%
K 404.721†	860.6				275.53			32.02%
Mg 279.077†	161812.6	4.117	mg/L	0.0594				1.44%
Mn 257.610†	5219.4	0.0030	mg/L	0.00007				2.40%
Mo 202.031†	15.4	0.0000	mg/L	0.00067				>999.9%
Ni 231.604†	3.9	-0.0010	mg/L	0.00007				6.29%
Na 330.237†	467598.4	256.0	mg/L	2.53				0.99%
Pb 220.353†	1.0	0.0035	mg/L	0.00232				65.99%

Sb 206.836†	15.5	0.0023	mg/L	0.00606	264.59%
Se 196.026†	66.9	0.0071	mg/L	0.00084	11.94%
Sn 189.927†	-137.3	0.0253	mg/L	0.00089	3.51%
Ti 337.279†	-1566.7	-0.0046	mg/L	0.00035	7.62%
Tl 190.801†	-16.0	-0.0014	mg/L	0.00015	10.55%
V 292.402†	938.7	0.0033	mg/L	0.00017	5.13%
Zn 206.200†	2097.9	0.0041	mg/L	0.00018	4.36%
Ca 227.546†	248178.8	429.5	mg/L	5.80	1.35%
Sr 460.733†	122846.8	0.4659	mg/L	0.00592	1.27%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 113 **Autosampler Location: 112**
Sample ID: R1004296-010 **Date Collected: 8/13/2010 11:19:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004296-010

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6737618.9	0.7716	mg/L	0.00455				0.59%
Ag 328.068†	840.4	0.0012	mg/L	0.00069				56.05%
Al 308.215†	3621.4	0.0334	mg/L	0.00174				5.21%
As 188.979†	12.4	0.0033	mg/L	0.00473				141.90%
B 249.772†	5111.4	-0.0231	mg/L	0.00064				2.78%
Ba 233.527†	51149.1	0.1387	mg/L	0.00107				0.77%
Be 313.107†	-3470.6	-0.0003	mg/L	0.00001				2.88%
Cd 226.502†	-25.9	0.0001	mg/L	0.00001				11.11%
Co 228.616†	-46.0	-0.0008	mg/L	0.00041				49.98%
Cr 267.716†	108.2	0.0001	mg/L	0.00062				476.83%
Cu 324.752†	7639.1	0.0139	mg/L	0.00024				1.71%
Fe 238.863†	19339.3	0.2798	mg/L	0.00107				0.38%
K 404.721†	755.8				1.45			0.19%
Mg 279.077†	166719.3	4.242	mg/L	0.0236				0.56%
Mn 257.610†	3817.0	0.0022	mg/L	0.00007				3.16%
Mo 202.031†	4.6	-0.0002	mg/L	0.00029				141.08%
Ni 231.604†	65.8	-0.0007	mg/L	0.00009				13.49%
Na 330.237†	479537.4	262.6	mg/L	1.07				0.41%
Pb 220.353†	45.8	0.0052	mg/L	0.00104				19.98%
Sb 206.836†	2.0	-0.0001	mg/L	0.00553				>999.9%
Se 196.026†	68.8	0.0073	mg/L	0.00239				32.87%
Sn 189.927†	-127.3	0.0265	mg/L	0.00119				4.49%
Ti 337.279†	-2041.1	-0.0055	mg/L	0.00013				2.34%
Tl 190.801†	15.4	0.0027	mg/L	0.00213				79.42%
V 292.402†	961.7	0.0034	mg/L	0.00004				1.10%
Zn 206.200†	12288.7	0.0375	mg/L	0.00023				0.61%
Ca 227.546†	254885.6	441.1	mg/L	2.44				0.55%
Sr 460.733†	126131.3	0.4784	mg/L	0.00223				0.47%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 114 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 8/13/2010 11:23:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7214333.0	0.8262	mg/L	0.00078				0.09%
Ag 328.068†	200006.3	0.5366	mg/L	0.00059	0.5366	mg/L	0.00059	0.11%
QC value within limits for Ag 328.068 Recovery = 107.31%								
Al 308.215†	474776.3	11.01	mg/L	0.001	11.01	mg/L	0.001	0.01%
QC value greater than the upper limit for Al 308.215 Recovery = 110.07%								
As 188.979†	9162.3	1.074	mg/L	0.0066	1.074	mg/L	0.0066	0.61%
QC value within limits for As 188.979 Recovery = 107.39%								
B 249.772†	553509.3	2.375	mg/L	0.0154	2.375	mg/L	0.0154	0.65%
QC value within limits for B 249.772 Recovery = 95.01%								

Ba 233.527†	3636377.7	10.10 mg/L	0.004	10.10 mg/L	0.004	0.04%
QC value within limits for Ba 233.527 Recovery = 101.00%						
Be 313.107†	1610848.2	0.2452 mg/L	0.00019	0.2452 mg/L	0.00019	0.08%
QC value within limits for Be 313.107 Recovery = 98.09%						
Cd 226.502†	201926.9	0.5277 mg/L	0.00092	0.5277 mg/L	0.00092	0.17%
QC value within limits for Cd 226.502 Recovery = 105.54%						
Co 228.616†	331959.1	2.483 mg/L	0.0016	2.483 mg/L	0.0016	0.07%
QC value within limits for Co 228.616 Recovery = 99.32%						
Cr 267.716†	117075.1	0.5295 mg/L	0.00019	0.5295 mg/L	0.00019	0.04%
QC value within limits for Cr 267.716 Recovery = 105.90%						
Cu 324.752†	579890.9	1.228 mg/L	0.0034	1.228 mg/L	0.0034	0.27%
QC value within limits for Cu 324.752 Recovery = 98.23%						
Fe 238.863†	330697.7	5.452 mg/L	0.0045	5.452 mg/L	0.0045	0.08%
QC value within limits for Fe 238.863 Recovery = 109.04%						
K 404.721†	5379.6				212.93	3.96%
Unable to evaluate QC.						
Mg 279.077†	1067909.1	27.16 mg/L	0.027	27.16 mg/L	0.027	0.10%
QC value within limits for Mg 279.077 Recovery = 108.63%						
Mn 257.610†	1330317.1	0.7753 mg/L	0.00075	0.7753 mg/L	0.00075	0.10%
QC value within limits for Mn 257.610 Recovery = 103.37%						
Mo 202.031†	137439.8	2.571 mg/L	0.0092	2.571 mg/L	0.0092	0.36%
QC value within limits for Mo 202.031 Recovery = 102.86%						
Ni 231.604†	318602.4	2.124 mg/L	0.0043	2.124 mg/L	0.0043	0.20%
QC value within limits for Ni 231.604 Recovery = 106.18%						
Na 330.237†	56485.8	30.96 mg/L	0.002	30.96 mg/L	0.002	0.01%
QC value greater than the upper limit for Na 330.237 Recovery = 123.84%						
Pb 220.353†	15099.3	0.5515 mg/L	0.00186	0.5515 mg/L	0.00186	0.34%
QC value greater than the upper limit for Pb 220.353 Recovery = 110.30%						
Sb 206.836†	29523.3	5.162 mg/L	0.0375	5.162 mg/L	0.0375	0.73%
QC value within limits for Sb 206.836 Recovery = 103.25%						
Se 196.026†	3193.2	0.5515 mg/L	0.00239	0.5515 mg/L	0.00239	0.43%
QC value greater than the upper limit for Se 196.026 Recovery = 110.29%						
Sn 189.927†	167219.8	5.504 mg/L	0.0101	5.504 mg/L	0.0101	0.18%
QC value greater than the upper limit for Sn 189.927 Recovery = 110.08%						
Ti 337.279†	1319482.3	2.582 mg/L	0.0103	2.582 mg/L	0.0103	0.40%
QC value within limits for Ti 337.279 Recovery = 103.29%						
Tl 190.801†	8009.1	1.043 mg/L	0.0074	1.043 mg/L	0.0074	0.71%
QC value within limits for Tl 190.801 Recovery = 104.34%						
V 292.402†	688608.8	2.560 mg/L	0.0049	2.560 mg/L	0.0049	0.19%
QC value within limits for V 292.402 Recovery = 102.41%						
Zn 206.200†	332754.1	1.092 mg/L	0.0011	1.092 mg/L	0.0011	0.10%
QC value within limits for Zn 206.200 Recovery = 109.24%						
Ca 227.546†	15523.1	27.16 mg/L	0.144	27.16 mg/L	0.144	0.53%
QC value within limits for Ca 227.546 Recovery = 108.63%						
Sr 460.733†	859832.6	3.326 mg/L	0.0070	3.326 mg/L	0.0070	0.21%
QC value greater than the upper limit for Sr 460.733 Recovery = 133.06%						
QC Failed. Continue with analysis.						

