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Groundwater Sampling Report
(August 2012 Sampling Event)
Liberty Industrial Finishing Site
Site #1-52-108
Work Assignment No. D007626-17

Final

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1.0 Introduction

AECOM Technical Services Northeast, Inc (AECOM [formerly Earth Tech Northeast, Inc]) has prepared this Groundwater Monitoring Report for the Liberty Industrial Finishing Site in Brentwood, New York (Site No. 1-52-108). This work was performed for the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment D007626-17. Sampling rounds 1 through 5 were conducted by AECOM under Work Assignment D004445-14. As part of the long-term monitoring plan for the Site, groundwater samples are collected from selected monitoring wells once every five quarters. This groundwater monitoring report provides the results of the groundwater sampling data collected in August 2012.

Six rounds of groundwater sampling have been conducted at the Site since 2006 when long term monitoring began.

- The first round (Round 1) of sampling was conducted in June 2006.
- The second round (Round 2) of sampling was conducted in August 2007.
- The third round of sampling (Round 3) was conducted in November 2008.
- The fourth round (Round 4) of sampling conducted in March 2010.
- The fifth round (Round 5) of sampling was conducted in May 2011.
- The sixth round (Round 6) of sampling was conducted in August 2012.

This report focuses on the most recent (Round 6) sampling event at the site and includes the data from the earlier rounds.

2.0 Background Information

2.1 Site Description

The Liberty Industrial Finishing Superfund site is located at 550 Suffolk Avenue, Brentwood, Suffolk County, New York (see Figure 1).

The Site is approximately 3.9 acres in total area of which 1.3 acres are historically undeveloped. The remainder of the site consists of previously developed areas with remnants of the former building (concrete floor slab), walkways, parking lots, and driveway areas. The Site is located in an area that is primarily residential and light commercial. A Site location map is included as Figure 1.

The Site is bound to the north by Suffolk Avenue, to the east by commercial properties, to the south by the Long Island Rail Road (LIRR), and to the west by a gasoline retailer and a shopping plaza. The parcels immediately north of Suffolk Avenue are undeveloped. Immediately south of the LIRR are the Town of Islip Athletic fields and the water supply wells for the Brentwood Water District. The Brentwood municipal water supply wells are less than 500 feet south of the Site.

2.2 Site History

Liberty Industrial Finishing Products was a metal finishing facility engaged in finishing and plating of components used primarily in the aircraft industry. Metal finishing activities included passivation, phosphotization, electroplating, conversion coating, anodizing, painting, and non-destructive testing. Industrial operation of the facility spanned the period from 1978 through 1997. When active, the industrial operation at the Site included a 30,000-square foot factory building, six underground storage tanks (USTs) for plating process and wastewater, sanitary leaching pools, and stormwater drywells. The USTs were equipped with “emergency” overflow pipes that discharged to the on-site leaching pools.

Shortly after operations began at the Site, concerns for public health and the environment resulting from operational and waste handling practices at the Site were investigated by the Suffolk County Department of Health Services (SCDHS). In 1982, surface and subsurface discharges of waste water were addressed in an Order of Consent between Liberty and the SCDHS. Corrective actions were implemented to eliminate the discharge of industrial waste water to the environment and the order was reportedly satisfied.

An inspection conducted by NYSDEC in 1984 identified deficiencies in Site hygiene and waste handling practices. Samples were collected of the liquids in the sanitary leaching pool, the storm water dry well, and a soil sample was collected near the northeast corner of the building. These samples reportedly contained elevated concentrations of 1,1,1-trichloroethane (1,1,1-TCA), cadmium, chromium, and lead. The sanitary system and the storm water dry well were subsequently pumped out and cleaned (July 1985).

A Phase II Site Investigation was performed in 1987. The results of the investigation reported concentrations of chromium in the onsite groundwater at concentrations exceeding the Class GA groundwater criterion (NYSDEC Technical and Operational Guidance Series [TOGS] 1.1.1). The Site

was subsequently classified as a Class “2a” site on the Registry of Inactive Hazardous Waste Disposal Sites on December 12, 1987. Class “2a” was a temporary listing pending further investigation into the effects the site has on health and the environment. A Phase II Supplemental Site Investigation was performed in 1991. Chromium was reported in the on-site groundwater at concentrations ranging from 2,300 µg/l to 5,800 µg/L. Additionally, sediment/soil in the leaching pool contained elevated concentrations of cyanide (11,500 µg/L). An emergency remedial measure removed a total of 45 inches of sediment/soil from the bottom of the leaching pool (1992). As a result of the Phase II supplemental site investigation, the Site was reclassified as a Class “2” site on the Registry of Inactive Hazardous Waste Disposal Sites in February of 1994.

A Consent Order (March 1996) required that the facility conduct a Focused Remedial Investigation (FRI) to determine the extent of contamination within the six USTs and the emergency leaching pool. FRI activities were never implemented by Liberty Industrial Finishing due to financial constraints.

In 1997, Liberty Industrial Finishing removed waste materials from the on-site building. Wastes removed and disposed of include:

- cyanide plating waste;
- phosphates;
- copper strips;
- copper strip sludge;
- metal hydroxide sludge;
- cyanide salts;
- solutions containing chromium and cadmium;
- chromic acid;
- paint waste containing methyl ethyl ketone; and
- vapor degreaser waste containing trichloroethene.

Floors were swept and the material was drummed and disposed of as hazardous waste. Wood floors were removed from the factory building and stored onsite. Flooring was later disposed of by the USEPA as part of an Interim Remedial Action.

A Remedial Investigation (RI) was performed in 1997-1998 for NYSDEC by Dvirka and Bartilucci. Based on the RI, the NYSDEC conducted a supplemental Remedial Investigation/Feasibility Study (RI/FS) of the Site in 1997-1998. The results and conclusions of the supplemental RI/FS were documented in a report by Dvirka and Bartilucci dated September, 1999. Elevated concentrations of regulated metals, specifically chromium, were reported in excess of the applicable cleanup criteria in surface and subsurface soils, drainage structures, and on-site and off-site groundwater.

A Record of Decision (ROD) for the Site was issued by NYSDEC in March 1999. The ROD specified the site related contaminants of concern to include semivolatile organic compounds (phenol, benzo(k)anthracene, chrysene, and benzo(a)pyrene) in the sediment/sludge from the stormwater dry wells and metals (cadmium, chromium, copper, nickel, and zinc) in all media.

The ROD specified the following remedial goals for the Site:

- Eliminate sources of contamination that exceed cleanup criteria: such as, surface soil, subsurface soil, and stormwater drywell or sanitary leaching pool sediments;
- Eliminate, to the extent practicable, ingestion of Groundwater affected by the Site that does not meet the NYSDEC Class GA Ambient Water Quality Criteria;
- Mitigate potential impacts to the environment from contaminated groundwater by natural attenuation; and,
- Eliminate the potential for direct human contact with contaminated soil onsite.

To achieve the goals of the ROD remedial measures were performed. These measures included:

- Clean-out of sediments in the stormwater and sanitary leaching galleries;
- Removal of on-site hazardous wastes;
- Delineation, excavation and disposal of on-site and off-site impacted soils;
- Cleaning and closure in place of USTs and associated piping;
- Placement of impermeable asphalt cap over USTs and associated piping;
- Demolition and removal of the building;
- Installation of perimeter security fence; and,
- Installation and periodic sampling of groundwater monitoring wells to assess groundwater quality.

The United States Environmental Protection Agency (USEPA) conducted an emergency removal action including the removal of waste materials stored in the on-site factory building and the in-place closure of six USTs. Each tank was cleaned and sandblasted, filled to one foot below top with clean soil, and the remaining space (including fill pipes) was plugged with concrete. The tanks were not removed due to the close proximity of the LIRR; however, UST in-place closure was determined to be equally protective of human health and the environment. A non-porous asphalt cap was constructed over the UST area to mitigate infiltration of precipitation into the contaminant source area (Figure 2).

All of the removal and in-place closure measures specified in the ROD were completed in September 2001. The results of these remedial actions were reported in the Final Remediation Report (Dvirka and Bartilucci, July 2002). The remedial actions performed at the site have effectively achieved the goals of the ROD with respect to mitigation of potential impacts to human health and the environment from on-site soils and sediment. These measures excavated and removed impacted soil and sediments to concentrations below applicable cleanup criteria or prevented the infiltration of precipitation through impacted media where excavation was deemed impractical.

The natural attenuation of site related dissolved phase COCs would be evaluated by the periodic sampling and analysis of eight groundwater monitoring wells (Figure 2). Two of the wells (MW-5 and MW-6) are located on site, two of the wells (MW-18 and MW-19) are located in the Brentwood Water District well field, two wells (MW-12 and MW-14) are located immediately downgradient of the COC source area plume, and two wells (MW-21 and MW-20) are located near the leading edge of the dissolved COC plume.

2.3 Deviations from the Sampling and Analysis Plan

For the Round 5 and 6 sampling events, NYSDEC requested the addition of six monitoring wells to the sampling program. These wells included MW-1, MW-2, MW-3, and MW-4 which were located along the fence line in the southeast corner of the property. Monitoring wells MW-10 and MW-16 were also added. This well cluster is located in the municipal ball fields approximately 100 feet south of the former underground storage tanks. MW-1 was found to be dry during both sampling events and a sample was not collected.

A second change to the sampling protocol for Rounds 5 and 6 was the collection of both filtered and unfiltered metals samples at each location.

For the Round 6 sampling event, NYSDEC requested that all groundwater samples be collected using low-flow techniques instead of the volumetric purge technique utilized during the first five long term monitoring sampling events.

3.0 Field Activities

The monitoring well survey information could not be located at the start of this project. As a part of this long-term monitoring program, each of the eight wells included in the sampling program were re-surveyed by YEC, Inc., a licensed New York State surveyor on March 21, 2007. A summary of well construction data is presented on Table 1.

The sixth round of groundwater sampling at the Liberty Industrial Finishing Site occurred on August 20 through 23, 2012. Sampling was conducted in accordance with the Sampling and Analysis Plan (SAP) prepared by Earth Tech Northeast, Inc. (now AECOM), dated June 2007. The SAP is comprised of the Field Sampling Plan (FSP), the Quality Assurance Project Plan (QAPP) and the Safe Work Plan (SWP). All field work was performed in Level D personal protection.

3.1 Water Level Survey

Prior to the start of sampling, water levels were measured in each well to provide a synoptic event. Groundwater level measurements were recorded in the Field Notebook and on the Well Sampling Forms included in Appendix A. NYSDEC Monitoring Well Field Inspection Forms were completed for each well and are included in Appendix B. A summary of groundwater elevation measurements for all sampling events since 2006 is provided in Table 2. Each location was photo-documented and a hand-held global positioning system (GPS) unit was used to record the coordinates. The total depth of each of the eight wells also varies significantly from 49.3 to 265 feet (ft). The groundwater elevation data are shown on Figure 3. As shown on the figure, the water table elevations across the entire study area varied less than 1.0-ft. Groundwater generally flows to the south, which is consistent with previous investigations.

A groundwater hydrograph is presented in Figure 4. As shown on the figure, the groundwater elevations are very consistent from sampling event to sampling, generally rising and falling in unison. The one exception to this trend is MW-19. Of the six synoptic measuring events since 2006, four events have placed the elevation at MW-19 as the lowest elevation, while the other two rank as the highest reading for the event. MW-19 is screened in the Magothy Formation at a depth of 248 ft below ground surface (bgs). This fluctuation could be the result of pumping in the nearby Suffolk County Water Authority municipal well.

3.2 August 2012 Groundwater Sampling Event

Eight monitoring wells were identified for long term monitoring at the Site. The selected wells included MW-5, MW-6, MW-12, MW-14, MW-18, MW-19, MW-20, and MW-21. As part of the fifth sampling event, NYSDEC requested the addition of six monitoring wells in the sampling event: MW-1, MW-2, MW-3, MW-4, and well pair MW-10/MW-16. MW-1 was dry at the time of sampling during rounds 5 and 6. Well locations are shown on Figure 2.

During previous sampling events, a Grundfos Redi-Flo2 submersible electric pump was used to purge at least three casing volumes of water prior to sampling. Groundwater samples were then collected using a Teflon bailer.

During the Round 6 sampling event, groundwater samples were collected using low-flow techniques. A peristaltic pump with poly discharge tubing was used to purge each monitoring well. An in-line flow cell was used to collect measurements of pH, specific conductance, temperature, dissolved oxygen, oxygen reduction potential, and turbidity. The measurements were recorded on the Well Sampling Forms at five minute intervals during purging. Samples were collected after the field measurements had stabilized. The sample was collected into laboratory supplied containers and stored in an ice-filled cooler. During this round, filtered metals samples were also collected. Groundwater samples were filtered in the field using dedicated, disposable 0.45-micron filters. Filtered groundwater samples were then poured into laboratory-supplied containers and placed in an ice-filled cooler. The samples were then transported to Spectrum Analytical (formerly Mitkem Laboratory) via laboratory courier. Proper chain-of-custody procedures and requirements were maintained throughout the sampling event in accordance with the QAPP.

4.0 Sampling Results

The samples from monitoring wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-10, MW-12, MW-14, MW-16, MW-18, MW-19, MW-20, and MW-21 were labeled with the L- prefix to denote they were collected from the Liberty site. Groundwater samples were analyzed for target analyte list (TAL) metals using USEPA Method 6010/7470. The analyses were performed by Spectrum Analytical (formerly Mitkem Laboratory) of Warwick, Rhode Island, a NYSDOH ELAP certified laboratory (ELAP certification number 11522). The Mitkem data summary packages are included in Appendix C. A table showing the full data set is also included in Appendix C. A summary of the detections is presented in Table 3. The exceedances are also shown on Figure 5. The data are discussed in Sections 4.1 and 4.2, below.

In accordance with project plans, formal data validation was not performed. However, an AECOM chemist provided a limited review of the data packages. The review of the Round 5 data is presented in Section 4.3.

4.1 Metals Data

Concentrations of ten metals have been detected above the Class GA criterion in monitoring wells at the Site at least once during the six sampling events. These metals include antimony, cadmium, chromium, copper, iron, lead, manganese, selenium, sodium and thallium.

Antimony – Class GA criterion of 3 µg/L

June 2006 – Detected in six of eight monitoring wells, two exceedances, maximum concentration of 3.7 µg/L in MW-5.

August 2007 – Detected in five of eight monitoring wells, five exceedances, maximum concentration of 11.2 µg/L in MW-12.

November 2009 – Detected in one of eight monitoring wells, MW-18, which exceeded the criterion at 9 µg/L.

March 2010 – Detected in three of eight monitoring wells, three exceedances, maximum concentration of 13.9 µg/L in MW-12.

May 2011 – Not detected in any of the 13 monitoring well samples (filtered or unfiltered samples).

August 2012 – Detected in one of 13 monitoring wells, one exceedance, 11.9 µg/L in MW-21D.

Cadmium – Class GA criterion of 5 µg/L

June 2006 – Detected in six of eight monitoring wells, no exceedances.

August 2007 – Detected in all eight monitoring wells, three exceedances, maximum concentration of 12.6 µg/L in MW-6.

November 2008 – Detected in six of eight monitoring wells, two exceedances, maximum concentration of 59.1 µg/L in MW-14.

March 2010 – Detected in four of eight monitoring wells, two exceedances, maximum concentration of 205 µg/L in MW-12.

May 2011 – Detected in nine of 13 unfiltered samples, seven exceedances, maximum concentration of 54.8 µg/L in MW-12. Detected in nine of 13 filtered samples, four exceedances, maximum concentration of 19.8 in MW-4.

August 2012 – Detected in eight of 13 unfiltered samples, four exceedances, maximum concentration of 36.1 µg/L in MW-10. Detected in six of 13 filtered samples, three exceedances, maximum concentration of 34.9 µg/L in MW-10.

Chromium – Class GA criterion of 50 µg/L

June 2006 – Detected in all eight monitoring wells, one exceedance, 95.8 µg/L in MW-14.

August 2007 – Detected in all eight monitoring wells, one exceedance, 248 µg/L in MW-14.

November 2008 – Detected in six of eight monitoring wells, one exceedance, 69.6 µg/L in MW-14.

March 2010 – Detected in all eight monitoring wells, two exceedances, maximum concentration of 251 µg/L in MW-12.

May 2011 – Detected in all 13 unfiltered samples, six exceedances, maximum concentration of 176 µg/L in MW-4. Detected in 11 of 13 filtered samples, two exceedances, maximum concentration of 142 µg/L in MW-4.

August 2012 – Detected in all 13 unfiltered samples, maximum concentration of 152 µg/L in MW-10. Detected in ten of 13 filtered samples, maximum concentration of 155 µg/L in MW-10.

Copper – Class GA criterion of 200 µg/L

June 2006 – Detected in five of eight monitoring wells, no exceedances.

August 2007 – Detected in all eight monitoring wells, no exceedances.

November 2008 – Detected in four of eight monitoring wells, no exceedances.

March 2010 – Detected in six of eight monitoring wells, one exceedance, 377 µg/L in MW-12.

May 2011 – Detected in nine of 13 unfiltered samples, no exceedances. Detected in three of 13 filtered samples, no exceedances.

August 2012 – Detected in eight of 13 unfiltered samples, no exceedances. Detected in five of 13 filtered samples, no exceedances.

Iron – Class GA criterion of 300 µg/L

June 2006 – Detected in all eight monitoring wells, three exceedances, maximum concentration of 1,710 µg/L in MW-20.

August 2007 – Detected in all eight monitoring wells, six exceedances, maximum concentration of 10,900 µg/L in MW-12.

November 2008 – Detected in six of eight monitoring wells, three exceedances, maximum concentration of 9,320 µg/L in MW-14.

March 2010 – Detected in all eight monitoring wells, five exceedances, maximum concentration of 38,100 µg/L in MW-12.

May 2011 – Detected in 12 of 13 unfiltered samples, six exceedances, maximum concentration of 11,300 µg/L in MW-12. Detected in six of 13 filtered samples, two exceedances, maximum concentration of 1,620 in MW-12.

August 2012 – Detected in 12 of 13 unfiltered samples, nine exceedances, maximum concentration of 2,000 µg/L in MW-4. Detected in six of 13 filtered samples. Maximum concentration of 1,180 in MW-14.

Lead – Class GA criterion of 25 µg/L

June 2006 – Detected in four of eight monitoring wells, no exceedances.

August 2007 – Detected in all eight monitoring wells, one exceedance, 106 µg/L in MW-12.

November 2008 – Detected in four of eight monitoring wells, two exceedances, 221 µg/L in MW-14.

March 2010 – Detected in five of eight monitoring wells, two exceedances, maximum concentration of 553 µg/L in MW-12.

May 2011 – Detected in four of 13 unfiltered samples, two exceedances, maximum concentration of 230 µg/L in MW-12. Not detected in any of the 13 filtered samples.

August 2012 – Detected in two of 13 unfiltered samples, no exceedances. Detected in two of 13 filtered samples, no exceedances.

Manganese – Class GA criterion of 300 µg/L

June 2006 – Detected in all eight monitoring wells, no exceedances.

August 2007 – Detected in all eight monitoring wells, one exceedance, 547 µg/L in MW-18.

November 2008 – Detected in six of eight monitoring wells, one exceedance, 627 µg/L in MW-21.

March 2010 – Detected in all eight monitoring wells, one exceedance, 312 µg/L in MW-18.

May 2011 – Detected in ten of 13 unfiltered samples, two exceedances, maximum concentration of 597 µg/L in MW-16. Detected in six of 13 filtered samples, two exceedances, maximum concentration of 623 µg/L in MW-12.

August 2012 – Detected in ten of 13 unfiltered samples, one exceedance, 661 µg/L in MW-16. Detected in six of 13 filtered samples, two exceedances, maximum concentration of 632 µg/L in MW-16.

Selenium – Class GA criterion of 10 µg/L

June 2006 – Detected in four of eight monitoring wells, no exceedances.

August 2007 – Detected in two of eight monitoring wells, no exceedances.

November 2008 – Not detected in any of the eight monitoring wells.

March 2010 – Detected in one of eight monitoring wells, one exceedance, 13.4 µg/K in MW-12.

May 2011 – Not detected in any of the 13 unfiltered or filtered samples.

August 2012 – Not detected in any of the 13 unfiltered or filtered samples.*Sodium – Class GA criterion of 20,000 µg/L*

June 2006 – Detected in all eight monitoring wells, four exceedances, maximum concentration of 31,900 in MW-14.

August 2007 – Detected in all eight monitoring wells, four exceedances, maximum concentration of 31,100 µg/L in MW-20.

November 2008 – Detected in all eight monitoring wells, four exceedances, maximum concentration of 561,000 µg/L in MW-14.

March 2010 – Detected in all eight monitoring wells, two exceedances, maximum concentration of 39,600 µg/L in MW-2.

May 2011 – Detected in all 13 unfiltered samples, six exceedances, maximum concentration of 38,400 µg/L in MW-20. Detected in all 13 filtered samples, six exceedances, maximum concentration of 40,300 µg/L in MW-20.

August 2012 – detected in all 13 unfiltered samples, four exceedances, maximum concentration of 30,800 in MW-3. Detected in all 13 filtered samples, four exceedances, maximum concentration of 31,000 in MW-3.

Thallium – Class GA criterion of 0.50 µg/L

June 2006 – Not detected in any of the eight monitoring wells.

August 2007 – Detected in two of eight monitoring wells, two exceedances, maximum concentration of 3.4 µg/L in MW-14.

November 2008 – Not detected in any of the eight monitoring wells.

March 2010 – Not detected in any of the eight monitoring wells.

May 2011 – Not detected in any of the 13 unfiltered or filtered samples.

August 2012 – Not detected in any of the 13 unfiltered or filtered samples.

4.2 Filtered versus Unfiltered Metals Samples

Over the years, concentrations of total metals in groundwater samples at the Site tended to be highly variable between different sampling events, as did field measurements of turbidity at time of sample collection. Turbidity is typically correlated with the presence of suspended matter (e.g., entrained soil particles in the sample). Therefore, in Round 6 (August 2012) total metals (unfiltered) and dissolved metals (field filtered) groundwater samples were collected to evaluate the effect of turbidity on the metals concentrations.

The NYSDEC turbidity criterion is 50 nephelometric turbidity units (NTU) or less for well development and groundwater sampling (TAGM 4015; NYSDEC, 1988). At the Liberty Industrial Finishing Site, the turbidity was below 50 NTU at time of sampling in all 13 samples, ranging from 0 to 43.2 NTU (see the bottom row of Table 4). The turbidity was less than 10 NTU in seven samples and above 25 NTU in six samples. The total metals concentrations was expected to be higher in the more turbid samples with only small differences between the total metals and dissolved metals concentrations in samples with low turbidity. As all the Round 6 samples at the Site could be considered 'low turbidity' (i.e., all

samples met the NYSDEC criterion of 50 NTU or less), it is somewhat difficult to evaluate differences among the samples with no clear relationship between turbidity as measured in the field, and metals concentrations in the unfiltered samples.

Table 4 presents a comparison of the total metals and the dissolved metals data for the 13 filtered/unfiltered sample pairs collected at the Liberty Site. The “percent dissolved” shown on the table is the ratio of the filtered sample concentration to the total (unfiltered) sample concentration. In order to calculate a value where a metal was not detected in the filtered sample, a value of “0” is used on the table (rather than “ND”).

Concentrations of metals that typically exist primarily in the dissolved phase (sodium, potassium, and calcium) are not expected to be affected by filtering. Note also that depending on the redox conditions, magnesium may also be generally found in only the dissolved form. Hence the two samples (filtered and unfiltered) should essentially act as field duplicate samples for these parameters, and the concentrations in the filtered/unfiltered pairs would be expected to be very similar (e.g., the filtered/unfiltered ratio is close 100% +/- 10%). The filtered/unfiltered pairs for these four compounds were generally similar in the filtered and unfiltered samples indicating good reproducibility in the sampling/analytic process, with two exceptions. In the MW-12 pairings the concentrations of calcium and magnesium were greater than 200%, while the ratio for potassium was only 68%. In MW-14 the ratios for calcium and magnesium were less than 50%, with the ratio for potassium was 139%. The reproducibility, as exhibited by the dissolved metals pairings for these two wells, was poor. An examination of the metals generally associated with particles provided further information for explaining these results for MW-12 and MW-14.

Most of the other metals are expected to be generally associated with solid particles. Therefore it would be expected that the concentration in the filtered samples would range from similar to the unfiltered samples (for those wells with very low turbidity), to significantly lower for those wells with high turbidity (as long as the concentration are sufficiently higher than the detection for an accurate comparison). This is the case for all well samples except for wells MW-12 and MW-14, and MW 18. In MW-12 zinc was 172% higher in the filtered sample. In MW-14, copper, chromium, iron, and nickel were all much higher in the filtered sample, while the filtered/unfiltered ratio for zinc was only 45%. In MW-18 two metals (i.e., aluminum and iron) were detected at relatively high concentrations in the filtered sample but not the unfiltered.

There is no clear geochemical explanation for seeing differences between the filtered/unfiltered pairings for the dissolved metals, nor for having higher particle associated metals in the filtered. The laboratory quality assurance/quality control descriptions do not identify a major issue in the actual analyses. However, a comparison of the individual results between the two wells (MW-12 and MW-14) strongly suggests that at some point in the sampling/analytical process two of the four sample containers for the wells were switched. The comparison of the results of MW-12 with MW 14F, and MW-14 with MW12F, indicate very good agreement consistent with expected results. However, it is not possible to confirm which of these four sets of results are correct, and so the results from MW-12 and MW-14 should be viewed with caution. In the same manner, it is likely that the filtered and unfiltered sample containers at MW-18 may have been switched explaining the reversed ratios for aluminum and iron, although since these two samples are from the same well, the significance of any uncertainty is minimal.

4.3 Round 6 (August 2012) Data Quality Review

In accordance with the project plans, data generated for this investigation were not subject to formal validation. However, AECOM's quality assurance officer (QAO) reviewed the data for reasonableness and the presence of any anomalies, including issues identified by the laboratory in the case narrative, and other items noted in review of shipping and handling documentation, inconsistencies with previous data, and review of the laboratory QA forms. The QAO also reviewed the field duplicate data.

Filtered and unfiltered groundwater samples were collected from 13 monitoring wells on August 20, 21, and 23 and received in good condition by the laboratory (Spectrum Analytical [formerly Mitkem], Warwick RI) on August 24 (samples collected August 20 and 21) and August 23, 2012 (samples collected August 23), although the laboratory noted that there were no custody seals on the cooler. Samples were analyzed for target analyte list (TAL) metals as sample delivery groups (SDGs) L1807 (unfiltered samples) and L1808 (filtered samples). One field equipment blank was collected for both the filtered (FB-F) and unfiltered (FB-U) samples. Samples LMW-2F and LMW-12F (unfiltered) and LMW-5 and LMW-2 (unfiltered) were designated as the QC samples (spike and duplicate analysis), for the Round 6 sampling event.

Laboratory QC limits were met for initial and continuing calibrations, blanks, laboratory control sample (LCS) recovery, post-digestion spikes, and laboratory duplicate precision. Serial dilutions criteria were not met for, potassium, in SDG L1807 sample LMW-5 and calcium, iron, and sodium in LMW-2. , All other laboratory QC criteria were met for SDGs L1807 and L1808. No unusual occurrences were noted by the laboratory during the analysis of samples from either SDG.

One filtered/unfiltered site-specific field duplicate groundwater sample pair (LMW-5U and 5F/LMW-55U and 55F) was collected from the Liberty site in Round 5. Precision for the field duplicates (see Table 4) was very good. In the unfiltered sample pair (LMW-5U/LMW-55U), relative percent difference (RPD) ranged from 1.1 to 4.3 percent, with a median RPD of 2.8 percent, for 7 metals with results above the contract required detection limit. . Precision was very good in the filtered duplicate pair (5F/55F) for the 7 metals with results above the contract required detection limit, with RPDs ranging from 0.2 to 2.2 percent.

The filtered/unfiltered data pairs (see Table 4) were reviewed for anomalies, using the USEPA Region II metals validation criteria (USEPA HW-2, revision 13; USEPA, 2006). Based on these criteria, if the dissolved (filtered sample) result exceeds the total (unfiltered) sample by more than 20 percent, the accuracy of the quantitation is suspect and both samples should be flagged (J) as estimated. If the filtered sample result exceeds the unfiltered sample result by more than 50 percent, the data is considered unusable and both samples should be flagged as rejected (R). As discussed above, it appears the in the sample sets of MW-12 (U and F) and MW-14 (U and F), and in the pair MW-16 (U and F) that sample bottles were switched and those data should be considered estimated).

5.0 Summary and Recommendations for Future Site Remediation Activities

5.1 Summary of Groundwater Sampling Data

Based on a review of the data from the six sampling events, concentrations of antimony, cadmium, chromium, copper, iron, lead, manganese, selenium, sodium, and thallium were detected at concentrations above their Class GA criteria. Based on the August 2012 sample results, the following metals exceeded Class GA criteria in unfiltered samples: cadmium (three wells), chromium (four wells), iron (eight wells), manganese (one well), and sodium (four wells). The following metals exceeded the Class GA criteria in filtered samples: antimony (one well), cadmium (three wells), chromium (four wells), iron (two wells), manganese (two wells) and sodium (four wells).

Iron, manganese and sodium are naturally occurring metals in groundwater on Long Island. The exceedances of these metals most likely represent background conditions and are not related to previous site activities.

Antimony was detected in one of the Round 6 (August 2012) samples (including recently added monitoring wells MW-2, MW-3, MW-4, MW-10 and MW-16). Antimony has been detected in six wells at the Site during the previous six sampling events. Exceedances have been sporadic with no obvious trends noted in any of the wells. Antimony does not appear to be a contaminant of concern at the Site.

Figure 6 shows the cadmium concentrations in each well during the six sampling events. Cadmium was detected in the majority of the samples collected during the six sampling events (42 out of 58 unfiltered samples through six rounds of sampling and in 15 of 26 filtered samples in two rounds of sampling). However, there were only three exceedances in Round 2, two exceedances in Round 3, two exceedances in Round 4, seven unfiltered exceedances in Round 5 (four filtered exceedances) and three unfiltered exceedances in Round 6 (three filtered exceedances). There do not appear to be any trends in cadmium concentrations. An isoconcentration map of the cadmium plume is shown on Figure 7. The filtered cadmium concentrations from the August 2012 sampling event (shallow wells) were used to draw the isoconcentration lines. The leading edge of the cadmium plume is near the MW-12/MW-14 well cluster, a similar position to that found during the Round 5 sampling event in May 2011.

Figure 8 shows the chromium concentrations in each well during the six sampling events. Chromium has been detected in the majority of samples analyzed from six sampling events (56 of 58 unfiltered samples and 21 of 26 filtered samples). However there were only five exceedances (Class GA criterion of 50 µg/L) during the first four sampling rounds, four of which were in MW-14 with concentrations ranging from 68.6 µg/L to 248 µg/L. During Rounds 5 and 6, unfiltered chromium concentrations exceeded the criterion in four of the five newly added wells (MW-2, MW-3, MW-4 and MW-10) and three filtered samples from the five newly added wells (MW-3, MW-4 and MW-10). Chromium exceedances appear to be limited to monitoring wells MW-4, MW-10 and MW-14. As the filtered chromium concentrations at MW-12 (paired shallow well with deep well MW-14) were not detected, it appears that the dissolved chromium plume is sinking as it leaves the site. Concentrations

at deep well MW-21, located downgradient of MW-14 are still significantly below the criterion. There does appear to be a general upward trend in concentration over the last six sampling events.

Copper was detected in the majority of samples collected during the six sampling events (40 of 58 unfiltered samples, eight of 26 filtered samples). However, the only exceedance was at MW-12 during Round 4. Copper does not appear to be a contaminant of concern at the site.

Lead was detected in 27 of 58 unfiltered samples collected at the Site during the six sampling events. During Round 5, lead was detected in four unfiltered samples and two of these exceeded the criterion; however, lead was not detected in any of the filtered samples collected during Round 5. During Round 6, lead was detected in three wells but there no exceedances, unfiltered or filtered. There have only been seven exceedances of the 25 µg/L criterion, four of which have occurred at MW-12 with concentrations ranging from 106 µg/L to 553 µg/L. Lead concentrations also exceeded the criterion at MW-14 during Rounds 3 and 4 (221 µg/L and 76.5 µg/L). Lead does not appear to be a contaminant of concern at the Site.

Selenium was detected in seven of 58 unfiltered samples collected at the Site during the six sampling events (not detected in any of the 26 Round 5 and 6 filtered samples). MW-12 was the only monitoring well where selenium was detected twice (Rounds 1 and 4) and the only monitoring well where the concentration, 13.4 µg/L, exceeded the 10 µg/L criterion. As this appears to be an isolated occurrence, selenium is not considered to be a contaminant of concern at the Site.

Thallium was only detected twice during the six sampling events. Both occurrences were above the criterion. As these appear to be isolated occurrences, thallium is not considered to be a contaminant of concern at the Site.

5.2 Recommendations for Future Work

Cadmium was detected above the Class GA criterion of 5 µg/L in three monitoring well samples during the August 2007 sampling event, two samples during the November 2008 sampling event, three samples during the March 2010 event, seven unfiltered samples during the May 2011 event (four filtered samples) and three unfiltered samples during the August 2012 event (three filtered samples). Only one well, MW-12, has had five exceedances during the six sampling events. AECOM recommends continued sampling to verify the concentrations.

Chromium exceeded the Class GA criterion of 50 µg/L in one monitoring well, MW-14, during all six sampling events (51.3 µg/L to 248 µg/L). Chromium concentrations in the adjacent monitoring well MW-12 (screened approximately 50 ft higher in the aquifer) were below the Class GA criterion during the first three sampling events but was anomalously high during Round 4 (251 µg/L). Chromium was not detected in either Round 5 or 6 filtered samples. Chromium was also present in four of five newly added monitoring wells (MW-2, MW-3, MW-4 and MW-10). Continued sampling of these wells is recommended to determine if the contamination is migrating downgradient (MW-21) or to the deeper portions of the aquifer (MW-20).

Collect and analyze paired filtered/unfiltered groundwater sample for metals analysis from all wells sampled in the next event. The filtered sample data will be useful to determine if the dissolved metals data is more reproducible over time than the total metals data; and the evaluation of filtered to unfiltered data on another data set will be useful in determining if the observations during Round 5 were anomalous, or are representative of site conditions.

Collect samples for total suspended solids (TSS) and total dissolved solids (TDS) from some or all of the wells during the next event. The TSS data will be useful in evaluating the degree of correlation between sample turbidity and the reduction in metals concentrations in the filtered samples. TDS data will be useful as a cross-check on the total metals concentrations between the total metals and dissolved metals data; and as a check on the representativeness of the filtered and unfiltered samples.

The next scheduled sampling event at the Liberty Site is November 2013.

Tables

TABLE 1
LIBERTY INDUSTRIAL FINISHING SITE (1-25-108)
WELL CONSTRUCTION DATA

Well Number	Northing	Easting	Ground Elevation	Top of Riser Elevation	Top of Casing Elevation	Total Depth of Well
MW-1	202,384.57	2,206,633.80	92.92	92.70	92.92	42.5
MW-2	202,371.27	2,206,596.31	92.87	92.4	92.87	54.2
MW-3	202,360.99	2,206,568.43	93.08	92.38	93.08	53.9
MW-4	202,344.02	2,206,522.24	93.09	92.74	93.09	53.4
MW-5	202,308.86	2,206,350.98	92.19	93.32	93.60	50.0
MW-6	202,306.77	2,206,341.15	92.09	92.71	92.79	265.0
MW-10	202,243.14	2,206,590.12	91.84	91.53	91.84	50.0
MW-12	201,973.43	2,206,863.98	91.08	89.59	89.79	49.3
MW-14	201,966.33	2,206,866.03	91.12	89.55	89.77	100.0
MW-16	202,243.14	2,206,611.76	91.97	91.61	91.97	99.2
MW-18	202,101.70	2,206,373.86	93.14	91.55	92.03	150.0
MW-19	202,102.30	2,206,386.65	93.32	91.98	92.19	248.0
MW-20	201,798.92	2,206,946.09	90.27	88.59	89.08	149.5
MW-21	201,798.35	2,206,950.31	90.33	88.66	89.15	110.5

All elevations and depths in feet

Field survey performed by YEC, Inc., on March 23, 2007

(monitoring wells MW-1, 2, 3, 10 and 16 were not surveyed in 2007 as these wells were not included in the sampling at that time, these coordinates are estimated)

Horizontal datum: NAD 1927 State Plan

Vertical datum: NAVD 88, for NGVD 29, add 1.13 feet

TABLE 2
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
GROUNDWATER ELEVATIONS

Well # (screen interval)	Reference Elevation (ft, NGVD)	Total Depth of Well (ft)	Date	Depth To Water (ft)	Water Table Elevation (ft, NGVD)	Comments
MW-1 (shallow)	92.70		5/24/11 8/21/12	dry dry	NA NA	No water was observed in the well No water was observed in the well
MW-2 (shallow)	92.40	54.2	5/24/11 8/21/12	42.91 44.05	49.49 48.35	
MW-3 (shallow)	92.38	53.9	5/24/11 8/21/12	42.90 44.00	49.48 48.38	
MW-4 (shallow)	92.74	53.4	5/24/11 8/21/12	43.25 44.36	49.49 48.38	
MW-5 (shallow)	93.23	50.0	6/12/06 8/21/07 11/13/08 3/10/10 5/23/11 8/21/12	42.24 43.11 45.40 43.37 44.92 45.99	50.99 50.12 47.83 49.86 48.31 47.24	
MW-6 (Magothy)	92.71	265.0	6/12/06 8/21/07 11/13/08 3/10/10 5/23/11 8/21/12	42.19 43.15 45.23 43.12 44.76 45.70	50.52 49.56 47.48 49.59 47.95 47.01	
MW-10 (shallow)	91.53	50.0	5/24/11 8/21/12	42.12 43.18	49.41 48.35	
MW-12 (shallow)	89.59	49.3	6/14/06 8/24/07 11/13/08 12/23/08 3/10/10 5/24/11 8/21/12	39.09 39.95 42.25 41.81 40.07 41.69 42.75	50.50 49.64 47.34 47.78 49.52 47.90 46.84	
MW-14 (deep)	89.55	100.0	6/14/06 8/24/07 11/13/08 12/23/08 3/10/10 5/24/11 8/21/12	39.13 40.00 42.35 41.98 40.18 41.82 42.86	50.42 49.55 47.20 47.57 49.37 47.73 46.69	

TABLE 2
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
GROUNDWATER ELEVATIONS

Well # (screen interval)	Reference Elevation (ft, NGVD)	Total Depth of Well (ft)	Date	Depth To Water (ft)	Water Table Elevation (ft, NGVD)	Comments
MW-16 (deep)	91.61	99.2	5/24/11 8/21/12	42.03 43.41	49.58 48.20	
MW-18 (very deep)	91.55	150.0	6/22/06 8/21/07 11/13/08 3/10/10 5/24/11 8/21/12	40.76 41.25 43.80 41.82 43.41 44.47	50.79 50.30 47.75 49.73 48.14 47.08	
MW-19 (Magothy)	91.98	265.0	6/22/06 8/21/07 11/13/08 3/10/10 5/24/11 8/21/12	41.95 41.60 43.90 42.78 44.39 45.51	50.03 50.38 48.08 49.20 47.59 46.47	
MW-20 (very deep)	88.59	149.5	6/14/06 8/21/07 11/13/08 3/10/10 5/24/11 8/21/12	38.29 39.18 41.20 39.30 40.95 41.99	50.30 49.41 47.39 49.29 47.64 46.60	
MW-21 (deep)	88.66	110.5	6/14/06 8/21/07 11/13/08 3/10/10 5/24/11 5/24/11	38.30 39.20 41.47 39.31 40.94 41.97	50.36 49.46 47.19 49.35 47.72 46.69	

All measurements were taken from the top of PVC casing

Well Screen Interval

Shallow - 50 ft bgs

Deep - 100 ft bgs

Very deep - 150 ft bgs

Magothy - 250 ft bgs

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3
Sample ID	Class GA	LMW-2	LMW-2	LMW-2	LMW-2F	LMW-3	LMW-3	LMW-3	LMW-3F
Laboratory ID	Ground	K0943-11	K0943-12	L1807-12	L1808-12	K0943-13	K0943-14	L1807-13	L1808-13
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	5/26/11	5/26/11	8/23/12	8/23/12
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	118 B	ND	602	ND	346	ND	360	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	44.6 B	44.9 B	39.5 B	31.9 B	19.1 B	18.1 B	28.9 B	27.9 B
Beryllium	3	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	5	8.5	5.5	3.5 B	2.7 B	6.6	4.6 B	3.0 B	2.8 B
Calcium	NC	16,300	16,700	20,400	21,500	16,900	16,800	28,600	29,400
Chromium	50	51.9	48.2	26.7	12.0 B	59.6	32.6	118	103
Cobalt	NC	ND	ND	ND	ND	ND	ND	ND	ND
Copper	200	24 B	ND	14.4 B	4.2 B	45.5	11.7 B	14.2 B	6.5 B
Iron	300	205	ND	853	ND	462	ND	414	45.4 B
Lead	25	ND	ND	ND	ND	14.1	ND	ND	ND
Magnesium	35,000	3,180	3,250	3,720	3,870	2710	2,760	5,100	5,180
Manganese	300	ND	ND	17.7 B	ND	11.8 B	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	5.5 B	2.7 B	4.6 B	3.3 B	6.7 B	4.3 B	3.8 B	3.4 B
Potassium	NC	2,720	2,610	1,710 E	1,660	1,950	1,770	2,560 E	2,480
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	21,300	22,400	21,400	22,900	12,400	13,200	30,800	31,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	ND	1.4 B	ND	1.4 B	ND	1.1 B	ND
Zinc	2,000	29.2 B	24.8 B	51.0	26.1 B	54.9	40.4 B	19.6 B	19.3 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-4	MW-4	MW-4	MW-4	
Sample ID	Class GA	LMW-4	LMW-4	LMW-4	LMW-4F	
Laboratory ID	Ground	K0943-15	K0943-16	L1807-14	L1808-14	
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	
		conc.	conc. Q	conc. Q	conc. Q	
Aluminum	NC	2,560	ND	1,980	1,130	
Antimony	3	ND	ND	ND	ND	
Arsenic	25	4.8 B	ND	6.4 B	ND	
Barium	1,000	27.1 B	13.2 B	22.8 B	21.6 B	
Beryllium	3	ND	ND	ND	ND	
Cadmium	5	54.2	19.8	28.2	27.3	
Calcium	NC	14,200	12,300	18,700	19,600	
Chromium	50	176	142	74.9	58.7	
Cobalt	NC	3.3 B	2.6 B	0.73 B	ND	
Copper	200	137	43.5	69.7	58.9	
Iron	300	2,660	109 B	2,000	1,110	
Lead	25	43.2	ND	15.5	9.8 B	
Magnesium	35,000	1,710	1,270	2,770	2,870	
Manganese	300	47.1 B	12.3 B	18.4 B	14.4 B	
Mercury	0.7	0.036 B	ND	ND	ND	
Nickel	100	43.5 B	12.8 B	17.5 B	15.8 B	
Potassium	NC	6,600	6,790	2,340 E	2,460	
Selenium	10	ND	ND	ND	ND	
Silver	50	ND	ND	ND	ND	
Sodium	20,000	26,100	29,100	13,400	14,400	
Thallium	0.50	ND	ND	ND	ND	
Vanadium	NC	7.0 B	1.2 B	4.9 B	3.2 B	
Zinc	2,000	630	109	257	220	

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Sample ID	Class GA	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5	LMW-5F
Laboratory ID	Ground	E0833-01A	F1192-04A	G2136-07A	J0429-01A	K0919-02	K0919-01	L1807-01	L1808-01
Sample Date	Water	6/12/06	8/23/07	11/14/08	3/8/10	5/23/11	5/23/11	8/20/12	8/20/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	238	157 B	ND	87.5 BE	ND	ND	245	157 B
Antimony	3	3.7 B	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	2.2 B	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	49.3 B	50.0 B	45.7 B	49.4 B	9 B	8.3 B	56.9 B	60.4 B
Beryllium	3	ND	ND	ND	0.089 B	ND	ND	ND	ND
Cadmium	5	0.13 B	0.51 B	ND	ND	ND	ND	ND	ND
Calcium	NC	19,000	15,000	16,900	14,100	6,280	5400	17,800	18,600
Chromium	50	18.2 B	42.2	7.3 B	29.0	1.8 B	0.88 B	1.7 B	1.5 B
Cobalt	NC	0.67 B	1.4 B	ND	ND	ND	ND	ND	ND
Copper	200	23.8 B	10.9 B	ND	ND	ND	ND	ND	ND
Iron	300	198 B	122 B	ND	107 BN	151 BN	54.3 BN	52.4 B	ND
Lead	25	1.3 B	3.4 B	ND	ND	ND	ND	ND	ND
Magnesium	35,000	2,040 E	1,870	2,040	1,830	2,370	2,140	3,210	3,390
Manganese	300	15.1 B	13.7 B	6.8 B	16.5 B	10.4 B	ND	68.2	67.4
Mercury	0.7	ND	ND	ND	0.056 B	ND	ND	ND	ND
Nickel	100	3.3 B	1.1 B	ND	1.2 B	2.5 B	1.3 B	2.3 B	2.9 B
Potassium	NC	4,330	4,500	4,380	4,740	627 B	613 B	5,410 E	5,440
Selenium	10	ND	7.4 B	ND	ND	ND	ND	ND	ND
Silver	50	ND	4.0 B	ND	ND	ND	ND	ND	ND
Sodium	20,000	4,460	7,800	7,570	6,570	8,000	7,420	18,100	19,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.59 B	ND	ND	ND	ND	ND	ND
Zinc	2,000	29.1 B	18.4 B	13.7 B	15.2 B	27.9 B	24.5 B	10.5 B	10.3 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
Sample ID	Class GA	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6	LMW-6F
Laboratory ID	Ground	E0833-02A	F1192-09A	G2136-06A	J0429-03A	K0919-04	K0919-03	L1807-03	L1808-03
Sample Date	Water	6/12/06	8/24/07	11/14/08	3/8/10	5/23/11	5/23/11	8/20/12	8/20/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	ND	398	ND	50.2 BE	ND	ND	488	ND
Antimony	3	3.1 B	8.0 B	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	24.9 B	29.6 B	15.7 B	11.3 B	34.4 B	33.9 B	14.4 B	2.7 B
Beryllium	3	ND	ND	ND	0.062 B	ND	ND	ND	ND
Cadmium	5	ND	12.6	0.55 B	0.62 B	ND	ND	ND	ND
Calcium	NC	9,880	10,000	8,300	6,120	19,500	20,000	7,700	7,750
Chromium	50	0.79 B	28.7	ND	1.9 B	15.7 B	14.7 B	2.1 B	ND
Cobalt	NC	0.31 B	2.2 B	ND	ND	ND	ND	0.86 B	ND
Copper	200	15.6 B	31.3	ND	5.6 B	ND	ND	4.0 B	ND
Iron	300	45.2 B	3,120	147 B	137 BN	ND	ND	338	39.8 B
Lead	25	ND	15.8	ND	ND	ND	ND	ND	ND
Magnesium	35,000	2,980 E	2,630	2,590	1,970	2,190	2,240	3,180	3,180
Manganese	300	5.9 B	60.9	40.8 B	11.4 B	ND	ND	21.8 B	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	3.6 B	12.3 B	2.2 B	1.9 B	ND	ND	2.4 B	2.0 B
Potassium	NC	759 B	1,390	2,060	1,180	3,500	3,530	753 B	552 B
Selenium	10	1.6 B	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	10,100	9,950	11,600	7,660	7,760	7,890	10,000	10,300
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	2.0 B	ND	ND	ND	ND	ND	ND
Zinc	2,000	24.8 B	118	21.9 B	25.4 B	16.6 B	18.8 B	12.4 B	7.9 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-10	MW-10	MW-10	MW-10	MW-16	MW-16	MW-16	MW-16
Sample ID	Class GA	LMW-10	LMW-10	LMW-10	LMW-10F	LMW-16	LMW-16	LMW-16	LMW-16F
Laboratory ID	Ground	K0943-03	K0943-04	L1807-10	L1808-10	K0943-09	K0943-10	L1807-11	L1808-11
Sample Date	Water	5/26/11	5/26/11	8/23/12	8/23/12	5/26/11	5/26/11	8/23/12	8/23/12
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	101 B	ND	159 B	ND	1,150	586	340	322
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	35.0 B	32.5 B	28.7 B	28.1 B	299	351	339	339
Beryllium	3	ND	ND	ND	ND	2.0 B	1.8 B	0.7 B	0.72 B
Cadmium	5	10.3	11.3	36.1	34.9	5.3	4.9 B	4.2 B	4.3 B
Calcium	NC	18,700	18,700	25,900	26,000	9,240	9,890	12,100	11,700
Chromium	50	72.7	89.3	152	155	11.7 B	8.9 B	2.8 B	2.3 B
Cobalt	NC	ND	ND	ND	ND	ND	ND	ND	ND
Copper	200	ND	ND	ND	ND	9.4 B	11.3 B	66.6	63.0
Iron	300	245	ND	391	ND	115 B	ND	49.9 B	ND
Lead	25	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	35,000	3,700	3,590	3,640	3,650	2,350	2,570	3,740	3,680
Manganese	300	16.8 B	ND	18.9 B	ND	597	623	661	632
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	1.6 B	0.91 B	3.5 B	3.5 B	13.9 B	14.1 B	11.8 B	12.0 B
Potassium	NC	2,380	2,530	4,810 E	4,770	4,930	4,880	6,010 E	5,860
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	17,100	19,300	14,800	14,900	14,700	14,500	13,900	13,500
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	2,000	27.1 B	21.7 B	ND	ND	67.5	69	34.2 B	33.2 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Sample ID	Class GA	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12	LMW-12F
Laboratory ID	Ground	E0833-03A	F1192-05A	G2415-01	J0429-04A	K0919-06	K0919-05	L1807-06	L1808-06
Sample Date	Water	6/14/06	8/24/07	12/23/08	3/9/10	5/24/11	5/24/11	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	445	9,070	2,260	33,600 E	12,000	ND	1,560	ND
Antimony	3	1.8 B	11.2 B	ND	13.9 B	ND	ND	ND	ND
Arsenic	25	ND	3.3 B	ND	14.2 B	5.1 B	ND	ND	ND
Barium	1,000	45.2 B	75.4 B	60.5 B	188 B	88.9 B	28.1 B	44.6 B	48.2 B
Beryllium	3	0.38 B	0.24 B	0.19 B	2.1 B	0.79 B	ND	ND	ND
Cadmium	5	0.52 B	5.6	25.5	205	54.8	4.5 B	4.4 B	9.3
Calcium	NC	13,100	26,900	19,700	29,900	23,300	18,700	10,900	28,900
Chromium	50	2.5 B	37.5	18.9 B	251	72.8	ND	103	ND
Cobalt	NC	0.63 B	5.5 B	2.6 B	12.8 B	4.1 B	ND	ND	ND
Copper	200	14.9 B	85.3	63.5	377	147	ND	10.6 B	ND
Iron	300	467	10,900	4,080	38,100 N	11,300 N	1,620 N	1,740	39.0 B
Lead	25	7.7 B	106	83.7	553	230	ND	19.4	ND
Magnesium	35,000	3,710 E	6,830	4,330	10,900	5,760	3,310	2,540	5,600
Manganese	300	77.3	96.9	82.7	253	77.6	37.3 B	211	ND
Mercury	0.7	ND	ND	ND	0.54	ND	ND	ND	ND
Nickel	100	3.4 B	12.4 B	14.9 B	57.1	18.5 B	1.9 B	6.4 B	2.0 B
Potassium	NC	2,280	2,700	2,540	3,810	3,670	2,870	4,350 E	2,970
Selenium	10	2.6 B	ND	ND	13.4 B	ND	ND	ND	ND
Silver	50	ND	ND	7.6 B	ND	ND	ND	ND	ND
Sodium	20,000	11,700	13,400	27,100	33,600	8,250	7,660	15,400	16,200
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	0.77 B	28.8 B	8.6 B	89.7	33 B	1.5 B	3.9 B	ND
Zinc	2,000	26.1 B	246	220	1,280	488	52.1	32.5 B	55.9