Sequence No.: 115 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 8/13/2010 11:28:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7851596.5	0.8992	mg/L	0.00039				0.04%
Ag 328.068†	266.0	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015	20.75%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-660.3	-0.0153	mg/L	0.00206	-0.0153	mg/L	0.00206	13.47%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	16.5	0.0020	mg/L	0.00745	0.0020	mg/L	0.00745	371.84%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-3796.7	-0.0169	mg/L	0.00062	-0.0169	mg/L	0.00062	3.68%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	3706.6	0.0103	mg/L	0.00002	0.0103	mg/L	0.00002	0.19%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-202.0	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	53.79%
QC value within limits for Be 313.107 Recovery = Not calculated								

Cd 226.502†	21.4	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	46.10%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-12.5	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	72.92%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-22.4	-0.0001 mg/L	0.00029	-0.0001 mg/L	0.00029	303.62%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	1433.5	0.0031 mg/L	0.00006	0.0031 mg/L	0.00006	1.85%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.863†	11527.3	0.1904 mg/L	0.00269	0.1904 mg/L	0.00269	1.41%
QC value greater than the upper limit for Fe 238.863 Recovery = Not calculated						
K 404.721†	-127.3				37.69	29.59%
Unable to evaluate QC.						
Mg 279.077†	-953.3	-0.0244 mg/L	0.00263	-0.0244 mg/L	0.00263	10.79%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	589.1	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.91%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-10.4	-0.0002 mg/L	0.00035	-0.0002 mg/L	0.00035	189.17%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	12.4	0.0001 mg/L	0.00027	0.0001 mg/L	0.00027	318.38%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Na 330.237†	696.6	0.3828 mg/L	0.10157	0.3828 mg/L	0.10157	26.54%
QC value within limits for Na 330.237 Recovery = Not calculated						
Pb 220.353†	20.7	0.0007 mg/L	0.00289	0.0007 mg/L	0.00289	391.71%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	8.4	0.0015 mg/L	0.00504	0.0015 mg/L	0.00504	341.54%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	16.5	0.0029 mg/L	0.00469	0.0029 mg/L	0.00469	161.17%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	382.5	0.0126 mg/L	0.00092	0.0126 mg/L	0.00092	7.31%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-887.5	-0.0017 mg/L	0.00004	-0.0017 mg/L	0.00004	2.34%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-22.1	-0.0029 mg/L	0.00065	-0.0029 mg/L	0.00065	22.70%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	314.0	0.0012 mg/L	0.00023	0.0012 mg/L	0.00023	19.46%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	168.8	0.0006 mg/L	0.00007	0.0006 mg/L	0.00007	12.88%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	-229.4	-0.3870 mg/L	0.02039	-0.3870 mg/L	0.02039	5.27%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Sr 460.733†	145.5	0.0006 mg/L	0.00058	0.0006 mg/L	0.00058	100.97%
QC value within limits for Sr 460.733 Recovery = Not calculated						

QC Failed. Continue with analysis.

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Sequence No.: 116 **Autosampler Location: 113**
Sample ID: R1004296-013 **Date Collected: 8/13/2010 11:32:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004296-013

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7679747.1	0.8795	mg/L	0.00378				0.43%
Ag 328.068†	190.9	0.0005	mg/L	0.00008				15.82%
Al 308.215†	6533.1	0.1493	mg/L	0.00287				1.93%
As 188.979†	-1.8	0.0000	mg/L	0.00416				>999.9%
B 249.772†	-1625.2	-0.0102	mg/L	0.00023				2.28%
Ba 233.527†	7086.1	0.0195	mg/L	0.00033				1.68%
Be 313.107†	-830.3	-0.0001	mg/L	0.00001				10.07%
Cd 226.502†	68.0	0.0001	mg/L	0.00015				101.27%
Co 228.616†	-57.1	-0.0005	mg/L	0.00004				9.02%
Cr 267.716†	83.2	0.0004	mg/L	0.00016				39.12%
Cu 324.752†	1550.4	0.0032	mg/L	0.00024				7.63%
Fe 238.863†	26010.7	0.4273	mg/L	0.00087				0.20%
K 404.721†	148.6				54.82			36.88%
Mg 279.077†	161001.2	4.095	mg/L	0.0128				0.31%
Mn 257.610†	65743.6	0.0382	mg/L	0.00013				0.34%
Mo 202.031†	-74.0	-0.0014	mg/L	0.00072				52.23%
Ni 231.604†	40.0	0.0002	mg/L	0.00009				43.99%

Na 330.237†	24380.3	13.36	mg/L	0.083	0.62%
Pb 220.353†	32.6	0.0013	mg/L	0.00031	23.99%
Sb 206.836†	15.0	0.0026	mg/L	0.00236	90.75%
Se 196.026†	64.3	0.0110	mg/L	0.00765	69.54%
Sn 189.927†	80.4	0.0041	mg/L	0.00002	0.39%
Ti 337.279†	315.5	0.0005	mg/L	0.00009	18.03%
Tl 190.801†	-11.2	-0.0014	mg/L	0.00162	117.55%
V 292.402†	472.2	0.0018	mg/L	0.00020	11.21%
Zn 206.200†	2036.6	0.0064	mg/L	0.00017	2.70%
Ca 227.546†	9745.3	16.89	mg/L	0.455	2.70%
Sr 460.733†	20031.1	0.0771	mg/L	0.00007	0.09%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 117 **Autosampler Location: 114**
Sample ID: R1004317-001 **Date Collected: 8/13/2010 11:36:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004317-001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6622585.6	0.7584	mg/L	0.00277				0.37%
Ag 328.068†	653.5	0.0006	mg/L	0.00026				44.57%
Al 308.215†	6899.2	0.1019	mg/L	0.00130				1.27%
As 188.979†	-25.4	-0.0008	mg/L	0.00080				101.49%
B 249.772†	3201.9	-0.0382	mg/L	0.00047				1.23%
Ba 233.527†	35283.0	0.0942	mg/L	0.00113				1.20%
Be 313.107†	-3718.2	-0.0003	mg/L	0.00003				11.71%
Cd 226.502†	-110.9	-0.0001	mg/L	0.00001				14.58%
Co 228.616†	-18.3	-0.0007	mg/L	0.00025				35.62%
Cr 267.716†	7.2	-0.0004	mg/L	0.00014				35.94%
Cu 324.752†	15274.7	0.0297	mg/L	0.00007				0.22%
Fe 238.863†	24295.6	0.3559	mg/L	0.00160				0.45%
K 404.721†	845.4						53.29	6.30%
Mg 279.077†	165918.5	4.221	mg/L	0.0301				0.71%
Mn 257.610†	91820.4	0.0535	mg/L	0.00025				0.47%
Mo 202.031†	-40.4	-0.0011	mg/L	0.00025				23.16%
Ni 231.604†	111.1	-0.0005	mg/L	0.00042				81.35%
Na 330.237†	453703.1	248.4	mg/L	0.96				0.38%
Pb 220.353†	-45.5	0.0024	mg/L	0.00196				80.42%
Sb 206.836†	35.2	0.0057	mg/L	0.00454				80.10%
Se 196.026†	47.7	0.0030	mg/L	0.00033				11.25%
Sn 189.927†	-110.4	0.0316	mg/L	0.00127				4.03%
Ti 337.279†	-1905.4	-0.0055	mg/L	0.00017				3.19%
Tl 190.801†	-28.3	-0.0029	mg/L	0.00098				33.76%
V 292.402†	1069.2	0.0038	mg/L	0.00018				4.66%
Zn 206.200†	5789.0	0.0157	mg/L	0.00025				1.61%
Ca 227.546†	293116.6	507.2	mg/L	2.30				0.45%
Sr 460.733†	136534.7	0.5172	mg/L	0.00355				0.69%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 118 **Autosampler Location: 115**
Sample ID: R1004317-002 **Date Collected: 8/13/2010 11:40:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**