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
Sample ID	Class GA	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14	LMW-14F
Laboratory ID	Ground	E0833-04A	F1192-06A	G2415-02	J0429-05A	K0919-08	K0919-07	L1807-07	L1808-07
Sample Date	Water	6/14/06	8/24/07	12/23/08	3/9/10	5/24/11	5/24/11	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	780	314	7,090	4,830 E	652	ND	314	954
Antimony	3	1.5 B	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	5.6 B	6.0 B	5.6 B	ND	ND	ND
Barium	1,000	40.5 B	31.5 B	162 B	107 B	57.1 B	50.4 B	47.2 B	43.3 B
Beryllium	3	ND	ND	0.38 B	0.28 B	ND	ND	ND	ND
Cadmium	5	4.9 B	1.5 B	59.1	26	9.2	7.6	9.3	3.7 B
Calcium	NC	13,100	12,900	35,800	18,700	18,300	18,400	28,100	10,900
Chromium	50	95.8	248	69.6	68.6	51.3	29.6	2.4 B	88.2
Cobalt	NC	2.0 B	1.2 B	5.1 B	2.7 B	0.72 B	ND	ND	ND
Copper	200	22.2 B	8.9 B	110	42.8	13.6 B	ND	5.0 B	7.2 B
Iron	300	728	389	9,320	14,000 N	1,780 N	1,430 N	279	1,180
Lead	25	2.9 B	3.4 B	221	76.5	18.8	ND	ND	13.2
Magnesium	35,000	1,610 E	3,000	6,340	2,910	3,840	3,700	5,450	2,470
Manganese	300	35.3 B	21.2 B	231	186	260	235	ND	211
Mercury	0.7	ND	ND	ND	0.1 B	ND	ND	ND	ND
Nickel	100	7.5 B	4.4 B	53.2	18.3 B	11.8 B	8.7 B	1.1 B	6.1 B
Potassium	NC	3,320	4,140	7,090	1,670	4,430	4,570	2,990 E	4,170
Selenium	10	ND	6.7 B	ND	ND	ND	ND	ND	ND
Silver	50	ND	3.2 B	4.3 B	ND	ND	ND	ND	ND
Sodium	20,000	31,900	28,900	561,000	25,400	20,400	20,300	15,400	15,400
Thallium	0.50	ND	3.4 B	ND	ND	ND	ND	ND	ND
Vanadium	NC	0.58 B	0.51 B	22.5 B	12.6 B	2.4 B	ND	1.9 B	2.3 B
Zinc	2,000	40.1 B	27.5 B	520	279	99.1	70.1	56.3	25.5 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Sample ID	Class GA	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18	LMW-18F
Laboratory ID	Ground	E0868-14A	F1192-08A	G2136-02A	J0429-06A	K0919-10	K0919-09	L1807-04	L1808-04
Sample Date	Water	6/22/06	8/24/07	11/13/08	3/10/10	5/24/11	5/24/11	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	135 B	252	196 B	716 E	193 B	ND	ND	164 B
Antimony	3	ND	ND	9.0 B	5.2 B	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	74.8 B	92.5 B	86.4 B	103 B	101 B	104 B	61.3 B	64.8 B
Beryllium	3	ND	ND	ND	0.12 B	ND	ND	ND	ND
Cadmium	5	0.33 B	1.3 B	0.92 B	0.86 B	3.0 B	2.9 B	ND	ND
Calcium	NC	12,800	15,500	13,500	18,900	21,100	21,900	15,800	15,700
Chromium	50	3.3 B	2.1 B	5.4 B	6.5 B	3.1 B	2.3 B	1.9 B	3.1 B
Cobalt	NC	0.48 B	1.3 B	ND	1.0 B	ND	ND	ND	ND
Copper	200	ND	8.1 B	11.0 B	9.8 B	6.9 B	ND	ND	ND
Iron	300	212	308	307	731 N	327 N	ND	ND	277
Lead	25	ND	3.0 B	2.5 B	3.9 B	ND	ND	ND	ND
Magnesium	35,000	5,440	5,430	4,960	4,460	4,380	4,560	3,720	3,650
Manganese	300	169	547	122	312	521	421	39.1 B	539
Mercury	0.7	ND	ND	ND	0.057 B	ND	ND	ND	ND
Nickel	100	1.4 B	3.1 B	3.2 B	6.5 B	3.4 B	2.4 B	ND	1.5 B
Potassium	NC	10,800	7,290	10,200	13,500	11,500	12,500	9,220 E	8,720
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	4.0 B	1.6 B	ND	ND	ND	ND	ND
Sodium	20,000	30,000	26,700	29,600	30,000	28,400	30,200	26,600	26,000
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.66 B	ND	0.63 B	ND	ND	ND	ND
Zinc	2,000	25.0 B	34.8 B	86.7	57.8	37.2 B	33.8 B	16.0 B	8.0 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Sample ID	Class GA	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19	LMW-19F
Laboratory ID	Ground	E0868-15A	F1192-07A	G2136-01A	J0429-07A	K0919-12	K0919-11	L1807-05	L1808-05
Sample Date	Water	6/22/06	8/24/07	11/13/08	3/10/10	5/24/11	5/24/11	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	53.4 B	74.9 B	ND	69.9 BE	ND	ND	ND	ND
Antimony	3	ND	6.7 B	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	14.2 B	21.5 B	20.0 B	18.7 B	13.0 B	12.6 B	11.5 B	9.5 B
Beryllium	3	ND	ND	ND	0.046 B	ND	ND	ND	ND
Cadmium	5	1.1 B	8.0	ND	2.7 B	ND	2.4 B	ND	ND
Calcium	NC	9,900	13,000	9,700	11,500	11,600	11,700	10,600	10,100
Chromium	50	1 B	2.0 B	ND	1.8 B	0.94 B	ND	0.81 B	ND
Cobalt	NC	ND	1.2 B	ND	ND	ND	ND	ND	ND
Copper	200	ND	11.7 B	ND	ND	ND	ND	ND	ND
Iron	300	54.2 B	221	ND	234 N	40.1 BN	ND	32.8 B	ND
Lead	25	ND	4.1 B	ND	ND	ND	ND	ND	ND
Magnesium	35,000	3,180	4,600	3,970	4,350	4,460	4,480	4,130	3,920
Manganese	300	3.5 B	9.3 B	14.9 B	8.0 B	ND	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	ND	2.9 B	ND	0.96 B	ND	ND	ND	ND
Potassium	NC	816 B	949 B	947 B	1,070	993 B	1,120	890 B	867 B
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	3.3 B	1.1 B	ND	ND	ND	ND	ND
Sodium	20,000	10,200	14,400	13,400	14,900	14,600	14,600	14,500	13,700
Thallium	0.50	ND	2.9 B	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	2,000	42.8 B	48.1 B	30.5 B	47.0 B	28.0 B	28.2 B	ND	ND

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Sample ID	Class GA	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20	LMW-20F
Laboratory ID	Ground	E0833-05A	F1192-03A	G2136-04A	J0429-08A	K0943-05	K0943-06	L1807-09	L1808-09
Sample Date	Water	6/14/06	8/22/07	11/13/08	3/9/10	5/26/11	5/26/11	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	223	299	81.6 B	404 E	303	ND	411	ND
Antimony	3	1.7 B	9.5 B	ND	4.4 B	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	38.9 B	57.8 B	48.8 B	35.0 B	27.0 B	25.4 B	42.1 B	40 B
Beryllium	3	ND	ND	ND	0.057 B	ND	ND	ND	ND
Cadmium	5	1 B	0.45 B	0.74 B	ND	ND	ND	ND	ND
Calcium	NC	13,200	20,600	4,420	9,050	7,700	7,870	17,400	16,900
Chromium	50	4.6 B	3.1 B	2.1 B	5.1 B	5.1 B	1.1 B	2.0 B	0.91 B
Cobalt	NC	0.92 B	2.5 B	ND	1.1 B	1.2 B	0.93 B	ND	ND
Copper	200	13.6 B	8.7 B	ND	5.7 B	6.0 B	ND	ND	ND
Iron	300	1,710	624	164 B	1,370 N	879	71.7 B	398	ND
Lead	25	1.5 B	3.7 B	ND	4.9 B	ND	ND	ND	ND
Magnesium	35,000	6,050 E	9,820	3,400	4,400	3,790	3,870	8,990	8,870
Manganese	300	27.8 B	60.5	35.0 B	27.1 B	17.5 B	ND	23.2 B	ND
Mercury	0.7	ND	ND	ND	0.064 B	ND	ND	ND	ND
Nickel	100	4.6 B	2.4 B	1.8 B	3.5 B	1.8 B	ND	ND	1.0 B
Potassium	NC	2,050	2,220	8,190	1,970	2,430	2,060	1,840 E	1,710
Selenium	10	1.1 B	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	5.2 B	0.6 B	ND	ND	ND	ND	ND
Sodium	20,000	21,800	31,100	29,700	39,600	38,400	40,300	21,700	21,400
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	0.48 B	1.6 B	ND	1.2 B	ND	ND	ND	ND
Zinc	2,000	48.7 B	32.8 B	28.5 B	187	52.5	29.7 B	ND	ND

Notes:

All values in µg/L

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ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

N - Spike recovery outside control limits

TABLE 3
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
Sample ID	Class GA	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21	LMW-21F
Laboratory ID	Ground	E0833-06A	F1192-01A	G2136-05A	J0429-09A	K0943-07	K0943-08	L1807-08	L1808-08
Sample Date	Water	6/14/06	8/22/07	11/14/08	3/9/10	5/26/11	5/26/11	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc.	conc. Q	conc. Q	conc. Q
Aluminum	NC	ND	197 B	457	793 E	319	ND	746	ND
Antimony	3	1.9 B	6.7 B	ND	ND	ND	ND	ND	11.9 B
Arsenic	25	2.2 B	ND	ND	ND	4.3 B	ND	ND	ND
Barium	1,000	79.3 B	60.9 B	58.2 B	119 B	78.8 B	76.2 B	92.6 B	85.9 B
Beryllium	3	ND	ND	ND	0.16 B	ND	ND	ND	ND
Cadmium	5	ND	1.5 B	4.8 B	1.1 B	1.2 B	ND	ND	ND
Calcium	NC	7,520	5,190	11,900	12,600	17,000	16,900	14,300	14,200
Chromium	50	0.94 B	3.0 B	2.3 B	9.0 B	6.2 B	3.3 B	13.2 B	10.6 B
Cobalt	NC	0.48 B	1.5 B	ND	1.5 B	ND	ND	ND	ND
Copper	200	ND	13.7 B	6.6 B	8.2 B	8.5 B	ND	3.9 B	ND
Iron	300	31.4 B	503	198 B	1,840 N	694	32 B	1,330	ND
Lead	25	ND	4.5 B	2.6 B	8.2 B	ND	ND	ND	ND
Magnesium	35,000	5,440 E	3,320	2,960	8,380	6,960	7,240	6,050	5,820
Manganese	300	26.4 B	51.8	627	57.7	36.1 B	19.7 B	96.1	56.7
Mercury	0.7	ND	ND	ND	0.058 B	ND	ND	ND	ND
Nickel	100	1.9 B	2.4 B	6.9 B	4.9 B	3.3 B	1.3 B	2.8 B	2.4 B
Potassium	NC	5,670	6,350	6,250	12,700	12,500	9,270	7,500 E	7,050
Selenium	10	4.1 B	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	24,500	27,200	19,200	31,800	24,300	21,700	19,700	19,400
Thallium	0.50	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.063 B	ND	2.1 B	1.5 B	ND	1.8 B	ND
Zinc	2,000	14.2 B	40.5 B	69.1	67.6	65.1	30.5 B	15.5 B	6.0 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

ND - Not Detected

B - Estimated value

BOLD/Italics - Exceeds criterion

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N - Spike recovery outside control limits

TABLE 4
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT

COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4
Sample ID	Class GA	LMW-2	LMW-2F		LMW-3	LMW-3F		LMW-4	LMW-4F	
Laboratory ID	Ground	L1807-12	L1808-12		L1807-13	L1808-13		L1807-14	L1808-14	
Sample Date	Water	8/23/12	8/23/12		8/23/12	8/23/12		8/23/12	8/23/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Dissolved	Unfiltered	Filtered	Dissolved	Unfiltered	Filtered	Dissolved
		conc. Q	conc. Q		conc. Q	conc. Q		conc. Q	conc. Q	
Aluminum	NC	602	ND	NC	360	ND	NC	1,980	1,130	57.1%
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC	6.4 B	ND	NC
Barium	1,000	39.5 B	31.9 B	80.8%	28.9 B	27.9 B	96.5%	22.8 B	21.6 B	94.7%
Beryllium	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Cadmium	5	3.5 B	2.7 B	77.1%	3.0 B	2.8 B	93.3%	28.2	27.3	96.8%
Calcium	NC	20,400	21,500	105.4%	28,600	29,400	102.8%	18,700	19,600	104.8%
Chromium	50	26.7	12 B	44.9%	118	103	87.3%	74.9	58.7	78.4%
Cobalt	NC	ND	ND	NC	ND	ND	NC	0.73 B	ND	NC
Copper	200	14.4 B	4.2 B	29.2%	14.2 B	6.5 B	45.8%	69.7	58.9	84.5%
Iron	300	853	ND	NC	414	45.4 B	11.0%	2,000	1110	55.5%
Lead	25	ND	ND	NC	ND	ND	NC	15.5	9.8 B	63.2%
Magnesium	35,000	3,720	3,870	104.0%	5100	5,180	101.6%	2,770	2,870	103.6%
Manganese	300	17.7 B	ND	NC	ND	ND	NC	18.4 B	14.4 B	78.3%
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	4.6 B	3.3 B	71.7%	3.8 B	3.4 B	89.5%	17.5 B	15.8 B	90.3%
Potassium	NC	1,710 E	1,660	97.1%	2,560 E	2,480	96.9%	2,340 E	2,460	105.1%
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	21,400	22,900	107.0%	30,800	31,000	100.6%	13,400	14,400	107.5%
Thallium	0.50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	1.4 B	ND	NC	1.1 B	ND	NC	4.9 B	3.2 B	65.3%
Zinc	2,000	51.0	26.1 B	51.2%	19.6 B	19.3 B	98.5%	257	220	85.6%
Turbidity (NTU)		5.2			37.1			35.5		

Notes: E - Estimated value due to interference
B - Estimated value
ND - Not Detected
BOLD/Italics - Exceeds criterion

All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable

TABLE 4
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT

COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-10	MW-10	MW-10
Sample ID	Class GA	LMW-5	LMW-5F		LMW-6	LMW-6F		LMW-10	LMW-10F	
Laboratory ID	Ground	L1807-01	L1808-01		L1807-03	L1808-03		L1807-10	L1808-10	
Sample Date	Water	8/20/12	8/20/12		8/20/12	8/20/12		8/23/12	8/23/12	
Filtered/Unfiltered	Criteria	Unfiltered conc. Q	Filtered conc. Q	Dissolved	Unfiltered conc. Q	Filtered conc. Q	Dissolved	Unfiltered conc. Q	Filtered conc. Q	Dissolved
Aluminum	NC	245	157 B	64.1%	488	ND	NC	159 B	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Barium	1,000	56.9 B	60.4 B	106.2%	14.4 B	2.7 B	18.8%	28.7 B	28.1 B	97.9%
Beryllium	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	ND	ND	NC	36.1	34.9	96.7%
Calcium	NC	17,800	18600	104.5%	7,700	7,750	100.6%	25,900	26,000	100.4%
Chromium	50	1.7 B	1.5 B	88.2%	2.1 B	ND	NC	152	155	102.0%
Cobalt	NC	ND	ND	NC	0.86 B	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	4 B	ND	NC	ND	ND	NC
Iron	300	52.4 B	ND	NC	338	39.8 B	11.8%	391	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Magnesium	35,000	3,210	3,390	105.6%	3,180	3,180	100.0%	3,640	3,650	100.3%
Manganese	300	68.2	67.4	98.8%	21.8 B	ND	NC	18.9 B	ND	NC
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	2.3 B	2.9 B	126.1%	2.4 B	2 B	83.3%	3.5 B	3.5 B	100.0%
Potassium	NC	5,410 E	5440	100.6%	753 B	552 B	73.3%	4,810 E	4,770	99.2%
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	18,100	19,000	105.0%	10,000	10,300	103.0%	14,800	14,900	100.7%
Thallium	0.50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	10.5 B	10.3 B	98.1%	12.4 B	7.9 B	63.7%	ND	ND	NC
Turbidity (NTU)		0.0			0.0			0.0		

Notes: E - Estimated value due to interference
B - Estimated value
ND - Not Detected
BOLD/Italics - Exceeds criterion

All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable

TABLE 4
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT

COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-14	MW-14	MW-14	MW-16	MW-16	MW-16
Sample ID	Class GA	LMW-12	LMW-12F		LMW-14	LMW-14F		LMW-16	LMW-16F	
Laboratory ID	Ground	L1807-06	L1808-06		L1807-07	L1808-07		L1807-11	L1808-11	
Sample Date	Water	8/21/12	8/21/12		8/21/12	8/21/12		8/23/12	8/23/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Dissolved	Unfiltered	Filtered	Dissolved	Unfiltered	Filtered	Dissolved
		conc. Q	conc. Q		conc. Q	conc. Q		conc. Q	conc. Q	
Aluminum	NC	1,560	ND	NC	314	954	303.8%	340	322	94.7%
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Barium	1,000	44.6 B	48.2 B	108.1%	47.2 B	43.3 B	91.7%	339	339	100.0%
Beryllium	3	ND	ND	NC	ND	ND	NC	0.7 B	0.72 B	102.9%
Cadmium	5	4.4 B	9.3	211.4%	9.3	3.7 B	39.8%	4.2 B	4.3 B	102.4%
Calcium	NC	10,900	28,900	265.1%	28,100	10,900	38.8%	12,100	11,700	96.7%
Chromium	50	103	ND	NC	2.4 B	88.2	3675%	2.8 B	2.3 B	82.1%
Cobalt	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Copper	200	10.6 B	ND	NC	5.0 B	7.2 B	144.0%	66.6	63.0	94.6%
Iron	300	1,740	39 B	2.2%	279	1,180	422.9%	49.9 B	ND	NC
Lead	25	19.4	ND	NC	ND	13.2	NC	ND	ND	NC
Magnesium	35,000	2,540	5,600	220.5%	5,450	2,470	45.3%	3,740	3,680	98.4%
Manganese	300	211	ND	NC	ND	211	NC	661	632	95.6%
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	6.4 B	2 B	31.3%	1.1 B	6.1 B	554.5%	11.8 B	12.0 B	101.7%
Potassium	NC	4,350 E	2,970	68.3%	2,990 E	4,170	139.5%	6,010 E	5,860	97.5%
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	15,400	16,200	105.2%	15,400	15,400	100.0%	13,900	13,500	97.1%
Thallium	0.50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	3.9 B	ND	NC	1.9 B	2.3 B	121.1%	ND	ND	NC
Zinc	2,000	32.5 B	55.9	172.0%	56.3	25.5 B	45.3%	34.2 B	33.2 B	97.1%
Turbidity (NTU)		27.9			43.2			0.0		

Notes: E - Estimated value due to interference
B - Estimated value
ND - Not Detected
BOLD/Italics - Exceeds criterion

All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable

TABLE 4
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT

COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER

Sample Location	NYSDEC	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19
Sample ID	Class GA	LMW-18	LMW-18F		LMW-19	LMW-19F	
Laboratory ID	Ground	L1807-04	L1808-04		L1807-05	L1808-05	
Sample Date	Water	8/21/12	8/21/12		8/21/12	8/21/12	
Filtered/Unfiltered	Criteria	Unfiltered conc. Q	Filtered conc. Q	Dissolved	Unfiltered conc. Q	Filtered conc. Q	Dissolved
Aluminum	NC	ND	164 B	NC	ND	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	61.3 B	64.8 B	105.7%	11.5 B	9.5 B	82.6%
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	ND	ND	NC
Calcium	NC	15,800	15,700	99.4%	10,600	10,100	95.3%
Chromium	50	1.9 B	3.1 B	163.2%	0.81 B	ND	NC
Cobalt	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC
Iron	300	ND	277	NC	32.8 B	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC
Magnesium	35,000	3,720	3,650	98.1%	4,130	3,920	94.9%
Manganese	300	39.1 B	539	1379%	ND	ND	NC
Mercury	0.7	ND	ND	NC	ND	ND	NC
Nickel	100	ND	1.5 B	NC	ND	ND	NC
Potassium	NC	9,220 E	8,720	94.6%	890 B	867 B	97.4%
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	26,600	26,000	97.7%	14,500	13,700	94.5%
Thallium	0.50	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	16.0 B	8.0 B	50.0%	ND	ND	NC
Turbidity (NTU)		0.0			30.0		

Notes:

E - Estimated value due to interference

B - Estimated value

ND - Not Detected

BOLD/Italics - Exceeds criterion

All values except turbidity are in micrograms per

% Dissolved = filtered conc. / unfiltered conc.

NC - No NYSDEC criterion or Not Calculable

TABLE 4
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT
COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER

Sample Location	NYSDEC	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21
Sample ID	Class GA	LMW-20	LMW-20F		LMW-21	LMW-21F	
Laboratory ID	Ground	L1807-09	L1808-09		L1807-08	L1808-08	
Sample Date	Water	8/21/12	8/21/12		8/21/12	8/21/12	
Filtered/Unfiltered	Criteria	Filtered	Unfiltered		Filtered	Unfiltered	
		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	411	ND	NC	746	ND	NC
Antimony	3	ND	ND	NC	ND	11.9 B	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	42.1 B	40.0 B	95.0%	92.6 B	85.9 B	92.8%
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	ND	ND	NC
Calcium	NC	17,400	16,900	97.1%	14,300	14,200	99.3%
Chromium	50	2.0 B	0.91 B	45.5%	13.2 B	10.6 B	80.3%
Cobalt	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	3.9 B	ND	NC
Iron	300	398	ND	NC	1,330	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC
Magnesium	35,000	8,990	8,870	98.7%	6,050	5,820	96.2%
Manganese	300	23.2 B	ND	NC	96.1	56.7	59.0%
Mercury	0.7	ND	ND	NC	ND	ND	NC
Nickel	100	ND	1 B	NC	2.8 B	2.4 B	85.7%
Potassium	NC	1,840 E	1,710	92.9%	7,500 E	7,050	94.0%
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	21,700	21,400	98.6%	19,700	19,400	98.5%
Thallium	0.50	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	1.8 B	ND	NC
Zinc	2,000	ND	ND	NC	15.5 B	6.0 B	38.7%
Turbidity (NTU)		5.3			38.3		

Notes: E - Estimated value due to interference All values except turbidity are in micrograms per liter (µg/L)
B - Estimated value % Dissolved = filtered conc. / unfiltered conc.
ND - Not Detected NC - No NYSDEC criterion or Not Calculable
BOLD/Italics - Exceeds criterion

TABLE 5
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 (ROUND 6) SAMPLING EVENT
FIELD DUPLICATE DATA - TAL METALS IN GROUNDWATER

Sample Location Sample ID Laboratory ID Sample Date Filtered/Unfiltered Metal	LMW-5 LMW-5 L1807-01 8/20/12 Unfiltered conc. Q	LMW-5 Dup LMW-55 L1807-02 8/20/12 Unfiltered conc. Q	Precision as Relative Percent Difference (RPD)
Aluminum	245	249	1.6%
Antimony	ND	ND	NC
Arsenic	ND	ND	NC
Barium	56.9 B	58.9 B	3.5%
Beryllium	ND	ND	NC
Cadmium	ND	ND	NC
Calcium	17,800	18,000	1.1%
Chromium	1.7 B	2.4 B	34.1%
Cobalt	ND	ND	NC
Copper	ND	ND	NC
Iron	52 B	57 B	9.1%
Lead	ND	ND	NC
Magnesium	3,210	3,300	2.8%
Manganese	68.2	71	4.3%
Mercury	ND	ND	NC
Nickel	2.3 B	2.7 B	16.0%
Potassium	5,410 E	5,590 E	3.3%
Selenium	ND	ND	NC
Silver	ND	ND	NC
Sodium	18,100	18,500	2.2%
Thallium	ND	ND	NC
Vanadium	ND	ND	NC
Zinc	10.5 B	11.9 B	12.5%

LMW-5F LMW-5F L1808-01 8/20/12 Unfiltered conc. Q	LMW-5F Dup LMW-55F L1808-02 8/20/12 Unfiltered conc. Q	Precision as Relative Percent Difference (RPD)
157 B	160 B	1.9%
ND	ND	NC
ND	ND	NC
60.4 B	63.1 B	4.4%
ND	ND	NC
ND	ND	NC
18,600	18,200	2.2%
1.5 B	1.2 B	22.2%
ND	ND	NC
ND	ND	NC
ND	ND	NC
ND	ND	NC
3,390	3,320	2.1%
67.4	67	1.3%
ND	ND	NC
2.9 B	2.4 B	18.9%
5,440	5,430	0.2%
ND	ND	NC
ND	ND	NC
19,000	18,800	1.1%
ND	ND	NC
ND	ND	NC
10.3 B	9.5 B	8.1%

Notes:

All values in µg/L

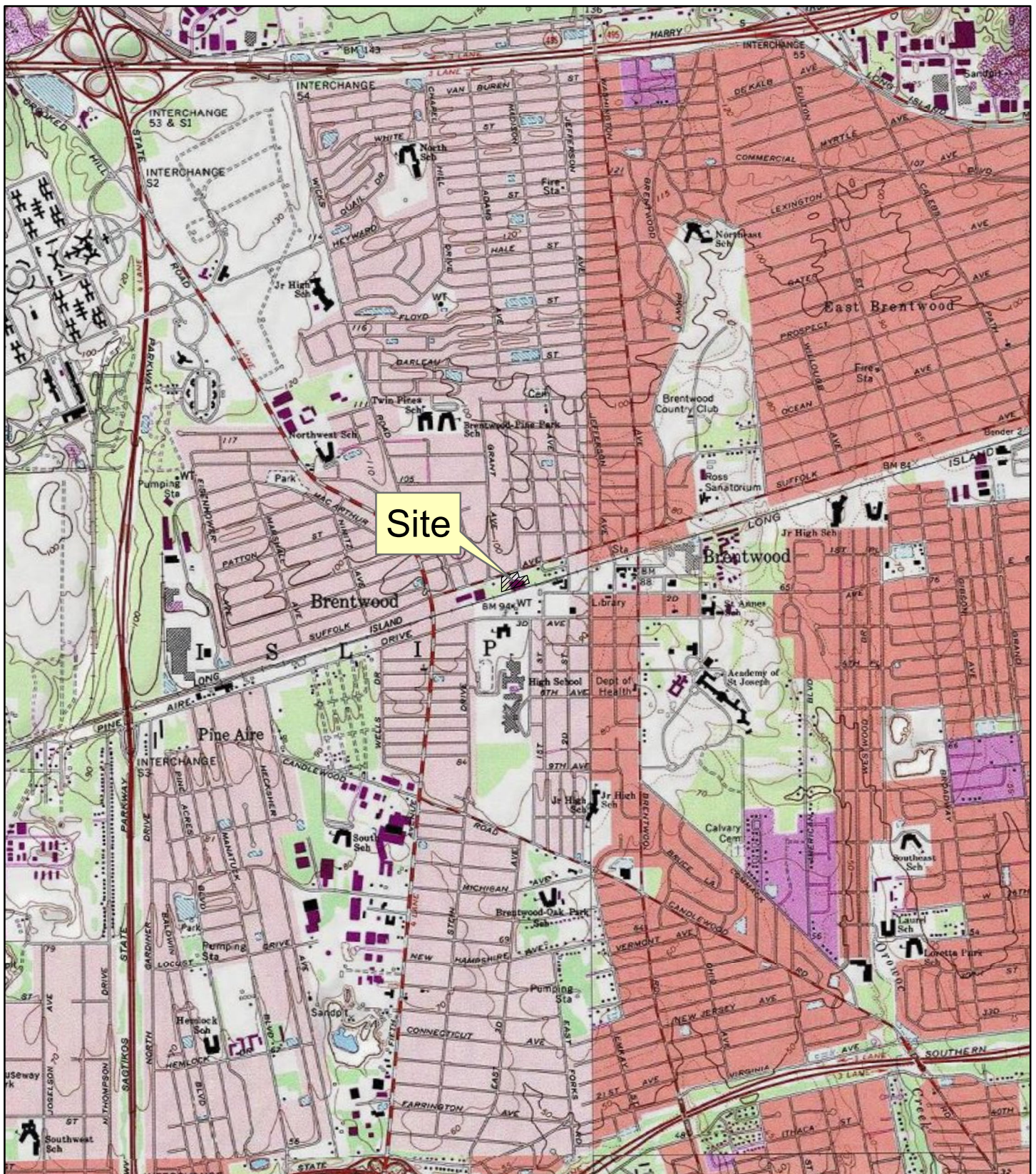
NC - Not Calculable (analyte not detected in one or both analyses)

ND - Not Detected

B - Estimated value (greater than MDL but less than RL)

E - Estimated concentration due to interference based on serial dilution.

Figures



USGS NY Greenlawn and Central Islip Quadrangles

U.S.G.S. 1:24 000 SCALE
TOPOGRAPHIC MAP

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i-cubed

Prepared by:

AECOM

Prepared for:



Multi Site G
Operation, Maintenance & Monitoring

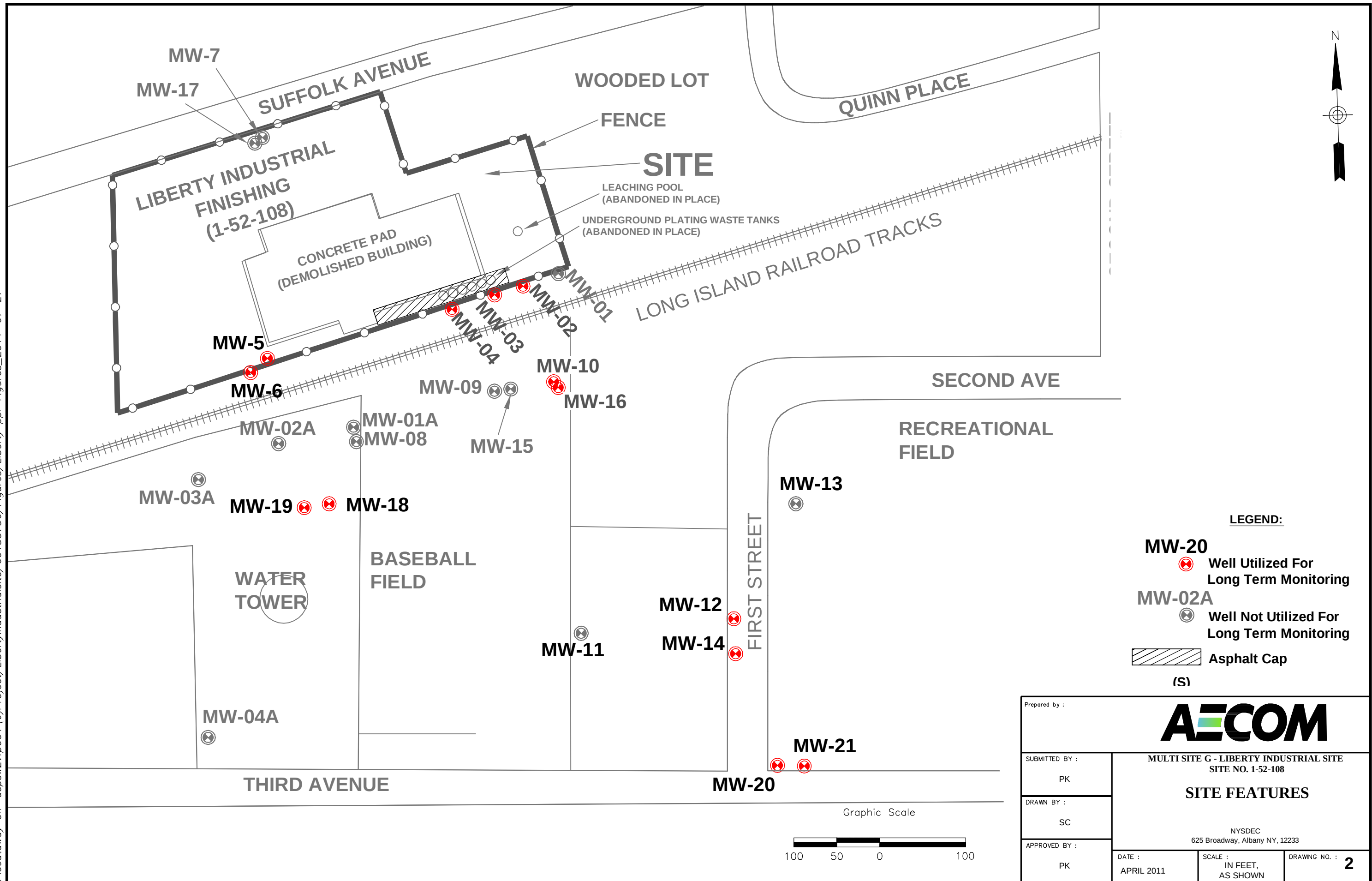
Site Location
Liberty Industrial Finishing Site

Date:
January 2013

Scale:
1 inch = 2,500 feet

Figure No. :
1

Piscataway on 'uspsw2vfp001'(u)Project/LibertyIndustrialSite/60135736/Figures/Liberty ppr Figures_2011-07-27



Prepared by :		AECOM	
SUBMITTED BY :		MULTI SITE G - LIBERTY INDUSTRIAL SITE SITE NO. 1-52-108	
PK		SITE FEATURES	
DRAWN BY :			
SC			
APPROVED BY :		NYSDEC 625 Broadway, Albany NY, 12233	
PK		DATE : APRIL 2011	SCALE : IN FEET, AS SHOWN
		DRAWING NO. : 2	

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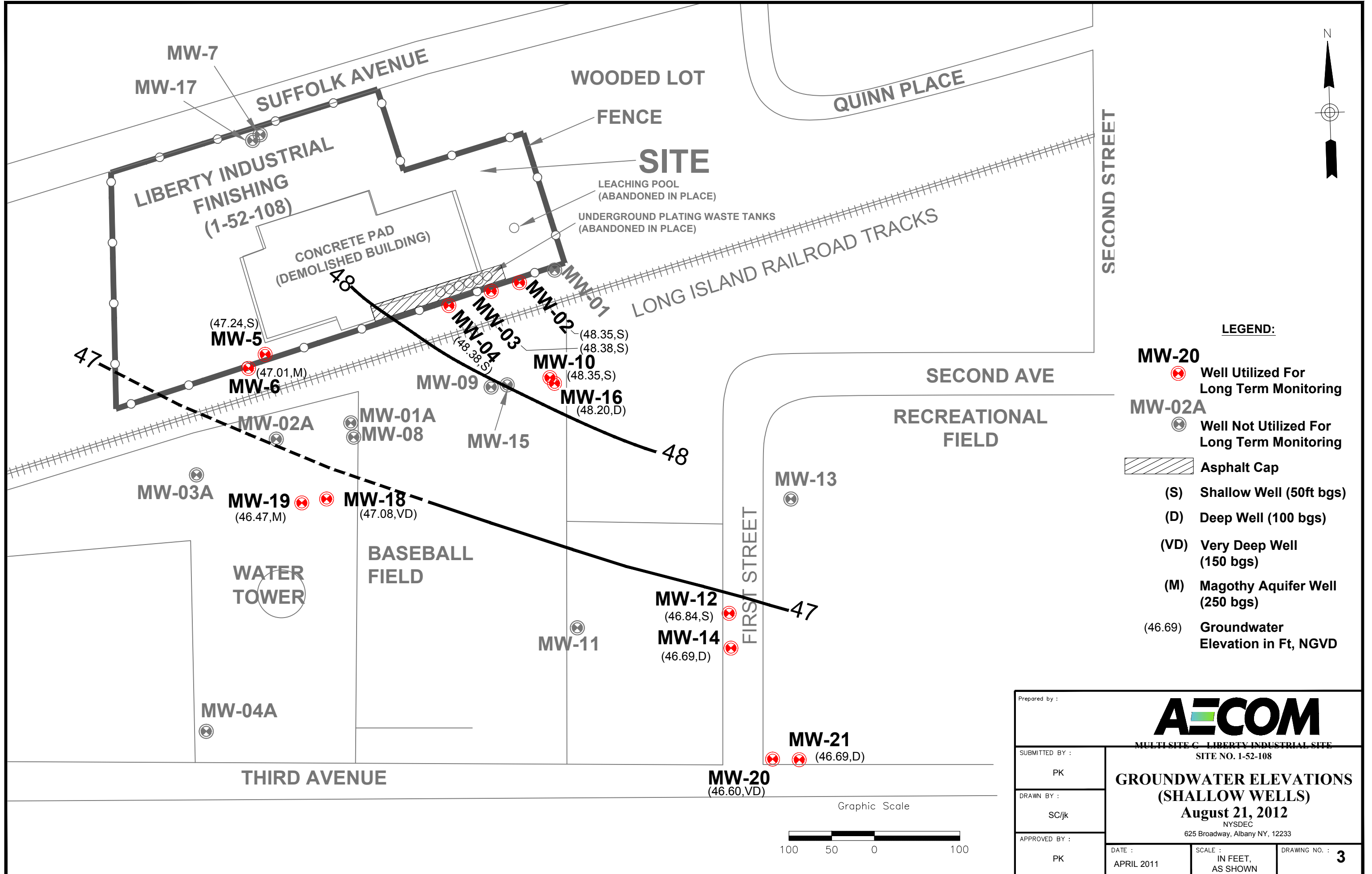
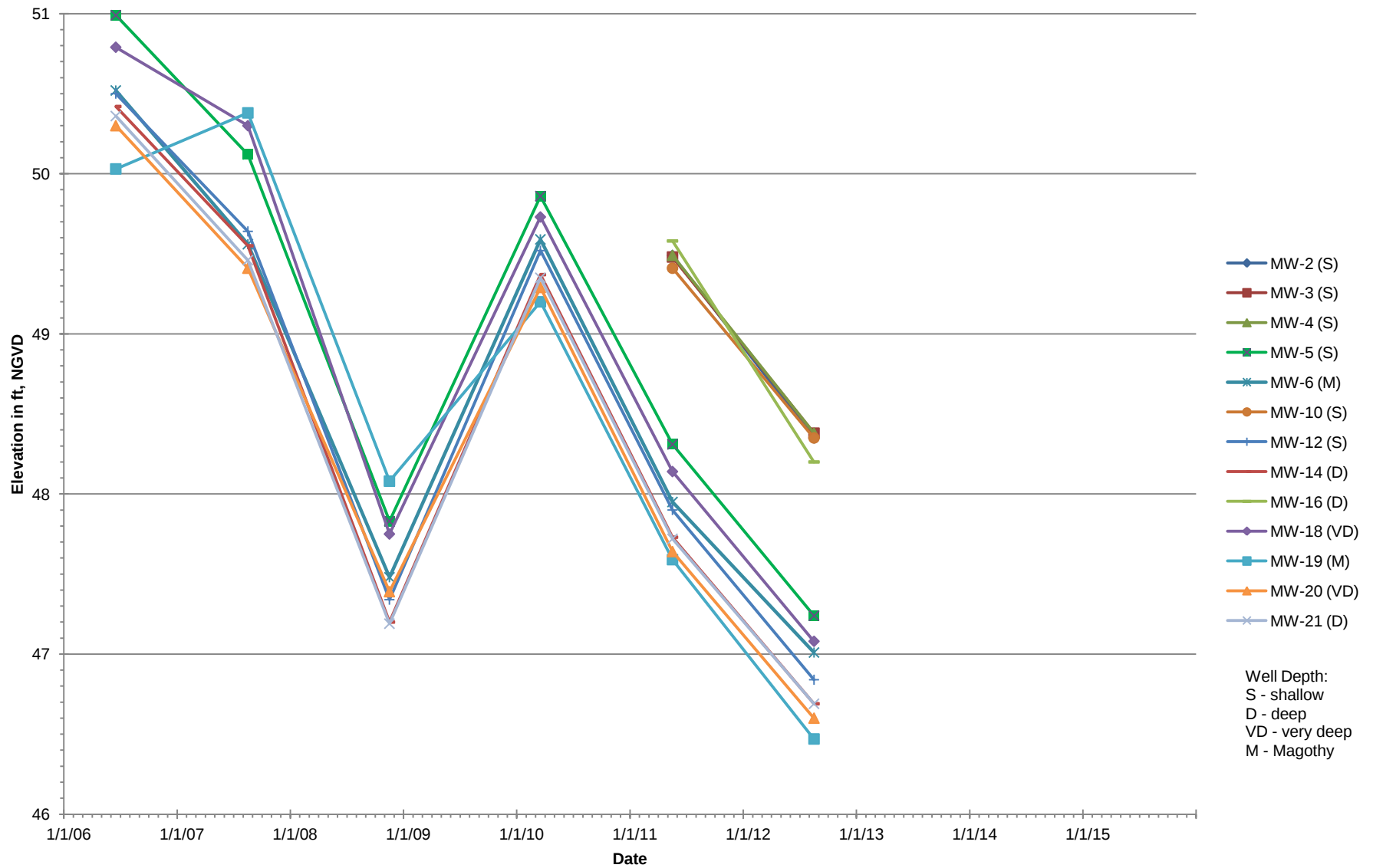


FIGURE 4
LIBERTY INDUSTRIAL FINISHING (1-52-108)
GROUNDWATER HYDROGRAPH



LEGEND:

MW-20
 Well Utilized For Long Term Monitoring

 Well Not Utilized For Long Term Monitoring

(S) Shallow Well (50ft bgs)

(D) Deep Well (100 bgs)

(VD) Very Deep Well (150 bgs)

(M) Magothy Aquifer Well (250 bgs)



All Values are in $\mu\text{g/L}$

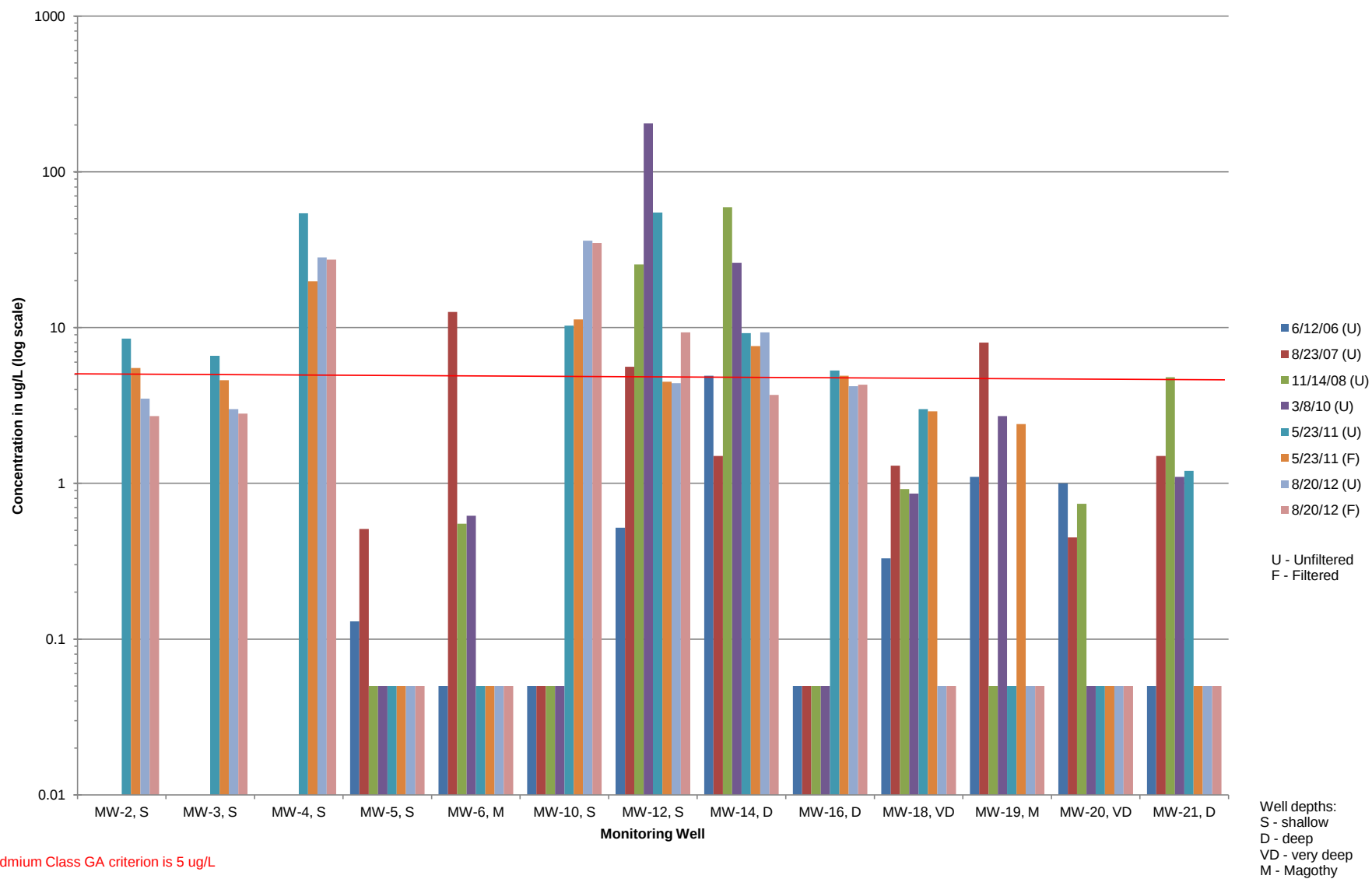
	MW-18 (VD)							
	Jun-06	Aug-07	Nov-08	Aug-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	ND	ND	9.0 B	5.2 B	ND	ND	ND	ND
Iron	212	308	307	731 N	327 N	ND	ND	277
Manganese	169	547	122	312	521	421	39.1 B	539
Sodium	30,000	26,700	29,600	30,000	28,400	30,200	26,600	26,000

Graphic Scale



Prepared by :			
SUBMITTED BY :		MULTI SITE G - LIBERTY INDUSTRIAL SITE SITE NO. 1-52-108 SUMMARY OF TAL METALS IN GROUNDWATER NYSDEC 625 Broadway, Albany NY, 12233	
PK			
DRAWN BY :			
SC/jk			
APPROVED BY :			
PK		DATE : NOV. 2012	SCALE : IN FEET, AS SHOWN
		DRAWING NO. : 5	

FIGURE 6
CADMIUM CONCENTRATIONS IN SELECTED MONITORING WELLS
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)



Piscataway on uspsw2vfp001\1Data_uspsw2vfp001\Environment\J
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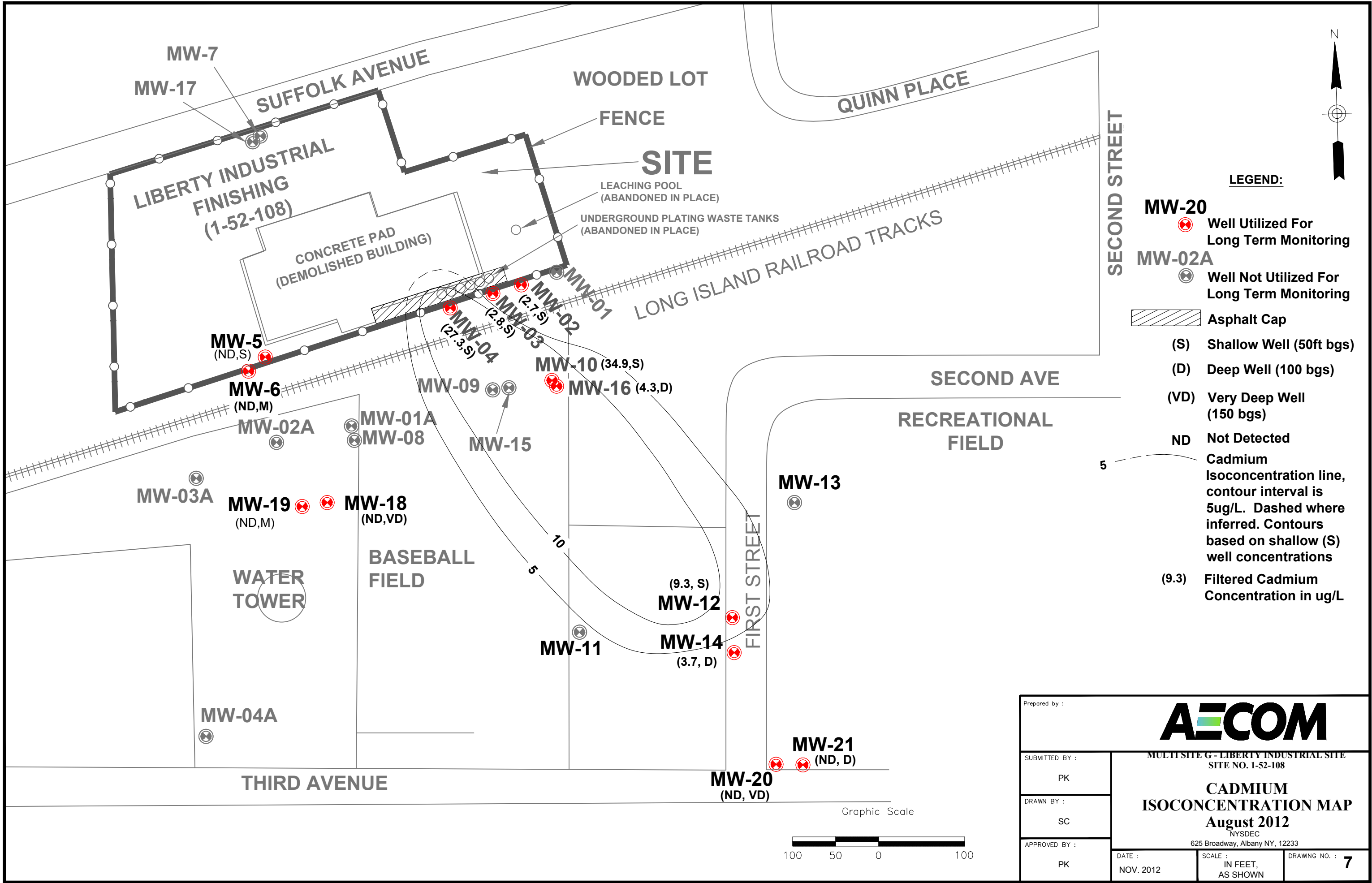
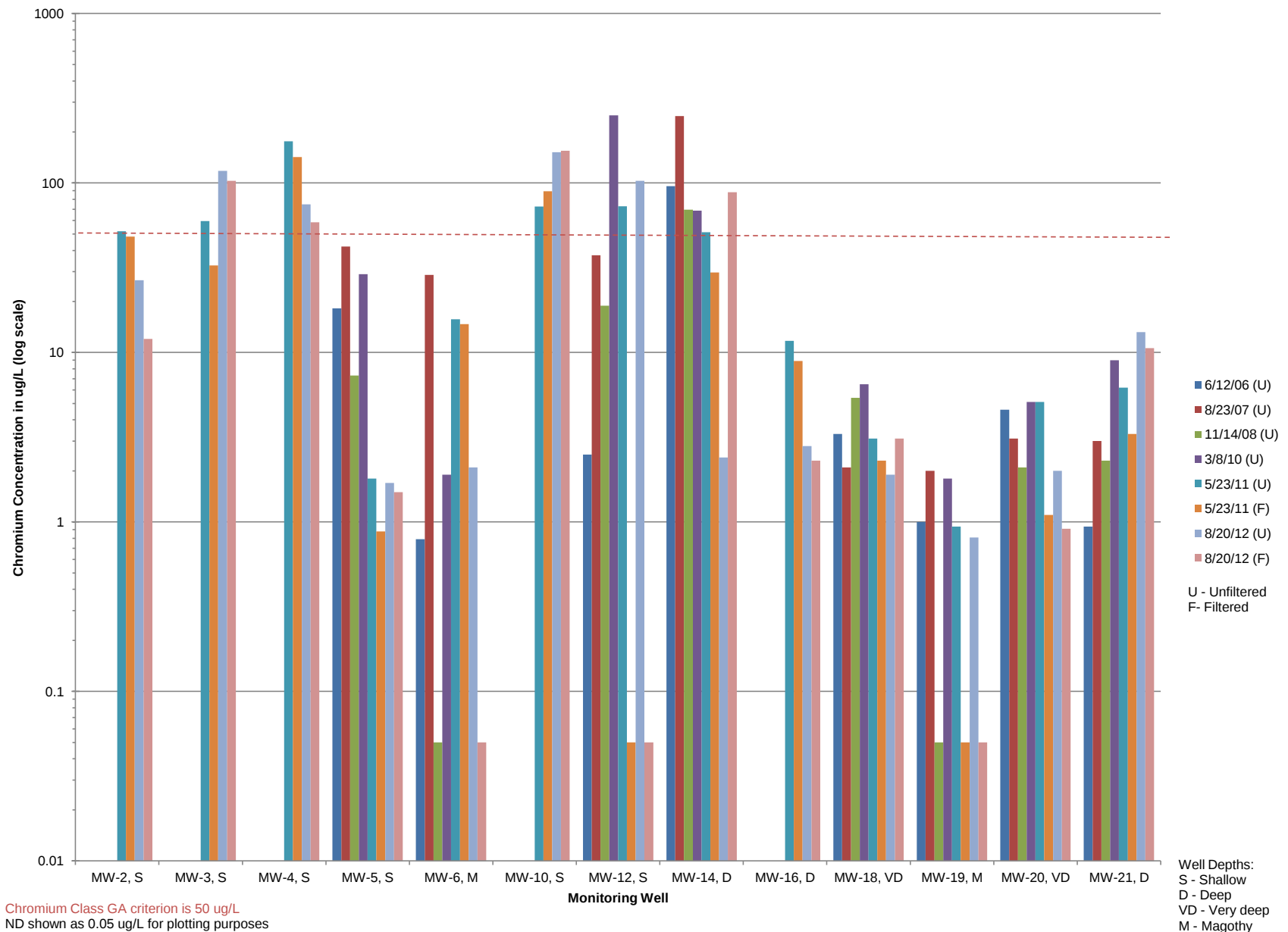


FIGURE 8
CHROMIUM CONCENTRATIONS IN SELECTED MONITORING WELLS
LIBERTY INDUSTRIAL FINISHING (1-52-108)



Piscataway on uspsw2\fp001\Data_uspsw2\vp001\Environment\J File: J:\Project\Liberty\IndustrialSite\Cadd\Drawings\liberty prr Figures_2012-11-12.dwg Layout: Chromium Iso Fig 9 User: karchj1 Plotted: Nov 13, 2012 - 9:28am

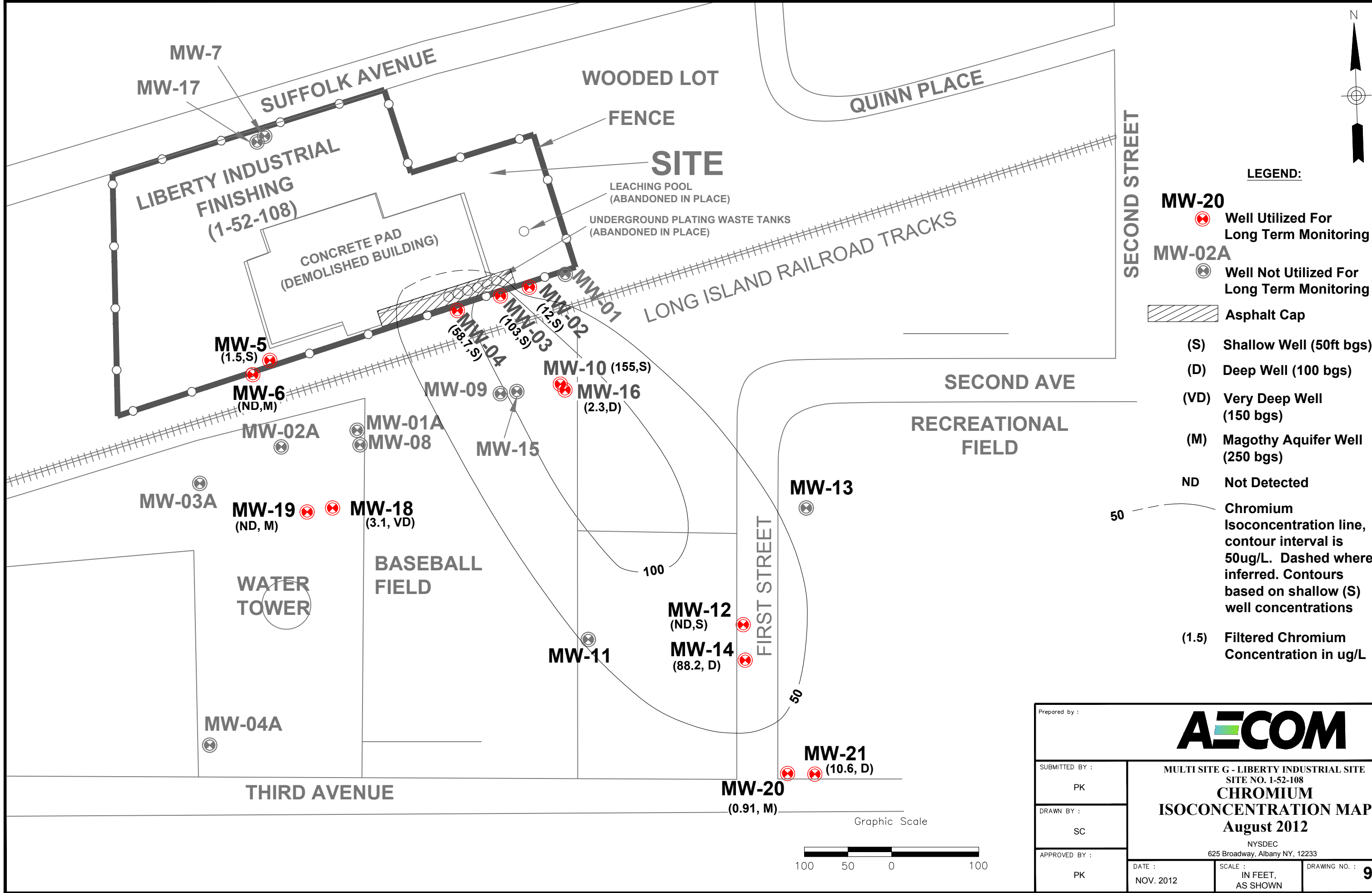


FIGURE 10
ANTIMONY CONCENTRATIONS IN SELECTED MONITORING WELLS
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)

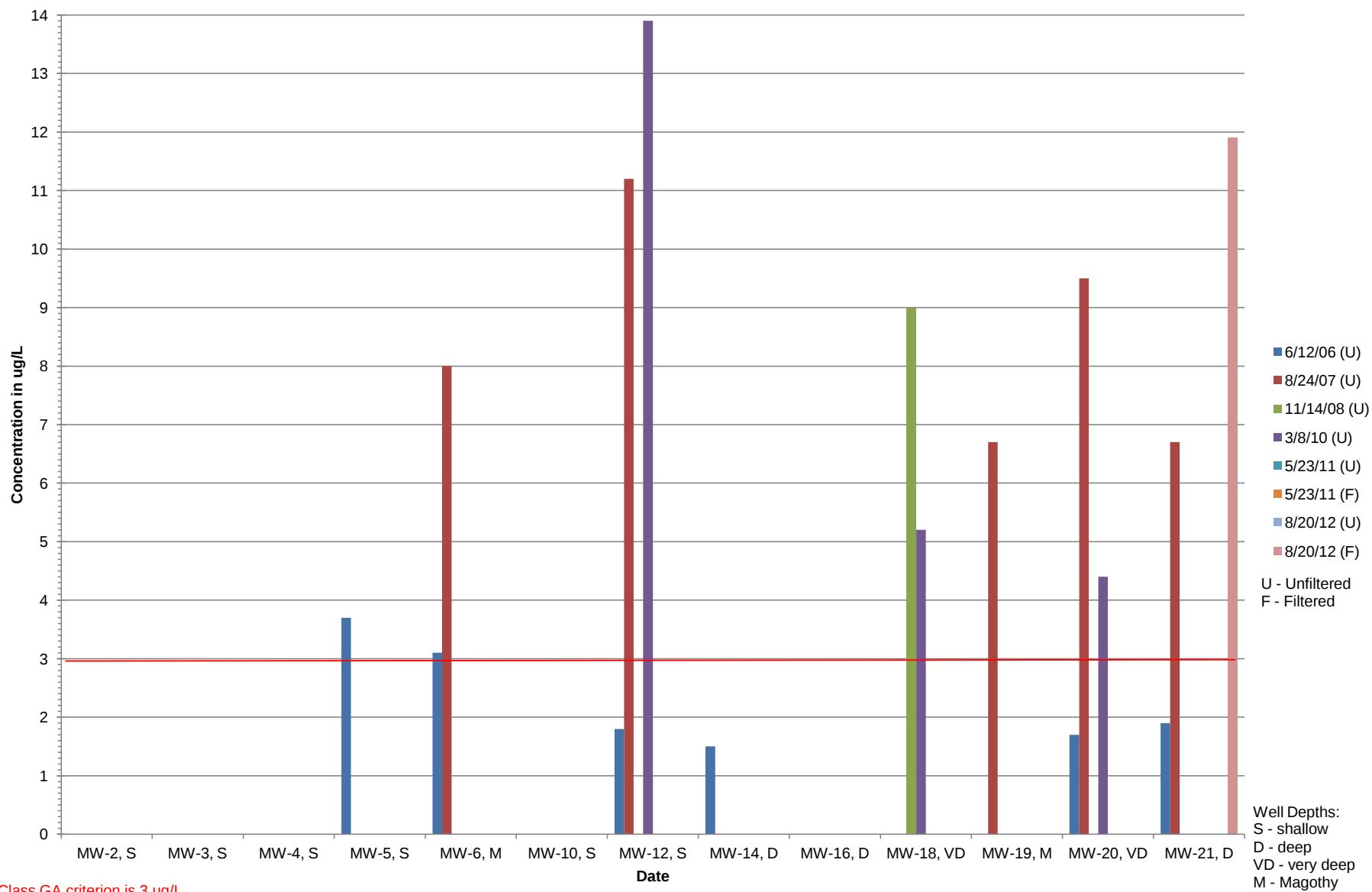
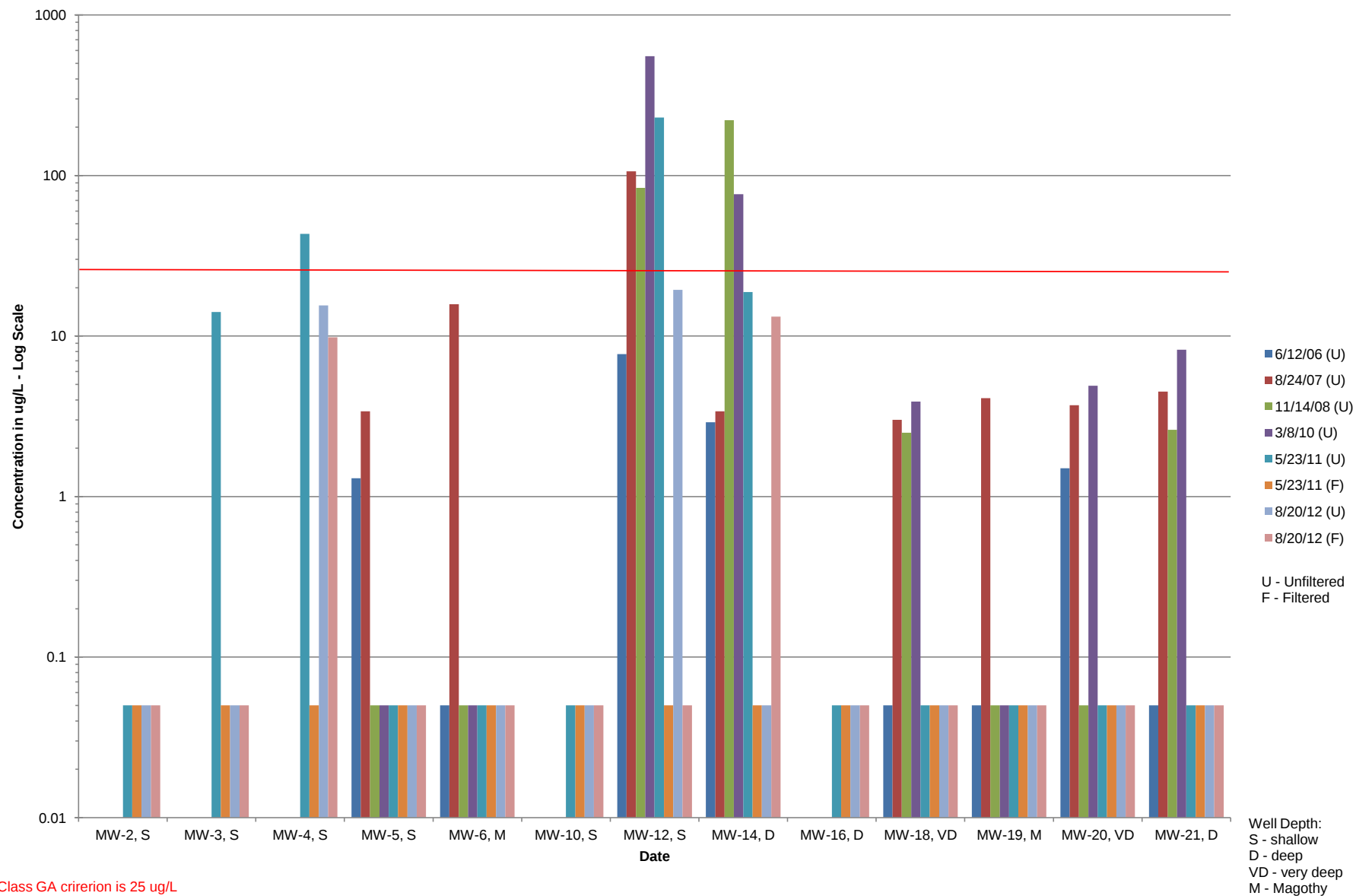


FIGURE 11
LEAD CONCENTRATIONS IN SELECTED MONITORING WELLS
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)



Appendix A

Monitoring Well Sampling Forms



MW-2

[illegible]



WELL NO.

MW-3

[illegible]



WELL NO.

MW-4

[illegible]



MW-5

[illegible]



WELL NO.

MW-6

[illegible]



WELL NO.

MW-10

[illegible]



WELL NO.

MW-12

[illegible]



WELL NO. MW-14

[illegible]



WELL NO.

MW-16

[illegible]



MW-18

[illegible]



WELL NO.

MW-19

[illegible]



WELL NO.

MW-20

[illegible]



MW-21

[illegible]

Appendix B

NYSDEC Monitoring Well Field Inspection Logs

SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/23/2012 1200

WELL ID.: LMW-1

WELL VISIBLE? (If not, provide directions below)

YES	NO
	X

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report

PDOP Reading from Trimble pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

YES	NO

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO

SURFACE SEAL PRESENT?

YES	NO

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

YES	NO

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

YES	NO

HEADSPACE READING (ppm) AND INSTRUMENT USED _____

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) _____

PROTECTIVE CASING MATERIAL TYPE: _____

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): _____

LOCK PRESENT?

YES	NO

LOCK FUNCTIONAL?

YES	NO

DID YOU REPLACE THE LOCK?

YES	NO

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

YES	NO

WELL MEASURING POINT VISIBLE?

YES	NO

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): _____

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): _____

MEASURE WELL DIAMETER (Inches): _____

WELL CASING MATERIAL: _____

PHYSICAL CONDITION OF VISIBLE WELL CASING: _____

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE _____

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES _____

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
overhead lines, close to fence

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

within site fence, surrounded by overgrown vegetation

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

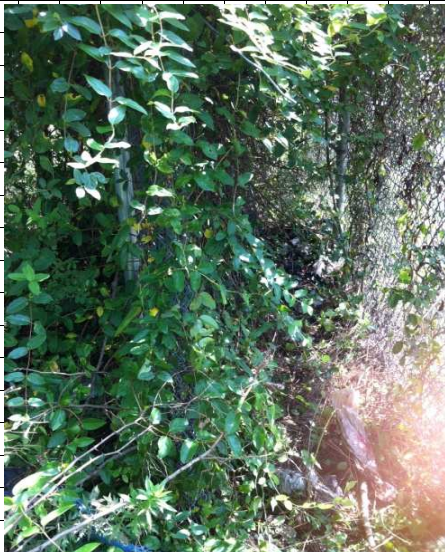
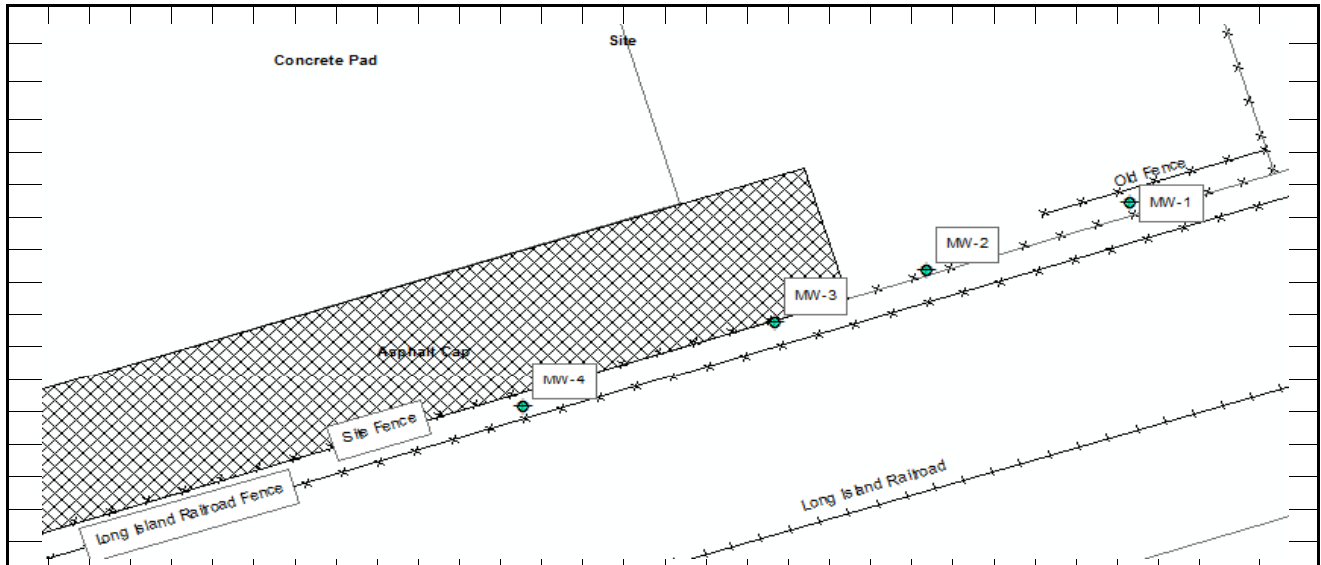
Capped area on-site. Gas station to the east of the Site.

REMARKS:

Well could not be located after multiple attempts

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/23/2012 1015

WELL ID.: LMW-2

WELL VISIBLE? (If not, provide directions below)

YES	NO
	X

WELL COORDINATES? NYTM X _____ NYTM Y _____

See Report

PDOP Reading from Trimble pathfinder: _____

Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
	X
X	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
X	
X	
X	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED

0.0 PID

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

NA

PROTECTIVE CASING MATERIAL TYPE:

SS

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

6

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

54.3

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

44.05

MEASURE WELL DIAMETER (Inches):

4

WELL CASING MATERIAL:

PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

-

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

CLOSE

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
overhead lines, close to fence

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

within site fence, surrounded by overgrown vegetation

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

Capped area on-site. Gas station to the east of the Site.

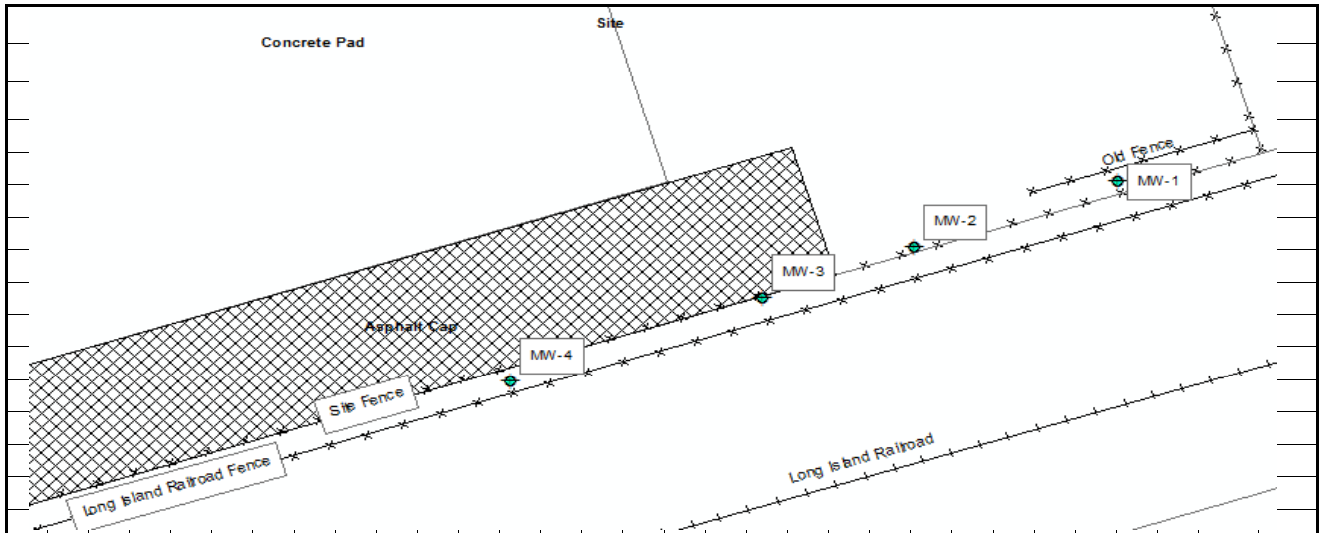
REMARKS:

New bolts needed, orange spray paint put on fence at well location

Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/23/2012 1000

WELL ID.: LMW-3

WELL VISIBLE? (If not, provide directions below)

YES	NO
	X

WELL COORDINATES? NYTM X _____ NYTM Y _____

See Report

PDOP Reading from Trimble pathfinder: _____

Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
	X
X	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
X	
X	
X	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED

0.0 PID

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

NA

PROTECTIVE CASING MATERIAL TYPE:

SS

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

6

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

54.8

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

44.00

MEASURE WELL DIAMETER (Inches):

4

WELL CASING MATERIAL:

PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

-

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

CLOSE

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
overhead lines, close to fence, railroad tracks, well is in between site fence and railroad fence

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

well is in between site fence and railroad fence, surrounded by overgrown vegetation

Double bonded 1/4in poly tubing left in well.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

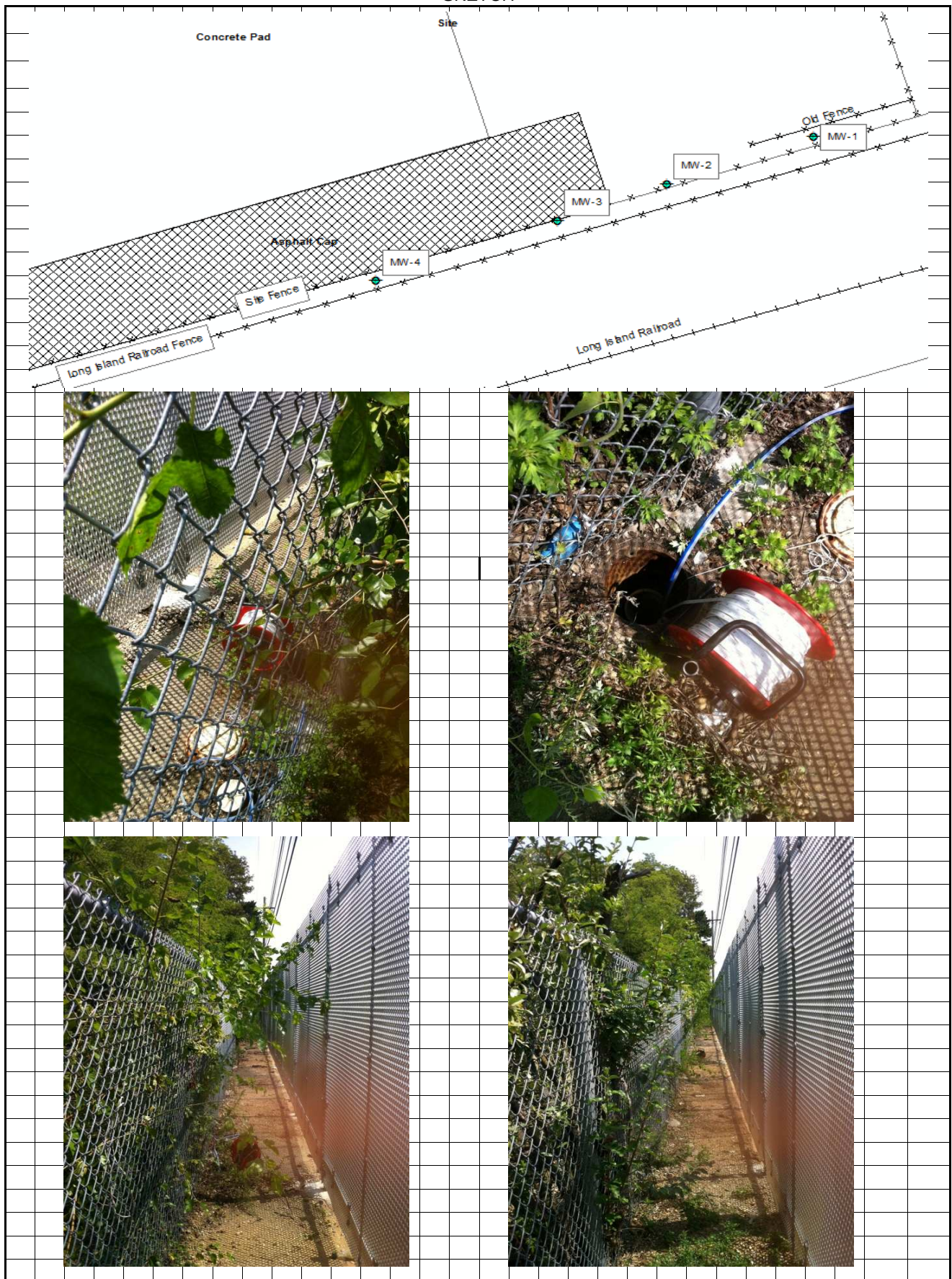
Capped area on-site. Gas station to the east of the Site.

REMARKS:

New bolts needed, orange spray paint added to fence at well location

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/23/2012 1130

WELL ID.: LMW-4

WELL VISIBLE? (If not, provide directions below)

YES	NO
	X

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report

PDOP Reading from Trimble pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
	X

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

X	
---	--

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

SURFACE SEAL PRESENT?

YES	NO
X	

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

X	
---	--

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

X	
---	--

HEADSPACE READING (ppm) AND INSTRUMENT USED 0.0 PID

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) NA

PROTECTIVE CASING MATERIAL TYPE: SS

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

LOCK PRESENT?

YES	NO
X	

LOCK FUNCTIONAL?

	X
--	---

DID YOU REPLACE THE LOCK?

	X
--	---

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

	X
--	---

WELL MEASURING POINT VISIBLE?

X	
---	--

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 54.4

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 4436.00

MEASURE WELL DIAMETER (Inches): 4

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE -

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES CLOSE

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
overhead lines, close to fence, railroad tracks, well is in between site fence and railroad fence

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

well is in between site fence and railroad fence, surrounded by overgrown vegetation

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

Capped area on-site. Gas station to the east of the Site.

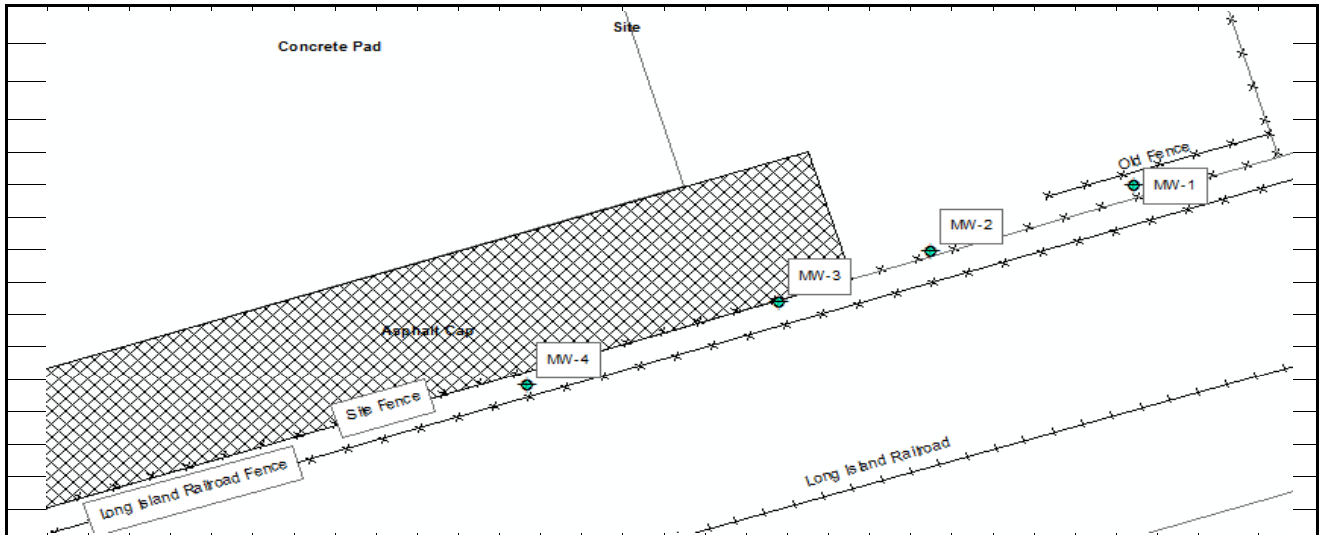
REMARKS:

New bolts needed

Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/22/2012 0915

WELL ID.: LMW-5

WELL VISIBLE? (If not, provide directions below)

YES	NO
X	

WELL COORDINATES? NYTM X 2,206,350.98 NYTM Y 202,308.86 See Report

PDOP Reading from Trimble pathfinder:

Satellites:

GPS Method (circle) Trimble And/Or Magellan

YES	NO
	X
X	

WELL I.D. VISIBLE?

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
	X
	X
	X

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED

0.0 PID

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

2 FT

PROTECTIVE CASING MATERIAL TYPE:

SS

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

6

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

YES	NO
	X
	NA
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

58.0

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

47.97

MEASURE WELL DIAMETER (Inches):

4

WELL CASING MATERIAL:

PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

-

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Overgrown vegetation, accessible by truck mounted rig with clearing.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

located between asphalt and site fence in overgrown vegetation area.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

Capped area on-site. Gas station to the east of the Site.

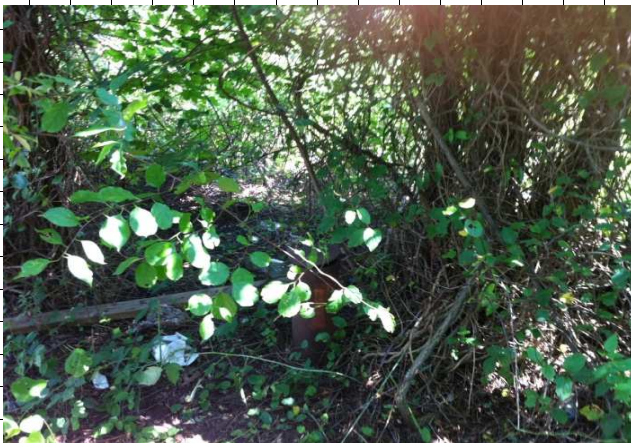
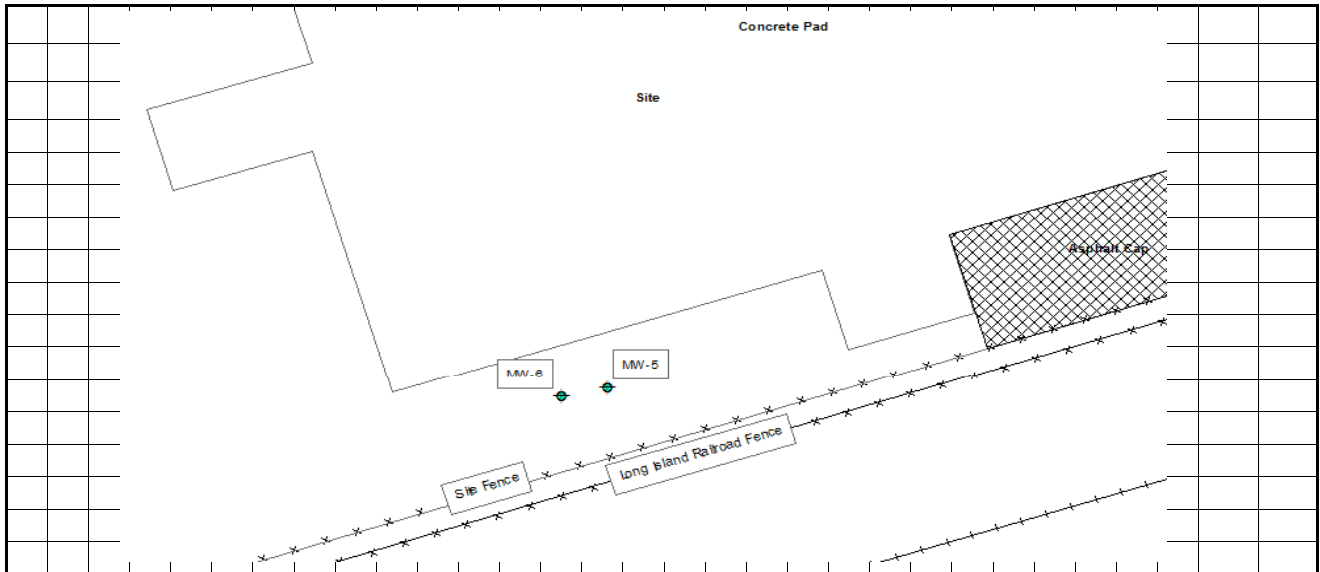
REMARKS:

Needs lock, protective casing lid needs to be fixed, should get a new well cap, mice living inside of casing

Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/22/2012 0900

WELL ID.: LMW-6

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,341.15 NYTM Y 202,306.77 See Report
PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE?
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
	X
X	

SURFACE SEAL PRESENT?
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)
HEADSPACE READING (ppm) AND INSTRUMENT USED
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE:
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

YES	NO
	X
	NA
X	

0.0 PID
1
SS
6

LOCK PRESENT?
LOCK FUNCTIONAL?
DID YOU REPLACE THE LOCK?
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
WELL MEASURING POINT VISIBLE?

YES	NO
	X
	NA
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
MEASURE WELL DIAMETER (Inches):
WELL CASING MATERIAL:
PHYSICAL CONDITION OF VISIBLE WELL CASING:
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

265.0
48.0
4
PVC
Average
-
-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Overgrown vegetation, accessible by truck mounted rig with clearing.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.
overgrowth area between concrete pad and site fence

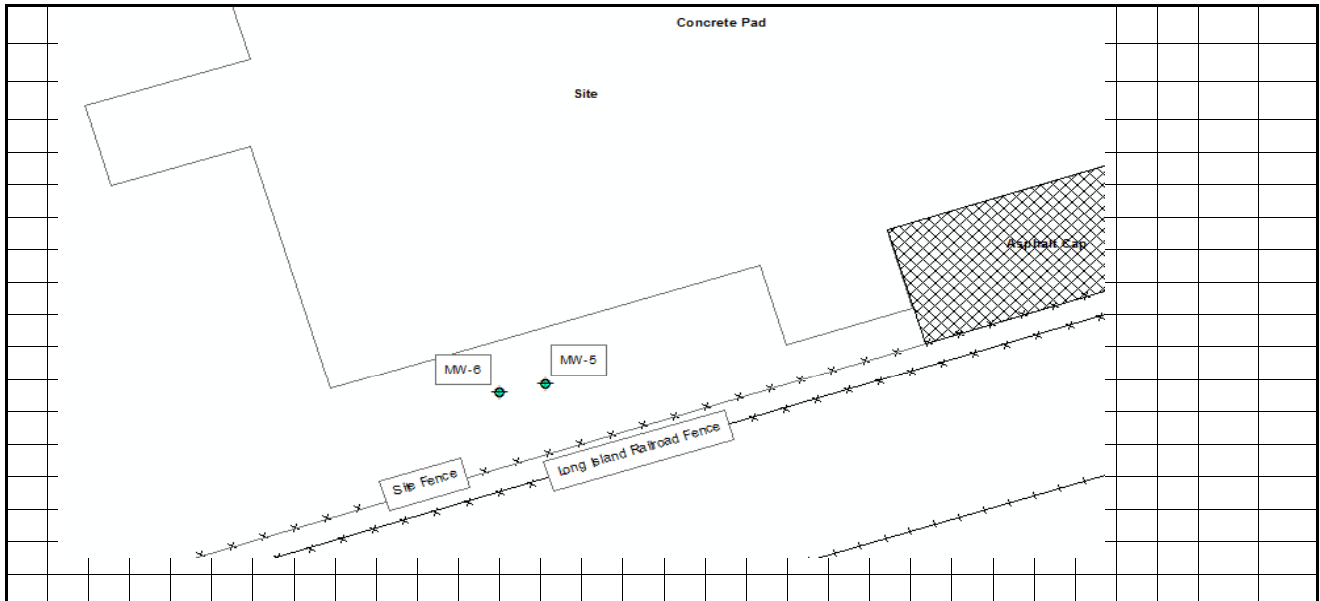
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT
(e.g. Gas station, salt pile, etc.):
Capped area on-site. Gas station to the east of the Site.

REMARKS:

Well j plug is missing, no lock

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 1300

WELL ID.: LMW-10

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE?
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
	X
X	

SURFACE SEAL PRESENT?
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)
HEADSPACE READING (ppm) AND INSTRUMENT USED
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE:
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

YES	NO
X	
X	
X	

0.0 PID
NA
SS
6

LOCK PRESENT?
LOCK FUNCTIONAL?
DID YOU REPLACE THE LOCK?
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
MEASURE WELL DIAMETER (Inches):
WELL CASING MATERIAL:
PHYSICAL CONDITION OF VISIBLE WELL CASING:
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

50.0
43.18
4
PVC
RUSTY
-
-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig across sports field

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

baseball field edge

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

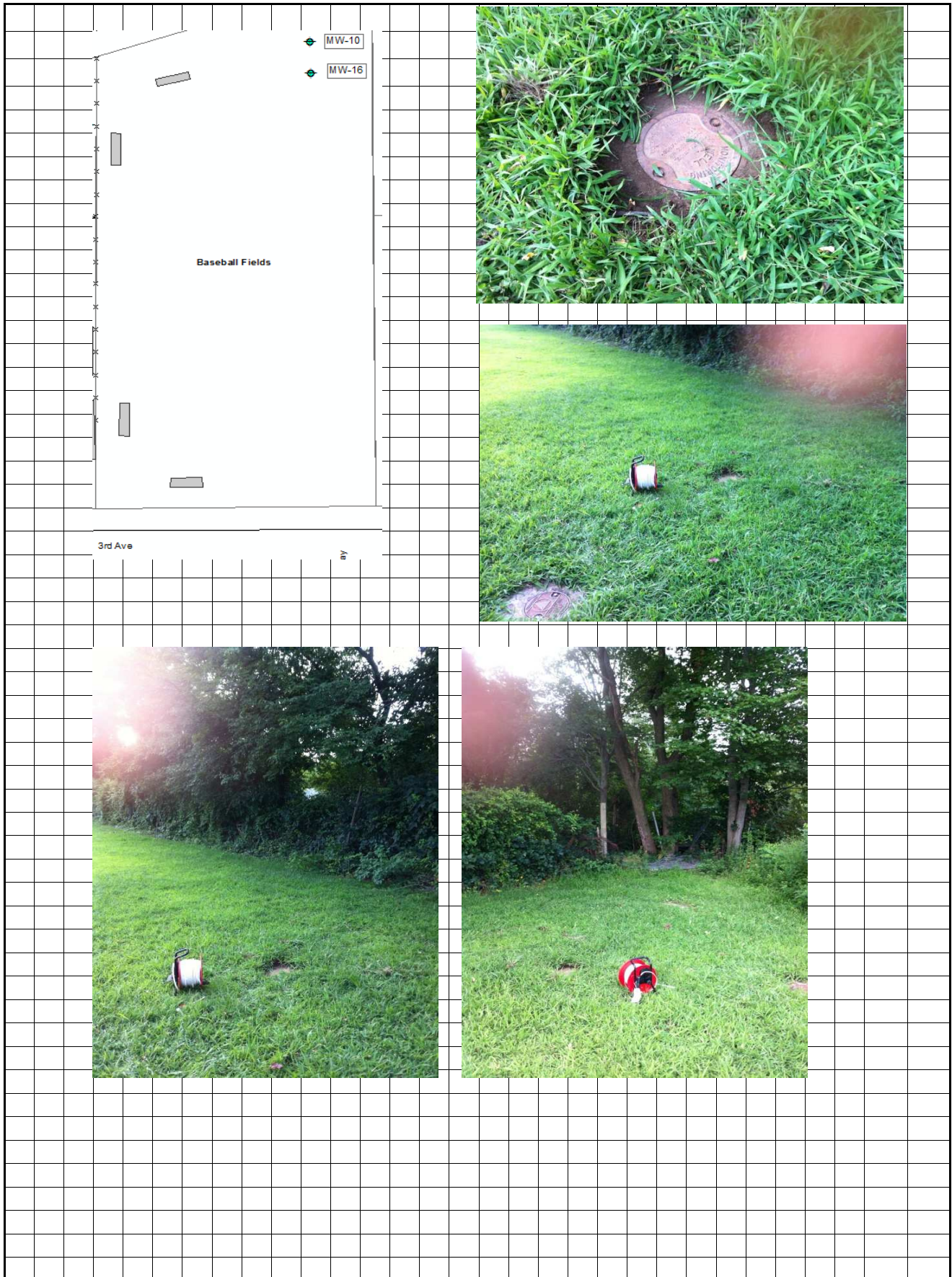
Recharge Basin

REMARKS:

Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 0815

WELL ID.: LMW-12

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,863.98 NYTM Y 201,973.43 See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE?
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
	X
X	

SURFACE SEAL PRESENT?
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)
HEADSPACE READING (ppm) AND INSTRUMENT USED
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE:
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

YES	NO
X	
X	
X	

0.0 PID
NA
SS
6

LOCK PRESENT?
LOCK FUNCTIONAL?
DID YOU REPLACE THE LOCK?
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
MEASURE WELL DIAMETER (Inches):
WELL CASING MATERIAL:
PHYSICAL CONDITION OF VISIBLE WELL CASING:
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

49.3
42.75
2
PVC
ok
-
-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located on the ROW along First Street on the corner of lodge parking lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

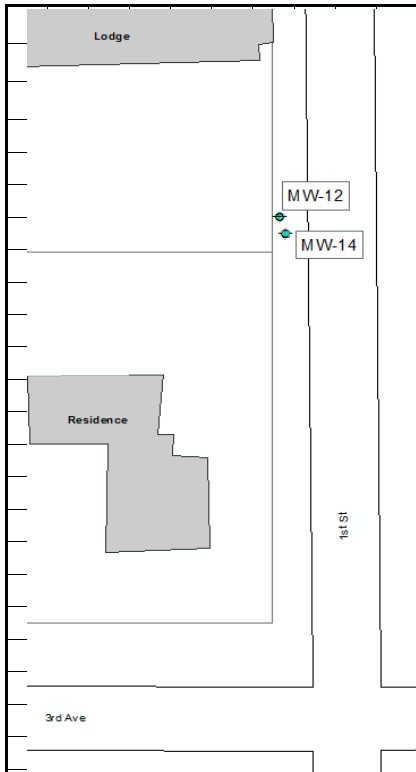
Recharge basin across First St

REMARKS:

New bolts needed. Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 0820

WELL ID.: LMW-14

WELL VISIBLE? (If not, provide directions below)

YES	NO
X	

WELL COORDINATES? NYTM X 2,206,866.03 NYTM Y 201,966.33 See Report

PDOP Reading from Trimble pathfinder: _____ Satellites: _____
GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
	X

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

X	
---	--

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
	X

SURFACE SEAL PRESENT?

X	
---	--

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

X	
---	--

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

X	
---	--

HEADSPACE READING (ppm) AND INSTRUMENT USED 0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) NA
PROTECTIVE CASING MATERIAL TYPE: SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

LOCK PRESENT?

YES	NO
X	

LOCK FUNCTIONAL?

	X
--	---

DID YOU REPLACE THE LOCK?

	X
--	---

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

	X
--	---

WELL MEASURING POINT VISIBLE?

X	
---	--

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 99.6
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 42.86
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING: Cracked
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE -
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES -

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located on the ROW along First Street on the corner of lodge parking lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

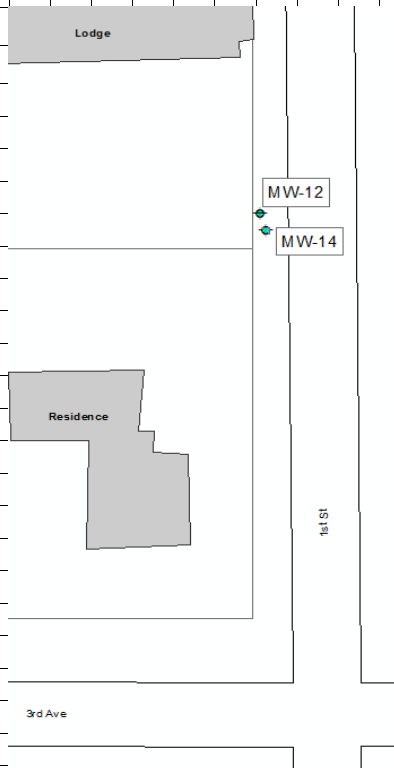
Recharge basin across First St

REMARKS:

PVC cracked and new bolts needed. Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 1315

WELL ID.: LMW-16

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE? on j-plug

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

YES	NO
X	
X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

MW-16

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

YES	NO
X	
X	
X	

HEADSPACE READING (ppm) AND INSTRUMENT USED

0.0 PID

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

NA

PROTECTIVE CASING MATERIAL TYPE:

SS

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

6

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

99.0

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

43.41

MEASURE WELL DIAMETER (Inches):

2

WELL CASING MATERIAL:

PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

-

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig across sports field

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

baseball field edge

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

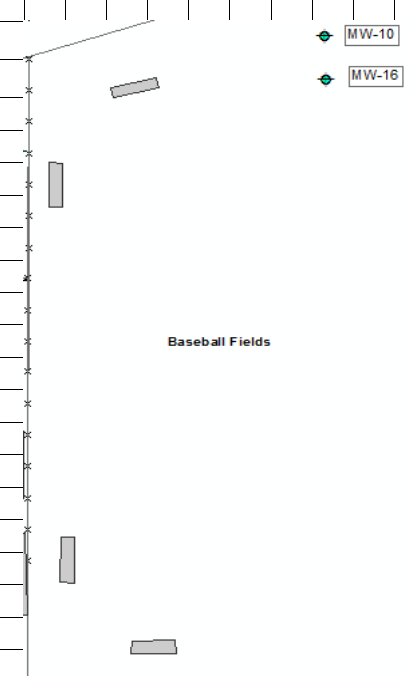
Recharge Basin

REMARKS:

Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH

 Baseball Fields 3rd Ave ay			
			
			

SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 0930

WELL ID.: LMW-18

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,386.65 NYTM Y 202,102.30 See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE?
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
	X
X	

SURFACE SEAL PRESENT?
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)
HEADSPACE READING (ppm) AND INSTRUMENT USED
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE:
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

YES	NO
X	
X	
X	

0.0 PID
NA
SS
8

LOCK PRESENT?
LOCK FUNCTIONAL?
DID YOU REPLACE THE LOCK?
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
MEASURE WELL DIAMETER (Inches):
WELL CASING MATERIAL:
PHYSICAL CONDITION OF VISIBLE WELL CASING:
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

148.6
44.47
2
PVC
GOOD
-
-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Not accessible by truck mounted rig due to partly opening fence gate, trees and not enough turning radius for truck. Accessed through second gate.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located in the grassy area behind the water tower, within fence that surrounds the recharge basin.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

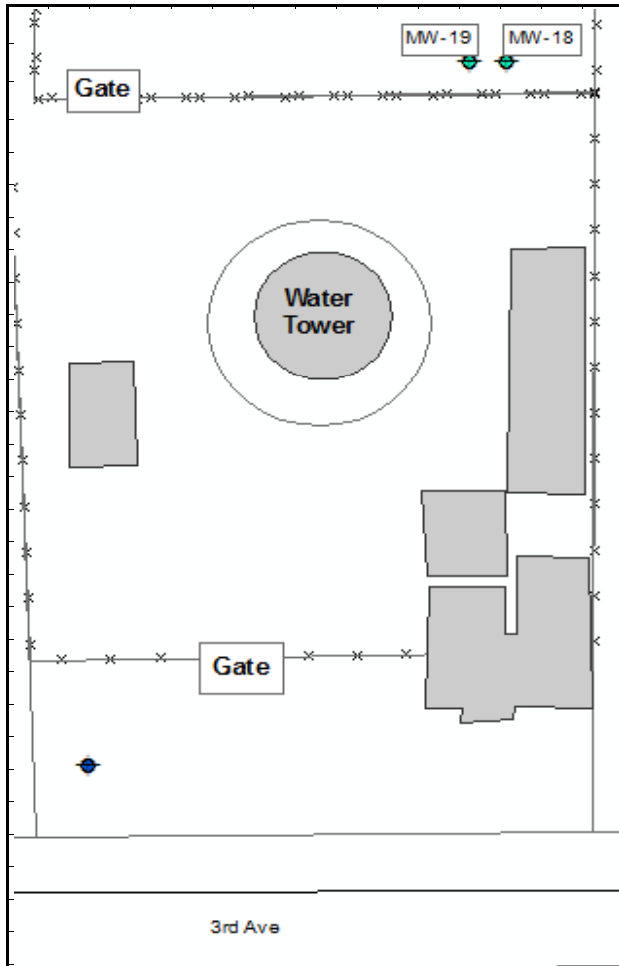
(e.g. Gas station, salt pile, etc.):

Recharge Basin

REMARKS:

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 0945

WELL ID.: LMW-19

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,373.86 NYTM Y 202,101.70 See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE?
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

YES	NO
	X
X	

SURFACE SEAL PRESENT?
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)
HEADSPACE READING (ppm) AND INSTRUMENT USED
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE:
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

YES	NO
X	
X	
X	

0.0 PID
NA
SS
8

LOCK PRESENT?
LOCK FUNCTIONAL?
DID YOU REPLACE THE LOCK?
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)
WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):
MEASURE WELL DIAMETER (Inches):
WELL CASING MATERIAL:
PHYSICAL CONDITION OF VISIBLE WELL CASING:
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

265.0
45.51
4
PVC
GOOD
-
-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Not accessible by truck mounted rig due to partly opening fence gate, trees and not enough turning radius for truck. Accessed through second gate.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located in the grassy area behind the water tower, within fence that surrounds the recharge basin.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

Recharge Basin

REMARKS:

Location shown in workplan has MW-19 and MW-18 reversed. Corrected in sketch below.

Coordinates above corrected.