Mean Data: R1004317-002

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6724457.5	0.7701	mg/L	0.00281				0.36%
Ag 328.068†	940.3	0.0014	mg/L	0.00052				38.08%
Al 308.215†	3440.6	0.0225	mg/L	0.00356				15.81%
As 188.979†	-29.6	-0.0013	mg/L	0.00158				117.35%
B 249.772†	3146.8	-0.0375	mg/L	0.00000				0.01%
Ba 233.527†	40672.3	0.1092	mg/L	0.00063				0.58%
Be 313.107†	-3315.6	-0.0002	mg/L	0.00004				14.79%

Cd 226.502†	-53.3	0.0001	mg/L	0.00034		506.06%
Co 228.616†	-45.0	-0.0009	mg/L	0.00023		25.91%
Cr 267.716†	-30.4	-0.0006	mg/L	0.00082		148.62%
Cu 324.752†	7940.2	0.0142	mg/L	0.00003		0.19%
Fe 238.863†	18535.3	0.2614	mg/L	0.00095		0.36%
K 404.721†	769.4				4.00	0.52%
Mg 279.077†	163706.4	4.165	mg/L	0.0039		0.09%
Mn 257.610†	3216.3	0.0018	mg/L	0.00007		3.91%
Mo 202.031†	-12.0	-0.0006	mg/L	0.00020		35.60%
Ni 231.604†	55.0	-0.0009	mg/L	0.00009		9.99%
Na 330.237†	448402.5	245.5	mg/L	0.55		0.22%
Pb 220.353†	-73.8	0.0014	mg/L	0.00121		89.22%
Sb 206.836†	-9.2	-0.0021	mg/L	0.00419		200.72%
Se 196.026†	56.1	0.0044	mg/L	0.00186		41.85%
Sn 189.927†	-162.4	0.0294	mg/L	0.00074		2.52%
Ti 337.279†	-1918.0	-0.0055	mg/L	0.00000		0.00%
Tl 190.801†	-6.2	-0.0001	mg/L	0.00203		>999.9%
V 292.402†	978.8	0.0035	mg/L	0.00009		2.47%
Zn 206.200†	5724.1	0.0156	mg/L	0.00004		0.25%
Ca 227.546†	289030.4	500.2	mg/L	0.80		0.16%
Sr 460.733†	134651.6	0.5100	mg/L	0.00374		0.73%

Sample conc. not calculated. Sample Prep. Vol. AND Initial Vol. required OR sample units incorrect.

Sequence No.: 119 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 8/13/2010 11:44:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7309648.6	0.8371	mg/L	0.00246				0.29%
Ag 328.068†	198016.5	0.5312	mg/L	0.00040	0.5312	mg/L	0.00040	0.08%
QC value within limits for Ag 328.068 Recovery = 106.25%								
Al 308.215†	470335.6	10.90	mg/L	0.055	10.90	mg/L	0.055	0.51%
QC value within limits for Al 308.215 Recovery = 109.04%								
As 188.979†	8913.8	1.045	mg/L	0.0040	1.045	mg/L	0.0040	0.38%
QC value within limits for As 188.979 Recovery = 104.49%								
B 249.772†	547323.9	2.349	mg/L	0.0308	2.349	mg/L	0.0308	1.31%
QC value within limits for B 249.772 Recovery = 93.95%								
Ba 233.527†	3598254.3	9.994	mg/L	0.0465	9.994	mg/L	0.0465	0.47%
QC value within limits for Ba 233.527 Recovery = 99.94%								
Be 313.107†	1592036.7	0.2424	mg/L	0.00127	0.2424	mg/L	0.00127	0.52%
QC value within limits for Be 313.107 Recovery = 96.94%								
Cd 226.502†	197153.5	0.5152	mg/L	0.00722	0.5152	mg/L	0.00722	1.40%
QC value within limits for Cd 226.502 Recovery = 103.04%								
Co 228.616†	328284.7	2.456	mg/L	0.0106	2.456	mg/L	0.0106	0.43%
QC value within limits for Co 228.616 Recovery = 98.23%								
Cr 267.716†	114293.1	0.5169	mg/L	0.00637	0.5169	mg/L	0.00637	1.23%
QC value within limits for Cr 267.716 Recovery = 103.38%								
Cu 324.752†	573227.1	1.214	mg/L	0.0073	1.214	mg/L	0.0073	0.60%
QC value within limits for Cu 324.752 Recovery = 97.10%								
Fe 238.863†	327422.6	5.398	mg/L	0.0329	5.398	mg/L	0.0329	0.61%
QC value within limits for Fe 238.863 Recovery = 107.96%								
K 404.721†	5332.1						42.82	0.80%
Unable to evaluate QC.								
Mg 279.077†	1057191.4	26.89	mg/L	0.160	26.89	mg/L	0.160	0.59%
QC value within limits for Mg 279.077 Recovery = 107.54%								
Mn 257.610†	1315729.0	0.7668	mg/L	0.00348	0.7668	mg/L	0.00348	0.45%
QC value within limits for Mn 257.610 Recovery = 102.23%								
Mo 202.031†	134765.1	2.521	mg/L	0.0428	2.521	mg/L	0.0428	1.70%
QC value within limits for Mo 202.031 Recovery = 100.86%								
Ni 231.604†	316383.7	2.109	mg/L	0.0050	2.109	mg/L	0.0050	0.24%
QC value within limits for Ni 231.604 Recovery = 105.44%								
Na 330.237†	56180.7	30.79	mg/L	0.162	30.79	mg/L	0.162	0.53%
QC value greater than the upper limit for Na 330.237 Recovery = 123.17%								
Pb 220.353†	14449.8	0.5278	mg/L	0.01138	0.5278	mg/L	0.01138	2.16%
QC value within limits for Pb 220.353 Recovery = 105.56%								
Sb 206.836†	29571.0	5.171	mg/L	0.0515	5.171	mg/L	0.0515	1.00%

QC value within limits for Sb 206.836 Recovery = 103.41%

Se 196.026†	3114.1	0.5378 mg/L	0.00425	0.5378 mg/L	0.00425	0.79%
QC value within limits for Se 196.026 Recovery = 107.56%						
Sn 189.927†	165576.4	5.450 mg/L	0.0559	5.450 mg/L	0.0559	1.03%
QC value within limits for Sn 189.927 Recovery = 109.00%						
Ti 337.279†	1303840.9	2.552 mg/L	0.0288	2.552 mg/L	0.0288	1.13%
QC value within limits for Ti 337.279 Recovery = 102.07%						
Tl 190.801†	7883.2	1.027 mg/L	0.0140	1.027 mg/L	0.0140	1.36%
QC value within limits for Tl 190.801 Recovery = 102.70%						
V 292.402†	681654.0	2.534 mg/L	0.0205	2.534 mg/L	0.0205	0.81%
QC value within limits for V 292.402 Recovery = 101.38%						
Zn 206.200†	329304.2	1.081 mg/L	0.0042	1.081 mg/L	0.0042	0.39%
QC value within limits for Zn 206.200 Recovery = 108.11%						
Ca 227.546†	15217.9	26.63 mg/L	0.289	26.63 mg/L	0.289	1.09%
QC value within limits for Ca 227.546 Recovery = 106.51%						
Sr 460.733†	852669.6	3.299 mg/L	0.0103	3.299 mg/L	0.0103	0.31%
QC value greater than the upper limit for Sr 460.733 Recovery = 131.95%						

QC Failed. Continue with analysis.