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 0835

WELL ID.: LMW-20

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,946.09 NYTM Y 201,798.92 See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE? on lock

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

YES	NO
X	
X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

MW-20

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

YES	NO
X	
X	
X	

HEADSPACE READING (ppm) AND INSTRUMENT USED

0.0 PID

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

NA

PROTECTIVE CASING MATERIAL TYPE:

SS

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

6

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

147.0

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

41.99

MEASURE WELL DIAMETER (Inches):

2

WELL CASING MATERIAL:

PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

-

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig in between trees

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grassy area in right of way along 3rd Ave

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

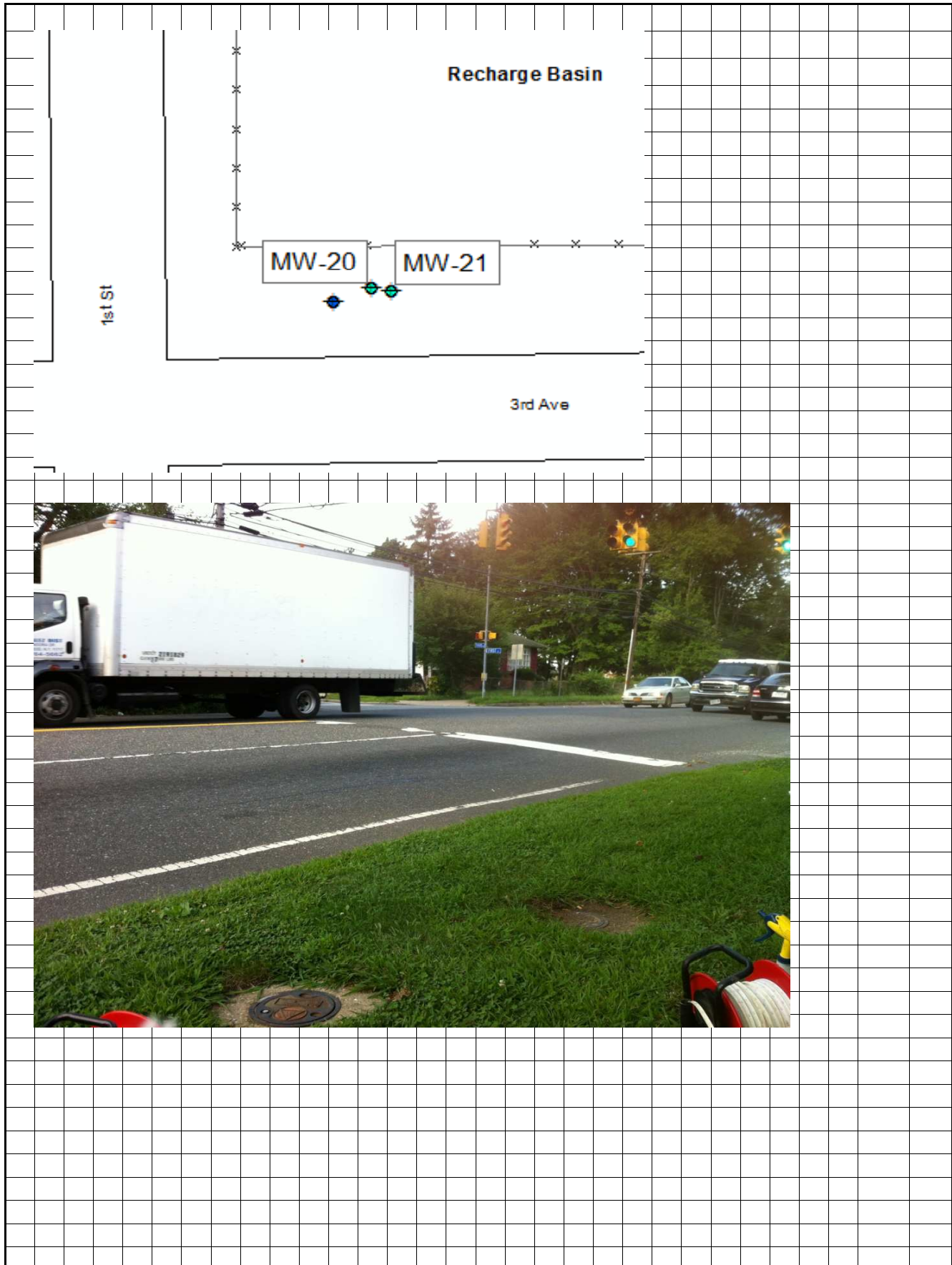
Recharge Basin

REMARKS:

New bolts needed. Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



SITE NAME: Liberty Industrial Finishing

SITE ID.: 1-52-108

INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 08/21/2012 0830

WELL ID.: LMW-21

WELL VISIBLE? (If not, provide directions below)
WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satellites:
GPS Method (circle) Trimble And/Or Magellan

YES	NO
X	

WELL I.D. VISIBLE? on lock

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

YES	NO
X	
X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

MW-21

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

YES	NO
X	
X	
X	

HEADSPACE READING (ppm) AND INSTRUMENT USED

0.0 PID

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

NA

PROTECTIVE CASING MATERIAL TYPE:

SS

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

8

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

YES	NO
X	
	X
	X
	X
X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

110.6

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

41.97

MEASURE WELL DIAMETER (Inches):

2

WELL CASING MATERIAL:

PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

-

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

-

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig in between trees

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grassy area in right of way along 3rd Ave

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

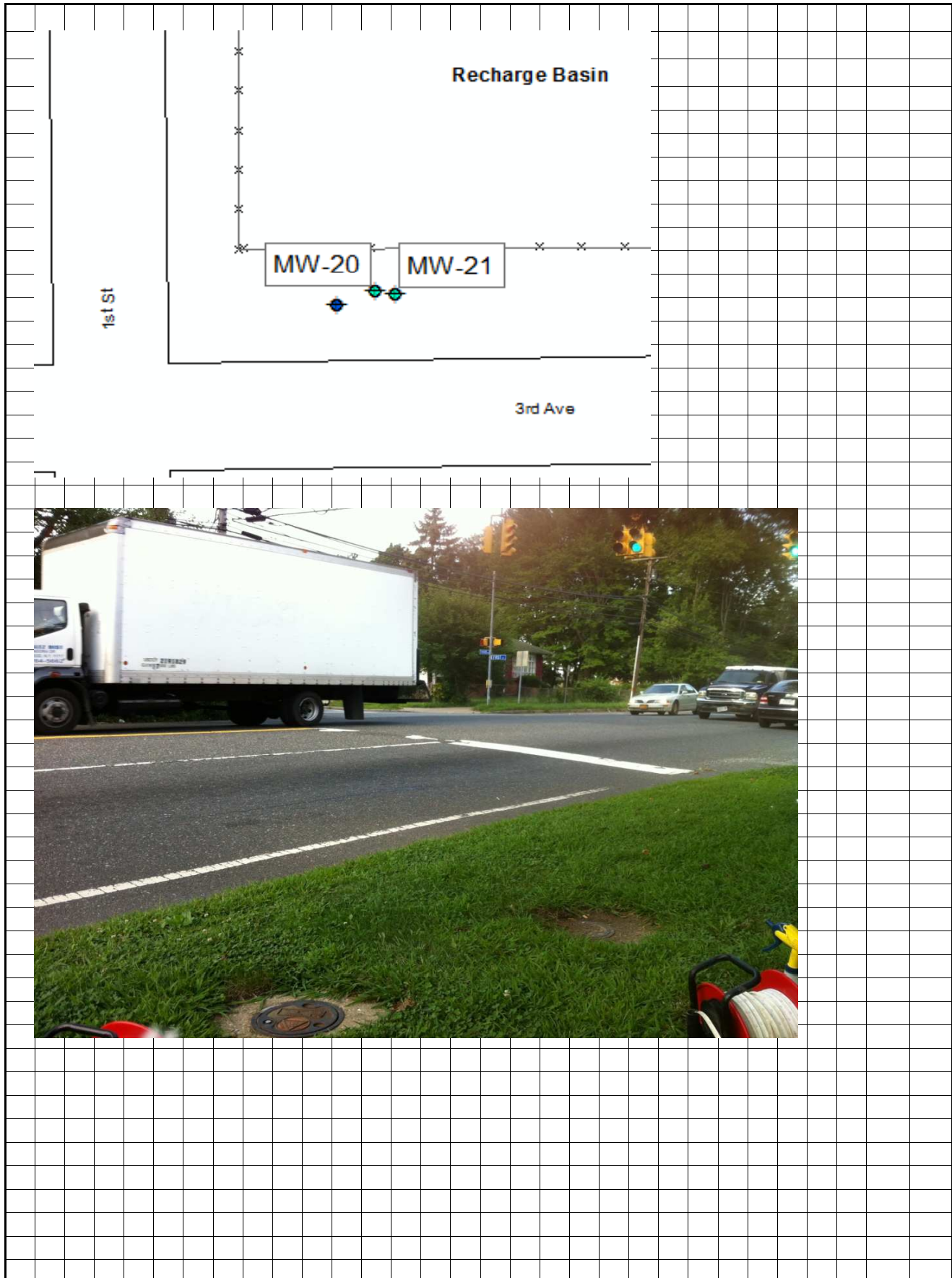
Recharge Basin

REMARKS:

New bolts needed. Double bonded 1/4in poly tubing left in well.

MONITORING WELL INSPECTION LOG

SKETCH



Appendix C

Laboratory Data Summary Packages

APPENDIX C TABLE 1
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4	MW-5	MW-5	MW-6	MW-6
Sample ID	Class GA	LMW-2	LMW-2F	LMW-3	LMW-3F	LMW-4	LMW-4F	LMW-5	LMW-5F	LMW-6	LMW-6F
Laboratory ID	Ground	L1807-12	L1808-12	L1807-13	L1808-13	L1807-14	L1808-14	L1807-01	L1808-01	L1807-03	L1808-03
Sample Date	Water	8/23/12	8/23/12	8/23/12	8/23/12	8/23/12	8/23/12	8/20/12	8/20/12	8/20/12	8/20/12
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	602	66 U	360	66 U	1,980	1,130	245	157 B	488	66 U
Antimony	3	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Arsenic	25	4.3 U	4.3 U	4.3 U	4.3 U	6.4 B	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U
Barium	1,000	39.5 B	31.9 B	28.9 B	27.9 B	22.8 B	21.6 B	56.9 B	60.4 B	14.4 B	2.7 B
Beryllium	3	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cadmium	5	3.5 B	2.7 B	3.0 B	2.8 B	28.2	27.3	0.89 U	0.89 U	0.89 U	0.89 U
Calcium	NC	20,400	21,500	28,600	29,400	18,700	19,600	17,800	18,600	7,700	7,750
Chromium	50	26.7	12.0 B	118	103	74.9	58.7	1.7 B	1.5 B	2.1 B	0.64 U
Cobalt	NC	0.67 U	0.67 U	0.67 U	0.67 U	0.73 B	0.67 U	0.67 U	0.67 U	0.86 B	0.67 U
Copper	200	14.4 B	4.2 B	14.2 B	6.5 B	69.7	58.9	3.6 U	3.6 U	4.0 B	3.6 U
Iron	300	853	31 U	414	45.4 B	2,000	1,110	52.4 B	31 U	338	39.8 B
Lead	25	4.2 U	4.2 U	4.2 U	4.2 U	15.5	9.8 B	4.2 U	4.2 U	4.2 U	4.2 U
Magnesium	35,000	3,720	3,870	5,100	5,180	2,770	2,870	3,210	3,390	3,180	3,180
Manganese	300	17.7 B	10 U	10 U	10 U	18.4 B	14.4 B	68.2	67.4	21.8 B	10 U
Mercury	0.7	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U
Nickel	100	4.6 B	3.3 B	3.8 B	3.4 B	17.5 B	15.8 B	2.3 B	2.9 B	2.4 B	2.0 B
Potassium	NC	1,710 E	1,660	2,560 E	2,480	2,340 E	2,460	5,410 E	5,440	753 B	552 B
Selenium	10	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Silver	50	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U
Sodium	20,000	21,400	22,900	30,800	31,000	13,400	14,400	18,100	19,000	10,000	10,300
Thallium	0.50	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Vanadium	NC	1.4 B	1.1 U	1.1 B	1.1 U	4.9 B	3.2 B	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	2,000	51.0	26.1 B	19.6 B	19.3 B	257	220	10.5 B	10.3 B	12.4 B	7.9 B

Notes: All values in µg/L
NC - No NYSDEC criterion
BOLD/Italics - Exceeds criterion
E - Estimated value due to interference
U - Not Detected
B - Estimated value

APPENDIX C TABLE 1
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-10	MW-10	MW-16	MW-16	MW-12	MW-12	MW-14	MW-14	MW-18	MW-18
Sample ID	Class GA	LMW-10	LMW-10F	LMW-16	LMW-16F	LMW-12	LMW-12F	LMW-14	LMW-14F	LMW-18	LMW-18F
Laboratory ID	Ground	L1807-10	L1808-10	L1807-11	L1808-11	L1807-06	L1808-06	L1807-07	L1808-07	L1807-04	L1808-04
Sample Date	Water	8/23/12	8/23/12	8/23/12	8/23/12	8/21/12	8/21/12	8/21/12	8/21/12	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	159 B	66 U	340	322	1,560	66 U	314	954	66 U	164 B
Antimony	3	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Arsenic	25	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U
Barium	1,000	28.7 B	28.1 B	339	339	44.6 B	48.2 B	47.2 B	43.3 B	61.3 B	64.8 B
Beryllium	3	0.26 U	0.26 U	0.7 B	0.72 B	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cadmium	5	36.1	34.9	4.2 B	4.3 B	4.4 B	9.3	9.3	3.7 B	0.89 U	0.89 U
Calcium	NC	25,900	26,000	12,100	11,700	10,900	28,900	28,100	10,900	15,800	15,700
Chromium	50	152	155	2.8 B	2.3 B	103	0.64 U	2.4 B	88.2	1.9 B	3.1 B
Cobalt	NC	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Copper	200	3.6 U	3.6 U	66.6	63.0	10.6 B	3.6 U	5.0 B	7.2 B	3.6 U	3.6 U
Iron	300	391	31 U	49.9 B	31 U	1,740	39.0 B	279	1,180	31 U	277
Lead	25	4.2 U	4.2 U	4.2 U	4.2 U	19.4	4.2 U	4.2 U	13.2	4.2 U	4.2 U
Magnesium	35,000	3,640	3,650	3,740	3,680	2,540	5,600	5,450	2,470	3,720	3,650
Manganese	300	18.9 B	10 U	661	632	211	10 U	10 U	211	39.1 B	539
Mercury	0.7	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U
Nickel	100	3.5 B	3.5 B	11.8 B	12.0 B	6.4 B	2.0 B	1.1 B	6.1 B	0.85 U	1.5 B
Potassium	NC	4,810 E	4,770	6,010 E	5,860	4,350 E	2,970	2,990 E	4,170	9,220 E	8,720
Selenium	10	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Silver	50	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U
Sodium	20,000	14,800	14,900	13,900	13,500	15,400	16,200	15,400	15,400	26,600	26,000
Thallium	0.50	6 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Vanadium	NC	1.1 U	1.1 U	1.1 U	1.1 U	3.9 B	1.1 U	1.9 B	2.3 B	1.1 U	1.1 U
Zinc	2,000	4.9 U	4.9 U	34.2 B	33.2 B	32.5 B	55.9	56.3	25.5 B	16.0 B	8.0 B

Notes: All values in µg/L
NC - No NYSDEC criterion
BOLD/Italics - Exceeds criterion
E - Estimated value due to interference
U - Not Detected
B - Estimated value

APPENDIX C TABLE 1
LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)
AUGUST 2012 SAMPLING EVENT
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-19	MW-19	MW-20	MW-20	MW-21	MW-21
Sample ID	Class GA	LMW-19	LMW-19F	LMW-20	LMW-20F	LMW-21	LMW-21F
Laboratory ID	Ground	L1807-05	L1808-05	L1807-09	L1808-09	L1807-08	L1808-08
Sample Date	Water	8/21/12	8/21/12	8/21/12	8/21/12	8/21/12	8/21/12
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	66 U	66 U	411	66 U	746	66 U
Antimony	3	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	11.9 B
Arsenic	25	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U
Barium	1,000	11.5 B	9.5 B	42.1 B	40 B	92.6 B	85.9 B
Beryllium	3	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cadmium	5	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Calcium	NC	10,600	10,100	17,400	16,900	14,300	14,200
Chromium	50	0.81 B	0.64 U	2.0 B	0.91 B	13.2 B	10.6 B
Cobalt	NC	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Copper	200	3.6 U	3.6 U	3.6 U	3.6 U	3.9 B	3.6 U
Iron	300	32.8 B	31 U	398	31 U	1,330	31 U
Lead	25	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Magnesium	35,000	4,130	3,920	8,990	8,870	6,050	5,820
Manganese	300	10 U	10 U	23.2 B	10 U	96.1	56.7
Mercury	0.7	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U
Nickel	100	0.85 U	0.85 U	0.85 U	1.0 B	2.8 B	2.4 B
Potassium	NC	890 B	867 B	1,840 E	1,710	7,500 E	7,050
Selenium	10	12 U	12 U	12 U	12 U	12 U	12 U
Silver	50	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U
Sodium	20,000	14,500	13,700	21,700	21,400	19,700	19,400
Thallium	0.50	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
Vanadium	NC	1.1 U	1.1 U	1.1 U	1.1 U	1.8 B	1.1 U
Zinc	2,000	4.9 U	4.9 U	4.9 U	4.9 U	15.5 B	6.0 B

Notes:

All values in µg/L

NC - No NYSDEC criterion

BOLD/Italics - Exceeds criterion

E - Estimated value due to interference

U - Not Detected

B - Estimated value

Report Date:
13-Sep-12 10:42



☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

AECOM Environment
100 Red Schoolhouse Road Suite B-1
Chestnut Ridge, NY 10977

Work Order: L1807
Project : Multi Site G - Liberty/Dzus
Project #: 60135736

Attn: Paul Kareth

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
L1807-01	LMW-5	Aqueous	20-Aug-12 14:00	24-Aug-12 13:47
L1807-02	LMW-55	Aqueous	20-Aug-12 14:05	24-Aug-12 13:47
L1807-03	LMW-6	Aqueous	20-Aug-12 14:20	24-Aug-12 13:47
L1807-04	LMW-18	Aqueous	21-Aug-12 11:50	24-Aug-12 13:47
L1807-05	LMW-19	Aqueous	21-Aug-12 12:00	24-Aug-12 13:47
L1807-06	LMW-12	Aqueous	21-Aug-12 14:55	24-Aug-12 13:47
L1807-07	LMW-14	Aqueous	21-Aug-12 15:20	24-Aug-12 13:47
L1807-08	LMW-21	Aqueous	21-Aug-12 17:20	24-Aug-12 13:47
L1807-09	LMW-20	Aqueous	21-Aug-12 17:25	24-Aug-12 13:47
L1807-10	LMW-10	Aqueous	23-Aug-12 09:05	27-Aug-12 13:32
L1807-11	LMW-16	Aqueous	23-Aug-12 09:20	27-Aug-12 13:32
L1807-12	LMW-2	Aqueous	23-Aug-12 11:15	27-Aug-12 13:32
L1807-13	LMW-3	Aqueous	23-Aug-12 11:55	27-Aug-12 13:32
L1807-14	LMW-4	Aqueous	23-Aug-12 13:40	27-Aug-12 13:32
L1807-15	DMW-13A	Aqueous	22-Aug-12 18:45	27-Aug-12 13:32
L1807-16	DMW-22B	Aqueous	23-Aug-12 16:12	27-Aug-12 13:32
L1807-17	DMW-22A	Aqueous	23-Aug-12 16:25	27-Aug-12 13:32
L1807-18	DMW-18	Aqueous	23-Aug-12 18:30	27-Aug-12 13:32
L1807-19	DMW-2	Aqueous	22-Aug-12 10:15	27-Aug-12 13:32
L1807-20	DMW-3	Aqueous	22-Aug-12 11:50	27-Aug-12 13:32
L1807-21	DMW-9	Aqueous	22-Aug-12 12:50	27-Aug-12 13:32
L1807-22	DMW-9B	Aqueous	22-Aug-12 12:05	27-Aug-12 13:32
L1807-23	DMW-52	Aqueous	22-Aug-12 10:25	27-Aug-12 13:32
L1807-24	DMW-15B	Aqueous	22-Aug-12 15:25	27-Aug-12 13:32
L1807-25	DMW-15A	Aqueous	22-Aug-12 15:30	27-Aug-12 13:32
L1807-26	DMW-23B	Aqueous	22-Aug-12 17:15	27-Aug-12 13:32
L1807-27	DMW-13B	Aqueous	22-Aug-12 17:20	27-Aug-12 13:32
L1807-28	DMW-23A	Aqueous	22-Aug-12 18:10	27-Aug-12 13:32

Report Date:
13-Sep-12 10:42



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

AECOM Environment
100 Red Schoolhouse Road Suite B-1
Chestnut Ridge, NY 10977

Work Order: L1807
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<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
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I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G -- 60135736

SDG : L1807

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
LMW-5	L1807-01				SW6010_W	
LMW-5	L1807-01				SW7470	
LMW-55	L1807-02				SW6010_W	
LMW-55	L1807-02				SW7470	
LMW-6	L1807-03				SW6010_W	
LMW-6	L1807-03				SW7470	
LMW-18	L1807-04				SW6010_W	
LMW-18	L1807-04				SW7470	
LMW-19	L1807-05				SW6010_W	
LMW-19	L1807-05				SW7470	
LMW-12	L1807-06				SW6010_W	
LMW-12	L1807-06				SW7470	
LMW-14	L1807-07				SW6010_W	
LMW-14	L1807-07				SW7470	
LMW-21	L1807-08				SW6010_W	
LMW-21	L1807-08				SW7470	
LMW-20	L1807-09				SW6010_W	
LMW-20	L1807-09				SW7470	
LMW-10	L1807-10				SW6010_W	
LMW-10	L1807-10				SW7470	
LMW-16	L1807-11				SW6010_W	
LMW-16	L1807-11				SW7470	
LMW-2	L1807-12				SW6010_W	
LMW-2	L1807-12				SW7470	
LMW-3	L1807-13				SW6010_W	
LMW-3	L1807-13				SW7470	
LMW-4	L1807-14				SW6010_W	
LMW-4	L1807-14				SW7470	
DMW-13A	L1807-15				SW6010_W	
DMW-13A	L1807-15				SW7470	
DMW-22B	L1807-16				SW6010_W	
DMW-22B	L1807-16				SW7470	
DMW-22A	L1807-17				SW6010_W	
DMW-22A	L1807-17				SW7470	
DMW-18	L1807-18				SW6010_W	
DMW-18	L1807-18				SW7470	
DMW-2	L1807-19				SW6010_W	
DMW-2	L1807-19				SW7470	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G -- 60135736

SDG : L1807

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
DMW-3	L1807-20				SW6010_W	
DMW-3	L1807-20				SW7470	
DMW-9	L1807-21				SW6010_W	
DMW-9	L1807-21				SW7470	
DMW-9B	L1807-22				SW6010_W	
DMW-9B	L1807-22				SW7470	
DMW-52	L1807-23				SW6010_W	
DMW-52	L1807-23				SW7470	
DMW-15B	L1807-24				SW6010_W	
DMW-15B	L1807-24				SW7470	
DMW-15A	L1807-25				SW6010_W	
DMW-15A	L1807-25				SW7470	
DMW-23B	L1807-26				SW6010_W	
DMW-23B	L1807-26				SW7470	
DMW-13B	L1807-27				SW6010_W	
DMW-13B	L1807-27				SW7470	
DMW-23A	L1807-28				SW6010_W	
DMW-23A	L1807-28				SW7470	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Preparation and Analysis Summary ME

Project Name : Multi Site G -- 60135736

SDG : L1807

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_W				
L1807-01A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-01ADUP	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-01AMS	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-02A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-03A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-04A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-05A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-06A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-07A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-08A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-09A	AQ	SW6010_W	8/24/2012	8/30/2012
L1807-10A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-11A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-12A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-13A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-14A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-15A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-16A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-17A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-18A	AQ	SW6010_W	8/27/2012	8/30/2012
L1807-19A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-19ADUP	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-19AMS	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-20A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-21A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-22A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-23A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-24A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-25A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-26A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-27A	AQ	SW6010_W	8/27/2012	8/31/2012
L1807-28A	AQ	SW6010_W	8/27/2012	8/31/2012
SW7470				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Preparation and Analysis Summary ME

Project Name : Multi Site G -- 60135736

SDG : L1807

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
L1807-01A	AQ	SW7470	8/24/2012	8/30/2012
L1807-01ADUP	AQ	SW7470	8/24/2012	8/30/2012
L1807-01AMS	AQ	SW7470	8/24/2012	8/30/2012
L1807-02A	AQ	SW7470	8/24/2012	8/30/2012
L1807-03A	AQ	SW7470	8/24/2012	8/30/2012
L1807-04A	AQ	SW7470	8/24/2012	8/30/2012
L1807-05A	AQ	SW7470	8/24/2012	8/30/2012
L1807-06A	AQ	SW7470	8/24/2012	8/30/2012
L1807-07A	AQ	SW7470	8/24/2012	8/30/2012
L1807-08A	AQ	SW7470	8/24/2012	8/30/2012
L1807-09A	AQ	SW7470	8/24/2012	8/30/2012
L1807-10A	AQ	SW7470	8/27/2012	8/30/2012
L1807-11A	AQ	SW7470	8/27/2012	8/30/2012
L1807-12A	AQ	SW7470	8/27/2012	8/30/2012
L1807-13A	AQ	SW7470	8/27/2012	8/30/2012
L1807-14A	AQ	SW7470	8/27/2012	8/30/2012
L1807-15A	AQ	SW7470	8/27/2012	8/30/2012
L1807-16A	AQ	SW7470	8/27/2012	8/30/2012
L1807-17A	AQ	SW7470	8/27/2012	8/30/2012
L1807-18A	AQ	SW7470	8/27/2012	8/30/2012
L1807-19A	AQ	SW7470	8/27/2012	8/30/2012
L1807-19ADUP	AQ	SW7470	8/27/2012	8/30/2012
L1807-19AMS	AQ	SW7470	8/27/2012	8/30/2012
L1807-20A	AQ	SW7470	8/27/2012	8/30/2012
L1807-21A	AQ	SW7470	8/27/2012	8/30/2012
L1807-22A	AQ	SW7470	8/27/2012	8/30/2012
L1807-23A	AQ	SW7470	8/27/2012	8/30/2012
L1807-24A	AQ	SW7470	8/27/2012	8/30/2012
L1807-25A	AQ	SW7470	8/27/2012	8/30/2012
L1807-26A	AQ	SW7470	8/27/2012	8/30/2012
L1807-27A	AQ	SW7470	8/27/2012	8/30/2012
L1807-28A	AQ	SW7470	8/27/2012	8/30/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1807

Client ID: AECOM_CHSNTRDG

Project: Multi Site G

WO Name: Multi Site G - Liberty/Dzus

Location: MULTI_SITE, 60135736

Comments: send invoice to Paul according to e-mail on 5/28/08

Case:

SDG:

PO: 95900-04

HC Due: 09/13/12

Fax Due:

Fax Report: ☐

Report Level: ASP-B

Special Program:

EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1807-01A	LMW-5	08/20/2012 14:00	08/24/2012	Aqueous	SW6010_W	/ TAL			Y	Y	M6
L1807-01A	LMW-5	08/20/2012 14:00	08/24/2012	Aqueous	SW7470	/ TAL				Y	M6
L1807-02A	LMW-55	08/20/2012 14:05	08/24/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-02A	LMW-55	08/20/2012 14:05	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-03A	LMW-6	08/20/2012 14:20	08/24/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-03A	LMW-6	08/20/2012 14:20	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-04A	LMW-18	08/21/2012 11:50	08/24/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-04A	LMW-18	08/21/2012 11:50	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-05A	LMW-19	08/21/2012 12:00	08/24/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-05A	LMW-19	08/21/2012 12:00	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-06A	LMW-12	08/21/2012 14:55	08/24/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-06A	LMW-12	08/21/2012 14:55	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-07A	LMW-14	08/21/2012 15:20	08/24/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-07A	LMW-14	08/21/2012 15:20	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-08A	LMW-21	08/21/2012 17:20	08/24/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-08A	LMW-21	08/21/2012 17:20	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-09A	LMW-20	08/21/2012 17:25	08/24/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-09A	LMW-20	08/21/2012 17:25	08/24/2012	Aqueous	SW7470	/ TAL					M6
L1807-10A	LMW-10	08/23/2012 09:05	08/27/2012	Aqueous	SW6010_W	/ TAL			Y		M6
L1807-10A	LMW-10	08/23/2012 09:05	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-11A	LMW-16	08/23/2012 09:20	08/27/2012	Aqueous	SW6010_W	/ TAL			Y		M6

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1807

Client ID: AECOM_CHSNTRDG

Project: Multi Site G

WO Name: Multi Site G - Liberty/Dzus

Location: MULTI_SITE, 60135736

Comments: send invoice to Paul according to e-mail on 5/28/08

Case:

SDG:

PO: 95900-04

HC Due: 09/13/12

Fax Due:

Fax Report: ☐

Report Level: ASP-B

Special Program:

EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1807-11A	LMW-16	08/23/2012 09:20	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-12A	LMW-2	08/23/2012 11:15	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-12A	LMW-2	08/23/2012 11:15	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-13A	LMW-3	08/23/2012 11:55	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-13A	LMW-3	08/23/2012 11:55	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-14A	LMW-4	08/23/2012 13:40	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-14A	LMW-4	08/23/2012 13:40	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-15A	DMW-13A	08/22/2012 18:45	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-15A	DMW-13A	08/22/2012 18:45	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-16A	DMW-22B	08/23/2012 16:12	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-16A	DMW-22B	08/23/2012 16:12	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-17A	DMW-22A	08/23/2012 16:25	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-17A	DMW-22A	08/23/2012 16:25	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-18A	DMW-18	08/23/2012 18:30	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-18A	DMW-18	08/23/2012 18:30	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-19A	DMW-2	08/22/2012 10:15	08/27/2012	Aqueous	SW6010_W	/ TAL			Y	Y	M6
L1807-19A	DMW-2	08/22/2012 10:15	08/27/2012	Aqueous	SW7470	/ TAL			Y		M6
L1807-20A	DMW-3	08/22/2012 11:50	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-20A	DMW-3	08/22/2012 11:50	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-21A	DMW-9	08/22/2012 12:50	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-21A	DMW-9	08/22/2012 12:50	08/27/2012	Aqueous	SW7470	/ TAL					M6

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1807

Client ID: AECOM_CHSNTRDG

Project: Multi Site G

WO Name: Multi Site G - Liberty/Dzus

Location: MULTI_SITE, 60135736

Comments: send invoice to Paul according to e-mail on 5/28/08

Case:

SDG:

PO: 95900-04

HC Due: 09/13/12

Fax Due:

Fax Report: ☐

Report Level: ASP-B

Special Program:

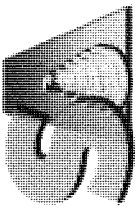
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1807-22A	DMW-9B	08/22/2012 12:05	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-22A	DMW-9B	08/22/2012 12:05	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-23A	DMW-52	08/22/2012 10:25	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-23A	DMW-52	08/22/2012 10:25	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-24A	DMW-15B	08/22/2012 15:25	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-24A	DMW-15B	08/22/2012 15:25	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-25A	DMW-15A	08/22/2012 15:30	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-25A	DMW-15A	08/22/2012 15:30	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-26A	DMW-23B	08/22/2012 17:15	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-26A	DMW-23B	08/22/2012 17:15	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-27A	DMW-13B	08/22/2012 17:20	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-27A	DMW-13B	08/22/2012 17:20	08/27/2012	Aqueous	SW7470	/ TAL					M6
L1807-28A	DMW-23A	08/22/2012 18:10	08/27/2012	Aqueous	SW6010_W	/ TAL				Y	M6
L1807-28A	DMW-23A	08/22/2012 18:10	08/27/2012	Aqueous	SW7470	/ TAL					M6

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Sample Transmittal Documentation



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 4

Special Handling:

TAT- Indicate Date Needed: _____
• All TATs subject to laboratory approval.
• Min. 24-hour notification needed for rushes.
• Samples disposed of after 30 days unless otherwise instructed.

Report To: AECOM
100 Red school house Rd
Suite B-1
Chestnut Ridge NY 10971
Project Mgr.: Paula Koreth

Invoice To: Same as Report
P.O. No.: 60135736 RQN: ←

Project No.: 60135736
Site Name: LIBERTY/MULTI G SITES
Location: BRENTWOOD State: NV
Sampler(s): CELESTE FOSTER/KITA
PAPAGIAN

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9= 10= 11=

List preservative code below:

Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

Containers:

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Analyses:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

Matrix

Type

Time Date: 8/23/12 Time: 4

Lab Id: Sample Id:

10	LMW-10	0905	8/23/12	GW	0	0	0	1	X
11	LMW-16	0920			0	0	0	1	X
12	LMW-2	1115			0	0	0	1	X
13	LMW-3	1155			0	0	0	1	X
14	LMW-4	1340			0	0	0	1	X
	LMW-10F	0910			0	0	0	1	X
	LMW-16F	0915			0	0	0	1	X
	LMW-2F	1120			0	0	0	1	X
	LMW-3F	1150			0	0	0	1	X
	LMW-4F	1345			0	0	0	1	X

Fielded

E-mail to: Paula.Koreth@aecom.com
EDD Format: NYSDEC EQUIS EDD

Relinquished by:

Received by:

Time:

Date: 8-24-12 12:10

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 4



SPECTRUM ANALYTICAL, INC.
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 4

Special Handling:

- TAT- Indicate Date Needed: _____
• All TATs subject to laboratory approval.
• Min. 24-hour notification needed for rushes.
• Samples disposed of after 30 days unless otherwise instructed.

Report To: Aecom
100 Red Schoolhouse Rd
Suite B-1
Chestnut Ridge, NY 10977

Invoice To: Same as Report

Project No.: 60135736

Project Mgr.: Paul Kareth

P.O. No.: 60135736 RQN: 60135736

Site Name: Dzus / Multi Sites G

Location: West Islip State: NY

Sampler(s): Celeste Foster / Rita Papagian

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid 7= CH_3OH
8= NaHSO_4 9=_____ 10=_____ 11=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

Notes:

List preservative code below:

Analyses:

Containers:

QA/QC Reporting Level

State specific reporting standards:

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
19	DMW-2	8/22/12	1015	G	GW	0	0	0	3
20	DMW-3		1150	G		0	0	0	1
21	DMW-9		1250	G		0	0	0	1
22	DMW-9B		1205	G		0	0	0	1
23	DMW-52		1025	G		0	0	0	1
24	DMW-15B		1525			0	0	0	1
25	DMW-15A		1530			0	0	0	1
26	DMW-23B		1715			0	0	0	1
27	DMW-13B		1720			0	0	0	1
28	DMW-23A		1810			0	0	0	1

E-mail to Paul.kareth@acem.com

Received by:

Date:

Time:

EDD Format NYS DEC Equis EDD

Relinquished by:

Date:

Time:

Condition upon receipt: ☒ Iced ☐ Ambient ☒ °C 4

Sub-bridge

8/27/12

13:30

Received By: <i>Veronica B...</i>		Page 01 of 00	
Reviewed By: <i>[Signature]</i>		Log-in Date 08/24/2012	
Work Order: L1807		Client Name: AECOM Technical Services, Inc.	
Project Name/Event: Multi Site G			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			
		Lab Sample ID	Preservation (pH)
			HNO3 H2SO4 HCl NaOH H3PO4
			VOA Matrix
			Soil HeadSpace or Air Bubble > or equal to 1/4"
1. Custody Seal(s)	Present / Absent	L1807-01	<2
	Intact / Broken	L1807-02	<2
2. Custody Seal Nos.	N/A	L1807-03	<2
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	L1807-04	<2
		L1807-05	<2
		L1807-06	<2
		L1807-07	<2
4. Airbill	AirBill / Sticker	L1807-08	<2
	Present / Absent	L1807-09	<2
5. Airbill No.	Courier N/A		
6. Sample Tags	Present / Absent		
Sample Tag Numbers	Listed /		
	Not Listed on Chain-of-Custody		
7. Sample Condition	Intact / Broken / Leaking		
8. Cooler Temperature Indicator Bottle	Present / Absent		
9. Cooler Temperature	3 °C		
10. Does information on TR/COCs and sample tags agree?	Yes / No		
11. Date Received at Laboratory	08/24/2012		
12. Time Received	13:47		
Sample Transfer			
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO		
Area #	Area #		
By	By		
On	On		
IR Temp Gun ID: MT-1		VOA Matrix Key:	
Coolant Condition: ICE		US = Unpreserved Soil A = Air	
Preservative Name/Lot No:		UA = Unpreserved Aqueous H = HCl	
		M = MeOH E = Encore	
		N = NaHSO4 F = Freeze	
		See Sample Condition Notification/Corrective Action Form Yes / No	
		Rad OK Yes / No	

Received By: <u>AT</u>				Page 01 of 01					
Reviewed By: <u>Jodie Warner</u>				Log-in Date 08/27/2012					
Work Order: L1807		Client Name: AECOM Technical Services, Inc.							
Project Name/Event: Multi Site G									
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.									
		Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
			HNO3	H2SO4	HCl	NaOH	H3PO4		
1. Custody Seal(s)	Present / Absent	L1807-10	<2						
	Intact / Broken	L1807-11	<2						
2. Custody Seal Nos.	N/A	L1807-12	<2						
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	L1807-13	<2						
		L1807-14	<2						
		L1807-15	<2						
		L1807-16	<2						
4. Airbill	AirBill / Sticker	L1807-17	<2						
	Present / Absent	L1807-18	<2						
5. Airbill No.	Courier N/A	L1807-19	<2						
		L1807-20	<2						
6. Sample Tags	Present / Absent	L1807-21	<2						
Sample Tag Numbers	Listed / Not Listed on Chain-of-Custody	L1807-22	<2						
		L1807-23	<2						
		L1807-24	<2						
		L1807-25	<2						
7. Sample Condition	Intact / Broken / Leaking	L1807-26	<2						
		L1807-27	<2						
		L1807-28	<2						
8. Cooler Temperature Indicator Bottle	Present / Absent								
9. Cooler Temperature	4 °C								
10. Does information on TR/COCs and sample tags agree?	Yes / No								
11. Date Received at Laboratory	08/27/2012								
12. Time Received	13:32								
Sample Transfer									
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO								
Area #	Area #								
By	By								
On	On								
IR Temp Gun ID:MT-1		VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze							
Coolant Condition: ICE									
Preservative Name/Lot No:									
		See Sample Condition Notification/Corrective Action Form Yes / No							
		Rad OK Yes / No							



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Metals ***

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : AECOM Environment

Project: Multi Site G - Liberty/Dzus

Laboratory Workorder / SDG #: L1807

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform analysis:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on samples: DMW-2 (L1807-19AMS) and LMW-5 (L1807-01AMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analyses were performed on samples: DMW-2 (L1807-19ADUP) and LMW-5 (L1807-01ADUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on samples: DMW-2 (L1807-19ASD) and LMW-5 (L1807-01ASD).

Percent differences were within the QC limits with the exception of the following:

LMW-5 (L1807-01ASD), Serial Dilution analysis not within control limit for Potassium.

DMW-2 (L1807-19ASD), Serial Dilution analysis not within control limit for Calcium, Iron and Sodium.

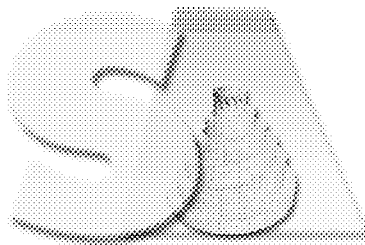
G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

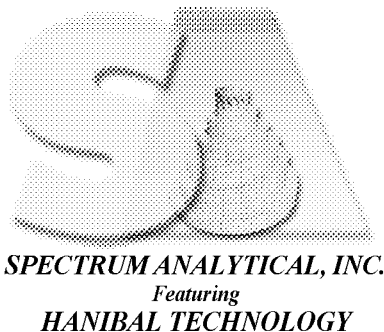
Date: 09/13/12



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Data Flag/Qualifiers:

- U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).
- J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
 - estimated concentration for Tentatively Identified Compound
- B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a “trace” concentration below the reporting limit and equal to or above the detection limit.
- D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis
- E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
- P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.
- A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.
- N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.
- * For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

- DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS Matrix Spike.
- MSD Matrix Spike Duplicate
- DUP Duplicate analysis
- SD Serial Dilution
- PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

U.S.EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

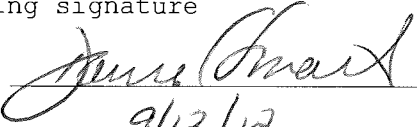
Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1807
SOW No.: SW846

EPA Sample No.	Lab Sample ID
<u>DMW-13A</u>	<u>L1807-15</u>
<u>DMW-13B</u>	<u>L1807-27</u>
<u>DMW-15A</u>	<u>L1807-25</u>
<u>DMW-15B</u>	<u>L1807-24</u>
<u>DMW-18</u>	<u>L1807-18</u>
<u>DMW-2</u>	<u>L1807-19</u>
<u>DMW-22A</u>	<u>L1807-17</u>
<u>DMW-22B</u>	<u>L1807-16</u>
<u>DMW-23A</u>	<u>L1807-28</u>
<u>DMW-23B</u>	<u>L1807-26</u>
<u>DMW-2D</u>	<u>L1807-19DUP</u>
<u>DMW-2S</u>	<u>L1807-19MS</u>
<u>DMW-3</u>	<u>L1807-20</u>
<u>DMW-52</u>	<u>L1807-23</u>
<u>DMW-9</u>	<u>L1807-21</u>
<u>DMW-9B</u>	<u>L1807-22</u>
<u>LMW-10</u>	<u>L1807-10</u>
<u>LMW-12</u>	<u>L1807-06</u>
<u>LMW-14</u>	<u>L1807-07</u>
<u>LMW-16</u>	<u>L1807-11</u>
<u>LMW-18</u>	<u>L1807-04</u>
<u>LMW-19</u>	<u>L1807-05</u>
<u>LMW-2</u>	<u>L1807-12</u>
<u>LMW-20</u>	<u>L1807-09</u>
<u>LMW-21</u>	<u>L1807-08</u>
<u>LMW-3</u>	<u>L1807-13</u>

Were ICP interelement corrections applied? Yes/No Yes
Were background corrections applied? Yes/No Yes
If yes-were raw data generated before application of background corrections? Yes/No No

Comments:

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 hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature:  Name: Dawn E. Smart
Date: 9/13/12 Title: _____

U.S.EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1807
SOW No.: SW846

EPA Sample No.	Lab Sample ID
<u>LMW-4</u>	<u>L1807-14</u>
<u>LMW-5</u>	<u>L1807-01</u>
<u>LMW-55</u>	<u>L1807-02</u>
<u>LMW-5D</u>	<u>L1807-01DUP</u>
<u>LMW-5S</u>	<u>L1807-01MS</u>
<u>LMW-6</u>	<u>L1807-03</u>

Were ICP interelement corrections applied?	Yes/No	<u>Yes</u>
Were background corrections applied?	Yes/No	<u>Yes</u>
If yes-were raw data generated before application of background corrections?	Yes/No	<u>No</u>

Comments:

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 hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature:  Name: Dawne E. Smart
Date: 9/13/12 Title: _____

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-13A

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1807Matrix (soil/water): WATERLab Sample ID: L1807-15Level (low/med): MEDDate Received: 08/27/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	204			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	77.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	93.5			P
7440-70-2	Calcium	7850			P
7440-47-3	Chromium	2.8	B		P
7440-48-4	Cobalt	33.7	B		P
7440-50-8	Copper	6.7	B		P
7439-89-6	Iron	3690			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	936			P
7439-96-5	Manganese	6190			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.1	B		P
7440-09-7	Potassium	2250		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	47000			P
7440-28-0	Thallium	9.2	B		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	9.5	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-13B

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-27

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	23.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	1.5	B		P
7440-70-2	Calcium	11300		E	P
7440-47-3	Chromium	21.2			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U	E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1630			P
7439-96-5	Manganese	54.3			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	1340			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	9260		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-15A

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-25

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	15.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	16.8			P
7440-70-2	Calcium	13500		E	P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U	E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2460			P
7439-96-5	Manganese	238			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2110			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	20400		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-15B

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-24

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	32.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	12200		E	P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1510		E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4700			P
7439-96-5	Manganese	189			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.5	B		P
7440-09-7	Potassium	1470			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	40800		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	12.1	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-18

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-18

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	19.7	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14000			P
7440-47-3	Chromium	0.75	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	35.3	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2360			P
7439-96-5	Manganese	113			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2310		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	17900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-2

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-19

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	328			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	20.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	12500		E	P
7440-47-3	Chromium	0.73	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1590		E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1850			P
7439-96-5	Manganese	124			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium	1440			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	24400		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	18.4	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-22A

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-17

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	36.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	27600			P
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	2700			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4060			P
7439-96-5	Manganese	437			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2980		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	59700			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	16.9	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-22B

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-16

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	39.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	22400			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	110	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3860			P
7439-96-5	Manganese	748			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	4470		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	19200			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	5.7	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-23A

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-28

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	161	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	28.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	31.7			P
7440-70-2	Calcium	26700		E	P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	6.7	B		P
7439-89-6	Iron	1860		E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4950			P
7439-96-5	Manganese	1110			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	5770			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	74100		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-23B

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-26

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	103	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	29.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	69.6			P
7440-70-2	Calcium	18100		E	P
7440-47-3	Chromium	10.7	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	4.1	B		P
7439-89-6	Iron	279		E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2950			P
7439-96-5	Manganese	138			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	1760			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	15000		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	17.7	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-3

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-20

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	10.7	B		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	29.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	16.3			P
7440-70-2	Calcium	11100		E	P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	50.5	B	E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2220			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.92	B		P
7440-09-7	Potassium	2420			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	23400		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-52

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1807Matrix (soil/water): WATERLab Sample ID: L1807-23Level (low/med): MEDDate Received: 08/27/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	375			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	20.5	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	12600		E	P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.94	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1580		E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1830			P
7439-96-5	Manganese	126			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.8	B		P
7440-09-7	Potassium	1360			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	24800		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	17.8	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-9

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-21

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	163	B		P
7440-36-0	Antimony	9.5	B		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	17.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	4.9	B		P
7440-70-2	Calcium	13900		E	P
7440-47-3	Chromium	8.3	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	556		E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3300			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	1420			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	26300		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	12.9	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-9B

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1807Matrix (soil/water): WATERLab Sample ID: L1807-22Level (low/med): MEDDate Received: 08/27/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	22.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	9300		E	P
7440-47-3	Chromium	0.82	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	39.5	B	E	P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1680			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	1800			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	21400		E	P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-10

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-10

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	159	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	28.7	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	36.1			P
7440-70-2	Calcium	25900			P
7440-47-3	Chromium	152			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	391			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3640			P
7439-96-5	Manganese	18.9	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	3.5	B		P
7440-09-7	Potassium	4810		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	14800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-12

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-06

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1560			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	44.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	4.4	B		P
7440-70-2	Calcium	10900			P
7440-47-3	Chromium	103			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	10.6	B		P
7439-89-6	Iron	1740			P
7439-92-1	Lead	19.4			P
7439-95-4	Magnesium	2540			P
7439-96-5	Manganese	211			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	6.4	B		P
7440-09-7	Potassium	4350		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	15400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	3.9	B		P
7440-66-6	Zinc	32.5	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-14

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-07

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	314			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	47.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	9.3			P
7440-70-2	Calcium	28100			P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	5.0	B		P
7439-89-6	Iron	279			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	5450			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.1	B		P
7440-09-7	Potassium	2990		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	15400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	56.3			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-16

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-11

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	340			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	339			P
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	4.2	B		P
7440-70-2	Calcium	12100			P
7440-47-3	Chromium	2.8	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	66.6			P
7439-89-6	Iron	49.9	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3740			P
7439-96-5	Manganese	661			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	11.8	B		P
7440-09-7	Potassium	6010		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	13900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	34.2	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-18

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-04

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	61.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	15800			P
7440-47-3	Chromium	1.9	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3720			P
7439-96-5	Manganese	39.1	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	9220		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	26600			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	16.0	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-19

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-05

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	11.5	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	10600			P
7440-47-3	Chromium	0.81	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	32.8	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4130			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	890	B E		P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	14500			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-2

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-12

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	602			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	39.5	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	3.5	B		P
7440-70-2	Calcium	20400			P
7440-47-3	Chromium	26.7			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	14.4	B		P
7439-89-6	Iron	853			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3720			P
7439-96-5	Manganese	17.7	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium	1710		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	21400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.4	B		P
7440-66-6	Zinc	51.0			P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-20

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-09

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	411			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	42.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	17400			P
7440-47-3	Chromium	2.0	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	398			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	8990			P
7439-96-5	Manganese	23.2	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	1840		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	21700			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-21

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-08

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	746			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	92.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14300			P
7440-47-3	Chromium	13.2	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.9	B		P
7439-89-6	Iron	1330			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	6050			P
7439-96-5	Manganese	96.1			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.8	B		P
7440-09-7	Potassium	7500		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	19700			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	15.5	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-3

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-13

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	360			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	28.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	3.0	B		P
7440-70-2	Calcium	28600			P
7440-47-3	Chromium	118			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	14.2	B		P
7439-89-6	Iron	414			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	5100			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	2560		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	30800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	19.6	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-4

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-14

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1980			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	6.4	B		P
7440-39-3	Barium	22.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	28.2			P
7440-70-2	Calcium	18700			P
7440-47-3	Chromium	74.9			P
7440-48-4	Cobalt	0.73	B		P
7440-50-8	Copper	69.7			P
7439-89-6	Iron	2000			P
7439-92-1	Lead	15.5			P
7439-95-4	Magnesium	2770			P
7439-96-5	Manganese	18.4	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	17.5	B		P
7440-09-7	Potassium	2340		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	13400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	4.9	B		P
7440-66-6	Zinc	257			P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-5

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-01

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	245			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	56.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	17800			P
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	52.4	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3210			P
7439-96-5	Manganese	68.2			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	5410		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	18100			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	10.5	B		P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-55

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-02

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	249			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	58.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	18000			P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	57.4	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3300			P
7439-96-5	Manganese	71.2			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	5590		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	18500			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	11.9	B		P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-6

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Lab Sample ID: L1807-03

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	488			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	14.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	7700			P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	0.86	B		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	338			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3180			P
7439-96-5	Manganese	21.8	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	753	B	E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	10000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	12.4	B		P

Comments:

2A

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Initial Calibration Source:

Continuing Calibration Source:

	Initial Calibration			Continuing Calibration					
	08/30/12 10:07				08/30/12 10:26		08/30/12 10:44		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	5.01	100.2	5.0	4.99	99.7	5.00	100.1	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2A

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	08/30/12 8:02				08/30/12 8:20		08/30/12 08:50		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9638.94	96.4	10000.0	9841.61	98.4	9863.60	98.6	P
Antimony	500.0	499.52	99.9	500.0	508.50	101.7	518.98	103.8	P
Arsenic	500.0	486.19	97.2	500.0	497.35	99.5	499.04	99.8	P
Barium	10000.0	10129.37	101.3	10000.0	10195.46	102.0	10297.52	103.0	P
Beryllium	250.0	242.83	97.1	250.0	245.19	98.1	249.10	99.6	P
Cadmium	250.0	237.18	94.9	250.0	244.48	97.8	244.05	97.6	P
Calcium	25000.0	23571.43	94.3	25000.0	24277.68	97.1	24536.27	98.1	P
Chromium	1000.0	960.30	96.0	1000.0	976.59	97.7	980.94	98.1	P
Cobalt	2500.0	2510.18	100.4	2500.0	2558.82	102.4	2572.04	102.9	P
Copper	1250.0	1190.93	95.3	1250.0	1233.04	98.6	1211.21	96.9	P
Iron	5000.0	4927.10	98.5	5000.0	5026.57	100.5	5055.71	101.1	P
Lead	500.0	489.63	97.9	500.0	491.64	98.3	507.55	101.5	P
Magnesium	25000.0	24808.10	99.2	25000.0	25066.16	100.3	25377.49	101.5	P
Manganese	2500.0	2475.72	99.0	2500.0	2500.04	100.0	2543.25	101.7	P
Nickel	2500.0	2478.67	99.1	2500.0	2521.03	100.8	2538.51	101.5	P
Potassium	25000.0	24772.22	99.1	25000.0	25184.78	100.7	25896.18	103.6	P
Selenium	500.0	476.55	95.3	500.0	483.87	96.8	493.58	98.7	P
Silver	1250.0	1201.47	96.1	1250.0	1221.99	97.8	1211.13	96.9	P
Sodium	25000.0	24757.66	99.0	25000.0	25141.12	100.6	25712.50	102.8	P
Thallium	500.0	478.85	95.8	500.0	482.83	96.6	493.12	98.6	P
Vanadium	2500.0	2422.00	96.9	2500.0	2482.70	99.3	2474.14	99.0	P
Zinc	2500.0	2475.33	99.0	2500.0	2524.43	101.0	2527.43	101.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 9:27		08/30/12 10:08		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9935.27	99.4	9832.76	98.3	P
Antimony				500.0	521.68	104.3	525.92	105.2	P
Arsenic				500.0	498.12	99.6	499.96	100	P
Barium				10000.0	10199.81	102.0	10314.39	103.1	P
Beryllium				250.0	247.49	99.0	251.40	100.6	P
Cadmium				250.0	246.20	98.5	244.58	97.8	P
Calcium				25000.0	24277.71	97.1	24200.02	96.8	P
Chromium				1000.0	987.98	98.8	979.77	98.0	P
Cobalt				2500.0	2601.37	104.1	2582.67	103.3	P
Copper				1250.0	1219.52	97.6	1199.94	96.0	P
Iron				5000.0	5102.38	102.0	5064.77	101.3	P
Lead				500.0	501.86	100.4	504.02	100.8	P
Magnesium				25000.0	25182.32	100.7	25646.27	102.6	P
Manganese				2500.0	2531.13	101.2	2567.79	102.7	P
Nickel				2500.0	2562.22	102.5	2539.41	101.6	P
Potassium				25000.0	25702.71	102.8	26053.43	104.2	P
Selenium				500.0	488.82	97.8	489.28	97.9	P
Silver				1250.0	1218.14	97.5	1181.60	94.5	P
Sodium				25000.0	25379.86	101.5	25353.99	101.4	P
Thallium				500.0	477.70	95.5	492.98	98.6	P
Vanadium				2500.0	2495.77	99.8	2470.33	98.8	P
Zinc				2500.0	2555.51	102.2	2553.72	102.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 10:41		08/30/12 11:18		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9947.19	99.5	9990.43	99.9	P
Antimony				500.0	531.80	106.4	544.31	108.9	P
Arsenic				500.0	499.20	99.8	505.20	101.0	P
Barium				10000.0	10261.94	102.6	10360.39	103.6	P
Beryllium				250.0	249.84	99.9	252.81	101.1	P
Cadmium				250.0	245.56	98.2	248.38	99.4	P
Calcium				25000.0	24354.81	97.4	24623.99	98.5	P
Chromium				1000.0	985.14	98.5	990.86	99.1	P
Cobalt				2500.0	2602.35	104.1	2622.31	104.9	P
Copper				1250.0	1211.71	96.9	1217.80	97.4	P
Iron				5000.0	5103.54	102.1	5138.76	102.8	P
Lead				500.0	504.45	100.9	508.00	101.6	P
Magnesium				25000.0	25405.61	101.6	25757.08	103.0	P
Manganese				2500.0	2555.15	102.2	2587.93	103.5	P
Nickel				2500.0	2556.95	102.3	2574.01	103.0	P
Potassium				25000.0	26413.83	105.7	26430.99	105.7	P
Selenium				500.0	484.70	96.9	487.33	97.5	P
Silver				1250.0	1201.44	96.1	1215.62	97.2	P
Sodium				25000.0	25687.39	102.7	25614.53	102.5	P
Thallium				500.0	476.53	95.3	482.09	96.4	P
Vanadium				2500.0	2488.39	99.5	2503.91	100.2	P
Zinc				2500.0	2560.75	102.4	2582.39	103.3	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 11:59		08/30/12 12:40		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9762.85	97.6	9401.44	94.0	P
Antimony				500.0	530.61	106.1	469.31	93.9	P
Arsenic				500.0	494.51	98.9	468.04	93.6	P
Barium				10000.0	10058.18	100.6	9729.69	97.3	P
Beryllium				250.0	245.26	98.1	237.46	95.0	P
Cadmium				250.0	243.45	97.4	232.58	93.0	P
Calcium				25000.0	24002.19	96.0	22961.80	91.8	P
Chromium				1000.0	968.14	96.8	931.84	93.2	P
Cobalt				2500.0	2562.26	102.5	2465.15	98.6	P
Copper				1250.0	1189.33	95.1	1149.74	92.0	P
Iron				5000.0	5022.35	100.4	4832.41	96.6	P
Lead				500.0	497.78	99.6	471.37	94.3	P
Magnesium				25000.0	24966.63	99.9	24062.69	96.3	P
Manganese				2500.0	2510.92	100.4	2432.87	97.3	P
Nickel				2500.0	2516.06	100.6	2418.19	96.7	P
Potassium				25000.0	25937.03	103.7	24726.75	98.9	P
Selenium				500.0	472.64	94.5	456.04	91.2	P
Silver				1250.0	1181.64	94.5	1180.44	94.4	P
Sodium				25000.0	25219.14	100.9	24171.61	96.7	P
Thallium				500.0	482.22	96.4	452.28	90.5	P
Vanadium				2500.0	2452.39	98.1	2362.67	94.5	P
Zinc				2500.0	2518.07	100.7	2415.02	96.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	08/30/12 14:23				08/30/12 14:42		08/30/12 15:23		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9930.38	99.3	10000.0	9966.83	99.7	10048.42	100.5	P
Arsenic	500.0	496.77	99.4	500.0	501.72	100.3	508.25	101.6	P
Barium	10000.0	10385.29	103.9	10000.0	10337.95	103.4	10477.53	104.8	P
Beryllium	250.0	248.58	99.4	250.0	247.97	99.2	251.58	100.6	P
Cadmium	250.0	247.17	98.9	250.0	247.46	99.0	249.84	99.9	P
Calcium	25000.0	24293.30	97.2	25000.0	24150.43	96.6	24664.87	98.7	P
Chromium	1000.0	992.11	99.2	1000.0	994.46	99.4	1008.33	100.8	P
Cobalt	2500.0	2590.66	103.6	2500.0	2592.01	103.7	2619.79	104.8	P
Copper	1250.0	1232.29	98.6	1250.0	1238.95	99.1	1254.76	100.4	P
Iron	5000.0	5077.15	101.5	5000.0	5112.31	102.2	5142.94	102.9	P
Lead	500.0	503.33	100.7	500.0	502.18	100.4	509.52	101.9	P
Magnesium	25000.0	25377.96	101.5	25000.0	25378.65	101.5	25568.79	102.3	P
Manganese	2500.0	2541.05	101.6	2500.0	2532.39	101.3	2562.48	102.5	P
Nickel	2500.0	2563.27	102.5	2500.0	2566.75	102.7	2594.62	103.8	P
Potassium	25000.0	24759.20	99.0	25000.0	25252.03	101.0	24910.04	99.6	P
Selenium	500.0	500.03	100.0	500.0	501.58	100.3	504.85	101.0	P
Silver	1250.0	1252.02	100.2	1250.0	1254.61	100.4	1261.06	100.9	P
Sodium	25000.0	25049.52	100.2	25000.0	25351.06	101.4	25559.34	102.2	P
Thallium	500.0	476.21	95.2	500.0	477.80	95.6	483.07	96.6	P
Vanadium	2500.0	2509.14	100.4	2500.0	2511.32	100.5	2549.80	102.0	P
Zinc	2500.0	2550.83	102.0	2500.0	2547.50	101.9	2564.22	102.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 16:08				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10184.35	101.8			P
Arsenic				500.0	508.34	101.7			P
Barium				10000.0	10530.66	105.3			P
Beryllium				250.0	251.52	100.6			P
Cadmium				250.0	252.60	101.0			P
Calcium				25000.0	24649.09	98.6			P
Chromium				1000.0	1016.84	101.7			P
Cobalt				2500.0	2651.94	106.1			P
Copper				1250.0	1270.91	101.7			P
Iron				5000.0	5200.05	104.0			P
Lead				500.0	511.21	102.2			P
Magnesium				25000.0	25686.43	102.7			P
Manganese				2500.0	2562.53	102.5			P
Nickel				2500.0	2622.62	104.9			P
Potassium				25000.0	26215.10	104.9			P
Selenium				500.0	515.35	103.1			P
Silver				1250.0	1273.19	101.9			P
Sodium				25000.0	25878.89	103.5			P
Thallium				500.0	486.26	97.3			P
Vanadium				2500.0	2566.14	102.6			P
Zinc				2500.0	2600.60	104.0			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2A