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Sequence No.: 120 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 8/13/2010 11:49:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7697341.4	0.8815	mg/L	0.00383				0.43%
Ag 328.068†	81.0	0.0002	mg/L	0.00027	0.0002	mg/L	0.00027	114.77%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-662.4	-0.0153	mg/L	0.00122	-0.0153	mg/L	0.00122	8.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	26.2	0.0031	mg/L	0.00088	0.0031	mg/L	0.00088	27.99%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	-4142.9	-0.0185	mg/L	0.00031	-0.0185	mg/L	0.00031	1.68%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	3937.7	0.0109	mg/L	0.00024	0.0109	mg/L	0.00024	2.19%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-312.2	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	31.91%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	112.0	0.0003	mg/L	0.00020	0.0003	mg/L	0.00020	72.08%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	38.0	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	15.02%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-96.5	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	3.92%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	1497.8	0.0032	mg/L	0.00014	0.0032	mg/L	0.00014	4.47%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	12414.1	0.2051	mg/L	0.00141	0.2051	mg/L	0.00141	0.69%
QC value greater than the upper limit for Fe 238.863 Recovery = Not calculated								
K 404.721†	9.2						146.29	>999.9%
Unable to evaluate QC.								
Mg 279.077†	-816.9	-0.0209	mg/L	0.00104	-0.0209	mg/L	0.00104	4.96%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	439.7	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	34.16%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	8.4	0.0002	mg/L	0.00019	0.0002	mg/L	0.00019	115.26%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-8.8	-0.0001	mg/L	0.00057	-0.0001	mg/L	0.00057	980.74%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	802.3	0.4409	mg/L	0.05445	0.4409	mg/L	0.05445	12.35%
QC value within limits for Na 330.237 Recovery = Not calculated								
Pb 220.353†	16.5	0.0006	mg/L	0.00207	0.0006	mg/L	0.00207	355.00%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	11.9	0.0021	mg/L	0.00037	0.0021	mg/L	0.00037	17.62%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	17.0	0.0030	mg/L	0.00002	0.0030	mg/L	0.00002	0.71%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	411.7	0.0135	mg/L	0.00240	0.0135	mg/L	0.00240	17.74%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279†	-991.9	-0.0019 mg/L	0.00010	-0.0019 mg/L	0.00010	5.22%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	9.5	0.0012 mg/L	0.00051	0.0012 mg/L	0.00051	40.88%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	278.3	0.0011 mg/L	0.00001	0.0011 mg/L	0.00001	0.81%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	204.3	0.0007 mg/L	0.00003	0.0007 mg/L	0.00003	4.53%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	-322.2	-0.5467 mg/L	0.03921	-0.5467 mg/L	0.03921	7.17%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Sr 460.733†	195.9	0.0008 mg/L	0.00016	0.0008 mg/L	0.00016	21.34%
QC value within limits for Sr 460.733 Recovery = Not calculated						

QC Failed. Continue with analysis.

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Sequence No.: 121 **Autosampler Location: 6**
Sample ID: MRL **Date Collected: 8/13/2010 11:53:28 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7859701.8	0.9001	mg/L	0.00038				0.04%
Ag 328.068†	3925.4	0.0105	mg/L	0.00033	0.0105	mg/L	0.00033	3.15%
QC value within limits for Ag 328.068 Recovery = 105.42%								
Al 308.215†	8623.9	0.1999	mg/L	0.00412	0.1999	mg/L	0.00412	2.06%
QC value within limits for Al 308.215 Recovery = 99.94%								
As 188.979†	164.9	0.0194	mg/L	0.00023	0.0194	mg/L	0.00023	1.21%
QC value within limits for As 188.979 Recovery = 97.06%								
B 249.772†	34421.8	0.1481	mg/L	0.00185	0.1481	mg/L	0.00185	1.25%
QC value less than the lower limit for B 249.772 Recovery = 74.04%								
Ba 233.527†	76948.0	0.2137	mg/L	0.00145	0.2137	mg/L	0.00145	0.68%
QC value within limits for Ba 233.527 Recovery = 106.86%								
Be 313.107†	29040.4	0.0044	mg/L	0.00001	0.0044	mg/L	0.00001	0.25%
QC value within limits for Be 313.107 Recovery = 88.42%								
Cd 226.502†	3938.1	0.0103	mg/L	0.00004	0.0103	mg/L	0.00004	0.43%
QC value within limits for Cd 226.502 Recovery = 102.75%								
Co 228.616†	6687.8	0.0500	mg/L	0.00074	0.0500	mg/L	0.00074	1.48%
QC value within limits for Co 228.616 Recovery = 100.04%								
Cr 267.716†	2043.7	0.0093	mg/L	0.00000	0.0093	mg/L	0.00000	0.02%
QC value within limits for Cr 267.716 Recovery = 92.55%								
Cu 324.752†	11557.0	0.0245	mg/L	0.00029	0.0245	mg/L	0.00029	1.20%
QC value within limits for Cu 324.752 Recovery = 97.98%								
Fe 238.863†	17785.1	0.2934	mg/L	0.00280	0.2934	mg/L	0.00280	0.96%
QC value greater than the upper limit for Fe 238.863 Recovery = 293.44%								
K 404.721†	187.6						61.19	32.62%
Unable to evaluate QC.								
Mg 279.077†	41842.3	1.064	mg/L	0.0066	1.064	mg/L	0.0066	0.62%
QC value within limits for Mg 279.077 Recovery = 106.41%								
Mn 257.610†	25980.6	0.0151	mg/L	0.00011	0.0151	mg/L	0.00011	0.76%
QC value within limits for Mn 257.610 Recovery = 100.82%								
Mo 202.031†	1229.4	0.0230	mg/L	0.00042	0.0230	mg/L	0.00042	1.82%
QC value within limits for Mo 202.031 Recovery = 92.05%								
Ni 231.604†	6071.2	0.0405	mg/L	0.00064	0.0405	mg/L	0.00064	1.58%
QC value within limits for Ni 231.604 Recovery = 101.17%								
Na 330.237†	2771.1	1.520	mg/L	0.0188	1.520	mg/L	0.0188	1.24%
QC value greater than the upper limit for Na 330.237 Recovery = 151.97%								
Pb 220.353†	280.4	0.0102	mg/L	0.00137	0.0102	mg/L	0.00137	13.35%
QC value within limits for Pb 220.353 Recovery = 102.28%								
Sb 206.836†	343.2	0.0600	mg/L	0.00123	0.0600	mg/L	0.00123	2.05%
QC value within limits for Sb 206.836 Recovery = 100.00%								
Se 196.026†	106.7	0.0185	mg/L	0.00654	0.0185	mg/L	0.00654	35.41%
QC value greater than the upper limit for Se 196.026 Recovery = 184.69%								
Sn 189.927†	16943.5	0.5574	mg/L	0.00865	0.5574	mg/L	0.00865	1.55%
QC value within limits for Sn 189.927 Recovery = 111.48%								
Ti 337.279†	24331.9	0.0476	mg/L	0.00010	0.0476	mg/L	0.00010	0.20%
QC value within limits for Ti 337.279 Recovery = 95.22%								
Tl 190.801†	154.2	0.0201	mg/L	0.00425	0.0201	mg/L	0.00425	21.14%

QC value within limits for Tl 190.801 Recovery = 100.51%

V 292.402†	13136.6	0.0489 mg/L	0.00043	0.0489 mg/L	0.00043	0.89%

QC value within limits for V 292.402 Recovery = 97.72%

Zn 206.200†	6286.0	0.0206 mg/L	0.00015	0.0206 mg/L	0.00015	0.71%

QC value within limits for Zn 206.200 Recovery = 103.07%

Ca 227.546†	292.2	0.5211 mg/L	0.08734	0.5211 mg/L	0.08734	16.76%

QC value less than the lower limit for Ca 227.546 Recovery = 52.11%

Sr 460.733†	35804.9	0.1385 mg/L	0.00085	0.1385 mg/L	0.00085	0.61%

QC value greater than the upper limit for Sr 460.733 Recovery = 138.53%

QC Failed. Continue with analysis.

Sequence No.: 122 **Autosampler Location:** 7
Sample ID: ICSA **Date Collected:** 8/13/2010 11:57:35 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6931657.4	0.7938	mg/L	0.00190				0.24%
Ag 328.068†	-1743.5	0.0002	mg/L	0.00052	0.0002	mg/L	0.00052	227.03%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	10971901.5	254.4	mg/L	0.69	254.4	mg/L	0.69	0.27%
QC value within limits for Al 308.215 Recovery = 101.78%								
As 188.979†	-293.6	0.0044	mg/L	0.00120	0.0044	mg/L	0.00120	27.38%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.772†	80121.3	0.0010	mg/L	0.00358	0.0010	mg/L	0.00358	368.78%
Ba 233.527†	5330.1	0.0074	mg/L	0.00071	0.0074	mg/L	0.00071	9.56%
Be 313.107†	-2393.4	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	23.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 226.502†	2731.7	-0.0005	mg/L	0.00011	-0.0005	mg/L	0.00011	20.46%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	206.8	-0.0005	mg/L	0.00027	-0.0005	mg/L	0.00027	52.76%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-1446.6	-0.0015	mg/L	0.00045	-0.0015	mg/L	0.00045	30.44%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-5886.6	-0.0027	mg/L	0.00037	-0.0027	mg/L	0.00037	13.65%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	5726467.8	94.45	mg/L	0.105	94.45	mg/L	0.105	0.11%
QC value within limits for Fe 238.863 Recovery = 94.45%								
K 404.721†	-62.6						52.76	84.23%
Mg 279.077†	9726368.3	247.3	mg/L	0.09	247.3	mg/L	0.09	0.04%
QC value within limits for Mg 279.077 Recovery = 98.93%								
Mn 257.610†	-193.1	-0.0075	mg/L	0.00002	-0.0075	mg/L	0.00002	0.26%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-416.8	-0.0014	mg/L	0.00152	-0.0014	mg/L	0.00152	105.49%
Ni 231.604†	14.0	-0.0012	mg/L	0.00007	-0.0012	mg/L	0.00007	5.77%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Na 330.237†	1283.5	0.6627	mg/L	0.02680	0.6627	mg/L	0.02680	4.04%
Pb 220.353†	-640.2	0.0015	mg/L	0.00385	0.0015	mg/L	0.00385	261.19%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	13.8	-0.0011	mg/L	0.00132	-0.0011	mg/L	0.00132	118.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-41.1	0.0082	mg/L	0.00995	0.0082	mg/L	0.00995	120.81%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	47.1	0.0531	mg/L	0.00168	0.0531	mg/L	0.00168	3.17%
Ti 337.279†	-841.0	-0.0055	mg/L	0.00001	-0.0055	mg/L	0.00001	0.26%
Tl 190.801†	-61.0	-0.0005	mg/L	0.00164	-0.0005	mg/L	0.00164	312.06%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-2345.1	-0.0001	mg/L	0.00076	-0.0001	mg/L	0.00076	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	1107.8	-0.0114	mg/L	0.00015	-0.0114	mg/L	0.00015	1.35%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Ca 227.546†	146502.8	258.7	mg/L	0.69	258.7	mg/L	0.69	0.27%
QC value within limits for Ca 227.546 Recovery = 103.49%								
Sr 460.733†	1804.5	0.0020	mg/L	0.00059	0.0020	mg/L	0.00059	29.28%

All analyte(s) passed QC.

Sequence No.: 123
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 8/14/2010 12:01:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	6752134.2	0.7733	mg/L	0.00108				0.14%
Ag 328.068†	78415.7	0.2153	mg/L	0.00126	0.2153	mg/L	0.00126	0.58%
QC value within limits for Ag 328.068 Recovery = 107.66%								
Al 308.215†	11167883.3	259.0	mg/L	1.38	259.0	mg/L	1.38	0.53%
QC value within limits for Al 308.215 Recovery = 103.59%								
As 188.979†	550.4	0.1041	mg/L	0.00618	0.1041	mg/L	0.00618	5.94%
QC value within limits for As 188.979 Recovery = 104.09%								
B 249.772†	82349.5	0.0023	mg/L	0.00505	0.0023	mg/L	0.00505	224.17%
Ba 233.527†	193931.7	0.5311	mg/L	0.00334	0.5311	mg/L	0.00334	0.63%
QC value within limits for Ba 233.527 Recovery = 106.22%								
Be 313.107†	3232202.9	0.4923	mg/L	0.00189	0.4923	mg/L	0.00189	0.38%
QC value within limits for Be 313.107 Recovery = 98.45%								
Cd 226.502†	393771.3	1.022	mg/L	0.0049	1.022	mg/L	0.0049	0.48%
QC value within limits for Cd 226.502 Recovery = 102.20%								
Co 228.616†	65519.9	0.4880	mg/L	0.00638	0.4880	mg/L	0.00638	1.31%
QC value within limits for Co 228.616 Recovery = 97.60%								
Cr 267.716†	111993.4	0.5113	mg/L	0.00253	0.5113	mg/L	0.00253	0.49%
QC value within limits for Cr 267.716 Recovery = 102.26%								
Cu 324.752†	228830.3	0.4944	mg/L	0.00377	0.4944	mg/L	0.00377	0.76%
QC value within limits for Cu 324.752 Recovery = 98.89%								
Fe 238.863†	5872859.6	96.87	mg/L	0.531	96.87	mg/L	0.531	0.55%
QC value within limits for Fe 238.863 Recovery = 96.87%								
K 404.721†	4.0						79.06	>999.9%
Mg 279.077†	9930182.9	252.5	mg/L	1.32	252.5	mg/L	1.32	0.52%
QC value within limits for Mg 279.077 Recovery = 101.01%								
Mn 257.610†	875668.2	0.5033	mg/L	0.00267	0.5033	mg/L	0.00267	0.53%
QC value within limits for Mn 257.610 Recovery = 100.67%								
Mo 202.031†	-507.6	-0.0030	mg/L	0.00017	-0.0030	mg/L	0.00017	5.62%
Ni 231.604†	148447.9	0.9883	mg/L	0.00095	0.9883	mg/L	0.00095	0.10%
QC value within limits for Ni 231.604 Recovery = 98.83%								
Na 330.237†	232.3	0.0870	mg/L	0.04688	0.0870	mg/L	0.04688	53.89%
Pb 220.353†	806.4	0.0546	mg/L	0.00022	0.0546	mg/L	0.00022	0.41%
QC value within limits for Pb 220.353 Recovery = 109.21%								
Sb 206.836†	3660.9	0.6366	mg/L	0.00128	0.6366	mg/L	0.00128	0.20%
QC value within limits for Sb 206.836 Recovery = 106.09%								
Se 196.026†	285.0	0.0649	mg/L	0.00153	0.0649	mg/L	0.00153	2.36%
QC value greater than the upper limit for Se 196.026 Recovery = 129.89%								
Sn 189.927†	-69.7	0.0504	mg/L	0.00076	0.0504	mg/L	0.00076	1.50%
Ti 337.279†	-1117.8	-0.0061	mg/L	0.00002	-0.0061	mg/L	0.00002	0.34%
Tl 190.801†	713.5	0.1005	mg/L	0.00712	0.1005	mg/L	0.00712	7.08%
QC value within limits for Tl 190.801 Recovery = 100.50%								
V 292.402†	133436.7	0.5049	mg/L	0.00276	0.5049	mg/L	0.00276	0.55%
QC value within limits for V 292.402 Recovery = 100.98%								
Zn 206.200†	318008.9	1.030	mg/L	0.0057	1.030	mg/L	0.0057	0.55%
QC value within limits for Zn 206.200 Recovery = 102.99%								
Ca 227.546†	149468.8	264.0	mg/L	1.83	264.0	mg/L	1.83	0.69%
QC value within limits for Ca 227.546 Recovery = 105.59%								
Sr 460.733†	1855.5	0.0021	mg/L	0.00063	0.0021	mg/L	0.00063	30.10%

QC Failed. Continue with analysis.

Sequence No.: 124
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/14/2010 12:06:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7409151.0	0.8485	mg/L	0.00357				0.42%