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807Initial Calibration Source: Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/31/12 10:29		08/31/12 11:00		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Antimony				500.0	512.17	102.4	502.37	100.5	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67881**FIMS2_120830A**

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/30/12 10:27	C	08/30/12 10:46	C	08/30/12 11:04	C		C	M
Mercury	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Preparation Blank Matrix (soil/water): WATER Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L MB-67882

FIMS2_120830A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/30/12 11:22	C		C		C		C	
Mercury			0.028	U					0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67888

OPTIMA3_120830A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	08/30/12 8:24	C	08/30/12 8:53	C	08/30/12 9:31	C		C	
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	66.000	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	9.300	U	P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U	4.300	U	P
Barium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.260	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.890	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	141.375	B	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.640	U	P
Cobalt	0.7	U	0.7	U	0.7	U	0.7	U	0.670	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	31.000	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	0.850	U	P
Potassium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	12.000	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	6.900	U	P
Sodium	29.0	U	29.0	U	29.0	U	29.0	U	29.000	U	P
Thallium	6.2	U	6.2	U	-6.2	B	6.2	U	6.200	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	4.900	U	P

U.S. EPA - CLP

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Preparation Blank Matrix (soil/water): Method Blank ID:

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

OPTIMA3_120830A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	08/30/12 10:12	C	08/30/12 10:45	C	08/30/12 11:22	C		C	
Aluminum			66.0 U		66.0 U		66.0 U				P
Antimony			9.3 U		9.3 U		9.3 U				P
Arsenic			4.3 U		4.3 U		4.3 U				P
Barium			1.1 U		1.1 U		1.1 U				P
Beryllium			0.3 U		0.3 U		0.3 U				P
Cadmium			0.9 U		0.9 U		0.9 U				P
Calcium			110.0 U		111.7 B		110.0 U				P
Chromium			0.6 U		0.6 U		0.6 U				P
Cobalt			0.7 U		0.7 U		0.7 U				P
Copper			3.6 U		3.6 U		3.6 U				P
Iron			31.0 U		31.0 U		31.0 U				P
Lead			4.2 U		4.2 U		4.2 U				P
Magnesium			76.0 U		76.0 U		76.0 U				P
Manganese			10.0 U		10.0 U		10.0 U				P
Nickel			0.8 U		0.8 U		0.8 U				P
Potassium			114.4 B		76.0 U		76.0 U				P
Selenium			12.0 U		12.0 U		12.0 U				P
Silver			6.9 U		6.9 U		6.9 U				P
Sodium			29.0 U		29.0 U		29.0 U				P
Thallium			6.2 U		6.2 U		6.2 U				P
Vanadium			1.1 U		1.1 U		1.1 U				P
Zinc			4.9 U		4.9 U		4.9 U				P

3 BLANKS

OPTIMA3_120830A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/30/12 12:03	C	08/30/12 12:44	C		C		C	M
Aluminum			66.0 U		66.0 U						P
Antimony			9.3 U		9.3 U						P
Arsenic			4.3 U		4.3 U						P
Barium			1.1 U		1.1 U						P
Beryllium			0.3 U		0.3 U						P
Cadmium			0.9 U		0.9 U						P
Calcium			110.0 U		110.0 U						P
Chromium			0.6 U		0.6 U						P
Cobalt			0.7 U		0.7 U						P
Copper			3.6 U		3.6 U						P
Iron			31.0 U		31.0 U						P
Lead			4.2 U		4.2 U						P
Magnesium			76.0 U		76.0 U						P
Manganese			10.0 U		10.0 U						P
Nickel			0.8 U		0.8 U						P
Potassium			76.0 U		76.0 U						P
Selenium			12.0 U		12.0 U						P
Silver			6.9 U		6.9 U						P
Sodium			29.0 U		29.0 U						P
Thallium			6.2 U		6.2 U						P
Vanadium			1.1 U		1.1 U						P
Zinc			4.9 U		4.9 U						P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67889

OPTIMA3_120830B

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	08/30/12 14:46	C	08/30/12 15:27	C	08/30/12 16:11	C		C	
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	66.000	U	P
Arsenic	4.3	U	4.3	U	-5.7	B	4.3	U	4.300	U	P
Barium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.260	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.890	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	110.000	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.640	U	P
Cobalt	0.7	U	0.7	U	0.7	U	0.7	U	0.670	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	31.000	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	0.850	U	P
Potassium	76.0	U	76.0	U	78.8	B	76.0	U	76.000	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	12.000	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	6.900	U	P
Sodium	29.0	U	29.0	U	29.0	U	29.0	U	29.000	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	6.200	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	4.900	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67889**OPTIMA3_120831A**

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/31/12 9:29	C	08/31/12 9:57	C	08/31/12 10:32	C		C	
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	9.300	U	P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

ICP ID Number:

OPTIMA3

ICS Source:

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	527375	517131.7	103.4				
Antimony	0	600	1	633.2	105.5				
Arsenic	0	100	-3	100.4	100.4				
Barium	0	500	0	516.2	103.2				
Beryllium	0	500	0	492.2	98.4				
Cadmium	0	1000	-1	920.6	92.1				
Calcium	500000	500000	535568	524819.9	105.0				
Chromium	0	500	14	503.8	100.8				
Cobalt	0	500	0	465.3	93.1				
Copper	0	500	5	529.3	105.9				
Iron	200000	200000	183767	181511.4	90.8				
Lead	0	500	8	503.9	100.8				
Magnesium	500000	500000	498976	489185.1	97.8				
Manganese	0	500	-5	486	97.2				
Nickel	0	1000	-3	905.9	90.6				
Potassium	0	25000	148	28702.4	114.8				
Selenium	0	500	4	492.5	98.5				
Silver	0	200	-4	211.9	106.0				
Sodium	0	25000	53	28172.9	112.7				
Thallium	0	100	7	93.4	93.4				
Vanadium	0	500	-9	490.8	98.2				
Zinc	0	1000	13	938.1	93.8				

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

ICP ID Number:

OPTIMA3

ICS Source:

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	533176	539184	107.8				
Arsenic	0	100	-1	112.9	112.9				
Barium	0	500	0	537.7	107.5				
Beryllium	0	500	0	512.4	102.5				
Cadmium	0	1000	0	967.6	96.8				
Calcium	500000	500000	551929	552045.3	110.4				
Chromium	0	500	3	516.8	103.4				
Cobalt	0	500	0	487.6	97.5				
Copper	0	500	3	554	110.8				
Iron	200000	200000	188732	189215.1	94.6				
Lead	0	500	4	528.9	105.8				
Magnesium	500000	500000	503177	507362.7	101.5				
Manganese	0	500	-5	507.3	101.5				
Nickel	0	1000	-2	950.7	95.1				
Potassium	0	25000	115	29337.9	117.4				
Selenium	0	500	15	531.2	106.2				
Silver	0	200	-4	221.2	110.6				
Sodium	0	25000	39	29082.7	116.3				
Thallium	0	100	10	96.9	96.9				
Vanadium	0	500	-11	511.7	102.3				
Zinc	0	1000	12	984.6	98.5				

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.		
	A	AB	A	AB	%R	A	%R	AB	%R
Antimony	0	600	-5	599.9	100.0				

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

DMW-2S

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Level (low/med): MED

% 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
Aluminum	75-125	9830	328	9100	104		P
Antimony	75-125	473	9.3 U	456	104		P
Arsenic	75-125	486	4.3 U	456	107		P
Barium	75-125	9710	20.4 B	9100	106		P
Beryllium	75-125	238	0.26 U	227	105		P
Cadmium	75-125	239	0.89 U	227	106		P
Chromium	75-125	949	0.73 B	910	104		P
Cobalt	75-125	2390	1.2 B	2270	105		P
Copper	75-125	1180	3.6 U	1130	104		P
Iron	75-125	6360	1590	4550	105		P
Lead	75-125	476	4.2 U	455	105		P
Manganese	75-125	2500	124	2270	105		P
Nickel	75-125	2390	1.7 B	2270	105		P
Selenium	75-125	481	12.0 U	455	106		P
Silver	75-125	1180	6.9 U	1130	104		P
Thallium	75-125	453	6.2 U	455	100		P
Vanadium	75-125	2360	1.1 U	2270	104		P
Zinc	75-125	2380	18.4 B	2270	104		P
Mercury	75-125	4.9	0.028 U	4.6	108		CV

Comments:

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

LMW-5S

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Level (low/med): MED

% 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
Aluminum	75-125	9730	245	9100	104		P
Antimony	75-125	492	9.3 U	456	108		P
Arsenic	75-125	489	4.3 U	456	107		P
Barium	75-125	9680	56.9 B	9100	106		P
Beryllium	75-125	242	0.26 U	227	106		P
Cadmium	75-125	237	0.89 U	227	105		P
Chromium	75-125	943	1.7 B	910	103		P
Cobalt	75-125	2390	0.67 U	2270	105		P
Copper	75-125	1150	3.6 U	1130	102		P
Iron	75-125	4880	52.4 B	4550	106		P
Lead	75-125	478	4.2 U	455	105		P
Manganese	75-125	2480	68.2	2270	106		P
Nickel	75-125	2380	2.3 B	2270	105		P
Selenium	75-125	464	12.0 U	455	102		P
Silver	75-125	1170	6.9 U	1130	103		P
Thallium	75-125	435	6.2 U	455	96		P
Vanadium	75-125	2340	1.1 U	2270	103		P
Zinc	75-125	2390	10.5 B	2270	105		P
Mercury	75-125	5.1	0.028 U	4.6	113		CV

Comments:

U.S. EPA - CLP

6

EPA SAMPLE NO.

DUPLICATES

LMW-5D

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1807Matrix (soil/water): WATERLevel (low/med): MED% Solids for Sample: 0.0% Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	244.7529		242.7424		0.8		P
Antimony		9.3000	U	9.3000	U			P
Arsenic		4.3000	U	4.3000	U			P
Barium		56.9418	B	57.9123	B	1.7		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium		0.8900	U	0.8900	U			P
Calcium		17801.4579		17986.6328		1		P
Chromium		1.7405	B	1.8392	B	5.5		P
Cobalt		0.6700	U	0.6700	U			P
Copper		3.6000	U	3.6000	U			P
Iron		52.4219	B	51.4735	B	1.8		P
Lead		4.2000	U	4.2000	U			P
Magnesium		3211.3748		3262.1846		1.6		P
Manganese	50.0	68.2354		69.1976		1.4		P
Nickel		2.3469	B	2.0707	B	12.5		P
Potassium		5413.1481		5406.6571		0.1		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		18068.2062		17949.0372		0.7		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		1.1000	U	1.1000	U			P
Zinc		10.5196	B	10.3715	B	1.4		P
Mercury		0.0280	U	0.0280	U			CV

U.S. EPA - CLP

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EPA SAMPLE NO.

DUPLICATES

DMW-2D

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Level (low/med): MED

% 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
Aluminum	200.0	327.5384		298.8088		9.2		P
Antimony		9.3000	U	9.3000	U			P
Arsenic		4.3000	U	4.3000	U			P
Barium		20.3839	B	19.5574	B	4.1		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium		0.8900	U	0.8900	U			P
Calcium		12496.9645		12123.9216		3		P
Chromium		0.7325	B	0.6400	U	200		P
Cobalt		1.1727	B	1.0476	B	11.3		P
Copper		3.6000	U	3.6000	U			P
Iron		1594.0266		1513.5967		5.2		P
Lead		4.2000	U	4.2000	U			P
Magnesium	500.0	1848.1383		1777.6977		3.9		P
Manganese	50.0	124.2132		119.5059		3.9		P
Nickel		1.6530	B	1.8323	B	10.3		P
Potassium	1000.0	1442.5584		1283.2329		11.7		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		24417.7570		23417.0962		4.2		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		1.1000	U	1.1000	U			P
Zinc		18.3934	B	17.4806	B	5.1		P
Mercury		0.0280	U	0.0280	U			CV

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name: <u>Spectrum Analytical, Inc.</u>		Contract: <u>95900-04</u>	
Lab Code: <u>MITKEM</u>	Case No.: <u></u>	SAS No.: <u></u>	SDG No.: <u>SL1807</u>
Solid LCS Source: <u></u>		LCS(D) ID:	
Aqueous LCS Source:		LCS-67881	

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Mercury	4.6	4.82	104.8						

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	95900-04				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1807
Solid LCS Source:		LCS(D) ID:					
Aqueous LCS Source:		LCS-67882					

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Mercury	4.6	4.93	107.2						

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	95900-04				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1807
Solid LCS Source:						LCS(D) ID:	
Aqueous LCS Source:						LCS-67888	

Analyte	Aqueous (ug/L)			Solid (mg/Kg)					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	9100.0	9262.23	101.8						
Antimony	455.0	484.91	106.6						
Arsenic	455.0	475.88	104.6						
Barium	9100.0	9555.30	105.0						
Beryllium	227.0	239.11	105.3						
Cadmium	227.0	235.21	103.6						
Calcium	22700.0	22819.62	100.5						
Chromium	910.0	928.55	102.0						
Cobalt	2270.0	2356.84	103.8						
Copper	1130.0	1133.14	100.3						
Iron	4550.0	4725.35	103.9						
Lead	455.0	477.70	105.0						
Magnesium	22700.0	23756.08	104.7						
Manganese	2270.0	2383.77	105.0						
Nickel	2270.0	2355.86	103.8						
Potassium	22700.0	24378.47	107.4						
Selenium	455.0	462.34	101.6						
Silver	1130.0	1150.97	101.9						
Sodium	22700.0	23731.99	104.5						
Thallium	455.0	433.14	95.2						
Vanadium	2270.0	2301.06	101.4						
Zinc	2270.0	2341.03	103.1						

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name: <u>Spectrum Analytical, Inc.</u>	Contract: <u>95900-04</u>
Lab Code: <u>MITKEM</u> Case No.: _____	SAS No.: _____ SDG No.: <u>SL1807</u>
Solid LCS Source: _____	LCS(D) ID:
Aqueous LCS Source:	LCS-67889

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	9100.0	9258.57	101.7						
Antimony	455.0	456.01	100.2						
Arsenic	455.0	478.56	105.2						
Barium	9100.0	9564.89	105.1						
Beryllium	227.0	236.04	104.0						
Cadmium	227.0	234.11	103.1						
Calcium	22700.0	22741.04	100.2						
Chromium	910.0	932.52	102.5						
Cobalt	2270.0	2335.83	102.9						
Copper	1130.0	1146.66	101.5						
Iron	4550.0	4691.22	103.1						
Lead	455.0	474.29	104.2						
Magnesium	22700.0	23446.78	103.3						
Manganese	2270.0	2346.75	103.4						
Nickel	2270.0	2352.16	103.6						
Potassium	22700.0	22903.58	100.9						
Selenium	455.0	467.77	102.8						
Silver	1130.0	1159.33	102.6						
Sodium	22700.0	23304.70	102.7						
Thallium	455.0	451.54	99.2						
Vanadium	2270.0	2310.05	101.8						
Zinc	2270.0	2312.97	101.9						

U.S. EPA - CLP

9

EPA SAMPLE NO.

ICP SERIAL DILUTIONS

LMW-5

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1807Matrix (soil/water): WATERLevel (low/med): MEDConcentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	244.75		330.00	U	100		P
Antimony	9.30	U	46.50	U			P
Arsenic	4.30	U	21.50	U			P
Barium	56.94	B	61.94	B	9		P
Beryllium	0.26	U	1.30	U			P
Cadmium	0.89	U	4.45	U			P
Calcium	17801.46		18770.71		5		P
Chromium	1.74	B	3.20	U	100		P
Cobalt	0.67	U	3.35	U			P
Copper	3.60	U	18.00	U			P
Iron	52.42	B	155.00	U	100		P
Lead	4.20	U	21.00	U			P
Magnesium	3211.37		3409.06		6		P
Manganese	68.24		72.90		7		P
Nickel	2.35	B	4.25	U	100		P
Potassium	5413.15		6017.11		11	E	P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	18068.21		18882.03		5		P
Thallium	6.20	U	31.00	U			P
Vanadium	1.10	U	5.50	U			P
Zinc	10.52	B	24.50	U	100		P

U.S. EPA - CLP

9

EPA SAMPLE NO.

ICP SERIAL DILUTIONS

DMW-2

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1807

Matrix (soil/water): WATER

Level (low/med): MED

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	327.54		330.00	U	100		P
Antimony	9.30	U	46.50	U			P
Arsenic	4.30	U	21.50	U			P
Barium	20.38	B	13.36	B	34		P
Beryllium	0.26	U	1.30	U			P
Cadmium	0.89	U	4.45	U			P
Calcium	12496.96		6119.38		51	E	P
Chromium	0.73	B	3.20	U	100		P
Cobalt	1.17	B	3.35	U	100		P
Copper	3.60	U	18.00	U			P
Iron	1594.03		1080.04		32	E	P
Lead	4.20	U	21.00	U			P
Magnesium	1848.14		1294.87		30		P
Manganese	124.21		84.65		32		P
Nickel	1.65	B	4.25	U	100		P
Potassium	1442.56		806.10	B	44		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	24417.76		20973.32		14	E	P
Thallium	6.20	U	31.00	U			P
Vanadium	1.10	U	5.50	U			P
Zinc	18.39	B	24.50	U	100		P

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Instrument Type: CV InstrumentID: FIMS2 Date: 03/04/2010

Preparation Method: 7470A

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.2	0.028

Comments:

U.S. EPA - CLP

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

Instrument Type: P InstrumentID: OPTIMA3 Date: 03/03/2010

Preparation Method: 3005A

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Aluminum	308.21	200	66.0
Antimony	206.83	20	9.3
Arsenic	188.98	20	4.3
Barium	233.53	200	1.1
Beryllium	313.11	5.0	0.26
Cadmium	226.50	5.0	0.89
Calcium	227.54	800	110
Chromium	267.72	20	0.64
Cobalt	228.62	50	0.67
Copper	324.75	30	3.6
Iron	273.96	200	31.0
Lead	220.35	10	4.2
Magnesium	279.08	500	76.0
Manganese	257.61	50	10.0
Nickel	231.60	50	0.85
Potassium	766.49	1000	76.0
Selenium	196.03	30	12.0
Silver	328.07	30	6.9
Sodium	589.59	1000	29.0
Thallium	190.80	20	6.2
Vanadium	292.40	50	1.1
Zinc	206.20	50	4.9

Comments:

U.S. EPA - CLP

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

ICP ID Number: OPTIMA3 Date: 4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Co
Aluminum	308.21		0.1950780	0.0000000	0.0689271	0.0000000
Antimony	206.83	0.0581013	0.0000000	0.0549587	0.0214185	0.0000000
Arsenic	188.97	0.0098790	-0.0124040	-0.0756686	0.0157247	0.1927900
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0025914	0.0749299	0.0000000	-0.0433049
Calcium	227.54	0.0000000		7.8420900	0.5637690	253.7870000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0064696	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0241432	0.0000000	
Copper	324.75	0.0000000	0.0000000	-0.0922443	0.0000000	-0.1349370
Iron	273.95	0.0000000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.1032270	-0.0123272	0.0209682	-0.0064852	-0.0680890
Magnesium	279.07	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0301633	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0042808	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0219452	0.0000000	-0.3855700	0.0000000	-0.7432810
Silver	328.06	0.0000000	0.0000000	-0.0362359	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.0153767	-0.0040303	-0.1223880	-0.0549555	5.8333800
Titanium	334.94	0.0000000	-0.0167659	0.0000000	0.0182020	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0307673	0.0000000	0.0000000
Zinc	206.20	-0.0121647	-0.0130048	-0.0501268	-0.0144316	-0.3012520

Comments:

U.S. EPA - CLP

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807

ICP ID Number: OPTIMA3 Date: 4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Ni	Tl
Aluminum	308.21	0.0000000	0.0000000	1.5401500	0.0000000	0.0000000
Antimony	206.83	18.3748000	0.3246940	0.0000000	0.0000000	0.0000000
Arsenic	188.97	-8.8838000	0.0000000	0.2489140	0.0999179	0.1051500
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	-0.2126510	0.0000000
Calcium	227.54	5.3533500	3.5228400	3.8819800	26.7628000	0.0000000
Chromium	267.71		0.0000000	0.2043740	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.1584950	0.0000000
Copper	324.75	0.0000000		0.0000000	0.0000000	0.0000000
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0447064	0.3133570	-0.0606043	-0.1219210	-0.1744540
Magnesium	279.07	2.4873800	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000		0.0474986	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000		0.2920460
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.2759200	-0.2480870	0.0000000	-0.1215600	-0.4373880
Silver	328.06	0.0000000	0.0000000	0.2125900	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0860847	-0.1533400	-0.3345200	-0.0729483	
Titanium	334.94	0.1475450	0.0000000	0.0000000	0.0000000	0.1490420
Vanadium	292.40	-2.2898300	0.3129820	0.0000000	0.0000000	0.0000000
Zinc	206.20	-1.8283200	-0.3316020	-0.4006130	-0.1453040	-0.4071760

Comments:

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ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1807

ICP ID Number:

OPTIMA3

Date:

4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ti	V	_____	_____	_____
Aluminum	308.21	1.6328600	-0.3229200			
Antimony	206.83	-2.3648000	-1.1022500			
Arsenic	188.97	-0.2598760	0.0000000			
Barium	233.52	0.0000000	-1.4206100			
Beryllium	313.10	-1.8417600	-0.0298256			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	227.54	7.1850200	24.4780000			
Chromium	267.71	0.0000000	-0.3095710			
Cobalt	228.61	2.3045300	0.0000000			
Copper	324.75	0.0000000	-0.1578650			
Iron	273.95	0.0000000	-1.6429000			
Lead	220.35	-0.9907230	-0.0982908			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.5886010	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	-0.6097280	0.0000000			
Silver	328.06	0.0000000	-1.9059700			
Sodium	589.59	0.0000000	0.0000000			
Thallium	190.80	-0.2863380	4.5539900			
Titanium	334.94		0.0000000			
Vanadium	292.40	1.3967000				
Zinc	206.20	-0.8719450	-0.1607790			

Comments:

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ICP LINEAR RANGES (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1807
 ICP ID Number: OPTIMA3 Date: 5/10/2012

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	50000	P
Arsenic	0.20	50000	P
Barium	0.20	100000	P
Beryllium	0.20	5000	P
Cadmium	0.20	50000	P
Calcium	0.20	500000	P
Chromium	0.20	50000	P
Cobalt	0.20	100000	P
Copper	0.20	50000	P
Iron	0.20	500000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	50000	P
Nickel	0.20	100000	P
Potassium	0.20	500000	P
Selenium	0.20	50000	P
Silver	0.20	2500	P
Sodium	0.20	500000	P
Thallium	0.20	50000	P
Vanadium	0.20	50000	P
Zinc	0.20	50000	P

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: <u>Spectrum Analytical, Inc.</u>	Contract: <u>95900-04</u>
Lab Code: <u>MITKEM</u> Case No.: _____	SAS No.: _____ SDG No.: <u>SL1807</u>
Preparation Method: <u>7470A</u>	Batch ID: <u>67881</u>

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	08/29/2012		100
CCV	08/29/2012		100
ICB	08/29/2012		100
ICV	08/29/2012		100
S0	08/29/2012		100
S0.2	08/29/2012		100
S1.0	08/29/2012		100
S10.0	08/29/2012		100
S2.0	08/29/2012		100
S5.0	08/29/2012		100
DMW-13A	08/29/2012		100
DMW-18	08/29/2012		100
DMW-2	08/29/2012		100
DMW-22A	08/29/2012		100
DMW-22B	08/29/2012		100
DMW-2D	08/29/2012		100
DMW-2S	08/29/2012		100
DMW-3	08/29/2012		100
LCSW	08/29/2012		100
LMW-10	08/29/2012		100
LMW-12	08/29/2012		100
LMW-14	08/29/2012		100
LMW-16	08/29/2012		100
LMW-18	08/29/2012		100
LMW-19	08/29/2012		100
LMW-2	08/29/2012		100
LMW-20	08/29/2012		100
LMW-21	08/29/2012		100
LMW-3	08/29/2012		100
LMW-4	08/29/2012		100
LMW-5	08/29/2012		100

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
Preparation Method: 7470A Batch ID: 67881

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LMW-55	08/29/2012		100
LMW-5D	08/29/2012		100
LMW-5S	08/29/2012		100
LMW-6	08/29/2012		100
PBW	08/29/2012		100

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
Preparation Method: 7470A Batch ID: 67882

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
DMW-13B	08/29/2012		100
DMW-15A	08/29/2012		100
DMW-15B	08/29/2012		100
DMW-23A	08/29/2012		100
DMW-23B	08/29/2012		100
DMW-52	08/29/2012		100
DMW-9	08/29/2012		100
DMW-9B	08/29/2012		100
LCSW	08/29/2012		100
PBW	08/29/2012		100

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
 Preparation Method: 3005A Batch ID: 67888

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
DMW-13A	08/29/2012		50
DMW-18	08/29/2012		50
DMW-22A	08/29/2012		50
DMW-22B	08/29/2012		50
LCSW	08/29/2012		50
LMW-10	08/29/2012		50
LMW-12	08/29/2012		50
LMW-14	08/29/2012		50
LMW-16	08/29/2012		50
LMW-18	08/29/2012		50
LMW-19	08/29/2012		50
LMW-2	08/29/2012		50
LMW-20	08/29/2012		50
LMW-21	08/29/2012		50
LMW-3	08/29/2012		50
LMW-4	08/29/2012		50
LMW-5	08/29/2012		50
LMW-55	08/29/2012		50
LMW-5D	08/29/2012		50
LMW-5S	08/29/2012		50
LMW-6	08/29/2012		50
PBW	08/29/2012		50

Comments:

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
Preparation Method: 3005A Batch ID: 67889

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
DMW-13B	08/29/2012		50
DMW-15A	08/29/2012		50
DMW-15B	08/29/2012		50
DMW-2	08/29/2012		50
DMW-23A	08/29/2012		50
DMW-23B	08/29/2012		50
DMW-2D	08/29/2012		50
DMW-2S	08/29/2012		50
DMW-3	08/29/2012		50
DMW-52	08/29/2012		50
DMW-9	08/29/2012		50
DMW-9B	08/29/2012		50
LCSW	08/29/2012		50
PBW	08/29/2012		50

Comments:

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
 Instrument ID Number: FIMS2 Method: CV
 Start Date: 08/30/2012 End Date: 08/30/2012

FIMS2_120830A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	0957																X											
S0.2	1.0	0959																X											
S1.0	1.0	1001																X											
S2.0	1.0	1002																X											
S5.0	1.0	1004																X											
S10.0	1.0	1006																X											
ICV	1.0	1007																X											
ICB	1.0	1009																X											
PBW	1.0	1011																X											
LCSW	1.0	1012																X											
LMW-5	1.0	1014																X											
LMW-5D	1.0	1016																X											
LMW-5S	1.0	1017																X											
LMW-55	1.0	1019																X											
LMW-6	1.0	1021																X											
LMW-18	1.0	1022																X											
LMW-19	1.0	1024																X											
CCV	1.0	1026																X											
CCB	1.0	1027																X											
LMW-12	1.0	1029																X											
LMW-14	1.0	1031																X											
LMW-21	1.0	1032																X											
LMW-20	1.0	1034																X											
LMW-10	1.0	1036																X											
LMW-16	1.0	1037																X											
LMW-2	1.0	1039																X											
LMW-3	1.0	1041																X											
LMW-4	1.0	1042																X											
CCV	1.0	1044																X											
CCB	1.0	1046																X											
DMW-13A	1.0	1047																X											
DMW-22B	1.0	1049																X											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1807
 Instrument ID Number: FIMS2 Method: CV
 Start Date: 08/30/2012 End Date: 08/30/2012

FIMS2_120830A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
DMW-22A	1.0	1051															X												
DMW-18	1.0	1052															X												
DMW-2	1.0	1054															X												
DMW-2D	1.0	1056															X												
DMW-2S	1.0	1057															X												
DMW-3	1.0	1059															X												
PBW	1.0	1101															X												
CCV	1.0	1102															X												
CCB	1.0	1104															X												
LCSW	1.0	1106															X												
DMW-9	1.0	1107															X												
DMW-9B	1.0	1109															X												
DMW-52	1.0	1111															X												
DMW-15B	1.0	1112															X												
DMW-15A	1.0	1114															X												
DMW-23B	1.0	1116															X												
DMW-13B	1.0	1117															X												
DMW-23A	1.0	1119															X												
CCV	1.0	1121															X												
CCB	1.0	1122															X												

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	0747		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S1	1.0	0750		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S2	1.0	0754		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S3	1.0	0758		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	0802		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	0805		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	0809																											
ICSA	1.0	0813		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	0816		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	0820		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	0824		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	0828																											
ZZZZZZ	1.0	0831																											
ZZZZZZ	1.0	0835																											
ZZZZZZ	1.0	0839																											
ZZZZZZ	1.0	0842																											
ZZZZZZ	1.0	0846																											
CCV	1.0	0850		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	0853		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	0857																											
ZZZZZZ	1.0	0901																											
ZZZZZZ	1.0	0904																											
ZZZZZZ	1.0	0908																											
ZZZZZZ	1.0	0912																											
ZZZZZZ	1.0	0916																											
ZZZZZZ	1.0	0920																											
ZZZZZZ	1.0	0924																											
CCV	1.0	0927		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	0931		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	0935																											
ZZZZZZ	1.0	0939																											
ZZZZZZ	1.0	0942																											

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
ZZZZZZ	5.0	0946																											
ZZZZZZ	1.0	0950																											
ZZZZZZ	1.0	0953																											
ZZZZZZ	1.0	0957																											
ZZZZZZ	1.0	1001																											
ZZZZZZ	5.0	1004																											
CCV	1.0	1008		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
CCB	1.0	1012		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
ZZZZZZ	1.0	1016																											
ZZZZZZ	1.0	1019																											
ZZZZZZ	1.0	1023																											
ZZZZZZ	1.0	1027																											
ZZZZZZ	1.0	1030																											
ZZZZZZ	1.0	1034																											
ZZZZZZ	1.0	1038																											
CCV	1.0	1041		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
CCB	1.0	1045		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
PBW	1.0	1049		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
LCSW	1.0	1052		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
ZZZZZZ	1.0	1056																											
ZZZZZZ	1.0	1100																											
LMW-5	1.0	1104		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
LMW-5D	1.0	1107		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
LMW-5S	1.0	1111		X	X	X	X	X	X		X	X	X	X	X		X		X	X		X	X	X	X	X			
LMW-5L	5.0	1115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
CCV	1.0	1118		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
CCB	1.0	1122		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
ZZZZZZ	1.0	1126																											
LMW-55	1.0	1130		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
LMW-6	1.0	1133		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
LMW-18	1.0	1137		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
LMW-19	1.0	1141		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830A

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
LMW-12	1.0	1144		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-14	1.0	1148		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-21	1.0	1152		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-20	1.0	1155		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCV	1.0	1159		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCB	1.0	1203		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-10	1.0	1206		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-16	1.0	1210		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-2	1.0	1214		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-3	1.0	1217		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LMW-4	1.0	1221		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
DMW-13A	1.0	1225		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
DMW-22B	1.0	1229		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
DMW-22A	1.0	1232		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
DMW-18	1.0	1236		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCV	1.0	1240		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCB	1.0	1244		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830B

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	1408		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S1	1.0	1412		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S2	1.0	1416		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S3	1.0	1420		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	1423		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1427		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1431																											
ICSA	1.0	1434		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1438		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1442		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1446		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW	1.0	1449		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSW	1.0	1453		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-2	1.0	1457		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-2D	1.0	1501		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-2S	1.0	1504		X		X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
DMW-2L	5.0	1508		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1512																											
DMW-3	1.0	1516		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-9	1.0	1519		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1523		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1527		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-9B	1.0	1530		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-52	1.0	1534		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-15B	1.0	1538		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-15A	1.0	1542		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-23B	1.0	1545		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-13B	1.0	1549		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
DMW-23A	1.0	1553		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1557																											
ZZZZZZ	1.0	1600																											
ZZZZZZ	1.0	1604																											

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1807
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830B

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
CCV	1.0	1608		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X					
CCB	1.0	1611		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X					

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1807
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/31/2012 End Date: 08/31/2012

OPTIMA3_120831A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	0850			X																								
S1	1.0	0853			X																								
S2	1.0	0857			X																								
S3	1.0	0900			X																								
ICV	1.0	0904			X																								
ICB	1.0	0907			X																								
ZZZZZZ	1.0	0911																											
ZZZZZZ	1.0	0914																											
ICSA	1.0	0918			X																								
ICSAB	1.0	0921			X																								
CCV	1.0	0925			X																								
CCB	1.0	0929			X																								
PBW	1.0	0932			X																								
LCSW	1.0	0936			X																								
DMW-2	1.0	0939			X																								
DMW-2D	1.0	0943			X																								
DMW-2S	1.0	0946			X																								
DMW-2L	5.0	0950			X																								
CCV	1.0	0953			X																								
CCB	1.0	0957			X																								
ZZZZZZ	1.0	1000																											
DMW-3	1.0	1004			X																								
DMW-9	1.0	1007			X																								
DMW-9B	1.0	1011			X																								
DMW-52	1.0	1014			X																								
DMW-15B	1.0	1018			X																								
DMW-15A	1.0	1021			X																								
DMW-23B	1.0	1025			X																								
CCV	1.0	1029			X																								
CCB	1.0	1032			X																								
DMW-13B	1.0	1036			X																								
DMW-23A	1.0	1039			X																								

U.S. EPA - CLP
14
ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1807
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/31/2012 End Date: 08/31/2012

OPTIMA3_120831A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
ZZZZZZ	1.0	1043																											
ZZZZZZ	1.0	1046																											
ZZZZZZ	1.0	1050																											
ZZZZZZ	1.0	1053																											
ZZZZZZ	1.0	1057																											
CCV	1.0	1100			X																								
CCB	1.0	1104			X																								

Instrument Raw Data

=====

Reprocessing Begun

Logged In Analyst: mitOptima3

Technique: ICP Continuous

Results Data Set (original): B12083001

Results Library (original): C:\pe\Administrator\Results\Results.mdb

Results Data Set (reprocessed): B12083001A

Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1

Sample ID: S0

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 7:47:13 AM

Data Type: Reprocessed on 8/30/2012 1:59:32 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1897852.2	8791.95	0.46%	100.000	%
Lu 261.542	1226617.4	5991.55	0.49%	100.0	%
Ag 328.068†	-2770.2	56.83	2.05%	[0.00]	mg/L
Al 308.215†	2526.8	80.49	3.19%	[0.00]	mg/L
As 188.979†	-3.6	3.82	105.22%	[0.00]	mg/L
Ba 233.527†	-80.3	9.66	12.03%	[0.00]	mg/L
Be 313.107†	-1343.2	32.54	2.42%	[0.00]	mg/L
Co 228.616†	-15.2	8.58	56.57%	[0.00]	mg/L
Cr 267.716†	52.5	21.03	40.03%	[0.00]	mg/L
Cu 324.752†	3492.2	39.02	1.12%	[0.00]	mg/L
Fe 273.955†	-141.5	13.13	9.28%	[0.00]	mg/L
Mg 279.077†	-911.6	101.36	11.12%	[0.00]	mg/L
Mn 257.610†	-302.7	28.85	9.53%	[0.00]	mg/L
Ni 231.604†	-28.9	3.21	11.14%	[0.00]	mg/L
Pb 220.353†	26.8	6.66	24.90%	[0.00]	mg/L
Sb 206.836†	19.6	2.71	13.86%	[0.00]	mg/L
Se 196.026†	-2.1	5.58	270.57%	[0.00]	mg/L
Tl 190.801	-1.6	4.55	289.15%	[0.00]	mg/L
V 292.402†	-62.2	41.24	66.30%	[0.00]	mg/L
Zn 206.200†	35.8	3.96	11.07%	[0.00]	mg/L
Cd 226.502†	-59.1	1.29	2.19%	[0.00]	mg/L
Ti 334.940†	-125.6	53.27	42.43%	[0.00]	mg/L
Ca 227.546†	155.2	16.50	10.63%	[0.00]	mg/L
Na 589.592†	-509.4	40.41	7.93%	[0.00]	mg/L
K 766.490†	763.9	67.11	8.79%	[0.00]	mg/L

Sequence No.: 2

Sample ID: S1

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 8/30/2012 7:50:52 AM

Data Type: Reprocessed on 8/30/2012 1:59:34 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1736697.1	31850.96	1.83%	91.509	%
Lu 261.542	1130912.2	20922.82	1.85%	92.20	%
Ag 328.068†	430856.2	6524.71	1.51%	[2.5]	mg/L
Al 308.215†	403859.8	9270.55	2.30%	[20]	mg/L
As 188.979†	834.2	10.05	1.20%	[1]	mg/L
Ba 233.527†	1703472.3	25458.56	1.49%	[20]	mg/L
Be 313.107†	1249479.3	19797.46	1.58%	[0.5]	mg/L
Co 228.616†	178107.0	4032.03	2.26%	[5]	mg/L
Cr 267.716†	140539.6	3091.57	2.20%	[2]	mg/L
Cu 324.752†	550204.6	8987.04	1.63%	[2.5]	mg/L
Fe 273.955†	240132.4	5435.31	2.26%	[10]	mg/L

Mg 279.077†	868173.8	12933.81	1.49%	[50]	mg/L
Mn 257.610†	2890681.6	45809.44	1.58%	[5]	mg/L
Ni 231.604†	147659.4	3248.74	2.20%	[5]	mg/L
Pb 220.353†	5079.2	76.59	1.51%	[1]	mg/L
Sb 206.836†	1148.6	19.27	1.68%	[1]	mg/L
Se 196.026†	497.2	4.79	0.96%	[1]	mg/L
Tl 190.801	823.6	5.85	0.71%	[1]	mg/L
V 292.402†	607657.3	9498.25	1.56%	[5]	mg/L
Zn 206.200†	105768.2	2481.24	2.35%	[5]	mg/L
Cd 226.502†	27646.6	634.27	2.29%	[0.5]	mg/L
Ti 334.940†	552732.8	8750.90	1.58%	[1]	mg/L
Ca 227.546†	9670.4	180.52	1.87%	[50]	mg/L
Na 589.592†	241374.3	4113.95	1.70%	[50]	mg/L
K 766.490†	52295.6	966.79	1.85%	[50]	mg/L

Sequence No.: 3

Sample ID: S2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 8/30/2012 7:54:37 AM

Data Type: Reprocessed on 8/30/2012 1:59:34 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1731671.9	18026.94	1.04%	91.244	%
Lu 261.542	1127588.2	12198.37	1.08%	91.93	%
Ag 328.068†	223815.5	940.00	0.42%	[1.25]	mg/L
Al 308.215†	208273.7	831.25	0.40%	[10]	mg/L
As 188.979†	429.0	8.38	1.95%	[0.5]	mg/L
Ba 233.527†	905878.8	2375.81	0.26%	[10]	mg/L
Be 313.107†	651636.3	2422.71	0.37%	[0.25]	mg/L
Co 228.616†	92987.1	1070.11	1.15%	[2.5]	mg/L
Cr 267.716†	72721.8	888.13	1.22%	[1]	mg/L
Cu 324.752†	284676.1	797.82	0.28%	[1.25]	mg/L
Fe 273.955†	124593.6	1591.59	1.28%	[5]	mg/L
Mg 279.077†	454205.4	1128.42	0.25%	[25]	mg/L
Mn 257.610†	1523179.4	5264.06	0.35%	[2.5]	mg/L
Ni 231.604†	77094.1	1051.21	1.36%	[2.5]	mg/L
Pb 220.353†	2635.5	28.19	1.07%	[0.5]	mg/L
Sb 206.836†	606.2	9.62	1.59%	[0.5]	mg/L
Se 196.026†	262.0	5.61	2.14%	[0.5]	mg/L
Tl 190.801	435.2	4.87	1.12%	[0.5]	mg/L
V 292.402†	315282.0	1079.01	0.34%	[2.5]	mg/L
Zn 206.200†	55347.5	747.88	1.35%	[2.5]	mg/L
Cd 226.502†	14401.1	196.78	1.37%	[0.25]	mg/L
Ti 334.940†	288149.5	777.54	0.27%	[0.5]	mg/L
Ca 227.546†	5031.7	91.27	1.81%	[25]	mg/L
Na 589.592†	125152.9	1118.54	0.89%	[25]	mg/L
K 766.490†	26866.2	147.63	0.55%	[25]	mg/L

Sequence No.: 4

Sample ID: S3

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 8/30/2012 7:58:21 AM

Data Type: Reprocessed on 8/30/2012 1:59:35 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1818948.8	23150.78	1.27%	95.842	%
Lu 261.542	1177945.8	14236.14	1.21%	96.03	%
Ag 328.068†	4439.5	40.35	0.91%	[0.025]	mg/L
Al 308.215†	4094.7	22.84	0.56%	[0.2]	mg/L
As 188.979†	7.9	2.64	33.29%	[0.01]	mg/L
Ba 233.527†	18341.0	267.76	1.46%	[0.2]	mg/L

Be 313.107†	12476.7	196.63	1.58%	[0.005]	mg/L
Co 228.616†	1854.7	30.78	1.66%	[0.05]	mg/L
Cr 267.716†	1431.8	16.66	1.16%	[0.02]	mg/L
Cu 324.752†	5561.1	130.68	2.35%	[0.025]	mg/L
Fe 273.955†	2493.0	35.15	1.41%	[0.1]	mg/L
Mg 279.077†	8958.8	214.17	2.39%	[0.5]	mg/L
Mn 257.610†	30825.4	433.60	1.41%	[0.05]	mg/L
Ni 231.604†	1531.3	12.62	0.82%	[0.05]	mg/L
Pb 220.353†	52.1	6.91	13.26%	[0.01]	mg/L
Sb 206.836†	20.0	3.43	17.13%	[0.01]	mg/L
Se 196.026†	3.6	1.85	51.75%	[0.01]	mg/L
Tl 190.801	15.7	6.49	41.41%	[0.01]	mg/L
V 292.402†	6100.4	151.59	2.48%	[0.05]	mg/L
Zn 206.200†	1127.9	12.32	1.09%	[0.05]	mg/L
Cd 226.502†	289.9	5.26	1.82%	[0.005]	mg/L
Ti 334.940†	5663.8	122.76	2.17%	[0.01]	mg/L
Ca 227.546†	108.0	5.95	5.50%	[0.5]	mg/L
Na 589.592†	2448.4	56.38	2.30%	[0.5]	mg/L
K 766.490†	515.3	93.73	18.19%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	173700	0.00000	0.999881	
Al 308.215	3	Lin Thru 0	0.0	20320	0.00000	0.999922	
As 188.979	3	Lin Thru 0	0.0	839.0	0.00000	0.999935	
Ba 233.527	3	Lin Thru 0	0.0	86260	0.00000	0.999685	
Be 313.107	3	Lin Thru 0	0.0	2520000	0.00000	0.999854	
Co 228.616	3	Lin Thru 0	0.0	35940	0.00000	0.999847	
Cr 267.716	3	Lin Thru 0	0.0	70760	0.00000	0.999904	
Cu 324.752	3	Lin Thru 0	0.0	221600	0.00000	0.999904	
Fe 273.955	3	Lin Thru 0	0.0	24190	0.00000	0.999888	
Mg 279.077	3	Lin Thru 0	0.0	17520	0.00000	0.999831	
Mn 257.610	3	Lin Thru 0	0.0	584400	0.00000	0.999773	
Ni 231.604	3	Lin Thru 0	0.0	29790	0.00000	0.999846	
Pb 220.353	3	Lin Thru 0	0.0	5118	0.00000	0.999888	
Sb 206.836	3	Lin Thru 0	0.0	1161	0.00000	0.999738	
Se 196.026	3	Lin Thru 0	0.0	502.5	0.00000	0.999768	
Tl 190.801	3	Lin Thru 0	0.0	833.0	0.00000	0.999715	
V 292.402	3	Lin Thru 0	0.0	122400	0.00000	0.999888	
Zn 206.200	3	Lin Thru 0	0.0	21350	0.00000	0.999830	
Cd 226.502	3	Lin Thru 0	0.0	55760	0.00000	0.999863	
Ti 334.940	3	Lin Thru 0	0.0	557400	0.00000	0.999857	
Ca 227.546	3	Lin Thru 0	0.0	195.0	0.00000	0.999870	
Na 589.592	3	Lin Thru 0	0.0	4863	0.00000	0.999892	
K 766.490	3	Lin Thru 0	0.0	1052	0.00000	0.999940	

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Sequence No.: 5

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 8:02:02 AM

Data Type: Reprocessed on 8/30/2012 1:59:36 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1799565.7	94.821	%	0.7455			0.79%
Lu 261.542	1172151.9	95.56	%	0.779			0.81%
Ag 328.068†	208010.8	1.2015	mg/L	0.01941	1.2015 mg/L	0.01941	1.62%
QC value within limits for Ag 328.068 Recovery = 96.12%							
Al 308.215†	196071.3	9.6389	mg/L	0.14651	9.6389 mg/L	0.14651	1.52%
QC value within limits for Al 308.215 Recovery = 96.39%							
As 188.979†	400.7	0.48619	mg/L	0.010184	0.48619 mg/L	0.010184	2.09%
QC value within limits for As 188.979 Recovery = 97.24%							
Ba 233.527†	873431.1	10.129	mg/L	0.0995	10.129 mg/L	0.0995	0.98%
QC value within limits for Ba 233.527 Recovery = 101.29%							
Be 313.107†	609616.6	0.24283	mg/L	0.002395	0.24283 mg/L	0.002395	0.99%

Co	228.616†	90265.1	2.5102 mg/L	0.03741	2.5102 mg/L	0.03741	1.49%
Cr	267.716†	67909.8	0.96030 mg/L	0.015338	0.96030 mg/L	0.015338	1.60%
Cu	324.752†	263665.0	1.1909 mg/L	0.01657	1.1909 mg/L	0.01657	1.39%
Fe	273.955†	119112.0	4.9271 mg/L	0.07933	4.9271 mg/L	0.07933	1.61%
Mg	279.077†	434790.3	24.808 mg/L	0.2487	24.808 mg/L	0.2487	1.00%
Mn	257.610†	1446939.4	2.4757 mg/L	0.02214	2.4757 mg/L	0.02214	0.89%
Ni	231.604†	73863.4	2.4787 mg/L	0.03820	2.4787 mg/L	0.03820	1.54%
Pb	220.353†	2495.5	0.48963 mg/L	0.004248	0.48963 mg/L	0.004248	0.87%
Sb	206.836†	597.0	0.49952 mg/L	0.001025	0.49952 mg/L	0.001025	0.21%
Se	196.026†	236.8	0.47655 mg/L	0.007768	0.47655 mg/L	0.007768	1.63%
Tl	190.801	417.5	0.47885 mg/L	0.007445	0.47885 mg/L	0.007445	1.55%
V	292.402†	296410.0	2.4220 mg/L	0.03698	2.4220 mg/L	0.03698	1.53%
Zn	206.200†	52732.4	2.4753 mg/L	0.03905	2.4753 mg/L	0.03905	1.58%
Cd	226.502†	13213.0	0.23718 mg/L	0.003626	0.23718 mg/L	0.003626	1.53%
Ti	334.940†	271405.7	0.48661 mg/L	0.003666	0.48661 mg/L	0.003666	0.75%
Ca	227.546†	4759.4	23.571 mg/L	0.2080	23.571 mg/L	0.2080	0.88%
Na	589.592†	120401.8	24.758 mg/L	0.2278	24.758 mg/L	0.2278	0.92%
K	766.490†	26051.9	24.772 mg/L	0.1861	24.772 mg/L	0.1861	0.75%

QC value within limits for Be 313.107 Recovery = 97.13%
 QC value within limits for Co 228.616 Recovery = 100.41%
 QC value within limits for Cr 267.716 Recovery = 96.03%
 QC value within limits for Cu 324.752 Recovery = 95.27%
 QC value within limits for Fe 273.955 Recovery = 98.54%
 QC value within limits for Mg 279.077 Recovery = 99.23%
 QC value within limits for Mn 257.610 Recovery = 99.03%
 QC value within limits for Ni 231.604 Recovery = 99.15%
 QC value within limits for Pb 220.353 Recovery = 97.93%
 QC value within limits for Sb 206.836 Recovery = 99.90%
 QC value within limits for Se 196.026 Recovery = 95.31%
 QC value within limits for Tl 190.801 Recovery = 95.77%
 QC value within limits for V 292.402 Recovery = 96.88%
 QC value within limits for Zn 206.200 Recovery = 99.01%
 QC value within limits for Cd 226.502 Recovery = 94.87%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 QC value within limits for Ca 227.546 Recovery = 94.29%
 QC value within limits for Na 589.592 Recovery = 99.03%
 QC value within limits for K 766.490 Recovery = 99.09%

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 8:05:46 AM

Data Type: Reprocessed on 8/30/2012 1:59:37 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1874322.8	98.760 %	0.2984			0.30%
Lu 261.542	1210564.9	98.69 %	0.310			0.31%
Ag 328.068†	57.0	0.00033 mg/L	0.000390	0.00033 mg/L	0.000390	118.49%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 308.215†	72.5	0.00355 mg/L	0.001115	0.00355 mg/L	0.001115	31.38%
QC value within limits for Al 308.215						Recovery = Not calculated
As 188.979†	2.5	0.00302 mg/L	0.002796	0.00302 mg/L	0.002796	92.63%
QC value within limits for As 188.979						Recovery = Not calculated
Ba 233.527†	70.3	0.00082 mg/L	0.000112	0.00082 mg/L	0.000112	13.77%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 313.107†	9.8	0.00000 mg/L	0.000019	0.00000 mg/L	0.000019	444.74%
QC value within limits for Be 313.107						Recovery = Not calculated
Co 228.616†	17.1	0.00047 mg/L	0.000189	0.00047 mg/L	0.000189	39.93%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	3.7	0.00005 mg/L	0.000258	0.00005 mg/L	0.000258	492.69%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 324.752†	178.9	0.00081 mg/L	0.000397	0.00081 mg/L	0.000397	49.14%
QC value within limits for Cu 324.752						Recovery = Not calculated
Fe 273.955†	30.6	0.00126 mg/L	0.000202	0.00126 mg/L	0.000202	15.97%
QC value within limits for Fe 273.955						Recovery = Not calculated