Ag 328.068†	193955.4	0.5203 mg/L	0.00725	0.5203 mg/L	0.00725	1.39%
QC value within limits for Ag 328.068 Recovery = 104.07%						
Al 308.215†	458107.6	10.62 mg/L	0.112	10.62 mg/L	0.112	1.06%
QC value within limits for Al 308.215 Recovery = 106.21%						
As 188.979†	8858.0	1.038 mg/L	0.0020	1.038 mg/L	0.0020	0.19%
QC value within limits for As 188.979 Recovery = 103.83%						
B 249.772†	533671.7	2.290 mg/L	0.0126	2.290 mg/L	0.0126	0.55%
QC value within limits for B 249.772 Recovery = 91.60%						
Ba 233.527†	3504005.4	9.732 mg/L	0.0925	9.732 mg/L	0.0925	0.95%
QC value within limits for Ba 233.527 Recovery = 97.32%						
Be 313.107†	1556679.6	0.2370 mg/L	0.00258	0.2370 mg/L	0.00258	1.09%
QC value within limits for Be 313.107 Recovery = 94.79%						
Cd 226.502†	196150.1	0.5126 mg/L	0.00142	0.5126 mg/L	0.00142	0.28%
QC value within limits for Cd 226.502 Recovery = 102.52%						
Co 228.616†	319347.6	2.389 mg/L	0.0243	2.389 mg/L	0.0243	1.02%
QC value within limits for Co 228.616 Recovery = 95.55%						
Cr 267.716†	113710.7	0.5143 mg/L	0.00302	0.5143 mg/L	0.00302	0.59%
QC value within limits for Cr 267.716 Recovery = 102.85%						
Cu 324.752†	561905.5	1.190 mg/L	0.0092	1.190 mg/L	0.0092	0.77%
QC value within limits for Cu 324.752 Recovery = 95.18%						
Fe 238.863†	320371.3	5.282 mg/L	0.0580	5.282 mg/L	0.0580	1.10%
QC value within limits for Fe 238.863 Recovery = 105.64%						
K 404.721†	5102.6				26.36	0.52%
Unable to evaluate QC.						
Mg 279.077†	1029633.4	26.19 mg/L	0.276	26.19 mg/L	0.276	1.06%
QC value within limits for Mg 279.077 Recovery = 104.74%						
Mn 257.610†	1282083.1	0.7472 mg/L	0.00750	0.7472 mg/L	0.00750	1.00%
QC value within limits for Mn 257.610 Recovery = 99.62%						
Mo 202.031†	131252.4	2.456 mg/L	0.0130	2.456 mg/L	0.0130	0.53%
QC value within limits for Mo 202.031 Recovery = 98.23%						
Ni 231.604†	308889.8	2.059 mg/L	0.0313	2.059 mg/L	0.0313	1.52%
QC value within limits for Ni 231.604 Recovery = 102.95%						
Na 330.237†	53836.5	29.51 mg/L	0.109	29.51 mg/L	0.109	0.37%
QC value greater than the upper limit for Na 330.237 Recovery = 118.03%						
Pb 220.353†	14427.2	0.5270 mg/L	0.00702	0.5270 mg/L	0.00702	1.33%
QC value within limits for Pb 220.353 Recovery = 105.39%						
Sb 206.836†	28724.1	5.023 mg/L	0.0470	5.023 mg/L	0.0470	0.94%
QC value within limits for Sb 206.836 Recovery = 100.45%						
Se 196.026†	3047.4	0.5263 mg/L	0.01112	0.5263 mg/L	0.01112	2.11%
QC value within limits for Se 196.026 Recovery = 105.26%						
Sn 189.927†	159365.6	5.246 mg/L	0.0345	5.246 mg/L	0.0345	0.66%
QC value within limits for Sn 189.927 Recovery = 104.91%						
Ti 337.279†	1274582.7	2.494 mg/L	0.0632	2.494 mg/L	0.0632	2.53%
QC value within limits for Ti 337.279 Recovery = 99.78%						
Tl 190.801†	7794.6	1.015 mg/L	0.0007	1.015 mg/L	0.0007	0.07%
QC value within limits for Tl 190.801 Recovery = 101.55%						
V 292.402†	666076.5	2.477 mg/L	0.0211	2.477 mg/L	0.0211	0.85%
QC value within limits for V 292.402 Recovery = 99.06%						
Zn 206.200†	320181.9	1.051 mg/L	0.0125	1.051 mg/L	0.0125	1.18%
QC value within limits for Zn 206.200 Recovery = 105.11%						
Ca 227.546†	14961.3	26.18 mg/L	0.087	26.18 mg/L	0.087	0.33%
QC value within limits for Ca 227.546 Recovery = 104.71%						
Sr 460.733†	821641.6	3.179 mg/L	0.0324	3.179 mg/L	0.0324	1.02%
QC value greater than the upper limit for Sr 460.733 Recovery = 127.15%						

QC Failed. Continue with analysis.

==========

Sequence No.: 125 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 8/14/2010 12:10:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7838770.3	0.8977	mg/L	0.00032				0.04%
Ag 328.068†	392.7	0.0011	mg/L	0.00057	0.0011	mg/L	0.00057	53.21%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-491.5	-0.0113	mg/L	0.00102	-0.0113	mg/L	0.00102	8.96%
QC value within limits for Al 308.215 Recovery = Not calculated								

As 188.979†	55.1	0.0065 mg/L	0.00131	0.0065 mg/L	0.00131	20.05%
QC value greater than the upper limit for As 188.979 Recovery = Not calculated						
B 249.772†	-3255.9	-0.0146 mg/L	0.00071	-0.0146 mg/L	0.00071	4.84%
QC value within limits for B 249.772 Recovery = Not calculated						
Ba 233.527†	3428.7	0.0095 mg/L	0.00017	0.0095 mg/L	0.00017	1.77%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	403.5	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	9.31%
QC value within limits for Be 313.107 Recovery = Not calculated						
Cd 226.502†	77.2	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	6.21%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	39.3	0.0003 mg/L	0.00057	0.0003 mg/L	0.00057	195.53%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-88.3	-0.0004 mg/L	0.00001	-0.0004 mg/L	0.00001	1.55%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	1848.7	0.0040 mg/L	0.00014	0.0040 mg/L	0.00014	3.57%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.863†	12123.3	0.2003 mg/L	0.00035	0.2003 mg/L	0.00035	0.17%
QC value greater than the upper limit for Fe 238.863 Recovery = Not calculated						
K 404.721†	-3.5				27.35	782.54%
Unable to evaluate QC.						
Mg 279.077†	-423.0	-0.0109 mg/L	0.00059	-0.0109 mg/L	0.00059	5.47%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	466.0	0.0003 mg/L	0.00000	0.0003 mg/L	0.00000	1.62%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-2.1	0.0000 mg/L	0.00026	0.0000 mg/L	0.00026	831.73%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	32.1	0.0002 mg/L	0.00036	0.0002 mg/L	0.00036	169.76%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Na 330.237†	734.5	0.4037 mg/L	0.01866	0.4037 mg/L	0.01866	4.62%
QC value within limits for Na 330.237 Recovery = Not calculated						
Pb 220.353†	32.4	0.0012 mg/L	0.00113	0.0012 mg/L	0.00113	97.54%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	20.4	0.0036 mg/L	0.00042	0.0036 mg/L	0.00042	11.82%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.2	0.0004 mg/L	0.00274	0.0004 mg/L	0.00274	615.23%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	419.3	0.0138 mg/L	0.00029	0.0138 mg/L	0.00029	2.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-880.3	-0.0017 mg/L	0.00007	-0.0017 mg/L	0.00007	4.21%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	15.2	0.0020 mg/L	0.00146	0.0020 mg/L	0.00146	73.70%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	377.4	0.0014 mg/L	0.00000	0.0014 mg/L	0.00000	0.18%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	144.6	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	12.38%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Ca 227.546†	-279.4	-0.4729 mg/L	0.04264	-0.4729 mg/L	0.04264	9.02%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Sr 460.733†	207.5	0.0008 mg/L	0.00022	0.0008 mg/L	0.00022	27.02%
QC value within limits for Sr 460.733 Recovery = Not calculated						
QC Failed. Continue with analysis.						

==========

Sequence No.: 126 **Autosampler Location: 116**
Sample ID: Sample116 **Date Collected: 8/14/2010 12:15:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: Sample116

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	7839471.4	0.8978	mg/L	0.00045				0.05%
Ag 328.068†	236.2	0.0006	mg/L	0.00057	0.0006	mg/L	0.00057	88.10%
Al 308.215†	-627.9	-0.0145	mg/L	0.00178	-0.0145	mg/L	0.00178	12.25%
As 188.979†	7.1	0.0009	mg/L	0.00448	0.0009	mg/L	0.00448	493.18%
B 249.772†	-4355.8	-0.0194	mg/L	0.00014	-0.0194	mg/L	0.00014	0.73%
Ba 233.527†	2936.3	0.0081	mg/L	0.00017	0.0081	mg/L	0.00017	2.07%
Be 313.107†	-293.1	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	7.98%
Cd 226.502†	49.5	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	34.18%
Co 228.616†	-37.9	-0.0003	mg/L	0.00007	-0.0003	mg/L	0.00007	24.12%

Cr 267.716†	-121.7	-0.0005 mg/L	0.00035	-0.0005 mg/L	0.00035	64.55%
Cu 324.752†	627.9	0.0014 mg/L	0.00011	0.0014 mg/L	0.00011	8.31%
Fe 238.863†	12667.3	0.2092 mg/L	0.00243	0.2092 mg/L	0.00243	1.16%
K 404.721†	60.5				10.11	16.71%
Mg 279.077†	-771.2	-0.0197 mg/L	0.00246	-0.0197 mg/L	0.00246	12.44%
Mn 257.610†	330.0	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	34.42%
Mo 202.031†	-67.6	-0.0013 mg/L	0.00006	-0.0013 mg/L	0.00006	4.89%
Ni 231.604†	3.4	0.0000 mg/L	0.00032	0.0000 mg/L	0.00032	>999.9%
Na 330.237†	750.7	0.4126 mg/L	0.20277	0.4126 mg/L	0.20277	49.15%
Pb 220.353†	-43.4	-0.0016 mg/L	0.00203	-0.0016 mg/L	0.00203	126.28%
Sb 206.836†	11.1	0.0019 mg/L	0.00197	0.0019 mg/L	0.00197	100.87%
Se 196.026†	24.9	0.0044 mg/L	0.00004	0.0044 mg/L	0.00004	1.03%
Sn 189.927†	206.4	0.0068 mg/L	0.00021	0.0068 mg/L	0.00021	3.14%
Ti 337.279†	-1026.8	-0.0020 mg/L	0.00011	-0.0020 mg/L	0.00011	5.26%
Tl 190.801†	-9.9	-0.0013 mg/L	0.00283	-0.0013 mg/L	0.00283	220.69%
V 292.402†	355.1	0.0013 mg/L	0.00021	0.0013 mg/L	0.00021	15.74%
Zn 206.200†	787.5	0.0026 mg/L	0.00008	0.0026 mg/L	0.00008	3.08%
Ca 227.546†	-298.9	-0.5063 mg/L	0.03202	-0.5063 mg/L	0.03202	6.32%
Sr 460.733†	67.2	0.0003 mg/L	0.00020	0.0003 mg/L	0.00020	75.59%