Mg 279.077†	27.1	0.00154 mg/L	0.004130	0.00154 mg/L	0.004130	267.31%
QC value within limits for Mg 279.077	Recovery = Not calculated					
Mn 257.610†	159.9	0.00027 mg/L	0.000044	0.00027 mg/L	0.000044	16.24%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Ni 231.604†	8.8	0.00029 mg/L	0.000436	0.00029 mg/L	0.000436	148.44%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	1.2	0.00024 mg/L	0.000736	0.00024 mg/L	0.000736	307.98%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	4.2	0.00363 mg/L	0.003333	0.00363 mg/L	0.003333	91.74%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	1.0	0.00191 mg/L	0.008871	0.00191 mg/L	0.008871	465.48%
QC value within limits for Se 196.026	Recovery = Not calculated					
Tl 190.801	0.3	0.00032 mg/L	0.003773	0.00032 mg/L	0.003773	>999.9%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	58.3	0.00048 mg/L	0.000057	0.00048 mg/L	0.000057	11.93%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 206.200†	28.4	0.00133 mg/L	0.000480	0.00133 mg/L	0.000480	36.05%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Cd 226.502†	6.8	0.00012 mg/L	0.000065	0.00012 mg/L	0.000065	53.82%
QC value within limits for Cd 226.502	Recovery = Not calculated					
Ti 334.940†	123.0	0.00022 mg/L	0.000070	0.00022 mg/L	0.000070	31.78%
QC value within limits for Ti 334.940	Recovery = Not calculated					
Ca 227.546†	12.0	0.06120 mg/L	0.041213	0.06120 mg/L	0.041213	67.34%
QC value within limits for Ca 227.546	Recovery = Not calculated					
Na 589.592†	53.4	0.01097 mg/L	0.019869	0.01097 mg/L	0.019869	181.05%
QC value within limits for Na 589.592	Recovery = Not calculated					
K 766.490†	-3.9	-0.00369 mg/L	0.046277	-0.00369 mg/L	0.046277	>999.9%
QC value within limits for K 766.490	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: LLICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 8/30/2012 8:09:27 AM

Data Type: Reprocessed on 8/30/2012 1:59:37 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1815107.1	95.640 %		0.8964			0.94%
Lu 261.542	1175931.9	95.87 %		0.997			1.04%
Ag 328.068†	5424.2	0.03131 mg/L		0.000267	0.03131 mg/L	0.000267	0.85%
QC value within limits for Ag 328.068	Recovery = 104.37%						
Al 308.215†	4260.4	0.20937 mg/L		0.006436	0.20937 mg/L	0.006436	3.07%
QC value within limits for Al 308.215	Recovery = 104.68%						
As 188.979†	12.0	0.01452 mg/L		0.001379	0.01452 mg/L	0.001379	9.50%
QC value within limits for As 188.979	Recovery = 72.58%						
Ba 233.527†	18628.1	0.21603 mg/L		0.002085	0.21603 mg/L	0.002085	0.97%
QC value within limits for Ba 233.527	Recovery = 108.02%						
Be 313.107†	12812.1	0.00512 mg/L		0.000017	0.00512 mg/L	0.000017	0.34%
QC value within limits for Be 313.107	Recovery = 102.41%						
Co 228.616†	1899.0	0.05279 mg/L		0.000643	0.05279 mg/L	0.000643	1.22%
QC value within limits for Co 228.616	Recovery = 105.57%						
Cr 267.716†	1457.9	0.02062 mg/L		0.000400	0.02062 mg/L	0.000400	1.94%
QC value within limits for Cr 267.716	Recovery = 103.09%						
Cu 324.752†	6962.0	0.03145 mg/L		0.000555	0.03145 mg/L	0.000555	1.77%
QC value within limits for Cu 324.752	Recovery = 104.83%						
Fe 273.955†	4978.5	0.20585 mg/L		0.002227	0.20585 mg/L	0.002227	1.08%
QC value within limits for Fe 273.955	Recovery = 102.93%						
Mg 279.077†	9375.0	0.53491 mg/L		0.006998	0.53491 mg/L	0.006998	1.31%
QC value within limits for Mg 279.077	Recovery = 106.98%						
Mn 257.610†	31276.7	0.05351 mg/L		0.000441	0.05351 mg/L	0.000441	0.82%
QC value within limits for Mn 257.610	Recovery = 107.03%						
Ni 231.604†	1588.7	0.05330 mg/L		0.000404	0.05330 mg/L	0.000404	0.76%
QC value within limits for Ni 231.604	Recovery = 106.61%						
Pb 220.353†	51.0	0.01001 mg/L		0.000928	0.01001 mg/L	0.000928	9.28%
QC value within limits for Pb 220.353	Recovery = 100.06%						
Sb 206.836†	25.0	0.02127 mg/L		0.002190	0.02127 mg/L	0.002190	10.30%

QC value within limits for Sb 206.836 Recovery = 106.33%
 Se 196.026† 13.5 0.02699 mg/L 0.013286 0.02699 mg/L 0.013286 49.23%
 QC value within limits for Se 196.026 Recovery = 89.96%
 Tl 190.801 19.6 0.02307 mg/L 0.004130 0.02307 mg/L 0.004130 17.90%
 QC value within limits for Tl 190.801 Recovery = 115.34%
 V 292.402† 6268.6 0.05121 mg/L 0.000186 0.05121 mg/L 0.000186 0.36%
 QC value within limits for V 292.402 Recovery = 102.42%
 Zn 206.200† 1133.6 0.05323 mg/L 0.000418 0.05323 mg/L 0.000418 0.79%
 QC value within limits for Zn 206.200 Recovery = 106.47%
 Cd 226.502† 290.3 0.00520 mg/L 0.000005 0.00520 mg/L 0.000005 0.10%
 QC value within limits for Cd 226.502 Recovery = 104.07%
 Ti 334.940† 10787.6 0.01935 mg/L 0.000177 0.01935 mg/L 0.000177 0.91%
 QC value within limits for Ti 334.940 Recovery = 96.75%
 Ca 227.546† 164.9 0.82707 mg/L 0.081237 0.82707 mg/L 0.081237 9.82%
 QC value within limits for Ca 227.546 Recovery = 103.38%
 Na 589.592† 5002.6 1.0287 mg/L 0.01887 1.0287 mg/L 0.01887 1.83%
 QC value within limits for Na 589.592 Recovery = 102.87%
 K 766.490† 1105.8 1.0515 mg/L 0.06987 1.0515 mg/L 0.06987 6.64%
 QC value within limits for K 766.490 Recovery = 105.15%
 All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICSA

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 8/30/2012 8:13:06 AM

Data Type: Reprocessed on 8/30/2012 1:59:38 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1585059.3	83.519 %	1.0546			1.26%
Lu 261.542	1026733.6	83.70 %	1.069			1.28%
Ag 328.068†	206.0	-0.00383 mg/L	0.000209	-0.00383 mg/L	0.000209	5.46%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 308.215†	10719023.0	527.37 mg/L	10.975	527.37 mg/L	10.975	2.08%
QC value within limits for Al 308.215		Recovery =	105.47%			
As 188.979†	-32.6	-0.00350 mg/L	0.006589	-0.00350 mg/L	0.006589	188.28%
QC value within limits for As 188.979		Recovery =	Not calculated			
Ba 233.527†	23.8	0.00026 mg/L	0.000201	0.00026 mg/L	0.000201	78.83%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	-296.3	-0.00014 mg/L	0.000018	-0.00014 mg/L	0.000018	13.21%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Co 228.616†	148.6	-0.00027 mg/L	0.000176	-0.00027 mg/L	0.000176	64.20%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	213.9	0.01367 mg/L	0.000153	0.01367 mg/L	0.000153	1.12%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	-2704.5	0.00475 mg/L	0.000750	0.00475 mg/L	0.000750	15.81%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 273.955†	4446122.9	183.77 mg/L	2.591	183.77 mg/L	2.591	1.41%
QC value within limits for Fe 273.955		Recovery =	91.88%			
Mg 279.077†	8744276.4	498.98 mg/L	11.423	498.98 mg/L	11.423	2.29%
QC value within limits for Mg 279.077		Recovery =	99.80%			
Mn 257.610†	-119.0	-0.00519 mg/L	0.000203	-0.00519 mg/L	0.000203	3.90%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Ni 231.604†	-12.5	-0.00254 mg/L	0.000190	-0.00254 mg/L	0.000190	7.51%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
Pb 220.353†	-220.2	0.00755 mg/L	0.002200	0.00755 mg/L	0.002200	29.15%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	17.7	0.00091 mg/L	0.000824	0.00091 mg/L	0.000824	90.67%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	-39.4	0.00393 mg/L	0.012847	0.00393 mg/L	0.012847	326.99%
QC value within limits for Se 196.026		Recovery =	Not calculated			
Tl 190.801	-39.9	0.00681 mg/L	0.006284	0.00681 mg/L	0.006284	92.21%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 292.402†	-1751.8	-0.00863 mg/L	0.000279	-0.00863 mg/L	0.000279	3.24%
QC value within limits for V 292.402		Recovery =	Not calculated			
Zn 206.200†	81.1	0.01298 mg/L	0.000114	0.01298 mg/L	0.000114	0.88%
QC value within limits for Zn 206.200		Recovery =	Not calculated			

Cd 226.502† 779.0 -0.00119 mg/L 0.000283 -0.00119 mg/L 0.000283 23.80%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† -6568.2 -0.01185 mg/L 0.000266 -0.01185 mg/L 0.000266 2.25%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 104761.9 535.57 mg/L 7.174 535.57 mg/L 7.174 1.34%
 QC value within limits for Ca 227.546 Recovery = 107.11%
 Na 589.592† 257.4 0.05292 mg/L 0.019177 0.05292 mg/L 0.019177 36.24%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† 155.3 0.14768 mg/L 0.071916 0.14768 mg/L 0.071916 48.70%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 9

Sample ID: ICSAB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 8/30/2012 8:16:53 AM

Data Type: Reprocessed on 8/30/2012 1:59:39 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1610334.9	84.850 %		0.6052			0.71%
Lu 261.542	1043810.3	85.10 %		0.539			0.63%
Ag 328.068†	37507.7	0.21188 mg/L		0.001676	0.21188 mg/L	0.001676	0.79%
QC value within limits for Ag 328.068							
Al 308.215†	10510838.4	517.13 mg/L		3.449	517.13 mg/L	3.449	0.67%
QC value within limits for Al 308.215							
As 188.979†	51.7	0.10044 mg/L		0.006084	0.10044 mg/L	0.006084	6.06%
QC value within limits for As 188.979							
Ba 233.527†	44466.8	0.51620 mg/L		0.002091	0.51620 mg/L	0.002091	0.41%
QC value within limits for Ba 233.527							
Be 313.107†	1240678.7	0.49223 mg/L		0.002356	0.49223 mg/L	0.002356	0.48%
QC value within limits for Be 313.107							
Co 228.616†	16881.1	0.46525 mg/L		0.003756	0.46525 mg/L	0.003756	0.81%
QC value within limits for Co 228.616							
Cr 267.716†	34904.9	0.50377 mg/L		0.002253	0.50377 mg/L	0.002253	0.45%
QC value within limits for Cr 267.716							
Cu 324.752†	113555.7	0.52929 mg/L		0.002084	0.52929 mg/L	0.002084	0.39%
QC value within limits for Cu 324.752							
Fe 273.955†	4391538.0	181.51 mg/L		0.699	181.51 mg/L	0.699	0.38%
QC value within limits for Fe 273.955							
Mg 279.077†	8572724.6	489.19 mg/L		3.249	489.19 mg/L	3.249	0.66%
QC value within limits for Mg 279.077							
Mn 257.610†	286875.9	0.48598 mg/L		0.002027	0.48598 mg/L	0.002027	0.42%
QC value within limits for Mn 257.610							
Ni 231.604†	27052.6	0.90591 mg/L		0.006604	0.90591 mg/L	0.006604	0.73%
QC value within limits for Ni 231.604							
Pb 220.353†	2324.5	0.50389 mg/L		0.004337	0.50389 mg/L	0.004337	0.86%
QC value within limits for Pb 220.353							
Sb 206.836†	761.7	0.63317 mg/L		0.006450	0.63317 mg/L	0.006450	1.02%
QC value within limits for Sb 206.836							
Se 196.026†	206.3	0.49252 mg/L		0.028495	0.49252 mg/L	0.028495	5.79%
QC value within limits for Se 196.026							
Tl 190.801	36.9	0.09342 mg/L		0.002715	0.09342 mg/L	0.002715	2.91%
QC value within limits for Tl 190.801							
V 292.402†	59297.3	0.49084 mg/L		0.002084	0.49084 mg/L	0.002084	0.42%
QC value within limits for V 292.402							
Zn 206.200†	19799.3	0.93806 mg/L		0.007574	0.93806 mg/L	0.007574	0.81%
QC value within limits for Zn 206.200							
Cd 226.502†	52152.8	0.92063 mg/L		0.004368	0.92063 mg/L	0.004368	0.47%
QC value within limits for Cd 226.502							
Ti 334.940†	-6383.9	-0.01161 mg/L		0.000176	-0.01161 mg/L	0.000176	1.52%
QC value within limits for Ti 334.940							
Ca 227.546†	102693.0	524.82 mg/L		2.563	524.82 mg/L	2.563	0.49%
QC value within limits for Ca 227.546							
Na 589.592†	137010.6	28.173 mg/L		0.4209	28.173 mg/L	0.4209	1.49%
QC value within limits for Na 589.592							
K 766.490†	30185.1	28.702 mg/L		0.4060	28.702 mg/L	0.4060	1.41%

QC value within limits for K 766.490 Recovery = 114.81%
All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 8:20:39 AM

Data Type: Reprocessed on 8/30/2012 1:59:40 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1768795.7	93.200 %	0.6169			0.66%
Lu 261.542	1152012.6	93.92 %	0.701			0.75%
Ag 328.068†	211556.1	1.2220 mg/L	0.00627	1.2220 mg/L	0.00627	0.51%
QC value within limits for Ag		328.068	Recovery = 97.76%			
Al 308.215†	200193.3	9.8416 mg/L	0.01819	9.8416 mg/L	0.01819	0.18%
QC value within limits for Al		308.215	Recovery = 98.42%			
As 188.979†	409.9	0.49735 mg/L	0.008572	0.49735 mg/L	0.008572	1.72%
QC value within limits for As		188.979	Recovery = 99.47%			
Ba 233.527†	879125.0	10.195 mg/L	0.0128	10.195 mg/L	0.0128	0.13%
QC value within limits for Ba		233.527	Recovery = 101.95%			
Be 313.107†	615540.3	0.24519 mg/L	0.000323	0.24519 mg/L	0.000323	0.13%
QC value within limits for Be		313.107	Recovery = 98.08%			
Co 228.616†	92013.6	2.5588 mg/L	0.02902	2.5588 mg/L	0.02902	1.13%
QC value within limits for Co		228.616	Recovery = 102.35%			
Cr 267.716†	69061.0	0.97659 mg/L	0.012548	0.97659 mg/L	0.012548	1.28%
QC value within limits for Cr		267.716	Recovery = 97.66%			
Cu 324.752†	272992.9	1.2330 mg/L	0.00204	1.2330 mg/L	0.00204	0.17%
QC value within limits for Cu		324.752	Recovery = 98.64%			
Fe 273.955†	121516.3	5.0266 mg/L	0.05292	5.0266 mg/L	0.05292	1.05%
QC value within limits for Fe		273.955	Recovery = 100.53%			
Mg 279.077†	439313.3	25.066 mg/L	0.0419	25.066 mg/L	0.0419	0.17%
QC value within limits for Mg		279.077	Recovery = 100.26%			
Mn 257.610†	1461156.7	2.5000 mg/L	0.00411	2.5000 mg/L	0.00411	0.16%
QC value within limits for Mn		257.610	Recovery = 100.00%			
Ni 231.604†	75125.4	2.5210 mg/L	0.02825	2.5210 mg/L	0.02825	1.12%
QC value within limits for Ni		231.604	Recovery = 100.84%			
Pb 220.353†	2505.7	0.49164 mg/L	0.004631	0.49164 mg/L	0.004631	0.94%
QC value within limits for Pb		220.353	Recovery = 98.33%			
Sb 206.836†	607.7	0.50850 mg/L	0.008577	0.50850 mg/L	0.008577	1.69%
QC value within limits for Sb		206.836	Recovery = 101.70%			
Se 196.026†	240.4	0.48387 mg/L	0.010266	0.48387 mg/L	0.010266	2.12%
QC value within limits for Se		196.026	Recovery = 96.77%			
Tl 190.801	421.2	0.48283 mg/L	0.005511	0.48283 mg/L	0.005511	1.14%
QC value within limits for Tl		190.801	Recovery = 96.57%			
V 292.402†	303838.7	2.4827 mg/L	0.00129	2.4827 mg/L	0.00129	0.05%
QC value within limits for V		292.402	Recovery = 99.31%			
Zn 206.200†	53778.8	2.5244 mg/L	0.02784	2.5244 mg/L	0.02784	1.10%
QC value within limits for Zn		206.200	Recovery = 100.98%			
Cd 226.502†	13619.5	0.24448 mg/L	0.002980	0.24448 mg/L	0.002980	1.22%
QC value within limits for Cd		226.502	Recovery = 97.79%			
Ti 334.940†	272929.0	0.48935 mg/L	0.001196	0.48935 mg/L	0.001196	0.24%
QC value within limits for Ti		334.940	Recovery = Not calculated			
Ca 227.546†	4900.3	24.278 mg/L	0.3055	24.278 mg/L	0.3055	1.26%
QC value within limits for Ca		227.546	Recovery = 97.11%			
Na 589.592†	122266.6	25.141 mg/L	0.2874	25.141 mg/L	0.2874	1.14%
QC value within limits for Na		589.592	Recovery = 100.56%			
K 766.490†	26485.8	25.185 mg/L	0.3910	25.185 mg/L	0.3910	1.55%
QC value within limits for K		766.490	Recovery = 100.74%			

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Autosampler Location: 4

Date Collected: 8/30/2012 8:24:22 AM

Data Type: Reprocessed on 8/30/2012 1:59:40 PM

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1851465.1	97.556	%	1.5223			1.56%
Lu 261.542	1197173.9	97.60	%	1.601			1.64%
Ag 328.068†	202.4	0.00117	mg/L	0.000614	0.00117 mg/L	0.000614	52.61%
QC value within limits for Ag		328.068	Recovery =	Not calculated			
Al 308.215†	140.1	0.00688	mg/L	0.001023	0.00688 mg/L	0.001023	14.87%
QC value within limits for Al		308.215	Recovery =	Not calculated			
As 188.979†	-2.4	-0.00287	mg/L	0.002864	-0.00287 mg/L	0.002864	99.79%
QC value within limits for As		188.979	Recovery =	Not calculated			
Ba 233.527†	76.6	0.00089	mg/L	0.000181	0.00089 mg/L	0.000181	20.36%
QC value within limits for Ba		233.527	Recovery =	Not calculated			
Be 313.107†	31.4	0.00001	mg/L	0.000025	0.00001 mg/L	0.000025	197.30%
QC value within limits for Be		313.107	Recovery =	Not calculated			
Co 228.616†	3.4	0.00010	mg/L	0.000162	0.00010 mg/L	0.000162	170.32%
QC value within limits for Co		228.616	Recovery =	Not calculated			
Cr 267.716†	31.5	0.00045	mg/L	0.000246	0.00045 mg/L	0.000246	55.22%
QC value within limits for Cr		267.716	Recovery =	Not calculated			
Cu 324.752†	321.3	0.00145	mg/L	0.000319	0.00145 mg/L	0.000319	22.01%
QC value within limits for Cu		324.752	Recovery =	Not calculated			
Fe 273.955†	105.3	0.00435	mg/L	0.000593	0.00435 mg/L	0.000593	13.63%
QC value within limits for Fe		273.955	Recovery =	Not calculated			
Mg 279.077†	125.2	0.00715	mg/L	0.001842	0.00715 mg/L	0.001842	25.78%
QC value within limits for Mg		279.077	Recovery =	Not calculated			
Mn 257.610†	160.9	0.00028	mg/L	0.000082	0.00028 mg/L	0.000082	29.97%
QC value within limits for Mn		257.610	Recovery =	Not calculated			
Ni 231.604†	5.9	0.00020	mg/L	0.000049	0.00020 mg/L	0.000049	24.70%
QC value within limits for Ni		231.604	Recovery =	Not calculated			
Pb 220.353†	1.7	0.00033	mg/L	0.001207	0.00033 mg/L	0.001207	361.80%
QC value within limits for Pb		220.353	Recovery =	Not calculated			
Sb 206.836†	3.3	0.00287	mg/L	0.002483	0.00287 mg/L	0.002483	86.60%
QC value within limits for Sb		206.836	Recovery =	Not calculated			
Se 196.026†	-2.9	-0.00572	mg/L	0.016039	-0.00572 mg/L	0.016039	280.55%
QC value within limits for Se		196.026	Recovery =	Not calculated			
Tl 190.801	-1.1	-0.00136	mg/L	0.003256	-0.00136 mg/L	0.003256	238.85%
QC value within limits for Tl		190.801	Recovery =	Not calculated			
V 292.402†	81.5	0.00067	mg/L	0.000269	0.00067 mg/L	0.000269	40.40%
QC value within limits for V		292.402	Recovery =	Not calculated			
Zn 206.200†	12.2	0.00057	mg/L	0.000396	0.00057 mg/L	0.000396	69.29%
QC value within limits for Zn		206.200	Recovery =	Not calculated			
Cd 226.502†	6.9	0.00012	mg/L	0.000034	0.00012 mg/L	0.000034	27.29%
QC value within limits for Cd		226.502	Recovery =	Not calculated			
Ti 334.940†	106.1	0.00019	mg/L	0.000055	0.00019 mg/L	0.000055	28.90%
QC value within limits for Ti		334.940	Recovery =	Not calculated			
Ca 227.546†	12.4	0.06374	mg/L	0.060676	0.06374 mg/L	0.060676	95.19%
QC value within limits for Ca		227.546	Recovery =	Not calculated			
Na 589.592†	-52.0	-0.01070	mg/L	0.021074	-0.01070 mg/L	0.021074	196.94%
QC value within limits for Na		589.592	Recovery =	Not calculated			
K 766.490†	36.9	0.03513	mg/L	0.017474	0.03513 mg/L	0.017474	49.75%
QC value within limits for K		766.490	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: MB-67887-PBW

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 8/30/2012 8:28:04 AM

Data Type: Reprocessed on 8/30/2012 1:59:41 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MB-67887-PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1824656.9	96.143	%	1.4058			1.46%
Lu 261.542	1181755.0	96.34	%	1.439			1.49%
Ag 328.068†	588.6	0.00339	mg/L	0.001232	0.00339 mg/L	0.001232	36.35%

Al 308.215†	214.5	0.01054 mg/L	0.002995	0.01054 mg/L	0.002995	28.43%
As 188.979†	1.4	0.00170 mg/L	0.000722	0.00170 mg/L	0.000722	42.47%
Ba 233.527†	10.3	0.00012 mg/L	0.000060	0.00012 mg/L	0.000060	50.15%
Be 313.107†	-25.8	-0.00001 mg/L	0.000006	-0.00001 mg/L	0.000006	58.84%
Co 228.616†	-3.3	-0.00009 mg/L	0.000172	-0.00009 mg/L	0.000172	188.08%
Cr 267.716†	-24.8	-0.00035 mg/L	0.000520	-0.00035 mg/L	0.000520	148.93%
Cu 324.752†	470.4	0.00212 mg/L	0.000743	0.00212 mg/L	0.000743	35.00%
Fe 273.955†	151.8	0.00627 mg/L	0.000331	0.00627 mg/L	0.000331	5.28%
Mg 279.077†	6.6	0.00038 mg/L	0.002205	0.00038 mg/L	0.002205	585.16%
Mn 257.610†	202.9	0.00035 mg/L	0.000013	0.00035 mg/L	0.000013	3.72%
Ni 231.604†	-0.0	0.00000 mg/L	0.000230	0.00000 mg/L	0.000230	>999.9%
Pb 220.353†	2.9	0.00056 mg/L	0.001904	0.00056 mg/L	0.001904	338.83%
Sb 206.836†	11.0	0.00950 mg/L	0.002279	0.00950 mg/L	0.002279	23.98%
Se 196.026†	3.0	0.00592 mg/L	0.001751	0.00592 mg/L	0.001751	29.58%
Tl 190.801	-2.2	-0.00261 mg/L	0.002653	-0.00261 mg/L	0.002653	101.53%
V 292.402†	3.2	0.00002 mg/L	0.000404	0.00002 mg/L	0.000404	>999.9%
Zn 206.200†	47.3	0.00222 mg/L	0.000161	0.00222 mg/L	0.000161	7.29%
Cd 226.502†	4.7	0.00008 mg/L	0.000070	0.00008 mg/L	0.000070	84.35%
Ti 334.940†	139.0	0.00025 mg/L	0.000062	0.00025 mg/L	0.000062	24.84%
Ca 227.546†	18.6	0.09539 mg/L	0.046593	0.09539 mg/L	0.046593	48.85%
Na 589.592†	-92.4	-0.01900 mg/L	0.009256	-0.01900 mg/L	0.009256	48.72%
K 766.490†	-24.4	-0.02317 mg/L	0.084781	-0.02317 mg/L	0.084781	365.96%

Sequence No.: 13

Sample ID: LCS-67887~LCS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 8/30/2012 8:31:44 AM

Data Type: Reprocessed on 8/30/2012 1:59:42 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS-67887~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1772776.0	93.410	%	0.4760				0.51%
Lu 261.542	1153623.9	94.05	%	0.516				0.55%
Ag 328.068†	201466.6	1.1636	mg/L	0.01732	1.1636	mg/L	0.01732	1.49%
Al 308.215†	190638.3	9.3728	mg/L	0.13624	9.3728	mg/L	0.13624	1.45%
As 188.979†	397.8	0.48248	mg/L	0.005723	0.48248	mg/L	0.005723	1.19%
Ba 233.527†	824876.8	9.5663	mg/L	0.02053	9.5663	mg/L	0.02053	0.21%
Be 313.107†	597836.6	0.23726	mg/L	0.000476	0.23726	mg/L	0.000476	0.20%
Co 228.616†	85213.1	2.3707	mg/L	0.03332	2.3707	mg/L	0.03332	1.41%
Cr 267.716†	66540.0	0.94093	mg/L	0.015057	0.94093	mg/L	0.015057	1.60%
Cu 324.752†	256029.5	1.1564	mg/L	0.01683	1.1564	mg/L	0.01683	1.45%
Fe 273.955†	115070.8	4.7599	mg/L	0.06849	4.7599	mg/L	0.06849	1.44%
Mg 279.077†	413901.9	23.616	mg/L	0.0451	23.616	mg/L	0.0451	0.19%
Mn 257.610†	1377937.5	2.3577	mg/L	0.00485	2.3577	mg/L	0.00485	0.21%
Ni 231.604†	70877.3	2.3787	mg/L	0.03587	2.3787	mg/L	0.03587	1.51%
Pb 220.353†	2453.8	0.48093	mg/L	0.004466	0.48093	mg/L	0.004466	0.93%
Sb 206.836†	586.8	0.48990	mg/L	0.008158	0.48990	mg/L	0.008158	1.67%
Se 196.026†	234.1	0.47071	mg/L	0.005790	0.47071	mg/L	0.005790	1.23%
Tl 190.801	385.1	0.44097	mg/L	0.007436	0.44097	mg/L	0.007436	1.69%
V 292.402†	284700.3	2.3270	mg/L	0.03541	2.3270	mg/L	0.03541	1.52%
Zn 206.200†	50084.9	2.3507	mg/L	0.03512	2.3507	mg/L	0.03512	1.49%
Cd 226.502†	13199.9	0.23694	mg/L	0.003189	0.23694	mg/L	0.003189	1.35%
Ti 334.940†	328.7	0.00035	mg/L	0.000051	0.00035	mg/L	0.000051	14.64%
Ca 227.546†	4588.2	22.740	mg/L	0.1905	22.740	mg/L	0.1905	0.84%
Na 589.592†	114359.4	23.515	mg/L	0.1223	23.515	mg/L	0.1223	0.52%
K 766.490†	24956.6	23.731	mg/L	0.0557	23.731	mg/L	0.0557	0.23%

Sequence No.: 14

Sample ID: L1786-01B~SL-MW-23D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 8/30/2012 8:35:26 AM

Data Type: Reprocessed on 8/30/2012 1:59:42 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-01B~SL-MW-23D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1783050.5	93.951	%	0.2998				0.32%
Lu 261.542	1149583.6	93.72	%	0.438				0.47%
Ag 328.068†	85.1	0.00045	mg/L	0.000263	0.00045	mg/L	0.000263	58.48%
Al 308.215†	32285.0	1.5854	mg/L	0.01543	1.5854	mg/L	0.01543	0.97%
As 188.979†	0.7	0.00149	mg/L	0.004980	0.00149	mg/L	0.004980	333.68%
Ba 233.527†	1971.2	0.02286	mg/L	0.000099	0.02286	mg/L	0.000099	0.43%
Be 313.107†	26.0	0.00011	mg/L	0.000003	0.00011	mg/L	0.000003	2.64%
Co 228.616†	12.5	0.00019	mg/L	0.000062	0.00019	mg/L	0.000062	32.04%
Cr 267.716†	268.0	0.00394	mg/L	0.000248	0.00394	mg/L	0.000248	6.28%
Cu 324.752†	1701.3	0.00780	mg/L	0.000263	0.00780	mg/L	0.000263	3.38%
Fe 273.955†	32332.1	1.3364	mg/L	0.00557	1.3364	mg/L	0.00557	0.42%
Mg 279.077†	60294.1	3.4406	mg/L	0.01788	3.4406	mg/L	0.01788	0.52%
Mn 257.610†	49685.3	0.08499	mg/L	0.000410	0.08499	mg/L	0.000410	0.48%
Ni 231.604†	29.2	0.00093	mg/L	0.000449	0.00093	mg/L	0.000449	48.16%
Pb 220.353†	4.3	0.00103	mg/L	0.000490	0.00103	mg/L	0.000490	47.51%
Sb 206.836†	0.9	0.00074	mg/L	0.003319	0.00074	mg/L	0.003319	446.20%
Se 196.026†	0.9	0.00230	mg/L	0.010540	0.00230	mg/L	0.010540	459.04%
Tl 190.801	2.9	0.00395	mg/L	0.001676	0.00395	mg/L	0.001676	42.48%
V 292.402†	776.3	0.00631	mg/L	0.000596	0.00631	mg/L	0.000596	9.44%
Zn 206.200†	125.1	0.00602	mg/L	0.000211	0.00602	mg/L	0.000211	3.51%
Cd 226.502†	5.4	-0.00004	mg/L	0.000080	-0.00004	mg/L	0.000080	186.11%
Ti 334.940†	29555.6	0.05322	mg/L	0.005326	0.05322	mg/L	0.005326	10.01%
Ca 227.546†	3019.2	15.471	mg/L	0.1431	15.471	mg/L	0.1431	0.92%
Na 589.592†	61173.3	12.579	mg/L	0.0361	12.579	mg/L	0.0361	0.29%
K 766.490†	2723.7	2.5899	mg/L	0.03611	2.5899	mg/L	0.03611	1.39%

Sequence No.: 15

Sample ID: L1786-01C-SL-MW-23D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 8/30/2012 8:39:06 AM

Data Type: Reprocessed on 8/30/2012 1:59:43 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-01C-SL-MW-23D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1853486.6	97.662	%	1.8553				1.90%
Lu 261.542	1205586.2	98.29	%	1.839				1.87%
Ag 328.068†	193.3	0.00108	mg/L	0.000753	0.00108	mg/L	0.000753	69.61%
Al 308.215†	136.1	0.00364	mg/L	0.005538	0.00364	mg/L	0.005538	151.92%
As 188.979†	2.1	0.00306	mg/L	0.001584	0.00306	mg/L	0.001584	51.71%
Ba 233.527†	1366.6	0.01584	mg/L	0.000307	0.01584	mg/L	0.000307	1.94%
Be 313.107†	-8.3	0.00000	mg/L	0.000020	0.00000	mg/L	0.000020	863.84%
Co 228.616†	3.8	0.00010	mg/L	0.000313	0.00010	mg/L	0.000313	301.82%
Cr 267.716†	4.7	0.00021	mg/L	0.000176	0.00021	mg/L	0.000176	83.99%
Cu 324.752†	440.4	0.00199	mg/L	0.000448	0.00199	mg/L	0.000448	22.54%
Fe 273.955†	372.9	0.01541	mg/L	0.000642	0.01541	mg/L	0.000642	4.17%
Mg 279.077†	55074.5	3.1427	mg/L	0.05415	3.1427	mg/L	0.05415	1.72%
Mn 257.610†	2192.5	0.00372	mg/L	0.000070	0.00372	mg/L	0.000070	1.89%
Ni 231.604†	8.8	0.00028	mg/L	0.000178	0.00028	mg/L	0.000178	62.69%
Pb 220.353†	-9.4	-0.00184	mg/L	0.000501	-0.00184	mg/L	0.000501	27.23%
Sb 206.836†	0.9	0.00077	mg/L	0.002690	0.00077	mg/L	0.002690	350.66%
Se 196.026†	0.3	0.00062	mg/L	0.006676	0.00062	mg/L	0.006676	>999.9%
Tl 190.801	-2.1	-0.00230	mg/L	0.002792	-0.00230	mg/L	0.002792	121.62%
V 292.402†	58.3	0.00048	mg/L	0.000180	0.00048	mg/L	0.000180	37.78%
Zn 206.200†	53.7	0.00252	mg/L	0.000178	0.00252	mg/L	0.000178	7.08%
Cd 226.502†	5.8	0.00007	mg/L	0.000125	0.00007	mg/L	0.000125	188.80%
Ti 334.940†	308.4	0.00074	mg/L	0.000078	0.00074	mg/L	0.000078	10.61%
Ca 227.546†	2826.2	14.493	mg/L	0.2896	14.493	mg/L	0.2896	2.00%
Na 589.592†	58735.8	12.078	mg/L	0.3028	12.078	mg/L	0.3028	2.51%
K 766.490†	2438.6	2.3188	mg/L	0.03384	2.3188	mg/L	0.03384	1.46%

Sequence No.: 16

Sample ID: L1786-02B-SL-MW-73D

Analyst:

Logged In Analyst (Original) : mitOptima3

Autosampler Location: 42

Date Collected: 8/30/2012 8:42:46 AM

Data Type: Reprocessed on 8/30/2012 1:59:44 PM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1786-02B~SL-MW-73D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1800163.5	94.853	%	0.8869				0.94%
Lu 261.542	1162912.6	94.81	%	0.918				0.97%
Ag 328.068†	141.6	0.00078	mg/L	0.000239	0.00078	mg/L	0.000239	30.82%
Al 308.215†	30182.1	1.4818	mg/L	0.00905	1.4818	mg/L	0.00905	0.61%
As 188.979†	0.4	0.00117	mg/L	0.005158	0.00117	mg/L	0.005158	442.56%
Ba 233.527†	1963.0	0.02277	mg/L	0.000164	0.02277	mg/L	0.000164	0.72%
Be 313.107†	73.1	0.00012	mg/L	0.000042	0.00012	mg/L	0.000042	35.76%
Co 228.616†	15.1	0.00028	mg/L	0.000171	0.00028	mg/L	0.000171	61.71%
Cr 267.716†	249.3	0.00368	mg/L	0.000101	0.00368	mg/L	0.000101	2.74%
Cu 324.752†	1582.4	0.00726	mg/L	0.000286	0.00726	mg/L	0.000286	3.94%
Fe 273.955†	31661.3	1.3086	mg/L	0.00643	1.3086	mg/L	0.00643	0.49%
Mg 279.077†	61280.9	3.4969	mg/L	0.01709	3.4969	mg/L	0.01709	0.49%
Mn 257.610†	47197.4	0.08073	mg/L	0.000385	0.08073	mg/L	0.000385	0.48%
Ni 231.604†	22.8	0.00072	mg/L	0.000221	0.00072	mg/L	0.000221	30.50%
Pb 220.353†	0.6	0.00029	mg/L	0.001353	0.00029	mg/L	0.001353	468.76%
Sb 206.836†	2.0	0.00171	mg/L	0.001510	0.00171	mg/L	0.001510	88.24%
Se 196.026†	1.1	0.00274	mg/L	0.009245	0.00274	mg/L	0.009245	337.80%
Tl 190.801	-7.3	-0.00831	mg/L	0.004166	-0.00831	mg/L	0.004166	50.14%
V 292.402†	761.4	0.00620	mg/L	0.000435	0.00620	mg/L	0.000435	7.03%
Zn 206.200†	125.1	0.00600	mg/L	0.000116	0.00600	mg/L	0.000116	1.92%
Cd 226.502†	5.0	-0.00005	mg/L	0.000137	-0.00005	mg/L	0.000137	271.13%
Ti 334.940†	27018.9	0.04867	mg/L	0.002968	0.04867	mg/L	0.002968	6.10%
Ca 227.546†	3112.1	15.948	mg/L	0.1801	15.948	mg/L	0.1801	1.13%
Na 589.592†	62864.9	12.927	mg/L	0.0816	12.927	mg/L	0.0816	0.63%
K 766.490†	2833.1	2.6939	mg/L	0.04451	2.6939	mg/L	0.04451	1.65%

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Sequence No.: 17

Sample ID: L1786-02C~SL-MW-73D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 8/30/2012 8:46:26 AM

Data Type: Reprocessed on 8/30/2012 1:59:44 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-02C~SL-MW-73D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1802446.7	94.973	%	0.1445				0.15%
Lu 261.542	1172302.7	95.57	%	0.052				0.05%
Ag 328.068†	100.9	0.00055	mg/L	0.000223	0.00055	mg/L	0.000223	40.74%
Al 308.215†	241.7	0.00869	mg/L	0.001662	0.00869	mg/L	0.001662	19.13%
As 188.979†	2.8	0.00383	mg/L	0.005690	0.00383	mg/L	0.005690	148.43%
Ba 233.527†	1387.4	0.01609	mg/L	0.000175	0.01609	mg/L	0.000175	1.09%
Be 313.107†	-37.3	-0.00001	mg/L	0.000024	-0.00001	mg/L	0.000024	175.97%
Co 228.616†	0.4	0.00001	mg/L	0.000105	0.00001	mg/L	0.000105	>999.9%
Cr 267.716†	33.8	0.00063	mg/L	0.000310	0.00063	mg/L	0.000310	49.34%
Cu 324.752†	444.7	0.00201	mg/L	0.000276	0.00201	mg/L	0.000276	13.76%
Fe 273.955†	580.0	0.02397	mg/L	0.000027	0.02397	mg/L	0.000027	0.11%
Mg 279.077†	57979.4	3.3085	mg/L	0.03966	3.3085	mg/L	0.03966	1.20%
Mn 257.610†	1986.9	0.00337	mg/L	0.000045	0.00337	mg/L	0.000045	1.34%
Ni 231.604†	9.5	0.00031	mg/L	0.000286	0.00031	mg/L	0.000286	92.93%
Pb 220.353†	-1.2	-0.00024	mg/L	0.001450	-0.00024	mg/L	0.001450	609.82%
Sb 206.836†	-1.1	-0.00096	mg/L	0.000785	-0.00096	mg/L	0.000785	81.64%
Se 196.026†	0.7	0.00147	mg/L	0.008504	0.00147	mg/L	0.008504	580.06%
Tl 190.801	-3.7	-0.00416	mg/L	0.002366	-0.00416	mg/L	0.002366	56.87%
V 292.402†	21.9	0.00018	mg/L	0.000384	0.00018	mg/L	0.000384	213.78%
Zn 206.200†	69.7	0.00327	mg/L	0.000147	0.00327	mg/L	0.000147	4.51%
Cd 226.502†	-4.2	-0.00012	mg/L	0.000149	-0.00012	mg/L	0.000149	127.23%
Ti 334.940†	263.1	0.00067	mg/L	0.000155	0.00067	mg/L	0.000155	23.26%
Ca 227.546†	2969.8	15.229	mg/L	0.1000	15.229	mg/L	0.1000	0.66%
Na 589.592†	61784.9	12.705	mg/L	0.0184	12.705	mg/L	0.0184	0.14%
K 766.490†	2622.0	2.4932	mg/L	0.00911	2.4932	mg/L	0.00911	0.37%

Sequence No.: 18
 Sample ID: CCV
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 8/30/2012 8:50:06 AM
 Data Type: Reprocessed on 8/30/2012 1:59:45 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1772986.8	93.421 %	1.4353			1.54%
Lu 261.542	1155325.3	94.19 %	1.428			1.52%
Ag 328.068†	209674.8	1.2111 mg/L	0.04073	1.2111 mg/L	0.04073	3.36%
QC value within limits for Ag 328.068 Recovery = 96.89%						
Al 308.215†	200643.0	9.8636 mg/L	0.21225	9.8636 mg/L	0.21225	2.15%
QC value within limits for Al 308.215 Recovery = 98.64%						
As 188.979†	411.3	0.49904 mg/L	0.008796	0.49904 mg/L	0.008796	1.76%
QC value within limits for As 188.979 Recovery = 99.81%						
Ba 233.527†	887929.3	10.298 mg/L	0.1270	10.298 mg/L	0.1270	1.23%
QC value within limits for Ba 233.527 Recovery = 102.98%						
Be 313.107†	625385.1	0.24910 mg/L	0.003186	0.24910 mg/L	0.003186	1.28%
QC value within limits for Be 313.107 Recovery = 99.64%						
Co 228.616†	92488.8	2.5720 mg/L	0.05654	2.5720 mg/L	0.05654	2.20%
QC value within limits for Co 228.616 Recovery = 102.88%						
Cr 267.716†	69369.4	0.98094 mg/L	0.020382	0.98094 mg/L	0.020382	2.08%
QC value within limits for Cr 267.716 Recovery = 98.09%						
Cu 324.752†	268154.0	1.2112 mg/L	0.02793	1.2112 mg/L	0.02793	2.31%
QC value within limits for Cu 324.752 Recovery = 96.90%						
Fe 273.955†	122221.5	5.0557 mg/L	0.10964	5.0557 mg/L	0.10964	2.17%
QC value within limits for Fe 273.955 Recovery = 101.11%						
Mg 279.077†	444769.5	25.377 mg/L	0.2936	25.377 mg/L	0.2936	1.16%
QC value within limits for Mg 279.077 Recovery = 101.51%						
Mn 257.610†	1486407.1	2.5432 mg/L	0.03124	2.5432 mg/L	0.03124	1.23%
QC value within limits for Mn 257.610 Recovery = 101.73%						
Ni 231.604†	75646.3	2.5385 mg/L	0.05218	2.5385 mg/L	0.05218	2.06%
QC value within limits for Ni 231.604 Recovery = 101.54%						
Pb 220.353†	2587.0	0.50755 mg/L	0.008687	0.50755 mg/L	0.008687	1.71%
QC value within limits for Pb 220.353 Recovery = 101.51%						
Sb 206.836†	620.0	0.51898 mg/L	0.006581	0.51898 mg/L	0.006581	1.27%
QC value within limits for Sb 206.836 Recovery = 103.80%						
Se 196.026†	245.3	0.49358 mg/L	0.005583	0.49358 mg/L	0.005583	1.13%
QC value within limits for Se 196.026 Recovery = 98.72%						
Tl 190.801	429.8	0.49312 mg/L	0.010614	0.49312 mg/L	0.010614	2.15%
QC value within limits for Tl 190.801 Recovery = 98.62%						
V 292.402†	302789.9	2.4741 mg/L	0.05334	2.4741 mg/L	0.05334	2.16%
QC value within limits for V 292.402 Recovery = 98.97%						
Zn 206.200†	53842.1	2.5274 mg/L	0.05653	2.5274 mg/L	0.05653	2.24%
QC value within limits for Zn 206.200 Recovery = 101.10%						
Cd 226.502†	13595.4	0.24405 mg/L	0.005247	0.24405 mg/L	0.005247	2.15%
QC value within limits for Cd 226.502 Recovery = 97.62%						
Ti 334.940†	274398.8	0.49198 mg/L	0.005906	0.49198 mg/L	0.005906	1.20%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	4951.5	24.536 mg/L	0.2946	24.536 mg/L	0.2946	1.20%
QC value within limits for Ca 227.546 Recovery = 98.15%						
Na 589.592†	125045.4	25.712 mg/L	0.5110	25.712 mg/L	0.5110	1.99%
QC value within limits for Na 589.592 Recovery = 102.85%						
K 766.490†	27233.9	25.896 mg/L	0.5473	25.896 mg/L	0.5473	2.11%
QC value within limits for K 766.490 Recovery = 103.58%						
All analyte(s) passed QC.						

Sequence No.: 19
 Sample ID: CCB
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 8/30/2012 8:53:49 AM
 Data Type: Reprocessed on 8/30/2012 1:59:46 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1822564.6	96.033	%	1.7935				1.87%
Lu 261.542	1179780.1	96.18	%	1.830				1.90%
Ag 328.068†	141.8	0.00082	mg/L	0.001114	0.00082	mg/L	0.001114	136.30%
QC value within limits for Ag		328.068	Recovery =	Not calculated				
Al 308.215†	87.8	0.00431	mg/L	0.004790	0.00431	mg/L	0.004790	111.16%
QC value within limits for Al		308.215	Recovery =	Not calculated				
As 188.979†	1.0	0.00122	mg/L	0.002585	0.00122	mg/L	0.002585	212.36%
QC value within limits for As		188.979	Recovery =	Not calculated				
Ba 233.527†	73.8	0.00086	mg/L	0.000103	0.00086	mg/L	0.000103	12.07%
QC value within limits for Ba		233.527	Recovery =	Not calculated				
Be 313.107†	-46.6	-0.00002	mg/L	0.000011	-0.00002	mg/L	0.000011	61.33%
QC value within limits for Be		313.107	Recovery =	Not calculated				
Co 228.616†	11.4	0.00032	mg/L	0.000244	0.00032	mg/L	0.000244	77.05%
QC value within limits for Co		228.616	Recovery =	Not calculated				
Cr 267.716†	34.1	0.00048	mg/L	0.000655	0.00048	mg/L	0.000655	135.90%
QC value within limits for Cr		267.716	Recovery =	Not calculated				
Cu 324.752†	319.4	0.00144	mg/L	0.000401	0.00144	mg/L	0.000401	27.84%
QC value within limits for Cu		324.752	Recovery =	Not calculated				
Fe 273.955†	32.6	0.00135	mg/L	0.000597	0.00135	mg/L	0.000597	44.34%
QC value within limits for Fe		273.955	Recovery =	Not calculated				
Mg 279.077†	35.8	0.00204	mg/L	0.002423	0.00204	mg/L	0.002423	118.81%
QC value within limits for Mg		279.077	Recovery =	Not calculated				
Mn 257.610†	173.3	0.00030	mg/L	0.000053	0.00030	mg/L	0.000053	17.84%
QC value within limits for Mn		257.610	Recovery =	Not calculated				
Ni 231.604†	14.5	0.00049	mg/L	0.000161	0.00049	mg/L	0.000161	32.89%
QC value within limits for Ni		231.604	Recovery =	Not calculated				
Pb 220.353†	-5.9	-0.00115	mg/L	0.001169	-0.00115	mg/L	0.001169	102.05%
QC value within limits for Pb		220.353	Recovery =	Not calculated				
Sb 206.836†	3.6	0.00312	mg/L	0.001766	0.00312	mg/L	0.001766	56.65%
QC value within limits for Sb		206.836	Recovery =	Not calculated				
Se 196.026†	-0.7	-0.00140	mg/L	0.012371	-0.00140	mg/L	0.012371	880.76%
QC value within limits for Se		196.026	Recovery =	Not calculated				
Tl 190.801	-5.2	-0.00623	mg/L	0.007292	-0.00623	mg/L	0.007292	117.13%
QC value within limits for Tl		190.801	Recovery =	Not calculated				
V 292.402†	70.1	0.00057	mg/L	0.000740	0.00057	mg/L	0.000740	129.26%
QC value within limits for V		292.402	Recovery =	Not calculated				
Zn 206.200†	11.7	0.00055	mg/L	0.000139	0.00055	mg/L	0.000139	25.38%
QC value within limits for Zn		206.200	Recovery =	Not calculated				
Cd 226.502†	3.9	0.00007	mg/L	0.000122	0.00007	mg/L	0.000122	176.46%
QC value within limits for Cd		226.502	Recovery =	Not calculated				
Ti 334.940†	106.9	0.00019	mg/L	0.000056	0.00019	mg/L	0.000056	28.68%
QC value within limits for Ti		334.940	Recovery =	Not calculated				
Ca 227.546†	10.6	0.05416	mg/L	0.117708	0.05416	mg/L	0.117708	217.34%
QC value within limits for Ca		227.546	Recovery =	Not calculated				
Na 589.592†	-38.6	-0.00793	mg/L	0.008053	-0.00793	mg/L	0.008053	101.58%
QC value within limits for Na		589.592	Recovery =	Not calculated				
K 766.490†	-19.2	-0.01825	mg/L	0.022710	-0.01825	mg/L	0.022710	124.42%
QC value within limits for K		766.490	Recovery =	Not calculated				

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: L1786-03B-SL-MW-23S

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 44

Date Collected: 8/30/2012 8:57:31 AM

Data Type: Reprocessed on 8/30/2012 1:59:47 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-03B-SL-MW-23S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1820698.4	95.935	%	1.0203				1.06%
Lu 261.542	1185873.1	96.68	%	0.893				0.92%
Ag 328.068†	682.7	0.00354	mg/L	0.001270	0.00354	mg/L	0.001270	35.87%
Al 308.215†	10370.2	0.50408	mg/L	0.024233	0.50408	mg/L	0.024233	4.81%
As 188.979†	1.8	0.00242	mg/L	0.004252	0.00242	mg/L	0.004252	175.53%
Ba 233.527†	1343.2	0.01557	mg/L	0.000150	0.01557	mg/L	0.000150	0.96%

Be 313.107†	-85.2	0.00001 mg/L	0.000014	0.00001 mg/L	0.000014	234.81%
Co 228.616†	10.5	0.00024 mg/L	0.000132	0.00024 mg/L	0.000132	55.31%
Cr 267.716†	95.9	0.00123 mg/L	0.000422	0.00123 mg/L	0.000422	34.26%
Cu 324.752†	511.4	0.00232 mg/L	0.000214	0.00232 mg/L	0.000214	9.19%
Fe 273.955†	4399.8	0.18185 mg/L	0.005033	0.18185 mg/L	0.005033	2.77%
Mg 279.077†	128322.1	7.3225 mg/L	0.10581	7.3225 mg/L	0.10581	1.45%
Mn 257.610†	874633.7	1.4966 mg/L	0.02497	1.4966 mg/L	0.02497	1.67%
Ni 231.604†	221.6	0.00740 mg/L	0.000057	0.00740 mg/L	0.000057	0.77%
Pb 220.353†	0.8	0.00032 mg/L	0.001287	0.00032 mg/L	0.001287	408.21%
Sb 206.836†	7.4	0.00634 mg/L	0.004569	0.00634 mg/L	0.004569	72.03%
Se 196.026†	3.0	0.00600 mg/L	0.008608	0.00600 mg/L	0.008608	143.45%
Tl 190.801	-3.9	-0.00373 mg/L	0.001898	-0.00373 mg/L	0.001898	50.82%
V 292.402†	103.9	0.00083 mg/L	0.000172	0.00083 mg/L	0.000172	20.75%
Zn 206.200†	338.7	0.01650 mg/L	0.000074	0.01650 mg/L	0.000074	0.45%
Cd 226.502†	7.2	0.00007 mg/L	0.000129	0.00007 mg/L	0.000129	181.75%
Ti 334.940†	11984.2	0.02166 mg/L	0.006596	0.02166 mg/L	0.006596	30.45%
Ca 227.546†	3420.4	17.530 mg/L	0.2249	17.530 mg/L	0.2249	1.28%
Na 589.592†	178584.6	36.722 mg/L	0.5040	36.722 mg/L	0.5040	1.37%
K 766.490†	1395.2	1.3267 mg/L	0.05828	1.3267 mg/L	0.05828	4.39%

Sequence No.: 21

Sample ID: L1786-03C-SL-MW-23S

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 8/30/2012 9:01:11 AM

Data Type: Reprocessed on 8/30/2012 1:59:47 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-03C-SL-MW-23S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1782004.5	93.896	%	0.2475				0.26%
Lu 261.542	1162603.9	94.78	%	0.281				0.30%
Ag 328.068†	204.0	0.00078 mg/L		0.000385	0.00078 mg/L		0.000385	49.40%
Al 308.215†	206.5	0.00385 mg/L		0.005809	0.00385 mg/L		0.005809	150.73%
As 188.979†	-0.1	0.00015 mg/L		0.002531	0.00015 mg/L		0.002531	>999.9%
Ba 233.527†	1194.3	0.01385 mg/L		0.000018	0.01385 mg/L		0.000018	0.13%
Be 313.107†	-71.7	-0.00003 mg/L		0.000011	-0.00003 mg/L		0.000011	37.39%
Co 228.616†	0.9	0.00002 mg/L		0.000226	0.00002 mg/L		0.000226	903.84%
Cr 267.716†	78.4	0.00098 mg/L		0.000181	0.00098 mg/L		0.000181	18.54%
Cu 324.752†	597.7	0.00270 mg/L		0.000328	0.00270 mg/L		0.000328	12.16%
Fe 273.955†	90.5	0.00374 mg/L		0.000133	0.00374 mg/L		0.000133	3.54%
Mg 279.077†	130804.0	7.4641 mg/L		0.08332	7.4641 mg/L		0.08332	1.12%
Mn 257.610†	883307.6	1.5115 mg/L		0.00547	1.5115 mg/L		0.00547	0.36%
Ni 231.604†	212.5	0.00710 mg/L		0.000127	0.00710 mg/L		0.000127	1.78%
Pb 220.353†	-13.2	-0.00248 mg/L		0.000752	-0.00248 mg/L		0.000752	30.34%
Sb 206.836†	5.5	0.00474 mg/L		0.002570	0.00474 mg/L		0.002570	54.17%
Se 196.026†	0.4	0.00088 mg/L		0.008346	0.00088 mg/L		0.008346	943.30%
Tl 190.801	-1.2	-0.00047 mg/L		0.001831	-0.00047 mg/L		0.001831	389.95%
V 292.402†	-5.3	-0.00004 mg/L		0.000097	-0.00004 mg/L		0.000097	236.70%
Zn 206.200†	340.4	0.01655 mg/L		0.000526	0.01655 mg/L		0.000526	3.18%
Cd 226.502†	8.5	0.00011 mg/L		0.000027	0.00011 mg/L		0.000027	24.52%
Ti 334.940†	-188.8	-0.00018 mg/L		0.000114	-0.00018 mg/L		0.000114	64.31%
Ca 227.546†	3465.2	17.762 mg/L		0.1630	17.762 mg/L		0.1630	0.92%
Na 589.592†	179257.1	36.860 mg/L		0.5620	36.860 mg/L		0.5620	1.52%
K 766.490†	1297.8	1.2340 mg/L		0.09393	1.2340 mg/L		0.09393	7.61%

Sequence No.: 22

Sample ID: L1786-04B-SL-MW-13

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 46

Date Collected: 8/30/2012 9:04:59 AM

Data Type: Reprocessed on 8/30/2012 1:59:48 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-04B-SL-MW-13

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1770730.6	93.302	%	1.9603				2.10%

Lu 261.542	1156764.5	94.31 %	1.865			1.98%
Ag 328.068†	156.0	0.00088 mg/L	0.000151	0.00088 mg/L	0.000151	17.28%
Al 308.215†	5695.7	0.27934 mg/L	0.005044	0.27934 mg/L	0.005044	1.81%
As 188.979†	0.4	0.00098 mg/L	0.002057	0.00098 mg/L	0.002057	210.23%
Ba 233.527†	1494.7	0.01733 mg/L	0.000385	0.01733 mg/L	0.000385	2.22%
Be 313.107†	-150.0	-0.00004 mg/L	0.000039	-0.00004 mg/L	0.000039	105.72%
Co 228.616†	40.9	0.00110 mg/L	0.000106	0.00110 mg/L	0.000106	9.68%
Cr 267.716†	2844.1	0.04023 mg/L	0.000596	0.04023 mg/L	0.000596	1.48%
Cu 324.752†	817.0	0.00372 mg/L	0.000378	0.00372 mg/L	0.000378	10.16%
Fe 273.955†	9108.1	0.37646 mg/L	0.005796	0.37646 mg/L	0.005796	1.54%
Mg 279.077†	33285.8	1.8993 mg/L	0.02532	1.8993 mg/L	0.02532	1.33%
Mn 257.610†	15514.1	0.02653 mg/L	0.000477	0.02653 mg/L	0.000477	1.80%
Ni 231.604†	109.1	0.00365 mg/L	0.000166	0.00365 mg/L	0.000166	4.55%
Pb 220.353†	-1.3	-0.00022 mg/L	0.001610	-0.00022 mg/L	0.001610	725.39%
Sb 206.836†	2.5	0.00146 mg/L	0.002073	0.00146 mg/L	0.002073	142.40%
Se 196.026†	-4.1	-0.00803 mg/L	0.003852	-0.00803 mg/L	0.003852	48.00%
Tl 190.801	-3.0	-0.00347 mg/L	0.003004	-0.00347 mg/L	0.003004	86.65%
V 292.402†	171.6	0.00149 mg/L	0.000147	0.00149 mg/L	0.000147	9.88%
Zn 206.200†	57.2	0.00279 mg/L	0.000203	0.00279 mg/L	0.000203	7.28%
Cd 226.502†	20.8	0.00034 mg/L	0.000121	0.00034 mg/L	0.000121	36.07%
Ti 334.940†	6927.6	0.01245 mg/L	0.000283	0.01245 mg/L	0.000283	2.27%
Ca 227.546†	771.5	3.9519 mg/L	0.13503	3.9519 mg/L	0.13503	3.42%
Na 589.592†	345004.1	70.942 mg/L	1.3415	70.942 mg/L	1.3415	1.89%
K 766.490†	974.6	0.92669 mg/L	0.058083	0.92669 mg/L	0.058083	6.27%

Sequence No.: 23

Sample ID: L1786-04C-SL-MW-13

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 8/30/2012 9:08:47 AM

Data Type: Reprocessed on 8/30/2012 1:59:49 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-04C-SL-MW-13

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1777569.9	93.662 %	%	0.9970				1.06%
Lu 261.542	1160821.4	94.64 %	%	1.044				1.10%
Ag 328.068†	123.3	0.00069 mg/L	mg/L	0.000419	0.00069 mg/L	0.000419		60.73%
Al 308.215†	130.6	0.00555 mg/L	mg/L	0.001330	0.00555 mg/L	0.001330		23.95%
As 188.979†	1.9	0.00241 mg/L	mg/L	0.005353	0.00241 mg/L	0.005353		221.73%
Ba 233.527†	1226.3	0.01422 mg/L	mg/L	0.000160	0.01422 mg/L	0.000160		1.13%
Be 313.107†	-71.5	-0.00003 mg/L	mg/L	0.000038	-0.00003 mg/L	0.000038		135.81%
Co 228.616†	26.9	0.00075 mg/L	mg/L	0.000080	0.00075 mg/L	0.000080		10.72%
Cr 267.716†	14.3	0.00024 mg/L	mg/L	0.000348	0.00024 mg/L	0.000348		147.13%
Cu 324.752†	488.1	0.00220 mg/L	mg/L	0.000401	0.00220 mg/L	0.000401		18.20%
Fe 273.955†	162.8	0.00673 mg/L	mg/L	0.000803	0.00673 mg/L	0.000803		11.94%
Mg 279.077†	30799.8	1.7575 mg/L	mg/L	0.02641	1.7575 mg/L	0.02641		1.50%
Mn 257.610†	7855.4	0.01343 mg/L	mg/L	0.000181	0.01343 mg/L	0.000181		1.35%
Ni 231.604†	45.3	0.00151 mg/L	mg/L	0.000119	0.00151 mg/L	0.000119		7.84%
Pb 220.353†	-0.3	-0.00006 mg/L	mg/L	0.001717	-0.00006 mg/L	0.001717		>999.9%
Sb 206.836†	3.1	0.00266 mg/L	mg/L	0.004542	0.00266 mg/L	0.004542		170.75%
Se 196.026†	4.7	0.00940 mg/L	mg/L	0.003290	0.00940 mg/L	0.003290		34.98%
Tl 190.801	-5.6	-0.00663 mg/L	mg/L	0.002417	-0.00663 mg/L	0.002417		36.45%
V 292.402†	48.0	0.00039 mg/L	mg/L	0.000451	0.00039 mg/L	0.000451		114.92%
Zn 206.200†	61.6	0.00289 mg/L	mg/L	0.000018	0.00289 mg/L	0.000018		0.63%
Cd 226.502†	12.3	0.00021 mg/L	mg/L	0.000159	0.00021 mg/L	0.000159		75.40%
Ti 334.940†	90.4	0.00019 mg/L	mg/L	0.000099	0.00019 mg/L	0.000099		51.15%
Ca 227.546†	730.6	3.7455 mg/L	mg/L	0.04987	3.7455 mg/L	0.04987		1.33%
Na 589.592†	330551.3	67.970 mg/L	mg/L	0.9353	67.970 mg/L	0.9353		1.38%
K 766.490†	982.8	0.93450 mg/L	mg/L	0.102113	0.93450 mg/L	0.102113		10.93%

Sequence No.: 24

Sample ID: L1786-07B-SL-MW-12

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 8/30/2012 9:12:35 AM

Data Type: Reprocessed on 8/30/2012 1:59:49 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-07B~SL-MW-12

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1824310.4	96.125	%	1.2807				1.33%
Lu 261.542	1184944.3	96.60	%	1.231				1.27%
Ag 328.068†	107.3	0.00052	mg/L	0.000365	0.00052	mg/L	0.000365	70.23%
Al 308.215†	7472.0	0.36387	mg/L	0.005507	0.36387	mg/L	0.005507	1.51%
As 188.979†	-2.0	0.00001	mg/L	0.001354	0.00001	mg/L	0.001354	>999.9%
Ba 233.527†	5608.2	0.06502	mg/L	0.000727	0.06502	mg/L	0.000727	1.12%
Be 313.107†	-7.2	0.00001	mg/L	0.000009	0.00001	mg/L	0.000009	93.83%
Co 228.616†	10.4	0.00025	mg/L	0.000095	0.00025	mg/L	0.000095	38.90%
Cr 267.716†	14702.6	0.20788	mg/L	0.002015	0.20788	mg/L	0.002015	0.97%
Cu 324.752†	1182.8	0.00544	mg/L	0.000295	0.00544	mg/L	0.000295	5.42%
Fe 273.955†	27997.4	1.1572	mg/L	0.00883	1.1572	mg/L	0.00883	0.76%
Mg 279.077†	54293.7	3.0976	mg/L	0.02012	3.0976	mg/L	0.02012	0.65%
Mn 257.610†	186628.8	0.31934	mg/L	0.002130	0.31934	mg/L	0.002130	0.67%
Ni 231.604†	198.2	0.00663	mg/L	0.000025	0.00663	mg/L	0.000025	0.38%
Pb 220.353†	-1.1	-0.00018	mg/L	0.001620	-0.00018	mg/L	0.001620	917.33%
Sb 206.836†	6.3	0.00161	mg/L	0.001756	0.00161	mg/L	0.001756	109.31%
Se 196.026†	0.6	0.00170	mg/L	0.001055	0.00170	mg/L	0.001055	62.14%
Tl 190.801	-0.5	-0.00015	mg/L	0.003105	-0.00015	mg/L	0.003105	>999.9%
V 292.402†	34.8	0.00078	mg/L	0.000156	0.00078	mg/L	0.000156	19.86%
Zn 206.200†	68.7	0.00379	mg/L	0.000214	0.00379	mg/L	0.000214	5.65%
Cd 226.502†	31.8	0.00044	mg/L	0.000147	0.00044	mg/L	0.000147	33.23%
Ti 334.940†	3667.7	0.00676	mg/L	0.000705	0.00676	mg/L	0.000705	10.42%
Ca 227.546†	3135.0	16.065	mg/L	0.2727	16.065	mg/L	0.2727	1.70%
Na 589.592†	182527.6	37.532	mg/L	0.3441	37.532	mg/L	0.3441	0.92%
K 766.490†	2887.5	2.7457	mg/L	0.10506	2.7457	mg/L	0.10506	3.83%

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Sequence No.: 25

Sample ID: L1786-07C~SL-MW-12

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 8/30/2012 9:16:24 AM

Data Type: Reprocessed on 8/30/2012 1:59:50 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-07C~SL-MW-12

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1803136.2	95.009	%	0.4074				0.43%
Lu 261.542	1171427.3	95.50	%	0.472				0.49%
Ag 328.068†	124.3	0.00062	mg/L	0.000124	0.00062	mg/L	0.000124	20.05%
Al 308.215†	600.7	0.02566	mg/L	0.001388	0.02566	mg/L	0.001388	5.41%
As 188.979†	-2.4	-0.00236	mg/L	0.002273	-0.00236	mg/L	0.002273	96.30%
Ba 233.527†	5083.1	0.05893	mg/L	0.000850	0.05893	mg/L	0.000850	1.44%
Be 313.107†	2.4	0.00000	mg/L	0.000023	0.00000	mg/L	0.000023	>999.9%
Co 228.616†	1.0	0.00003	mg/L	0.000102	0.00003	mg/L	0.000102	353.70%
Cr 267.716†	55.1	0.00088	mg/L	0.000416	0.00088	mg/L	0.000416	47.26%
Cu 324.752†	522.5	0.00236	mg/L	0.000798	0.00236	mg/L	0.000798	33.83%
Fe 273.955†	115.5	0.00477	mg/L	0.000420	0.00477	mg/L	0.000420	8.80%
Mg 279.077†	54415.9	3.1051	mg/L	0.05479	3.1051	mg/L	0.05479	1.76%
Mn 257.610†	183522.7	0.31402	mg/L	0.000726	0.31402	mg/L	0.000726	0.23%
Ni 231.604†	35.4	0.00117	mg/L	0.000172	0.00117	mg/L	0.000172	14.68%
Pb 220.353†	-11.3	-0.00218	mg/L	0.001743	-0.00218	mg/L	0.001743	79.93%
Sb 206.836†	0.0	-0.00001	mg/L	0.004282	-0.00001	mg/L	0.004282	>999.9%
Se 196.026†	3.1	0.00615	mg/L	0.001820	0.00615	mg/L	0.001820	29.61%
Tl 190.801	-3.4	-0.00374	mg/L	0.000822	-0.00374	mg/L	0.000822	21.96%
V 292.402†	-22.1	-0.00018	mg/L	0.000285	-0.00018	mg/L	0.000285	159.18%
Zn 206.200†	35.3	0.00178	mg/L	0.000321	0.00178	mg/L	0.000321	18.06%
Cd 226.502†	23.1	0.00037	mg/L	0.000110	0.00037	mg/L	0.000110	29.62%
Ti 334.940†	-65.6	0.00010	mg/L	0.000048	0.00010	mg/L	0.000048	47.63%
Ca 227.546†	3203.9	16.429	mg/L	0.0660	16.429	mg/L	0.0660	0.40%
Na 589.592†	184288.9	37.894	mg/L	0.3408	37.894	mg/L	0.3408	0.90%
K 766.490†	2863.3	2.7227	mg/L	0.09704	2.7227	mg/L	0.09704	3.56%

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Sequence No.: 26

Sample ID: L1786-08B~SL-MW-14

Autosampler Location: 50

Date Collected: 8/30/2012 9:20:13 AM

Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Data Type: Reprocessed on 8/30/2012 1:59:51 PM

Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: L1786-08B~SL-MW-14

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1836078.3	96.745	%	1.2683				1.31%
Lu 261.542	1197183.3	97.60	%	1.390				1.42%
Ag 328.068†	96.9	0.00053	mg/L	0.000490	0.00053	mg/L	0.000490	91.59%
Al 308.215†	2118.4	0.10339	mg/L	0.007282	0.10339	mg/L	0.007282	7.04%
As 188.979†	0.1	0.00364	mg/L	0.002315	0.00364	mg/L	0.002315	63.53%
Ba 233.527†	2055.7	0.02383	mg/L	0.000334	0.02383	mg/L	0.000334	1.40%
Be 313.107†	-88.2	-0.00003	mg/L	0.000013	-0.00003	mg/L	0.000013	43.86%
Co 228.616†	137.3	0.00376	mg/L	0.000179	0.00376	mg/L	0.000179	4.75%
Cr 267.716†	25701.7	0.36325	mg/L	0.011823	0.36325	mg/L	0.011823	3.25%
Cu 324.752†	961.4	0.00452	mg/L	0.000332	0.00452	mg/L	0.000332	7.33%
Fe 273.955†	48332.4	1.9977	mg/L	0.07160	1.9977	mg/L	0.07160	3.58%
Mg 279.077†	23644.2	1.3483	mg/L	0.05217	1.3483	mg/L	0.05217	3.87%
Mn 257.610†	30534.2	0.05224	mg/L	0.001834	0.05224	mg/L	0.001834	3.51%
Ni 231.604†	877.1	0.02943	mg/L	0.000593	0.02943	mg/L	0.000593	2.02%
Pb 220.353†	3.5	0.00068	mg/L	0.000820	0.00068	mg/L	0.000820	119.85%
Sb 206.836†	8.5	0.00057	mg/L	0.001043	0.00057	mg/L	0.001043	182.70%
Se 196.026†	-0.4	0.00003	mg/L	0.007017	0.00003	mg/L	0.007017	>999.9%
Tl 190.801	-5.3	-0.00607	mg/L	0.003460	-0.00607	mg/L	0.003460	57.02%
V 292.402†	99.0	0.00170	mg/L	0.000306	0.00170	mg/L	0.000306	18.05%
Zn 206.200†	59.6	0.00358	mg/L	0.000162	0.00358	mg/L	0.000162	4.52%
Cd 226.502†	15.0	0.00012	mg/L	0.000060	0.00012	mg/L	0.000060	51.20%
Ti 334.940†	1789.0	0.00319	mg/L	0.000382	0.00319	mg/L	0.000382	11.96%
Ca 227.546†	687.7	3.5064	mg/L	0.08823	3.5064	mg/L	0.08823	2.52%
Na 589.592†	444797.9	91.462	mg/L	1.0053	91.462	mg/L	1.0053	1.10%
K 766.490†	1731.0	1.6459	mg/L	0.00715	1.6459	mg/L	0.00715	0.43%

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Sequence No.: 27
 Sample ID: L1786-08C~SL-MW-14
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 51
 Date Collected: 8/30/2012 9:24:01 AM
 Data Type: Reprocessed on 8/30/2012 1:59:51 PM
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: L1786-08C~SL-MW-14

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1775226.4	93.539	%	0.3453				0.37%
Lu 261.542	1161616.3	94.70	%	0.375				0.40%
Ag 328.068†	195.6	0.00111	mg/L	0.000565	0.00111	mg/L	0.000565	50.90%
Al 308.215†	128.4	0.00550	mg/L	0.003299	0.00550	mg/L	0.003299	59.95%
As 188.979†	0.7	0.00103	mg/L	0.003227	0.00103	mg/L	0.003227	313.51%
Ba 233.527†	1984.8	0.02301	mg/L	0.000087	0.02301	mg/L	0.000087	0.38%
Be 313.107†	-66.0	-0.00003	mg/L	0.000019	-0.00003	mg/L	0.000019	71.03%
Co 228.616†	83.7	0.00232	mg/L	0.000154	0.00232	mg/L	0.000154	6.62%
Cr 267.716†	198.9	0.00284	mg/L	0.000341	0.00284	mg/L	0.000341	11.99%
Cu 324.752†	550.4	0.00249	mg/L	0.000199	0.00249	mg/L	0.000199	7.99%
Fe 273.955†	649.3	0.02684	mg/L	0.000250	0.02684	mg/L	0.000250	0.93%
Mg 279.077†	23395.4	1.3350	mg/L	0.01701	1.3350	mg/L	0.01701	1.27%
Mn 257.610†	10193.2	0.01743	mg/L	0.000251	0.01743	mg/L	0.000251	1.44%
Ni 231.604†	621.2	0.02085	mg/L	0.000211	0.02085	mg/L	0.000211	1.01%
Pb 220.353†	-8.6	-0.00169	mg/L	0.000937	-0.00169	mg/L	0.000937	55.57%
Sb 206.836†	4.1	0.00348	mg/L	0.002351	0.00348	mg/L	0.002351	67.54%
Se 196.026†	1.2	0.00234	mg/L	0.005131	0.00234	mg/L	0.005131	219.42%
Tl 190.801	-3.3	-0.00388	mg/L	0.002475	-0.00388	mg/L	0.002475	63.74%
V 292.402†	14.8	0.00013	mg/L	0.000239	0.00013	mg/L	0.000239	187.60%
Zn 206.200†	43.7	0.00206	mg/L	0.000204	0.00206	mg/L	0.000204	9.88%
Cd 226.502†	4.0	0.00006	mg/L	0.000062	0.00006	mg/L	0.000062	95.23%
Ti 334.940†	41.7	0.00011	mg/L	0.000121	0.00011	mg/L	0.000121	108.94%
Ca 227.546†	699.8	3.5867	mg/L	0.01337	3.5867	mg/L	0.01337	0.37%
Na 589.592†	466700.3	95.965	mg/L	0.5286	95.965	mg/L	0.5286	0.55%

K 766.490† 1755.9 1.6696 mg/L 0.10325 1.6696 mg/L 0.10325 6.18%

Sequence No.: 28

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 9:27:48 AM

Data Type: Reprocessed on 8/30/2012 1:59:52 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1750164.8	92.218 %	0.4288			0.46%
Lu 261.542	1141021.2	93.02 %	0.391			0.42%
Ag 328.068†	210883.3	1.2181 mg/L	0.01613	1.2181 mg/L	0.01613	1.32%
QC value within limits for Ag 328.068		Recovery = 97.45%				
Al 308.215†	202097.3	9.9353 mg/L	0.10960	9.9353 mg/L	0.10960	1.10%
QC value within limits for Al 308.215		Recovery = 99.35%				
As 188.979†	410.5	0.49812 mg/L	0.005103	0.49812 mg/L	0.005103	1.02%
QC value within limits for As 188.979		Recovery = 99.62%				
Ba 233.527†	879498.2	10.200 mg/L	0.0241	10.200 mg/L	0.0241	0.24%
QC value within limits for Ba 233.527		Recovery = 102.00%				
Be 313.107†	621352.3	0.24749 mg/L	0.000371	0.24749 mg/L	0.000371	0.15%
QC value within limits for Be 313.107		Recovery = 99.00%				
Co 228.616†	93542.6	2.6014 mg/L	0.02372	2.6014 mg/L	0.02372	0.91%
QC value within limits for Co 228.616		Recovery = 104.05%				
Cr 267.716†	69867.0	0.98798 mg/L	0.007217	0.98798 mg/L	0.007217	0.73%
QC value within limits for Cr 267.716		Recovery = 98.80%				
Cu 324.752†	269992.9	1.2195 mg/L	0.01007	1.2195 mg/L	0.01007	0.83%
QC value within limits for Cu 324.752		Recovery = 97.56%				
Fe 273.955†	123349.8	5.1024 mg/L	0.04850	5.1024 mg/L	0.04850	0.95%
QC value within limits for Fe 273.955		Recovery = 102.05%				
Mg 279.077†	441349.6	25.182 mg/L	0.0607	25.182 mg/L	0.0607	0.24%
QC value within limits for Mg 279.077		Recovery = 100.73%				
Mn 257.610†	1479326.4	2.5311 mg/L	0.00415	2.5311 mg/L	0.00415	0.16%
QC value within limits for Mn 257.610		Recovery = 101.25%				
Ni 231.604†	76352.5	2.5622 mg/L	0.02217	2.5622 mg/L	0.02217	0.87%
QC value within limits for Ni 231.604		Recovery = 102.49%				
Pb 220.353†	2557.9	0.50186 mg/L	0.001498	0.50186 mg/L	0.001498	0.30%
QC value within limits for Pb 220.353		Recovery = 100.37%				
Sb 206.836†	623.2	0.52168 mg/L	0.001243	0.52168 mg/L	0.001243	0.24%
QC value within limits for Sb 206.836		Recovery = 104.34%				
Se 196.026†	242.9	0.48882 mg/L	0.016782	0.48882 mg/L	0.016782	3.43%
QC value within limits for Se 196.026		Recovery = 97.76%				
Tl 190.801	417.2	0.47770 mg/L	0.005844	0.47770 mg/L	0.005844	1.22%
QC value within limits for Tl 190.801		Recovery = 95.54%				
V 292.402†	305434.6	2.4958 mg/L	0.01746	2.4958 mg/L	0.01746	0.70%
QC value within limits for V 292.402		Recovery = 99.83%				
Zn 206.200†	54441.3	2.5555 mg/L	0.02770	2.5555 mg/L	0.02770	1.08%
QC value within limits for Zn 206.200		Recovery = 102.22%				
Cd 226.502†	13715.3	0.24620 mg/L	0.001041	0.24620 mg/L	0.001041	0.42%
QC value within limits for Cd 226.502		Recovery = 98.48%				
Ti 334.940†	270548.2	0.48508 mg/L	0.002220	0.48508 mg/L	0.002220	0.46%
QC value within limits for Ti 334.940		Recovery = Not calculated				
Ca 227.546†	4902.8	24.278 mg/L	0.0717	24.278 mg/L	0.0717	0.30%
QC value within limits for Ca 227.546		Recovery = 97.11%				
Na 589.592†	123427.7	25.380 mg/L	0.0928	25.380 mg/L	0.0928	0.37%
QC value within limits for Na 589.592		Recovery = 101.52%				
K 766.490†	27030.4	25.703 mg/L	0.1598	25.703 mg/L	0.1598	0.62%
QC value within limits for K 766.490		Recovery = 102.81%				

All analyte(s) passed QC.

Sequence No.: 29

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 9:31:39 AM

Data Type: Reprocessed on 8/30/2012 1:59:53 PM

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 360.073	1824190.2	96.119 %		1.0894			1.13%
Lu 261.542	1181340.3	96.31 %		1.141			1.18%
Ag 328.068†	298.2	0.00172 mg/L		0.000492	0.00172 mg/L	0.000492	28.65%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 308.215†	-84.8	-0.00418 mg/L		0.004969	-0.00418 mg/L	0.004969	118.77%
QC value within limits for Al 308.215 Recovery = Not calculated							
As 188.979†	0.2	0.00029 mg/L		0.001891	0.00029 mg/L	0.001891	652.18%
QC value within limits for As 188.979 Recovery = Not calculated							
Ba 233.527†	57.8	0.00067 mg/L		0.000098	0.00067 mg/L	0.000098	14.62%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	51.8	0.00002 mg/L		0.000027	0.00002 mg/L	0.000027	130.81%
QC value within limits for Be 313.107 Recovery = Not calculated							
Co 228.616†	3.5	0.00010 mg/L		0.000098	0.00010 mg/L	0.000098	99.97%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	17.5	0.00025 mg/L		0.000297	0.00025 mg/L	0.000297	119.91%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	241.5	0.00109 mg/L		0.000315	0.00109 mg/L	0.000315	28.86%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	39.5	0.00163 mg/L		0.000410	0.00163 mg/L	0.000410	25.11%
QC value within limits for Fe 273.955 Recovery = Not calculated							
Mg 279.077†	27.8	0.00159 mg/L		0.001834	0.00159 mg/L	0.001834	115.55%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	118.8	0.00020 mg/L		0.000021	0.00020 mg/L	0.000021	10.39%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	5.4	0.00018 mg/L		0.000200	0.00018 mg/L	0.000200	109.58%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	-1.1	-0.00022 mg/L		0.000388	-0.00022 mg/L	0.000388	174.53%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	1.6	0.00137 mg/L		0.001965	0.00137 mg/L	0.001965	143.11%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.0	0.00199 mg/L		0.014738	0.00199 mg/L	0.014738	740.38%
QC value within limits for Se 196.026 Recovery = Not calculated							
Tl 190.801	-2.5	-0.00305 mg/L		0.003013	-0.00305 mg/L	0.003013	98.86%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	39.1	0.00032 mg/L		0.000310	0.00032 mg/L	0.000310	97.13%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	13.4	0.00063 mg/L		0.000316	0.00063 mg/L	0.000316	50.40%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Cd 226.502†	6.6	0.00012 mg/L		0.000068	0.00012 mg/L	0.000068	58.14%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Ti 334.940†	81.8	0.00015 mg/L		0.000091	0.00015 mg/L	0.000091	61.82%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	7.7	0.03929 mg/L		0.076270	0.03929 mg/L	0.076270	194.13%
QC value within limits for Ca 227.546 Recovery = Not calculated							
Na 589.592†	80.1	0.01648 mg/L		0.027562	0.01648 mg/L	0.027562	167.26%
QC value within limits for Na 589.592 Recovery = Not calculated							
K 766.490†	-2.7	-0.00258 mg/L		0.060438	-0.00258 mg/L	0.060438	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 30

Sample ID: L1786-09B-SL-MW-16

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 52

Date Collected: 8/30/2012 9:35:20 AM

Data Type: Reprocessed on 8/30/2012 1:59:54 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09B-SL-MW-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1797669.0	94.721 %		0.6524			0.69%
Lu 261.542	1173640.5	95.68 %		0.708			0.74%
Ag 328.068†	655.4	0.00372 mg/L		0.001234	0.00372 mg/L	0.001234	33.14%
Al 308.215†	6146.9	0.30010 mg/L		0.003896	0.30010 mg/L	0.003896	1.30%

As 188.979†	-0.2	0.00062 mg/L	0.003881	0.00062 mg/L	0.003881	622.59%
Ba 233.527†	833.4	0.00966 mg/L	0.000092	0.00966 mg/L	0.000092	0.95%
Be 313.107†	-163.0	-0.00005 mg/L	0.000033	-0.00005 mg/L	0.000033	64.89%
Co 228.616†	50.2	0.00136 mg/L	0.000287	0.00136 mg/L	0.000287	21.06%
Cr 267.716†	4242.5	0.06006 mg/L	0.000554	0.06006 mg/L	0.000554	0.92%
Cu 324.752†	2916.4	0.01319 mg/L	0.000261	0.01319 mg/L	0.000261	1.97%
Fe 273.955†	8487.3	0.35080 mg/L	0.001284	0.35080 mg/L	0.001284	0.37%
Mg 279.077†	86228.1	4.9203 mg/L	0.04518	4.9203 mg/L	0.04518	0.92%
Mn 257.610†	14045.2	0.02398 mg/L	0.000246	0.02398 mg/L	0.000246	1.03%
Ni 231.604†	1314.7	0.04410 mg/L	0.000270	0.04410 mg/L	0.000270	0.61%
Pb 220.353†	0.8	0.00020 mg/L	0.000696	0.00020 mg/L	0.000696	351.42%
Sb 206.836†	5.9	0.00398 mg/L	0.004873	0.00398 mg/L	0.004873	122.59%
Se 196.026†	2.3	0.00478 mg/L	0.005526	0.00478 mg/L	0.005526	115.67%
Tl 190.801	0.1	0.00046 mg/L	0.003202	0.00046 mg/L	0.003202	693.53%
V 292.402†	255.2	0.00222 mg/L	0.000237	0.00222 mg/L	0.000237	10.67%
Zn 206.200†	188.7	0.00899 mg/L	0.000170	0.00899 mg/L	0.000170	1.89%
Cd 226.502†	2.7	0.00001 mg/L	0.000122	0.00001 mg/L	0.000122	>999.9%
Ti 334.940†	4229.7	0.00766 mg/L	0.000190	0.00766 mg/L	0.000190	2.48%
Ca 227.546†	2016.1	10.332 mg/L	0.0765	10.332 mg/L	0.0765	0.74%
Na 589.592†	127746.1	26.268 mg/L	0.1522	26.268 mg/L	0.1522	0.58%
K 766.490†	1548.8	1.4727 mg/L	0.02586	1.4727 mg/L	0.02586	1.76%

Sequence No.: 31

Sample ID: L1786-09BDUP~SL-MW-16D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 53

Date Collected: 8/30/2012 9:39:00 AM

Data Type: Reprocessed on 8/30/2012 1:59:54 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09BDUP~SL-MW-16D

Analyte	Mean Corrected	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1794190.7	94.538	%	0.6399				0.68%
Lu 261.542	1170661.2	95.44	%	0.620				0.65%
Ag 328.068†	218.4	0.00121 mg/L		0.000055	0.00121 mg/L		0.000055	4.58%
Al 308.215†	5549.3	0.27074 mg/L		0.006506	0.27074 mg/L		0.006506	2.40%
As 188.979†	-0.3	0.00043 mg/L		0.002385	0.00043 mg/L		0.002385	554.80%
Ba 233.527†	799.0	0.00927 mg/L		0.000062	0.00927 mg/L		0.000062	0.67%
Be 313.107†	-102.5	-0.00003 mg/L		0.000023	-0.00003 mg/L		0.000023	81.82%
Co 228.616†	50.5	0.00138 mg/L		0.000127	0.00138 mg/L		0.000127	9.20%
Cr 267.716†	3647.6	0.05165 mg/L		0.000638	0.05165 mg/L		0.000638	1.24%
Cu 324.752†	2757.0	0.01247 mg/L		0.000781	0.01247 mg/L		0.000781	6.26%
Fe 273.955†	8015.8	0.33131 mg/L		0.003130	0.33131 mg/L		0.003130	0.94%
Mg 279.077†	82575.1	4.7119 mg/L		0.04433	4.7119 mg/L		0.04433	0.94%
Mn 257.610†	15090.1	0.02577 mg/L		0.000209	0.02577 mg/L		0.000209	0.81%
Ni 231.604†	1281.4	0.04299 mg/L		0.000284	0.04299 mg/L		0.000284	0.66%
Pb 220.353†	-0.3	-0.00003 mg/L		0.002117	-0.00003 mg/L		0.002117	>999.9%
Sb 206.836†	2.1	0.00087 mg/L		0.003545	0.00087 mg/L		0.003545	409.75%
Se 196.026†	-0.6	-0.00103 mg/L		0.004289	-0.00103 mg/L		0.004289	416.15%
Tl 190.801	-0.3	-0.00002 mg/L		0.003129	-0.00002 mg/L		0.003129	>999.9%
V 292.402†	239.2	0.00207 mg/L		0.000339	0.00207 mg/L		0.000339	16.39%
Zn 206.200†	189.1	0.00899 mg/L		0.000111	0.00899 mg/L		0.000111	1.24%
Cd 226.502†	10.8	0.00015 mg/L		0.000028	0.00015 mg/L		0.000028	18.38%
Ti 334.940†	3714.9	0.00674 mg/L		0.000429	0.00674 mg/L		0.000429	6.37%
Ca 227.546†	1981.5	10.155 mg/L		0.0328	10.155 mg/L		0.0328	0.32%
Na 589.592†	121974.3	25.081 mg/L		0.0867	25.081 mg/L		0.0867	0.35%
K 766.490†	1600.7	1.5220 mg/L		0.10135	1.5220 mg/L		0.10135	6.66%

Sequence No.: 32

Sample ID: L1786-09BMS~SL-MW-16S

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 54

Date Collected: 8/30/2012 9:42:42 AM

Data Type: Reprocessed on 8/30/2012 1:59:55 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09BMS~SL-MW-16S

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1792320.6	94.439 %	1.1343			1.20%
Lu 261.542	1169356.1	95.33 %	1.207			1.27%
Ag 328.068†	193802.6	1.1193 mg/L	0.00471	1.1193 mg/L	0.00471	0.42%
Al 308.215†	189159.0	9.2977 mg/L	0.06509	9.2977 mg/L	0.06509	0.70%
As 188.979†	392.3	0.47642 mg/L	0.008851	0.47642 mg/L	0.008851	1.86%
Ba 233.527†	812423.9	9.4218 mg/L	0.08610	9.4218 mg/L	0.08610	0.91%
Be 313.107†	588098.7	0.23341 mg/L	0.002304	0.23341 mg/L	0.002304	0.99%
Co 228.616†	82541.7	2.2964 mg/L	0.01170	2.2964 mg/L	0.01170	0.51%
Cr 267.716†	67294.9	0.95166 mg/L	0.007893	0.95166 mg/L	0.007893	0.83%
Cu 324.752†	247764.2	1.1191 mg/L	0.00519	1.1191 mg/L	0.00519	0.46%
Fe 273.955†	124025.3	5.1299 mg/L	0.02919	5.1299 mg/L	0.02919	0.57%
Mg 279.077†	490416.3	27.982 mg/L	0.2987	27.982 mg/L	0.2987	1.07%
Mn 257.610†	1379396.6	2.3601 mg/L	0.02638	2.3601 mg/L	0.02638	1.12%
Ni 231.604†	69336.8	2.3270 mg/L	0.01392	2.3270 mg/L	0.01392	0.60%
Pb 220.353†	2342.3	0.45913 mg/L	0.004308	0.45913 mg/L	0.004308	0.94%
Sb 206.836†	568.9	0.47421 mg/L	0.012573	0.47421 mg/L	0.012573	2.65%
Se 196.026†	223.7	0.45007 mg/L	0.015951	0.45007 mg/L	0.015951	3.54%
Tl 190.801	376.4	0.43169 mg/L	0.002571	0.43169 mg/L	0.002571	0.60%
V 292.402†	274288.8	2.2420 mg/L	0.01395	2.2420 mg/L	0.01395	0.62%
Zn 206.200†	48777.7	2.2895 mg/L	0.00998	2.2895 mg/L	0.00998	0.44%
Cd 226.502†	12554.2	0.22529 mg/L	0.001178	0.22529 mg/L	0.001178	0.52%
Ti 334.940†	3728.3	0.00653 mg/L	0.000256	0.00653 mg/L	0.000256	3.92%
Ca 227.546†	6462.1	32.368 mg/L	0.3714	32.368 mg/L	0.3714	1.15%
Na 589.592†	237136.0	48.761 mg/L	0.1957	48.761 mg/L	0.1957	0.40%
K 766.490†	26569.7	25.265 mg/L	0.1126	25.265 mg/L	0.1126	0.45%

Sequence No.: 33

Sample ID: L1786-09BSD~SL-MW-16L

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 55

Date Collected: 8/30/2012 9:46:25 AM

Data Type: Reprocessed on 8/30/2012 1:59:56 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09BSD~SL-MW-16L

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1875023.4	98.797 %	1.4108			1.43%
Lu 261.542	1220419.6	99.49 %	1.459			1.47%
Ag 328.068†	156.5	0.00089 mg/L	0.000289	0.00089 mg/L	0.000289	32.39%
Al 308.215†	1041.5	0.05078 mg/L	0.003218	0.05078 mg/L	0.003218	6.34%
As 188.979†	3.3	0.00409 mg/L	0.006206	0.00409 mg/L	0.006206	151.68%
Ba 233.527†	206.2	0.00239 mg/L	0.000137	0.00239 mg/L	0.000137	5.73%
Be 313.107†	22.3	0.00001 mg/L	0.000015	0.00001 mg/L	0.000015	129.95%
Co 228.616†	13.8	0.00038 mg/L	0.000253	0.00038 mg/L	0.000253	67.06%
Cr 267.716†	810.7	0.01148 mg/L	0.000314	0.01148 mg/L	0.000314	2.74%
Cu 324.752†	656.9	0.00297 mg/L	0.000151	0.00297 mg/L	0.000151	5.10%
Fe 273.955†	1692.1	0.06994 mg/L	0.003715	0.06994 mg/L	0.003715	5.31%
Mg 279.077†	17353.2	0.99020 mg/L	0.006649	0.99020 mg/L	0.006649	0.67%
Mn 257.610†	2880.2	0.00492 mg/L	0.000100	0.00492 mg/L	0.000100	2.04%
Ni 231.604†	269.6	0.00904 mg/L	0.000275	0.00904 mg/L	0.000275	3.04%
Pb 220.353†	-9.7	-0.00190 mg/L	0.002415	-0.00190 mg/L	0.002415	127.37%
Sb 206.836†	-0.4	-0.00056 mg/L	0.004571	-0.00056 mg/L	0.004571	822.61%
Se 196.026†	2.9	0.00577 mg/L	0.004690	0.00577 mg/L	0.004690	81.27%
Tl 190.801	0.6	0.00076 mg/L	0.002176	0.00076 mg/L	0.002176	285.97%
V 292.402†	98.4	0.00083 mg/L	0.000236	0.00083 mg/L	0.000236	28.43%
Zn 206.200†	42.0	0.00200 mg/L	0.000128	0.00200 mg/L	0.000128	6.39%
Cd 226.502†	6.3	0.00010 mg/L	0.000114	0.00010 mg/L	0.000114	109.37%
Ti 334.940†	811.3	0.00147 mg/L	0.000050	0.00147 mg/L	0.000050	3.40%
Ca 227.546†	399.2	2.0457 mg/L	0.05842	2.0457 mg/L	0.05842	2.86%
Na 589.592†	25033.5	5.1475 mg/L	0.06391	5.1475 mg/L	0.06391	1.24%
K 766.490†	292.4	0.27808 mg/L	0.174050	0.27808 mg/L	0.174050	62.59%

Sequence No.: 34

Sample ID: L1786-09BPDS~SL-MW-16A

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Autosampler Location: 56

Date Collected: 8/30/2012 9:50:05 AM

Data Type: Reprocessed on 8/30/2012 1:59:56 PM

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1786-09BPDS~SL-MW-16A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1774204.2	93.485	%	0.5825				0.62%
Lu 261.542	1157846.6	94.39	%	0.644				0.68%
Ag 328.068†	194348.5	1.1225	mg/L	0.01453	1.1225	mg/L	0.01453	1.29%
Al 308.215†	191603.8	9.4181	mg/L	0.11922	9.4181	mg/L	0.11922	1.27%
As 188.979†	377.8	0.45926	mg/L	0.003802	0.45926	mg/L	0.003802	0.83%
Ba 233.527†	807181.2	9.3611	mg/L	0.05531	9.3611	mg/L	0.05531	0.59%
Be 313.107†	584832.2	0.23212	mg/L	0.001325	0.23212	mg/L	0.001325	0.57%
Co 228.616†	83857.9	2.3330	mg/L	0.03309	2.3330	mg/L	0.03309	1.42%
Cr 267.716†	68548.5	0.96939	mg/L	0.012697	0.96939	mg/L	0.012697	1.31%
Cu 324.752†	250836.7	1.1330	mg/L	0.01495	1.1330	mg/L	0.01495	1.32%
Fe 273.955†	121173.9	5.0121	mg/L	0.06601	5.0121	mg/L	0.06601	1.32%
Mg 279.077†	487585.9	27.821	mg/L	0.1842	27.821	mg/L	0.1842	0.66%
Mn 257.610†	1371523.2	2.3466	mg/L	0.01654	2.3466	mg/L	0.01654	0.70%
Ni 231.604†	70404.9	2.3629	mg/L	0.03510	2.3629	mg/L	0.03510	1.49%
Pb 220.353†	2305.6	0.45198	mg/L	0.003273	0.45198	mg/L	0.003273	0.72%
Sb 206.836†	528.3	0.43891	mg/L	0.006851	0.43891	mg/L	0.006851	1.56%
Se 196.026†	221.3	0.44523	mg/L	0.003052	0.44523	mg/L	0.003052	0.69%
Tl 190.801	384.2	0.44066	mg/L	0.003246	0.44066	mg/L	0.003246	0.74%
V 292.402†	278101.9	2.2732	mg/L	0.03000	2.2732	mg/L	0.03000	1.32%
Zn 206.200†	49380.3	2.3178	mg/L	0.03436	2.3178	mg/L	0.03436	1.48%
Cd 226.502†	12393.7	0.22243	mg/L	0.003876	0.22243	mg/L	0.003876	1.74%
Ti 334.940†	4467.0	0.00785	mg/L	0.000208	0.00785	mg/L	0.000208	2.65%
Ca 227.546†	6493.6	32.519	mg/L	0.2684	32.519	mg/L	0.2684	0.83%
Na 589.592†	234325.9	48.183	mg/L	0.6574	48.183	mg/L	0.6574	1.36%
K 766.490†	26105.2	24.823	mg/L	0.3995	24.823	mg/L	0.3995	1.61%

Sequence No.: 35

Sample ID: L1786-09C~SL-MW-16

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 8/30/2012 9:53:48 AM

Data Type: Reprocessed on 8/30/2012 1:59:57 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09C~SL-MW-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1801596.2	94.928	%	0.3709				0.39%
Lu 261.542	1175920.7	95.87	%	0.525				0.55%
Ag 328.068†	197.2	0.00109	mg/L	0.000589	0.00109	mg/L	0.000589	54.22%
Al 308.215†	445.4	0.01962	mg/L	0.005718	0.01962	mg/L	0.005718	29.15%
As 188.979†	2.3	0.00316	mg/L	0.001806	0.00316	mg/L	0.001806	57.13%
Ba 233.527†	797.2	0.00924	mg/L	0.000106	0.00924	mg/L	0.000106	1.15%
Be 313.107†	-79.0	-0.00003	mg/L	0.000019	-0.00003	mg/L	0.000019	60.72%
Co 228.616†	58.0	0.00160	mg/L	0.000168	0.00160	mg/L	0.000168	10.51%
Cr 267.716†	281.7	0.00408	mg/L	0.000450	0.00408	mg/L	0.000450	11.05%
Cu 324.752†	478.0	0.00217	mg/L	0.000301	0.00217	mg/L	0.000301	13.88%
Fe 273.955†	3807.7	0.15738	mg/L	0.002312	0.15738	mg/L	0.002312	1.47%
Mg 279.077†	81102.1	4.6279	mg/L	0.03150	4.6279	mg/L	0.03150	0.68%
Mn 257.610†	13431.6	0.02294	mg/L	0.000042	0.02294	mg/L	0.000042	0.18%
Ni 231.604†	1285.4	0.04312	mg/L	0.000412	0.04312	mg/L	0.000412	0.96%
Pb 220.353†	-6.9	-0.00135	mg/L	0.002002	-0.00135	mg/L	0.002002	148.74%
Sb 206.836†	6.8	0.00577	mg/L	0.003698	0.00577	mg/L	0.003698	64.11%
Se 196.026†	6.3	0.01251	mg/L	0.008938	0.01251	mg/L	0.008938	71.46%
Tl 190.801	-0.2	0.00010	mg/L	0.005076	0.00010	mg/L	0.005076	>999.9%
V 292.402†	146.2	0.00121	mg/L	0.000174	0.00121	mg/L	0.000174	14.42%
Zn 206.200†	116.5	0.00549	mg/L	0.000135	0.00549	mg/L	0.000135	2.46%
Cd 226.502†	-0.7	-0.00004	mg/L	0.000120	-0.00004	mg/L	0.000120	291.26%
Ti 334.940†	131.1	0.00032	mg/L	0.000048	0.00032	mg/L	0.000048	14.96%
Ca 227.546†	1945.5	9.9723	mg/L	0.01655	9.9723	mg/L	0.01655	0.17%
Na 589.592†	123615.7	25.419	mg/L	0.2993	25.419	mg/L	0.2993	1.18%
K 766.490†	1554.0	1.4777	mg/L	0.07343	1.4777	mg/L	0.07343	4.97%

Sequence No.: 36

Sample ID: L1786-09CDUP~SL-MW-16D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 8/30/2012 9:57:30 AM

Data Type: Reprocessed on 8/30/2012 1:59:58 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09CDUP~SL-MW-16D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1822668.5	96.038	%	0.4465				0.46%
Lu 261.542	1189295.1	96.96	%	0.418				0.43%
Ag 328.068†	171.0	0.00094	mg/L	0.000233	0.00094	mg/L	0.000233	24.96%
Al 308.215†	380.0	0.01644	mg/L	0.003885	0.01644	mg/L	0.003885	23.62%
As 188.979†	3.5	0.00452	mg/L	0.002821	0.00452	mg/L	0.002821	62.42%
Ba 233.527†	709.0	0.00822	mg/L	0.000041	0.00822	mg/L	0.000041	0.50%
Be 313.107†	-69.9	-0.00003	mg/L	0.000008	-0.00003	mg/L	0.000008	30.46%
Co 228.616†	57.5	0.00159	mg/L	0.000184	0.00159	mg/L	0.000184	11.60%
Cr 267.716†	296.6	0.00429	mg/L	0.000648	0.00429	mg/L	0.000648	15.12%
Cu 324.752†	378.8	0.00172	mg/L	0.000184	0.00172	mg/L	0.000184	10.65%
Fe 273.955†	3700.1	0.15293	mg/L	0.004899	0.15293	mg/L	0.004899	3.20%
Mg 279.077†	80292.5	4.5817	mg/L	0.14304	4.5817	mg/L	0.14304	3.12%
Mn 257.610†	13149.7	0.02245	mg/L	0.000600	0.02245	mg/L	0.000600	2.67%
Ni 231.604†	1257.3	0.04218	mg/L	0.000188	0.04218	mg/L	0.000188	0.45%
Pb 220.353†	-0.8	-0.00015	mg/L	0.000979	-0.00015	mg/L	0.000979	637.55%
Sb 206.836†	2.7	0.00221	mg/L	0.002761	0.00221	mg/L	0.002761	124.79%
Se 196.026†	4.8	0.00963	mg/L	0.005889	0.00963	mg/L	0.005889	61.15%
Tl 190.801	-6.9	-0.00798	mg/L	0.001159	-0.00798	mg/L	0.001159	14.53%
V 292.402†	85.0	0.00071	mg/L	0.000249	0.00071	mg/L	0.000249	35.14%
Zn 206.200†	98.8	0.00466	mg/L	0.000069	0.00466	mg/L	0.000069	1.47%
Cd 226.502†	5.2	0.00006	mg/L	0.000050	0.00006	mg/L	0.000050	76.98%
Ti 334.940†	53.7	0.00018	mg/L	0.000143	0.00018	mg/L	0.000143	80.52%
Ca 227.546†	1904.5	9.7621	mg/L	0.07689	9.7621	mg/L	0.07689	0.79%
Na 589.592†	124115.7	25.521	mg/L	0.1272	25.521	mg/L	0.1272	0.50%
K 766.490†	1535.1	1.4597	mg/L	0.17225	1.4597	mg/L	0.17225	11.80%

Sequence No.: 37

Sample ID: L1786-09CMS~SL-MW-16S

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 59

Date Collected: 8/30/2012 10:01:11 AM

Data Type: Reprocessed on 8/30/2012 1:59:59 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09CMS~SL-MW-16S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1764900.7	92.995	%	0.9444				1.02%
Lu 261.542	1151299.7	93.86	%	0.929				0.99%
Ag 328.068†	196447.7	1.1346	mg/L	0.01383	1.1346	mg/L	0.01383	1.22%
Al 308.215†	187889.6	9.2353	mg/L	0.12704	9.2353	mg/L	0.12704	1.38%
As 188.979†	401.9	0.48748	mg/L	0.007998	0.48748	mg/L	0.007998	1.64%
Ba 233.527†	812452.4	9.4222	mg/L	0.01559	9.4222	mg/L	0.01559	0.17%
Be 313.107†	588543.0	0.23357	mg/L	0.000228	0.23357	mg/L	0.000228	0.10%
Co 228.616†	84547.2	2.3522	mg/L	0.03337	2.3522	mg/L	0.03337	1.42%
Cr 267.716†	65403.2	0.92494	mg/L	0.013273	0.92494	mg/L	0.013273	1.44%
Cu 324.752†	250961.2	1.1336	mg/L	0.01332	1.1336	mg/L	0.01332	1.18%
Fe 273.955†	117424.2	4.8571	mg/L	0.06868	4.8571	mg/L	0.06868	1.41%
Mg 279.077†	487754.6	27.830	mg/L	0.0696	27.830	mg/L	0.0696	0.25%
Mn 257.610†	1378590.2	2.3587	mg/L	0.00447	2.3587	mg/L	0.00447	0.19%
Ni 231.604†	70854.9	2.3780	mg/L	0.03357	2.3780	mg/L	0.03357	1.41%
Pb 220.353†	2394.2	0.46927	mg/L	0.006976	0.46927	mg/L	0.006976	1.49%
Sb 206.836†	576.1	0.48091	mg/L	0.007536	0.48091	mg/L	0.007536	1.57%
Se 196.026†	231.7	0.46599	mg/L	0.006784	0.46599	mg/L	0.006784	1.46%
Tl 190.801	372.2	0.42605	mg/L	0.003780	0.42605	mg/L	0.003780	0.89%
V 292.402†	279650.1	2.2857	mg/L	0.02943	2.2857	mg/L	0.02943	1.29%
Zn 206.200†	49666.9	2.3311	mg/L	0.03093	2.3311	mg/L	0.03093	1.33%
Cd 226.502†	13003.1	0.23337	mg/L	0.003428	0.23337	mg/L	0.003428	1.47%
Ti 334.940†	309.3	0.00040	mg/L	0.000045	0.00040	mg/L	0.000045	11.20%

Ca 227.546†	6470.0	32.394 mg/L	0.4112	32.394 mg/L	0.4112	1.27%
Na 589.592†	237231.4	48.781 mg/L	0.3471	48.781 mg/L	0.3471	0.71%
K 766.490†	26848.0	25.529 mg/L	0.2351	25.529 mg/L	0.2351	0.92%

Sequence No.: 38

Autosampler Location: 60

Sample ID: L1786-09CSD~SL-MW-16L

Date Collected: 8/30/2012 10:04:55 AM

Analyst:

Data Type: Reprocessed on 8/30/2012 1:59:59 PM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1786-09CSD~SL-MW-16L

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1831347.8	96.496 %		1.6363				1.70%
Lu 261.542	1192535.5	97.22 %		1.711				1.76%
Ag 328.068†	187.0	0.00107 mg/L		0.000492	0.00107 mg/L		0.000492	46.16%
Al 308.215†	138.0	0.00631 mg/L		0.002517	0.00631 mg/L		0.002517	39.91%
As 188.979†	0.7	0.00095 mg/L		0.002656	0.00095 mg/L		0.002656	278.35%
Ba 233.527†	212.1	0.00246 mg/L		0.000107	0.00246 mg/L		0.000107	4.36%
Be 313.107†	-55.9	-0.00002 mg/L		0.000017	-0.00002 mg/L		0.000017	76.51%
Co 228.616†	17.0	0.00047 mg/L		0.000291	0.00047 mg/L		0.000291	61.92%
Cr 267.716†	74.7	0.00108 mg/L		0.000231	0.00108 mg/L		0.000231	21.43%
Cu 324.752†	319.4	0.00144 mg/L		0.000282	0.00144 mg/L		0.000282	19.53%
Fe 273.955†	804.8	0.03327 mg/L		0.001057	0.03327 mg/L		0.001057	3.18%
Mg 279.077†	17320.0	0.98833 mg/L		0.015982	0.98833 mg/L		0.015982	1.62%
Mn 257.610†	2947.4	0.00503 mg/L		0.000098	0.00503 mg/L		0.000098	1.94%
Ni 231.604†	270.2	0.00906 mg/L		0.000225	0.00906 mg/L		0.000225	2.48%
Pb 220.353†	-4.2	-0.00082 mg/L		0.000685	-0.00082 mg/L		0.000685	83.81%
Sb 206.836†	-1.3	-0.00118 mg/L		0.001319	-0.00118 mg/L		0.001319	112.21%
Se 196.026†	-0.7	-0.00147 mg/L		0.004351	-0.00147 mg/L		0.004351	295.01%
Tl 190.801	0.9	0.00114 mg/L		0.003982	0.00114 mg/L		0.003982	348.47%
V 292.402†	61.8	0.00051 mg/L		0.000200	0.00051 mg/L		0.000200	39.42%
Zn 206.200†	37.1	0.00175 mg/L		0.000139	0.00175 mg/L		0.000139	7.95%
Cd 226.502†	10.4	0.00018 mg/L		0.000154	0.00018 mg/L		0.000154	85.18%
Ti 334.940†	63.9	0.00013 mg/L		0.000069	0.00013 mg/L		0.000069	52.36%
Ca 227.546†	410.4	2.1034 mg/L		0.07366	2.1034 mg/L		0.07366	3.50%
Na 589.592†	25106.8	5.1626 mg/L		0.13832	5.1626 mg/L		0.13832	2.68%
K 766.490†	329.2	0.31302 mg/L		0.121777	0.31302 mg/L		0.121777	38.90%

Sequence No.: 39

Autosampler Location: 3

Sample ID: CCV

Date Collected: 8/30/2012 10:08:36 AM

Analyst:

Data Type: Reprocessed on 8/30/2012 2:00:00 PM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1780620.2	93.823 %		1.0540				1.12%
Lu 261.542	1163395.0	94.85 %		1.036				1.09%
Ag 328.068†	204547.2	1.1816 mg/L		0.02328	1.1816 mg/L		0.02328	1.97%
QC value within limits for Ag 328.068		Recovery = 94.53%						
Al 308.215†	200016.1	9.8328 mg/L		0.10562	9.8328 mg/L		0.10562	1.07%
QC value within limits for Al 308.215		Recovery = 98.33%						
As 188.979†	412.1	0.49996 mg/L		0.006284	0.49996 mg/L		0.006284	1.26%
QC value within limits for As 188.979		Recovery = 99.99%						
Ba 233.527†	889384.9	10.314 mg/L		0.0275	10.314 mg/L		0.0275	0.27%
QC value within limits for Ba 233.527		Recovery = 103.14%						
Be 313.107†	631200.1	0.25140 mg/L		0.000412	0.25140 mg/L		0.000412	0.16%
QC value within limits for Be 313.107		Recovery = 100.56%						
Co 228.616†	92870.8	2.5827 mg/L		0.02583	2.5827 mg/L		0.02583	1.00%
QC value within limits for Co 228.616		Recovery = 103.31%						
Cr 267.716†	69287.1	0.97977 mg/L		0.009697	0.97977 mg/L		0.009697	0.99%
QC value within limits for Cr 267.716		Recovery = 97.98%						
Cu 324.752†	265656.0	1.1999 mg/L		0.01461	1.1999 mg/L		0.01461	1.22%

QC value within limits for Cu 324.752 Recovery = 96.00%
 Fe 273.955† 122440.9 5.0648 mg/L 0.05036 5.0648 mg/L 0.05036 0.99%
 QC value within limits for Fe 273.955 Recovery = 101.30%
 Mg 279.077† 449479.7 25.646 mg/L 0.0694 25.646 mg/L 0.0694 0.27%
 QC value within limits for Mg 279.077 Recovery = 102.59%
 Mn 257.610† 1500748.4 2.5678 mg/L 0.00909 2.5678 mg/L 0.00909 0.35%
 QC value within limits for Mn 257.610 Recovery = 102.71%
 Ni 231.604† 75673.4 2.5394 mg/L 0.03023 2.5394 mg/L 0.03023 1.19%
 QC value within limits for Ni 231.604 Recovery = 101.58%
 Pb 220.353† 2568.9 0.50402 mg/L 0.005407 0.50402 mg/L 0.005407 1.07%
 QC value within limits for Pb 220.353 Recovery = 100.80%
 Sb 206.836† 628.0 0.52592 mg/L 0.003580 0.52592 mg/L 0.003580 0.68%
 QC value within limits for Sb 206.836 Recovery = 105.18%
 Se 196.026† 243.1 0.48928 mg/L 0.011734 0.48928 mg/L 0.011734 2.40%
 QC value within limits for Se 196.026 Recovery = 97.86%
 Tl 190.801 429.7 0.49298 mg/L 0.005739 0.49298 mg/L 0.005739 1.16%
 QC value within limits for Tl 190.801 Recovery = 98.60%
 V 292.402† 302322.4 2.4703 mg/L 0.02242 2.4703 mg/L 0.02242 0.91%
 QC value within limits for V 292.402 Recovery = 98.81%
 Zn 206.200† 54403.3 2.5537 mg/L 0.03057 2.5537 mg/L 0.03057 1.20%
 QC value within limits for Zn 206.200 Recovery = 102.15%
 Cd 226.502† 13625.1 0.24458 mg/L 0.001697 0.24458 mg/L 0.001697 0.69%
 QC value within limits for Cd 226.502 Recovery = 97.83%
 Ti 334.940† 272635.9 0.48881 mg/L 0.001498 0.48881 mg/L 0.001498 0.31%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 4886.5 24.200 mg/L 0.2098 24.200 mg/L 0.2098 0.87%
 QC value within limits for Ca 227.546 Recovery = 96.80%
 Na 589.592† 123301.9 25.354 mg/L 0.3457 25.354 mg/L 0.3457 1.36%
 QC value within limits for Na 589.592 Recovery = 101.42%
 K 766.490† 27399.3 26.053 mg/L 0.3486 26.053 mg/L 0.3486 1.34%
 QC value within limits for K 766.490 Recovery = 104.21%
 All analyte(s) passed QC.