Preparation Information Benchsheet

Prep Run#: 117216
Team: Metals/DKRAFTSCHIK

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3010A

Status: Prepped
Prep Date/Time: 8/11/10 02:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1006608-01	MB		50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T, 6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		HB#1, 95c
2	RQ1006608-02	LCS		50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T, 6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear	0.0500 mL/14325; 0.2500 mL/18636; 0.5000 mL/18110; 0.5000 mL/18111	
3	R1004110-001	10MB007	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		IV
4	RQ1006608-03	R1004110-001 DUP	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
5	RQ1006608-04	R1004110-001 MS	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear	0.0500 mL/14325; 0.2500 mL/18636; 0.5000 mL/18110; 0.5000 mL/18111	
6	R1004110-002	10MB008	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
7	R1004110-003	10MB009	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
8	R1004110-004	10MB010	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
9	R1004110-005	10MB011	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
10	R1004110-006	10MB012	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
11	R1004110-007	10MB013	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
12	R1004110-009	10MB001	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
13	R1004110-010	10MB003	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
14	R1004110-011	10MB005	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
15	R1004110-012	10MB004	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
16	R1004110-013	10MB006	.08	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
17	R1004110-014	10MB015	.01	50mL	200.7/Ca T, Fe T, K T, Mg T, Mn T, Na T	<2			50.00mL	Colorless/Clear		
18	R1004141-001	OBLM20029	.01	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		IV
19	R1004141-002	OBLM20030	.01	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		
20	R1004141-003	OBLM20031	.01	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		
21	R1004141-004	OBLM20032	.01	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		
22	R1004141-005	OBLM20033	.02	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		
23	RQ1006608-05	R1004141-005 DUP	.02	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		
24	RQ1006608-06	R1004141-005 MS	.02	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear	0.0500 mL/14325; 0.2500 mL/18636; 0.5000 mL/18110; 0.5000 mL/18111	
25	R1004141-006	OBLM20034	.01	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		
26	R1004141-007	OBLM20035	.01	50mL	6010B/Cu T, Pb T	<2			50.00mL	Colorless/Clear		

Preparation Information Benchsheet

Prep Run#: 117216
Team: Metals/DKRAFTSCHIK

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3010A

Status: Prepped
Prep Date/Time: 8/11/10 02:33 PM

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	14325	Logbook Ref:	M1780101E	Expires On:	06/18/2011	Lot #: 0932008
Name:	Custom LCS STD A Metals	Inventory ID	18110	Logbook Ref:	M5280003N	Expires On:	05/20/2011	Lot #: 10E127
Name:	Custom LCS STD B Metals	Inventory ID	18111	Logbook Ref:	M5280003O	Expires On:	05/20/2011	Lot #: 10E127
Name:	Tin 1000 ug/mL Sn	Inventory ID	18636	Logbook Ref:	M5280004C	Expires On:	12/11/2011	Lot #: 09F131

Preparation Materials

1:1 HCl Metals Grade	1:1 HCl (15840)	Hot Block Cups	Hot Block Cups (15844)	Nitric Acid Metals Grade HNO3	M5280003P (18245)
Thermometer	287 (12953)				

Preparation Steps

Step: Digestion
Started: 8/11/10 14:33
Finished: 8/12/10 10:11
By: DKRAFTSCHIK

Comments: _____

Reviewed By: SDevito Date: 8/12/10 Spike Witness: SDEVITO Date: _____

Chain of Custody

Relinquished By: DK Date: 8/12/10 10:30

Received By: R-A01 Date: _____ Extracts Examined: Yes No

AXIAL OPTIMA #3 CALIBRATION STANDARD #1 / RADIAL OPTIMA #1 Calibration Standard #2 (Standard is prepared weekly or as necessary)

	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Cal Std. 1 Int.	AL	m5350138A	20.0	1.00	1000	0.020	2%HNO3	DCB 8/3/10	A	m5280003P	m5280005A	8/10/10	m15 m20
	AS		5.00			0.0050	5%HCl	DCB 8/11/10	B	m5280003P	m5280005A	8/18/10	m26 m18
	CD		1.00			0.0050	8/10 DCB		C				
	CO		3.00			0.0030			D				
	CR		1.00			0.0010			E				
	NI		5.00			0.0050			F				
	PB		5.00			0.0050			G				
	SE		5.00			0.0050			H				
	V		3.00			0.0030			I				
Cal Std. 1	CA	m5280003E	5000	0.100		0.500			J				
	K		5000			BELOW			K				
	MG		5000			0.500			L				
	NA		5000			0.500			M				
Single Element	BA	m1780096W	1000	0.020		0.020			N				
	CU	m1780096D	1000	0.010		0.010			O				
	K	m1780097F	10000	0.150		2.00			P				
	MN	m5280002G	1000	0.010		0.010			Q				
	MO	m1780101C	1000	0.025		0.025			R				
	SB	m5280003I	1000	0.010		0.010			S				
	TL	m1780097J	1000	0.010		0.010			T				
	ZN	m5280001AA	1000	0.010		0.010			U				
									V				
									W				
									X				
									Y				
									Z				

OPTIMA 5300DV (#3) / AXIAL (#~~2~~ 4) CALIBRATION STANDARD #4 / HLCCV1 (Standard is prepared weekly or as necessary)

(CALIBRATION STANDARD #2 IS A 1/100 DILUTION OF THIS STANDARD)
(CALIBRATION STANDARD #3 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Cal Std 1	CA	M52800003E	5000	2.00	200	50.0	2%HNO3 5%HCl	SD 7/30/10	A	M52800003P	M52800005A	8/6/10	M24
	MG		5000			50.0		DCB 8/6/10	B	m52800003P	m52800005A	8/13/10	m24
	K		5000			50.0		DCB 8/11/10	C	m52800003P	m52800005A	8/18/10	m24
	NA		5000			50.0			D				
Cal Std 2	AG	M52800003F	100	2.00		1.00			E				
	CR		100			1.00			F				
	MN		150			1.50			G				
	NI		400			4.00			H				
	ZN		200			2.00			I				
Cal Std 3	AL	M52800003G	2000	2.00		20.0			J				
	BA		2000			20.0			K				
	BE		50			0.500			L				
	CO		500			5.00			M				
	CU		250			2.50			N				
	FE		1000			10.0			O				
	V		500			5.00			P				
Cal Std 4	AS	M52800041	100	4.00		2.00			Q				
	CD		50			1.00			R				
	PB		50			1.00			S				
	SE		50			1.00			T				
	TL		100			2.00			U				
Single Metals	SB	M52800031	1000	2.00		10.0			V				
	SN	M52817801011P	1000	2.00		10.0			W				
	B	M17801011B	1000	1.00		5.00			X				
	MO	M17801011C	1000	1.00		5.00			Y				
	TI	M17801011D	1000	1.00		5.00			Z				
	SR	M52800016	1000	1.00		5.00			AA				

OPTIMA 5300DV (#3) / AXIAL (#2) ICV/CCV (Standard is prepared daily)

	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Pipet ID
Cal Std 1	CA	m5280003Q	5000	1.00	200	25.0	2%HNO3	DCA 8/12/10	A	m5280003P	m5280005A	m24 m23
	MG		5000			25.0	5%HCl	DCA 8/12/10	B	m5280003P	m5280005A	m24 m23
	K		5000			25.0			C			
	NA		5000			25.0			D			
Cal Std 2	AG	m5280003D	100	1.00		0.500			E			
	CR		100			0.500			F			
	MN		150			0.750			G			
	NI		400			2.00			H			
	ZN		200			1.00			I			
Cal Std 3	AL	m5280005C	2000	1.00		10.0			J			
	BA		2000			10.0			K			
	BE		50			0.250			L			
	CO		500			2.50			M			
	CU		250			1.25			N			
	FE		1000			5.00			O			
	V		500			2.50			P			
Cal Std 4	AS	m5280004X	100	2.00		1.00			Q			
	CD		50			0.500			R			
	PB		50			0.500			S			
	SE		50			0.500			T			
	TL		100			1.00			U			
Single Metals	SB	m1780101F	1000	1.00		5.00			V			
	SN	m5280004C	1000	1.00		5.00			W			
	B	m1780100A	1000	0.500		2.50			X			
	MO	m5280002S	1000	0.500		2.50			Y			
	TI	m1780100B	1000	0.500		2.50			Z			
	SR	m5280005G	1000	0.500		2.50			AA			

OPTIMA 5300DV (#3) - HLCCV2 (Standard is prepared weekly or as necessary)

	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Cal Std 2	AG	M5280003F	100	2.00	100	2.00	2%HNO3	SJ 7/30/10	A	M5280003P	M5280005A	8/13/10	1124 M26
	CR		100			Below	5%HCl	DCS 8/12/10	B	M5280003P	M5280005A	8/26/10	M26
	MN		150			Below			C				
	NI		400			8.00			D				
	ZN		200			4.00			E				
Cal Std 3	AL	M5280003G	2000	2.00		Below			F				
	BA		2000			40.0			G				
	BE		50			1.00			H				
	CO, V		500			10.0			I				
	CU		250			5.00			J				
	FE		1000			Below			K				
Cal Std 4	AS, TL	M5280004D	100	4.00		4.00			L				
	CD, SE		50			2.00			M				
	PB		50			Below			N				
Single Metals	B	M1780101B	1000	1.00		10.0			O				
	MO	M1780101C	1000	1.00		10.0			P				
	TI	M1780101D	1000	1.00		10.0			Q				
	SR	M5280001G	1000	1.00		10.0			R				
	CA	M5280002E	10000	2.50		250			S				
	MG	M5280002F	10000	5.00		500			T				
	NA	M5280004N	10000	1.00		100			U				
	CR	M1780101Q	1000	0.800		10.0			V				
	FE	M1780097V	10000	0.800		100			W				
	AL	M5280002T	10000	4.60		500			X				
	MN	M5280002G	1000	0.700		10.0			Y				
	PB	M5280004M	1000	0.800		10.0			Z				

OPTIMA 5300DV (#3) MRL

	METAL	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Exp. Date	Pipet ID
Cal #1	CA	MS2800035E	5000	0.200	1000	1.00	5% HCL 2%HNO3	SD 7/30/10	A	MS2800038P	MS2800035A	1/30/11	M11 HG4
	K		5000			1.00			B				
	MG		5000			1.00			C				
	NA		5000			1.00			D				
Cal #2	CR	MS2800035F	100	0.100		0.0100			E				
	AG		100			0.0100			F				
	MN		150			0.0150			G				
	ZN		200			0.0200			H				
	NI		400			0.0400			I				
Cal #3	AL	MS2800036	2000	0.100		0.200			J				
	BA		2000			0.200			K				
	FE		1000			0.100			L				
	CO		500			0.050			M				
	V		500			0.050			N				
	CU		250			0.025			O				
	BE		50			0.00500			P				
Cal #4	CD, PB, SE	MS2800034D	50	0.20		0.0100			Q				
	AS, TL		100			0.0200			R				
PQL #2	B	MS2800022D	200	1.00		0.200			T				
	MO		25			0.0250			U				
	SN		500			0.500			V				
	TI		50			0.050			W				
Single Stds	SB	MS2800031	1000	0.060		0.060			X				
	SR	MS2800016	1000	0.100		0.100			Y				
									Z				

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OPTIMA #3 ICSA STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix
Int. A Sol'n	m5280004A	Multi	50	1000	Multi	5% HCL
AL		5000	* 10	200	250	2%HNO3
CA		5000			250	* 15% HNO_3
FE		2000			100	
MG		5000			250	

Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
DCB 6/17/10	A	m5280002J	m5280002P	12/17/10	—
* DCB 6/23/10	B	m5280002J	—	12/23/10	—
DCB 7/15/10	C	m5280003P	m5280002P	1/15/11	—
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

OPTIMA #3 ICSAB STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Int. A Sol'n	m5280004 P	Multi	25	500	Multi	5 % HCl	DS 8/6/10	A	m5280003 P	m5280005A	2/6/11	–
AL		5000			250	2%HNO3		B				
CA		5000			250			C				
FE		2000			100			D				
MG		5000			250			E				
Int. B Sol'n	m5280004O	Multi	5		Multi			F				
AG		20			0.200			G				
BA		50			0.500			H				
BE		50			0.500			I				
CD		100			1.00			J				
CO		50			0.500			K				
CR		50			0.500			L				
CU		50			0.500			M				
MN		50			0.500			N				
NI		100			1.00			O				
PB		5			0.0500			P				
V		50			0.500			Q				
ZN		100			1.00			R				
AS		10			0.100			S				
SB		60			0.600			T				
SE		5			0.0500			U				
TL		10			0.100			V				

OPTIMA INTERNAL STANDARD (ADDED ON-LINE)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix
Y	M5280003J	10000	2.0	2000	10.0	5 % HCl 2%HNO3
CS	M5280003K SD 7/6/10	10000	2.0		10.0	

Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
6/29/10 DCB	A	M5280003P	M5280002P	12/29/10	M24
SD 7/6/10	B	M5280003P	M5280002P	1/6/11	M24
DCB 7/8/10	C	M5280003P	M5280002P	1/8/11	M24
DCB 7/14/10	D	M5280003P	M5280002P	1/14/11	M24
DCB 7/15/10	E	M5280003P	M5280002P	1/15/11	M24
DCB 7/20/10	F	M5280003P	M5280002P	1/20/11	M24
DCB 7/21/10	G	M5280003P	M5280002P	1/21/11	M24
DCB 7/23/10	H	M5280002P	M5280005A	1/23/11	M24
SD 7/27/10	I	M5280003P	M5280005A	1/27/11	M24
DCB 8/5/10	J	M5280003P	M5280005A	2/5/11	M24
DCB 8/5/10	K	M5280003P	M5280005A	2/5/11	M24
DCB 8/9/10	L	M5280003P	M5280005A	2/9/11	M24
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	V				

APPENDIX E

DATA VALIDATION

PROJECT NAME/NO. OB Grounds LTM Round 5
SDG: R1004141
FRACTION: metals (copper and lead)
LAB: CAS
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	No	Temp > 4° C	The cooler temperature was 6° 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 action was taken on elevated temperature since it was < 10° C.	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)	No	Cu > MDL but < RL	ICB analyzed for Copper and Lead and detected Cu (5.014 ug/L) but < RL (20 ug/L). CCB analyzed for Cu and Pb every ten samples, all samples were less than the reporting limits (i.e., IDLs) for Lead. Copper was detected in all the CCBs ranging from 3.22 ug/L to 9.367 ug/L, but was < RL. Qualify all project sample Copper results as U and raise to the CRDL. Copper or lead was not detected in the preparation blank. No rinsate blank was collected for this SDG.	Yes
Interference Check Sample	Yes		Met requirements (80-120%) for Copper and Lead.	No
CRQL Standard	Yes		Initial and final CRQL Check Standards had recoveries within 70-130% for copper and lead. No action was taken.	No
Laboratory Control Sample	Yes		LCS results within limits (i.e., 80-120%) for copper and lead, no action was taken.	No
Duplicates	YES		Laboratory duplicate analysis was conducted for OBLM20033. Copper or lead was not detected either in the sample or the sample duplicate. A field duplicate pair (OBLM20033 and OBLM20034) was collected for this SDG. Copper and lead were detected in the duplicate sample but not the parent sample. No action was taken since the absolute difference between the results was < CRDL.	No
Spike Sample Analysis	YES		Spike analysis was conducted for OBLM20033 and the spike results were within 75%-125% limits. Post digest spike results for OBLM20033 were also within the 75%-125% limits.	No
ICP Serial Dilution	YES		ICP serial dilution was conducted for OBLM20033. As copper or lead was not detected in the original sample above the reporting limts, no action was taken.	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