Sequence No.: 40

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 10:12:19 AM

Data Type: Reprocessed on 8/30/2012 2:00:01 PM

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 360.073	1850083.2	97.483	%	1.5793				1.62%
Lu 261.542	1199075.9	97.75	%	1.570				1.61%
Ag 328.068†	386.8	0.00223	mg/L	0.000295	0.00223	mg/L	0.000295	13.25%
QC value within limits for Ag		328.068	Recovery =	Not calculated				
Al 308.215†	-116.4	-0.00574	mg/L	0.003661	-0.00574	mg/L	0.003661	63.76%
QC value within limits for Al		308.215	Recovery =	Not calculated				
As 188.979†	2.2	0.00260	mg/L	0.005944	0.00260	mg/L	0.005944	229.05%
QC value within limits for As		188.979	Recovery =	Not calculated				
Ba 233.527†	72.0	0.00084	mg/L	0.000195	0.00084	mg/L	0.000195	23.39%
QC value within limits for Ba		233.527	Recovery =	Not calculated				
Be 313.107†	57.0	0.00002	mg/L	0.000060	0.00002	mg/L	0.000060	260.06%
QC value within limits for Be		313.107	Recovery =	Not calculated				
Co 228.616†	2.6	0.00007	mg/L	0.000051	0.00007	mg/L	0.000051	70.86%
QC value within limits for Co		228.616	Recovery =	Not calculated				
Cr 267.716†	23.0	0.00033	mg/L	0.000460	0.00033	mg/L	0.000460	141.43%
QC value within limits for Cr		267.716	Recovery =	Not calculated				
Cu 324.752†	164.5	0.00074	mg/L	0.000140	0.00074	mg/L	0.000140	18.83%
QC value within limits for Cu		324.752	Recovery =	Not calculated				
Fe 273.955†	36.3	0.00150	mg/L	0.000635	0.00150	mg/L	0.000635	42.30%
QC value within limits for Fe		273.955	Recovery =	Not calculated				
Mg 279.077†	-26.6	-0.00152	mg/L	0.004925	-0.00152	mg/L	0.004925	324.86%
QC value within limits for Mg		279.077	Recovery =	Not calculated				
Mn 257.610†	169.3	0.00029	mg/L	0.000062	0.00029	mg/L	0.000062	21.39%
QC value within limits for Mn		257.610	Recovery =	Not calculated				
Ni 231.604†	6.1	0.00021	mg/L	0.000099	0.00021	mg/L	0.000099	48.03%
QC value within limits for Ni		231.604	Recovery =	Not calculated				

Pb 220.353† -2.9 -0.00056 mg/L 0.001031 -0.00056 mg/L 0.001031 184.66%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† -2.4 -0.00205 mg/L 0.001656 -0.00205 mg/L 0.001656 80.90%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 4.7 0.00932 mg/L 0.004104 0.00932 mg/L 0.004104 44.02%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Tl 190.801 -1.2 -0.00139 mg/L 0.004174 -0.00139 mg/L 0.004174 300.46%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 98.2 0.00080 mg/L 0.000135 0.00080 mg/L 0.000135 16.85%
 QC value within limits for V 292.402 Recovery = Not calculated
 Zn 206.200† 10.6 0.00050 mg/L 0.000188 0.00050 mg/L 0.000188 37.84%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Cd 226.502† 9.3 0.00017 mg/L 0.000088 0.00017 mg/L 0.000088 53.23%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† 86.1 0.00016 mg/L 0.000105 0.00016 mg/L 0.000105 67.52%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 15.8 0.08086 mg/L 0.094243 0.08086 mg/L 0.094243 116.55%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 Na 589.592† 89.8 0.01847 mg/L 0.007122 0.01847 mg/L 0.007122 38.57%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† 120.3 0.11440 mg/L 0.128391 0.11440 mg/L 0.128391 112.23%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 41

Sample ID: L1786-09CPDS~SL-MW-16A

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 61

Date Collected: 8/30/2012 10:16:01 AM

Data Type: Reprocessed on 8/30/2012 2:00:01 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-09CPDS~SL-MW-16A

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1770731.2	93.302 %		0.6690			0.72%
Lu 261.542	1156369.9	94.27 %		0.702			0.74%
Ag 328.068†	194505.1	1.1234 mg/L		0.00761	1.1234 mg/L	0.00761	0.68%
Al 308.215†	183885.5	9.0382 mg/L		0.05199	9.0382 mg/L	0.05199	0.58%
As 188.979†	394.7	0.47883 mg/L		0.008818	0.47883 mg/L	0.008818	1.84%
Ba 233.527†	810689.9	9.4017 mg/L		0.11081	9.4017 mg/L	0.11081	1.18%
Be 313.107†	588277.4	0.23347 mg/L		0.003025	0.23347 mg/L	0.003025	1.30%
Co 228.616†	83363.0	2.3193 mg/L		0.01495	2.3193 mg/L	0.01495	0.64%
Cr 267.716†	64133.4	0.90698 mg/L		0.005683	0.90698 mg/L	0.005683	0.63%
Cu 324.752†	247133.9	1.1163 mg/L		0.00687	1.1163 mg/L	0.00687	0.62%
Fe 273.955†	115771.8	4.7888 mg/L		0.03268	4.7888 mg/L	0.03268	0.68%
Mg 279.077†	487083.1	27.792 mg/L		0.3271	27.792 mg/L	0.3271	1.18%
Mn 257.610†	1379801.5	2.3608 mg/L		0.02712	2.3608 mg/L	0.02712	1.15%
Ni 231.604†	69968.8	2.3482 mg/L		0.01920	2.3482 mg/L	0.01920	0.82%
Pb 220.353†	2370.4	0.46460 mg/L		0.004350	0.46460 mg/L	0.004350	0.94%
Sb 206.836†	550.4	0.45912 mg/L		0.013735	0.45912 mg/L	0.013735	2.99%
Se 196.026†	224.3	0.45121 mg/L		0.005262	0.45121 mg/L	0.005262	1.17%
Tl 190.801	395.4	0.45421 mg/L		0.005157	0.45421 mg/L	0.005157	1.14%
V 292.402†	275471.9	2.2516 mg/L		0.01443	2.2516 mg/L	0.01443	0.64%
Zn 206.200†	48797.2	2.2903 mg/L		0.01398	2.2903 mg/L	0.01398	0.61%
Cd 226.502†	12547.0	0.22519 mg/L		0.001642	0.22519 mg/L	0.001642	0.73%
Ti 334.940†	403.7	0.00057 mg/L		0.000138	0.00057 mg/L	0.000138	24.27%
Ca 227.546†	6463.4	32.371 mg/L		0.5070	32.371 mg/L	0.5070	1.57%
Na 589.592†	237341.1	48.803 mg/L		0.8757	48.803 mg/L	0.8757	1.79%
K 766.490†	26917.3	25.595 mg/L		0.4841	25.595 mg/L	0.4841	1.89%

Sequence No.: 42

Sample ID: L1786-10B~SL-MW-1

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 62

Date Collected: 8/30/2012 10:19:45 AM

Data Type: Reprocessed on 8/30/2012 2:00:02 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-10B-SL-MW-1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1786734.2	94.145	%	1.0473				1.11%
Lu 261.542	1165182.0	94.99	%	1.173				1.23%
Ag 328.068†	146.0	0.00076	mg/L	0.000880	0.00076	mg/L	0.000880	116.09%
Al 308.215†	1050.0	0.04515	mg/L	0.007235	0.04515	mg/L	0.007235	16.03%
As 188.979†	3.1	0.00468	mg/L	0.006202	0.00468	mg/L	0.006202	132.43%
Ba 233.527†	2951.0	0.03421	mg/L	0.000478	0.03421	mg/L	0.000478	1.40%
Be 313.107†	-53.1	-0.00002	mg/L	0.000041	-0.00002	mg/L	0.000041	218.78%
Co 228.616†	4.2	0.00011	mg/L	0.000346	0.00011	mg/L	0.000346	315.82%
Cr 267.716†	76.4	0.00135	mg/L	0.000267	0.00135	mg/L	0.000267	19.78%
Cu 324.752†	752.0	0.00341	mg/L	0.000189	0.00341	mg/L	0.000189	5.55%
Fe 273.955†	3184.4	0.13162	mg/L	0.003362	0.13162	mg/L	0.003362	2.55%
Mg 279.077†	84632.3	4.8294	mg/L	0.08689	4.8294	mg/L	0.08689	1.80%
Mn 257.610†	95910.3	0.16408	mg/L	0.002951	0.16408	mg/L	0.002951	1.80%
Ni 231.604†	25.6	0.00084	mg/L	0.000231	0.00084	mg/L	0.000231	27.58%
Pb 220.353†	-0.2	-0.00002	mg/L	0.001859	-0.00002	mg/L	0.001859	>999.9%
Sb 206.836†	5.8	0.00495	mg/L	0.001601	0.00495	mg/L	0.001601	32.32%
Se 196.026†	-0.6	-0.00108	mg/L	0.005337	-0.00108	mg/L	0.005337	495.95%
Tl 190.801	-0.3	0.00011	mg/L	0.001357	0.00011	mg/L	0.001357	>999.9%
V 292.402†	34.8	0.00029	mg/L	0.000735	0.00029	mg/L	0.000735	255.37%
Zn 206.200†	152.4	0.00722	mg/L	0.000219	0.00722	mg/L	0.000219	3.03%
Cd 226.502†	18.9	0.00025	mg/L	0.000106	0.00025	mg/L	0.000106	42.13%
Ti 334.940†	771.4	0.00181	mg/L	0.000577	0.00181	mg/L	0.000577	31.95%
Ca 227.546†	5937.4	30.447	mg/L	0.5799	30.447	mg/L	0.5799	1.90%
Na 589.592†	155095.9	31.892	mg/L	0.5642	31.892	mg/L	0.5642	1.77%
K 766.490†	1434.1	1.3637	mg/L	0.03616	1.3637	mg/L	0.03616	2.65%

Sequence No.: 43

Sample ID: L1786-10C-SL-MW-1

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 63

Date Collected: 8/30/2012 10:23:26 AM

Data Type: Reprocessed on 8/30/2012 2:00:03 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-10C-SL-MW-1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1793853.2	94.520	%	0.6070				0.64%
Lu 261.542	1170591.7	95.43	%	0.609				0.64%
Ag 328.068†	216.0	0.00120	mg/L	0.000600	0.00120	mg/L	0.000600	50.19%
Al 308.215†	-30.1	-0.00767	mg/L	0.000749	-0.00767	mg/L	0.000749	9.77%
As 188.979†	0.6	0.00174	mg/L	0.004759	0.00174	mg/L	0.004759	273.44%
Ba 233.527†	2714.9	0.03148	mg/L	0.000206	0.03148	mg/L	0.000206	0.65%
Be 313.107†	-31.4	-0.00001	mg/L	0.000019	-0.00001	mg/L	0.000019	144.17%
Co 228.616†	-2.4	-0.00007	mg/L	0.000167	-0.00007	mg/L	0.000167	248.06%
Cr 267.716†	52.7	0.00104	mg/L	0.000216	0.00104	mg/L	0.000216	20.76%
Cu 324.752†	446.0	0.00201	mg/L	0.000328	0.00201	mg/L	0.000328	16.29%
Fe 273.955†	475.0	0.01963	mg/L	0.005589	0.01963	mg/L	0.005589	28.47%
Mg 279.077†	81447.3	4.6476	mg/L	0.04184	4.6476	mg/L	0.04184	0.90%
Mn 257.610†	5834.9	0.00994	mg/L	0.000067	0.00994	mg/L	0.000067	0.67%
Ni 231.604†	-5.3	-0.00020	mg/L	0.000222	-0.00020	mg/L	0.000222	112.23%
Pb 220.353†	-8.4	-0.00164	mg/L	0.000635	-0.00164	mg/L	0.000635	38.68%
Sb 206.836†	5.8	0.00501	mg/L	0.002862	0.00501	mg/L	0.002862	57.15%
Se 196.026†	1.2	0.00235	mg/L	0.004897	0.00235	mg/L	0.004897	208.00%
Tl 190.801	-3.9	-0.00427	mg/L	0.001651	-0.00427	mg/L	0.001651	38.63%
V 292.402†	41.8	0.00034	mg/L	0.000087	0.00034	mg/L	0.000087	25.33%
Zn 206.200†	52.4	0.00246	mg/L	0.000029	0.00246	mg/L	0.000029	1.16%
Cd 226.502†	7.8	0.00006	mg/L	0.000143	0.00006	mg/L	0.000143	233.25%
Ti 334.940†	-269.9	-0.00007	mg/L	0.000075	-0.00007	mg/L	0.000075	115.21%
Ca 227.546†	5849.3	29.996	mg/L	0.3792	29.996	mg/L	0.3792	1.26%
Na 589.592†	154016.3	31.670	mg/L	0.4048	31.670	mg/L	0.4048	1.28%
K 766.490†	1458.5	1.3869	mg/L	0.03987	1.3869	mg/L	0.03987	2.87%

Sequence No.: 44

Sample ID: L1786-11B-SL-MW-2

Analyst:

Autosampler Location: 64

Date Collected: 8/30/2012 10:27:07 AM

Data Type: Reprocessed on 8/30/2012 2:00:03 PM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-11B~SL-MW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1777717.2	93.670	%	0.8620				0.92%
Lu 261.542	1157908.4	94.40	%	0.874				0.93%
Ag 328.068†	287.6	0.00160	mg/L	0.000685	0.00160	mg/L	0.000685	42.79%
Al 308.215†	4974.1	0.24052	mg/L	0.005016	0.24052	mg/L	0.005016	2.09%
As 188.979†	-0.2	0.00164	mg/L	0.001856	0.00164	mg/L	0.001856	113.10%
Ba 233.527†	2095.6	0.02430	mg/L	0.000258	0.02430	mg/L	0.000258	1.06%
Be 313.107†	-61.5	-0.00002	mg/L	0.000013	-0.00002	mg/L	0.000013	71.66%
Co 228.616†	41.3	0.00112	mg/L	0.000072	0.00112	mg/L	0.000072	6.41%
Cr 267.716†	8975.2	0.12702	mg/L	0.002126	0.12702	mg/L	0.002126	1.67%
Cu 324.752†	1203.2	0.00551	mg/L	0.000225	0.00551	mg/L	0.000225	4.09%
Fe 273.955†	21500.2	0.88864	mg/L	0.014395	0.88864	mg/L	0.014395	1.62%
Mg 279.077†	70284.6	4.0103	mg/L	0.05272	4.0103	mg/L	0.05272	1.31%
Mn 257.610†	49094.8	0.08397	mg/L	0.001107	0.08397	mg/L	0.001107	1.32%
Ni 231.604†	146.3	0.00489	mg/L	0.000274	0.00489	mg/L	0.000274	5.59%
Pb 220.353†	-8.8	-0.00171	mg/L	0.000731	-0.00171	mg/L	0.000731	42.88%
Sb 206.836†	4.9	0.00190	mg/L	0.002056	0.00190	mg/L	0.002056	108.06%
Se 196.026†	6.6	0.01346	mg/L	0.003760	0.01346	mg/L	0.003760	27.93%
Tl 190.801	-2.6	-0.00275	mg/L	0.002931	-0.00275	mg/L	0.002931	106.48%
V 292.402†	120.5	0.00130	mg/L	0.000430	0.00130	mg/L	0.000430	33.16%
Zn 206.200†	136.9	0.00673	mg/L	0.000542	0.00673	mg/L	0.000542	8.06%
Cd 226.502†	90.8	0.00151	mg/L	0.000073	0.00151	mg/L	0.000073	4.82%
Ti 334.940†	1675.2	0.00325	mg/L	0.000700	0.00325	mg/L	0.000700	21.56%
Ca 227.546†	3858.6	19.779	mg/L	0.1827	19.779	mg/L	0.1827	0.92%
Na 589.592†	95470.4	19.631	mg/L	0.1324	19.631	mg/L	0.1324	0.67%
K 766.490†	1953.9	1.8579	mg/L	0.06160	1.8579	mg/L	0.06160	3.32%

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Sequence No.: 45

Sample ID: L1786-11C~SL-MW-2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 65

Date Collected: 8/30/2012 10:30:48 AM

Data Type: Reprocessed on 8/30/2012 2:00:04 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1786-11C~SL-MW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1743351.4	91.859	%	1.0728				1.17%
Lu 261.542	1135532.9	92.57	%	1.103				1.19%
Ag 328.068†	217.3	0.00121	mg/L	0.000873	0.00121	mg/L	0.000873	72.10%
Al 308.215†	163.4	0.00392	mg/L	0.004386	0.00392	mg/L	0.004386	111.82%
As 188.979†	0.5	0.00126	mg/L	0.004018	0.00126	mg/L	0.004018	319.13%
Ba 233.527†	2031.8	0.02356	mg/L	0.000261	0.02356	mg/L	0.000261	1.11%
Be 313.107†	-102.3	-0.00004	mg/L	0.000041	-0.00004	mg/L	0.000041	99.01%
Co 228.616†	-2.8	-0.00008	mg/L	0.000099	-0.00008	mg/L	0.000099	126.26%
Cr 267.716†	50.6	0.00091	mg/L	0.000450	0.00091	mg/L	0.000450	49.37%
Cu 324.752†	520.3	0.00235	mg/L	0.000553	0.00235	mg/L	0.000553	23.55%
Fe 273.955†	321.1	0.01327	mg/L	0.000959	0.01327	mg/L	0.000959	7.23%
Mg 279.077†	68810.4	3.9265	mg/L	0.04034	3.9265	mg/L	0.04034	1.03%
Mn 257.610†	2465.8	0.00418	mg/L	0.000040	0.00418	mg/L	0.000040	0.96%
Ni 231.604†	41.0	0.00136	mg/L	0.000148	0.00136	mg/L	0.000148	10.83%
Pb 220.353†	-10.0	-0.00195	mg/L	0.001320	-0.00195	mg/L	0.001320	67.69%
Sb 206.836†	-0.6	-0.00056	mg/L	0.004197	-0.00056	mg/L	0.004197	752.54%
Se 196.026†	4.2	0.00827	mg/L	0.009369	0.00827	mg/L	0.009369	113.35%
Tl 190.801	-3.9	-0.00436	mg/L	0.005863	-0.00436	mg/L	0.005863	134.40%
V 292.402†	31.9	0.00026	mg/L	0.000335	0.00026	mg/L	0.000335	127.78%
Zn 206.200†	92.3	0.00432	mg/L	0.000348	0.00432	mg/L	0.000348	8.06%
Cd 226.502†	26.7	0.00043	mg/L	0.000142	0.00043	mg/L	0.000142	33.35%
Ti 334.940†	-158.2	-0.00002	mg/L	0.000088	-0.00002	mg/L	0.000088	359.84%
Ca 227.546†	3839.0	19.687	mg/L	0.2671	19.687	mg/L	0.2671	1.36%
Na 589.592†	97145.6	19.976	mg/L	0.0759	19.976	mg/L	0.0759	0.38%
K 766.490†	2091.3	1.9886	mg/L	0.07698	1.9886	mg/L	0.07698	3.87%

Sequence No.: 46
 Sample ID: L1786-12B-RB-02
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 66
 Date Collected: 8/30/2012 10:34:29 AM
 Data Type: Reprocessed on 8/30/2012 2:00:05 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1786-12B-RB-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1749532.3	92.185	%	1.0174				1.10%
Lu 261.542	1135548.8	92.58	%	1.034				1.12%
Ag 328.068†	163.6	0.00094	mg/L	0.000267	0.00094	mg/L	0.000267	28.40%
Al 308.215†	62.8	0.00301	mg/L	0.004511	0.00301	mg/L	0.004511	149.68%
As 188.979†	0.3	0.00038	mg/L	0.004530	0.00038	mg/L	0.004530	>999.9%
Ba 233.527†	21.5	0.00025	mg/L	0.000093	0.00025	mg/L	0.000093	37.30%
Be 313.107†	-68.9	-0.00003	mg/L	0.000008	-0.00003	mg/L	0.000008	29.79%
Co 228.616†	-1.4	-0.00004	mg/L	0.000149	-0.00004	mg/L	0.000149	382.58%
Cr 267.716†	55.7	0.00079	mg/L	0.000242	0.00079	mg/L	0.000242	30.57%
Cu 324.752†	433.0	0.00195	mg/L	0.000660	0.00195	mg/L	0.000660	33.76%
Fe 273.955†	296.8	0.01227	mg/L	0.000172	0.01227	mg/L	0.000172	1.40%
Mg 279.077†	312.0	0.01780	mg/L	0.002735	0.01780	mg/L	0.002735	15.36%
Mn 257.610†	339.9	0.00058	mg/L	0.000022	0.00058	mg/L	0.000022	3.74%
Ni 231.604†	0.1	0.00000	mg/L	0.000320	0.00000	mg/L	0.000320	>999.9%
Pb 220.353†	-3.2	-0.00063	mg/L	0.001199	-0.00063	mg/L	0.001199	190.80%
Sb 206.836†	3.1	0.00266	mg/L	0.002530	0.00266	mg/L	0.002530	95.22%
Se 196.026†	-1.5	-0.00300	mg/L	0.005621	-0.00300	mg/L	0.005621	187.05%
Tl 190.801	-2.2	-0.00261	mg/L	0.004125	-0.00261	mg/L	0.004125	157.87%
V 292.402†	30.2	0.00025	mg/L	0.000156	0.00025	mg/L	0.000156	62.88%
Zn 206.200†	513.8	0.02407	mg/L	0.000166	0.02407	mg/L	0.000166	0.69%
Cd 226.502†	4.4	0.00008	mg/L	0.000131	0.00008	mg/L	0.000131	170.79%
Ti 334.940†	137.3	0.00025	mg/L	0.000048	0.00025	mg/L	0.000048	19.03%
Ca 227.546†	75.7	0.38820	mg/L	0.046271	0.38820	mg/L	0.046271	11.92%
Na 589.592†	3390.4	0.69715	mg/L	0.005515	0.69715	mg/L	0.005515	0.79%
K 766.490†	110.8	0.10540	mg/L	0.029972	0.10540	mg/L	0.029972	28.44%

Sequence No.: 47
 Sample ID: L1786-12C-RB-02
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 67
 Date Collected: 8/30/2012 10:38:10 AM
 Data Type: Reprocessed on 8/30/2012 2:00:05 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1786-12C-RB-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1802075.4	94.953	%	1.0099				1.06%
Lu 261.542	1170559.9	95.43	%	1.112				1.17%
Ag 328.068†	208.8	0.00120	mg/L	0.000879	0.00120	mg/L	0.000879	73.19%
Al 308.215†	-3.7	-0.00022	mg/L	0.004534	-0.00022	mg/L	0.004534	>999.9%
As 188.979†	-1.1	-0.00125	mg/L	0.007904	-0.00125	mg/L	0.007904	630.11%
Ba 233.527†	99.7	0.00116	mg/L	0.000075	0.00116	mg/L	0.000075	6.50%
Be 313.107†	-60.3	-0.00002	mg/L	0.000005	-0.00002	mg/L	0.000005	23.57%
Co 228.616†	-3.4	-0.00010	mg/L	0.000107	-0.00010	mg/L	0.000107	111.68%
Cr 267.716†	187.4	0.00265	mg/L	0.000212	0.00265	mg/L	0.000212	8.00%
Cu 324.752†	395.9	0.00179	mg/L	0.000457	0.00179	mg/L	0.000457	25.57%
Fe 273.955†	246.9	0.01021	mg/L	0.000609	0.01021	mg/L	0.000609	5.96%
Mg 279.077†	36.3	0.00207	mg/L	0.001953	0.00207	mg/L	0.001953	94.47%
Mn 257.610†	2248.9	0.00385	mg/L	0.000124	0.00385	mg/L	0.000124	3.21%
Ni 231.604†	10.6	0.00036	mg/L	0.000204	0.00036	mg/L	0.000204	57.29%
Pb 220.353†	-1.9	-0.00038	mg/L	0.002010	-0.00038	mg/L	0.002010	526.62%
Sb 206.836†	1.3	0.00108	mg/L	0.003734	0.00108	mg/L	0.003734	346.63%
Se 196.026†	-4.1	-0.00813	mg/L	0.004818	-0.00813	mg/L	0.004818	59.24%
Tl 190.801	-4.9	-0.00592	mg/L	0.004865	-0.00592	mg/L	0.004865	82.22%
V 292.402†	-7.4	-0.00006	mg/L	0.000460	-0.00006	mg/L	0.000460	833.72%
Zn 206.200†	32.0	0.00151	mg/L	0.000028	0.00151	mg/L	0.000028	1.84%

Cd 226.502†	3.1	0.00005 mg/L	0.000117	0.00005 mg/L	0.000117	212.39%
Ti 334.940†	216.1	0.00039 mg/L	0.000045	0.00039 mg/L	0.000045	11.55%
Ca 227.546†	28.2	0.14471 mg/L	0.092507	0.14471 mg/L	0.092507	63.93%
Na 589.592†	1160.3	0.23859 mg/L	0.005263	0.23859 mg/L	0.005263	2.21%
K 766.490†	22.4	0.02133 mg/L	0.055991	0.02133 mg/L	0.055991	262.44%

Sequence No.: 48

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 10:41:51 AM

Data Type: Reprocessed on 8/30/2012 2:00:06 PM

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 360.073	1727638.9	91.031 %	1.3292			1.46%
Lu 261.542	1128767.7	92.02 %	1.333			1.45%
Ag 328.068†	207987.6	1.2014 mg/L	0.02997	1.2014 mg/L	0.02997	2.49%
QC value within limits for Ag		328.068 Recovery = 96.12%				
Al 308.215†	202341.1	9.9472 mg/L	0.15784	9.9472 mg/L	0.15784	1.59%
QC value within limits for Al		308.215 Recovery = 99.47%				
As 188.979†	411.5	0.49920 mg/L	0.010716	0.49920 mg/L	0.010716	2.15%
QC value within limits for As		188.979 Recovery = 99.84%				
Ba 233.527†	884858.7	10.262 mg/L	0.0638	10.262 mg/L	0.0638	0.62%
QC value within limits for Ba		233.527 Recovery = 102.62%				
Be 313.107†	627259.1	0.24984 mg/L	0.001390	0.24984 mg/L	0.001390	0.56%
QC value within limits for Be		313.107 Recovery = 99.93%				
Co 228.616†	93577.8	2.6024 mg/L	0.04446	2.6024 mg/L	0.04446	1.71%
QC value within limits for Co		228.616 Recovery = 104.09%				
Cr 267.716†	69666.4	0.98514 mg/L	0.015435	0.98514 mg/L	0.015435	1.57%
QC value within limits for Cr		267.716 Recovery = 98.51%				
Cu 324.752†	268263.3	1.2117 mg/L	0.01973	1.2117 mg/L	0.01973	1.63%
QC value within limits for Cu		324.752 Recovery = 96.94%				
Fe 273.955†	123378.2	5.1035 mg/L	0.08086	5.1035 mg/L	0.08086	1.58%
QC value within limits for Fe		273.955 Recovery = 102.07%				
Mg 279.077†	445262.3	25.406 mg/L	0.1645	25.406 mg/L	0.1645	0.65%
QC value within limits for Mg		279.077 Recovery = 101.62%				
Mn 257.610†	1493362.5	2.5552 mg/L	0.01320	2.5552 mg/L	0.01320	0.52%
QC value within limits for Mn		257.610 Recovery = 102.21%				
Ni 231.604†	76195.5	2.5569 mg/L	0.04179	2.5569 mg/L	0.04179	1.63%
QC value within limits for Ni		231.604 Recovery = 102.28%				
Pb 220.353†	2571.1	0.50445 mg/L	0.006523	0.50445 mg/L	0.006523	1.29%
QC value within limits for Pb		220.353 Recovery = 100.89%				
Sb 206.836†	634.9	0.53180 mg/L	0.009252	0.53180 mg/L	0.009252	1.74%
QC value within limits for Sb		206.836 Recovery = 106.36%				
Se 196.026†	240.8	0.48470 mg/L	0.008349	0.48470 mg/L	0.008349	1.72%
QC value within limits for Se		196.026 Recovery = 96.94%				
Tl 190.801	416.2	0.47653 mg/L	0.005265	0.47653 mg/L	0.005265	1.10%
QC value within limits for Tl		190.801 Recovery = 95.31%				
V 292.402†	304531.8	2.4884 mg/L	0.03961	2.4884 mg/L	0.03961	1.59%
QC value within limits for V		292.402 Recovery = 99.54%				
Zn 206.200†	54553.2	2.5608 mg/L	0.04234	2.5608 mg/L	0.04234	1.65%
QC value within limits for Zn		206.200 Recovery = 102.43%				
Cd 226.502†	13679.8	0.24556 mg/L	0.004242	0.24556 mg/L	0.004242	1.73%
QC value within limits for Cd		226.502 Recovery = 98.22%				
Ti 334.940†	271031.8	0.48594 mg/L	0.003843	0.48594 mg/L	0.003843	0.79%
QC value within limits for Ti		334.940 Recovery = Not calculated				
Ca 227.546†	4917.9	24.355 mg/L	0.4232	24.355 mg/L	0.4232	1.74%
QC value within limits for Ca		227.546 Recovery = 97.42%				
Na 589.592†	124923.3	25.687 mg/L	0.3373	25.687 mg/L	0.3373	1.31%
QC value within limits for Na		589.592 Recovery = 102.75%				
K 766.490†	27778.3	26.414 mg/L	0.4632	26.414 mg/L	0.4632	1.75%
QC value within limits for K		766.490 Recovery = 105.66%				

All analyte(s) passed QC.

Sequence No.: 49

Sample ID: CCB

Autosampler Location: 4

Date Collected: 8/30/2012 10:45:35 AM

Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Data Type: Reprocessed on 8/30/2012 2:00:07 PM

Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1819602.2	95.877 %		0.9641			1.01%
Lu 261.542	1179992.3	96.20 %		1.014			1.05%
Ag 328.068†	371.1	0.00214 mg/L		0.000550	0.00214 mg/L	0.000550	25.72%
QC value within limits for Ag 328.068		Recovery =	Not calculated				
Al 308.215†	-102.3	-0.00506 mg/L		0.000697	-0.00506 mg/L	0.000697	13.79%
QC value within limits for Al 308.215		Recovery =	Not calculated				
As 188.979†	-1.0	-0.00115 mg/L		0.002194	-0.00115 mg/L	0.002194	190.79%
QC value within limits for As 188.979		Recovery =	Not calculated				
Ba 233.527†	55.8	0.00065 mg/L		0.000254	0.00065 mg/L	0.000254	39.28%
QC value within limits for Ba 233.527		Recovery =	Not calculated				
Be 313.107†	-5.1	0.00000 mg/L		0.000016	0.00000 mg/L	0.000016	>999.9%
QC value within limits for Be 313.107		Recovery =	Not calculated				
Co 228.616†	9.8	0.00027 mg/L		0.000160	0.00027 mg/L	0.000160	58.37%
QC value within limits for Co 228.616		Recovery =	Not calculated				
Cr 267.716†	7.6	0.00011 mg/L		0.000301	0.00011 mg/L	0.000301	279.42%
QC value within limits for Cr 267.716		Recovery =	Not calculated				
Cu 324.752†	259.6	0.00117 mg/L		0.000422	0.00117 mg/L	0.000422	36.02%
QC value within limits for Cu 324.752		Recovery =	Not calculated				
Fe 273.955†	28.5	0.00118 mg/L		0.000402	0.00118 mg/L	0.000402	34.20%
QC value within limits for Fe 273.955		Recovery =	Not calculated				
Mg 279.077†	-35.1	-0.00200 mg/L		0.002603	-0.00200 mg/L	0.002603	129.99%
QC value within limits for Mg 279.077		Recovery =	Not calculated				
Mn 257.610†	107.6	0.00018 mg/L		0.000064	0.00018 mg/L	0.000064	34.82%
QC value within limits for Mn 257.610		Recovery =	Not calculated				
Ni 231.604†	2.3	0.00008 mg/L		0.000128	0.00008 mg/L	0.000128	168.90%
QC value within limits for Ni 231.604		Recovery =	Not calculated				
Pb 220.353†	-8.0	-0.00157 mg/L		0.001181	-0.00157 mg/L	0.001181	75.05%
QC value within limits for Pb 220.353		Recovery =	Not calculated				
Sb 206.836†	1.9	0.00165 mg/L		0.001107	0.00165 mg/L	0.001107	66.88%
QC value within limits for Sb 206.836		Recovery =	Not calculated				
Se 196.026†	-2.8	-0.00560 mg/L		0.009597	-0.00560 mg/L	0.009597	171.52%
QC value within limits for Se 196.026		Recovery =	Not calculated				
Tl 190.801	-1.1	-0.00138 mg/L		0.002251	-0.00138 mg/L	0.002251	163.52%
QC value within limits for Tl 190.801		Recovery =	Not calculated				
V 292.402†	30.9	0.00025 mg/L		0.000272	0.00025 mg/L	0.000272	108.20%
QC value within limits for V 292.402		Recovery =	Not calculated				
Zn 206.200†	7.0	0.00033 mg/L		0.000229	0.00033 mg/L	0.000229	69.70%
QC value within limits for Zn 206.200		Recovery =	Not calculated				
Cd 226.502†	4.9	0.00009 mg/L		0.000078	0.00009 mg/L	0.000078	88.10%
QC value within limits for Cd 226.502		Recovery =	Not calculated				
Ti 334.940†	133.3	0.00024 mg/L		0.000093	0.00024 mg/L	0.000093	38.67%
QC value within limits for Ti 334.940		Recovery =	Not calculated				
Ca 227.546†	21.8	0.11170 mg/L		0.026129	0.11170 mg/L	0.026129	23.39%
QC value within limits for Ca 227.546		Recovery =	Not calculated				
Na 589.592†	-58.0	-0.01193 mg/L		0.011413	-0.01193 mg/L	0.011413	95.66%
QC value within limits for Na 589.592		Recovery =	Not calculated				
K 766.490†	11.4	0.01080 mg/L		0.114813	0.01080 mg/L	0.114813	>999.9%
QC value within limits for K 766.490		Recovery =	Not calculated				

All analyte(s) passed QC.

Sequence No.: 50
 Sample ID: MB-67888-PBW
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 68
 Date Collected: 8/30/2012 10:49:17 AM
 Data Type: Reprocessed on 8/30/2012 2:00:08 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: MB-67888-PBW

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 360.073	1793314.7	94.492 %	0.6454			0.68%
Lu 261.542	1163417.4	94.85 %	0.617			0.65%
Ag 328.068†	343.1	0.00197 mg/L	0.000780	0.00197 mg/L	0.000780	39.52%
Al 308.215†	36.7	0.00178 mg/L	0.000414	0.00178 mg/L	0.000414	23.28%
As 188.979†	-1.2	-0.00143 mg/L	0.001247	-0.00143 mg/L	0.001247	86.98%
Ba 233.527†	24.7	0.00029 mg/L	0.000098	0.00029 mg/L	0.000098	34.22%
Be 313.107†	-80.6	-0.00003 mg/L	0.000010	-0.00003 mg/L	0.000010	32.07%
Co 228.616†	7.8	0.00022 mg/L	0.000183	0.00022 mg/L	0.000183	84.34%
Cr 267.716†	-11.6	-0.00016 mg/L	0.000301	-0.00016 mg/L	0.000301	185.19%
Cu 324.752†	347.0	0.00157 mg/L	0.000278	0.00157 mg/L	0.000278	17.76%
Fe 273.955†	42.3	0.00175 mg/L	0.000519	0.00175 mg/L	0.000519	29.72%
Mg 279.077†	-15.3	-0.00087 mg/L	0.000704	-0.00087 mg/L	0.000704	80.59%
Mn 257.610†	194.0	0.00033 mg/L	0.000010	0.00033 mg/L	0.000010	3.09%
Ni 231.604†	-2.2	-0.00007 mg/L	0.000324	-0.00007 mg/L	0.000324	446.29%
Pb 220.353†	-2.3	-0.00045 mg/L	0.001182	-0.00045 mg/L	0.001182	260.37%
Sb 206.836†	1.6	0.00136 mg/L	0.003498	0.00136 mg/L	0.003498	257.43%
Se 196.026†	-0.2	-0.00044 mg/L	0.003286	-0.00044 mg/L	0.003286	745.38%
Tl 190.801	-5.0	-0.00597 mg/L	0.003875	-0.00597 mg/L	0.003875	64.93%
V 292.402†	-44.6	-0.00037 mg/L	0.000327	-0.00037 mg/L	0.000327	89.52%
Zn 206.200†	18.4	0.00086 mg/L	0.000085	0.00086 mg/L	0.000085	9.90%
Cd 226.502†	6.5	0.00012 mg/L	0.000103	0.00012 mg/L	0.000103	88.08%
Ti 334.940†	75.6	0.00014 mg/L	0.000080	0.00014 mg/L	0.000080	57.90%
Ca 227.546†	27.6	0.14137 mg/L	0.019933	0.14137 mg/L	0.019933	14.10%
Na 589.592†	-61.2	-0.01259 mg/L	0.008239	-0.01259 mg/L	0.008239	65.44%
K 766.490†	-38.8	-0.03688 mg/L	0.078779	-0.03688 mg/L	0.078779	213.58%

Sequence No.: 51

Sample ID: LCS-67888-LCS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 69

Date Collected: 8/30/2012 10:52:58 AM

Data Type: Reprocessed on 8/30/2012 2:00:08 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS-67888-LCS

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1716443.1	90.441 %	0.4468			0.49%
Lu 261.542	1118236.4	91.16 %	0.517			0.57%
Ag 328.068†	199273.3	1.1510 mg/L	0.00425	1.1510 mg/L	0.00425	0.37%
Al 308.215†	188393.8	9.2622 mg/L	0.04876	9.2622 mg/L	0.04876	0.53%
As 188.979†	392.4	0.47588 mg/L	0.001735	0.47588 mg/L	0.001735	0.36%
Ba 233.527†	823929.2	9.5553 mg/L	0.02660	9.5553 mg/L	0.02660	0.28%
Be 313.107†	602493.0	0.23911 mg/L	0.000699	0.23911 mg/L	0.000699	0.29%
Co 228.616†	84713.5	2.3568 mg/L	0.01114	2.3568 mg/L	0.01114	0.47%
Cr 267.716†	65665.6	0.92855 mg/L	0.004000	0.92855 mg/L	0.004000	0.43%
Cu 324.752†	250872.9	1.1331 mg/L	0.00605	1.1331 mg/L	0.00605	0.53%
Fe 273.955†	114235.5	4.7253 mg/L	0.02143	4.7253 mg/L	0.02143	0.45%
Mg 279.077†	416352.7	23.756 mg/L	0.0486	23.756 mg/L	0.0486	0.20%
Mn 257.610†	1393197.4	2.3838 mg/L	0.00688	2.3838 mg/L	0.00688	0.29%
Ni 231.604†	70195.3	2.3559 mg/L	0.00872	2.3559 mg/L	0.00872	0.37%
Pb 220.353†	2437.3	0.47770 mg/L	0.004296	0.47770 mg/L	0.004296	0.90%
Sb 206.836†	580.8	0.48491 mg/L	0.009415	0.48491 mg/L	0.009415	1.94%
Se 196.026†	229.9	0.46234 mg/L	0.003949	0.46234 mg/L	0.003949	0.85%
Tl 190.801	378.4	0.43314 mg/L	0.005583	0.43314 mg/L	0.005583	1.29%
V 292.402†	281525.3	2.3011 mg/L	0.00882	2.3011 mg/L	0.00882	0.38%
Zn 206.200†	49878.8	2.3410 mg/L	0.01384	2.3410 mg/L	0.01384	0.59%
Cd 226.502†	13104.0	0.23521 mg/L	0.001173	0.23521 mg/L	0.001173	0.50%
Ti 334.940†	305.9	0.00031 mg/L	0.000121	0.00031 mg/L	0.000121	39.27%
Ca 227.546†	4602.7	22.820 mg/L	0.2230	22.820 mg/L	0.2230	0.98%
Na 589.592†	115413.7	23.732 mg/L	0.1891	23.732 mg/L	0.1891	0.80%
K 766.490†	25637.8	24.378 mg/L	0.2569	24.378 mg/L	0.2569	1.05%

Sequence No.: 52

Sample ID: L1798-01B-EFF-082212

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 8/30/2012 10:56:41 AM

Data Type: Reprocessed on 8/30/2012 2:00:09 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1798-01B-EFF-082212

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1727338.1	91.015	%	1.3177				1.45%
Lu 261.542	1124885.3	91.71	%	1.324				1.44%
Ag 328.068†	134.9	0.00067	mg/L	0.000217	0.00067	mg/L	0.000217	32.54%
Al 308.215†	108.1	-0.01069	mg/L	0.002800	-0.01069	mg/L	0.002800	26.19%
As 188.979†	0.9	0.00379	mg/L	0.004698	0.00379	mg/L	0.004698	124.00%
Ba 233.527†	7636.0	0.08853	mg/L	0.000912	0.08853	mg/L	0.000912	1.03%
Be 313.107†	-115.0	-0.00005	mg/L	0.000024	-0.00005	mg/L	0.000024	48.28%
Co 228.616†	5.8	0.00016	mg/L	0.000362	0.00016	mg/L	0.000362	220.09%
Cr 267.716†	16.4	0.00100	mg/L	0.000142	0.00100	mg/L	0.000142	14.26%
Cu 324.752†	629.8	0.00284	mg/L	0.000163	0.00284	mg/L	0.000163	5.72%
Fe 273.955†	520.5	0.02152	mg/L	0.000216	0.02152	mg/L	0.000216	1.00%
Mg 279.077†	166710.6	9.5130	mg/L	0.03488	9.5130	mg/L	0.03488	0.37%
Mn 257.610†	42145.0	0.07203	mg/L	0.000388	0.07203	mg/L	0.000388	0.54%
Ni 231.604†	44.7	0.00146	mg/L	0.000477	0.00146	mg/L	0.000477	32.62%
Pb 220.353†	-11.1	-0.00216	mg/L	0.001945	-0.00216	mg/L	0.001945	89.95%
Sb 206.836†	1.3	0.00111	mg/L	0.001341	0.00111	mg/L	0.001341	120.49%
Se 196.026†	2.5	0.00499	mg/L	0.005028	0.00499	mg/L	0.005028	100.69%
Tl 190.801	-4.3	-0.00426	mg/L	0.002639	-0.00426	mg/L	0.002639	61.89%
V 292.402†	11.7	0.00010	mg/L	0.000281	0.00010	mg/L	0.000281	286.28%
Zn 206.200†	42.8	0.00203	mg/L	0.000048	0.00203	mg/L	0.000048	2.37%
Cd 226.502†	-8.1	-0.00035	mg/L	0.000064	-0.00035	mg/L	0.000064	18.34%
Ti 334.940†	-1004.5	-0.00066	mg/L	0.000074	-0.00066	mg/L	0.000074	11.12%
Ca 227.546†	15238.8	78.149	mg/L	0.4532	78.149	mg/L	0.4532	0.58%
Na 589.592†	63646.5	13.087	mg/L	0.0929	13.087	mg/L	0.0929	0.71%
K 766.490†	1017.1	0.96710	mg/L	0.061960	0.96710	mg/L	0.061960	6.41%

Sequence No.: 53

Sample ID: L1798-02B-INF-082212

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 71

Date Collected: 8/30/2012 11:00:22 AM

Data Type: Reprocessed on 8/30/2012 2:00:10 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1798-02B-INF-082212

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1708175.0	90.006	%	0.8947				0.99%
Lu 261.542	1113639.6	90.79	%	0.878				0.97%
Ag 328.068†	170.1	0.00086	mg/L	0.000255	0.00086	mg/L	0.000255	29.48%
Al 308.215†	114.0	-0.00943	mg/L	0.002636	-0.00943	mg/L	0.002636	27.97%
As 188.979†	-0.1	0.00245	mg/L	0.005528	0.00245	mg/L	0.005528	225.75%
Ba 233.527†	8812.8	0.10217	mg/L	0.000858	0.10217	mg/L	0.000858	0.84%
Be 313.107†	-130.7	-0.00005	mg/L	0.000026	-0.00005	mg/L	0.000026	48.39%
Co 228.616†	10.4	0.00029	mg/L	0.000082	0.00029	mg/L	0.000082	28.10%
Cr 267.716†	67.5	0.00165	mg/L	0.000256	0.00165	mg/L	0.000256	15.50%
Cu 324.752†	775.0	0.00350	mg/L	0.000337	0.00350	mg/L	0.000337	9.63%
Fe 273.955†	1278.3	0.05283	mg/L	0.000920	0.05283	mg/L	0.000920	1.74%
Mg 279.077†	148411.7	8.4688	mg/L	0.11996	8.4688	mg/L	0.11996	1.42%
Mn 257.610†	86365.4	0.14771	mg/L	0.002353	0.14771	mg/L	0.002353	1.59%
Ni 231.604†	71.2	0.00235	mg/L	0.000048	0.00235	mg/L	0.000048	2.02%
Pb 220.353†	-7.0	-0.00136	mg/L	0.000337	-0.00136	mg/L	0.000337	24.79%
Sb 206.836†	-0.4	-0.00033	mg/L	0.002868	-0.00033	mg/L	0.002868	863.15%
Se 196.026†	-4.5	-0.00900	mg/L	0.003222	-0.00900	mg/L	0.003222	35.79%
Tl 190.801	-6.1	-0.00646	mg/L	0.002740	-0.00646	mg/L	0.002740	42.44%
V 292.402†	32.5	0.00027	mg/L	0.000258	0.00027	mg/L	0.000258	95.30%
Zn 206.200†	71.4	0.00340	mg/L	0.000096	0.00340	mg/L	0.000096	2.83%
Cd 226.502†	-4.4	-0.00027	mg/L	0.000121	-0.00027	mg/L	0.000121	44.47%
Ti 334.940†	-750.2	-0.00028	mg/L	0.000510	-0.00028	mg/L	0.000510	184.83%
Ca 227.546†	14220.2	72.925	mg/L	1.0054	72.925	mg/L	1.0054	1.38%
Na 589.592†	75650.7	15.556	mg/L	0.1809	15.556	mg/L	0.1809	1.16%
K 766.490†	831.4	0.79059	mg/L	0.056768	0.79059	mg/L	0.056768	7.18%

Sequence No.: 54

Autosampler Location: 72

Sample ID: L1807-01A~LMW-5

Date Collected: 8/30/2012 11:04:03 AM

Analyst:

Data Type: Reprocessed on 8/30/2012 2:00:10 PM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-01A~LMW-5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1789326.2	94.282	%	0.9024				0.96%
Lu 261.542	1162256.1	94.75	%	0.860				0.91%
Ag 328.068†	221.3	0.00123	mg/L	0.000719	0.00123	mg/L	0.000719	58.60%
Al 308.215†	5050.9	0.24475	mg/L	0.004451	0.24475	mg/L	0.004451	1.82%
As 188.979†	2.0	0.00296	mg/L	0.005781	0.00296	mg/L	0.005781	195.10%
Ba 233.527†	4911.6	0.05694	mg/L	0.000786	0.05694	mg/L	0.000786	1.38%
Be 313.107†	217.9	0.00011	mg/L	0.000020	0.00011	mg/L	0.000020	18.58%
Co 228.616†	2.0	0.00003	mg/L	0.000115	0.00003	mg/L	0.000115	400.61%
Cr 267.716†	111.4	0.00174	mg/L	0.000040	0.00174	mg/L	0.000040	2.28%
Cu 324.752†	373.9	0.00169	mg/L	0.000207	0.00169	mg/L	0.000207	12.26%
Fe 273.955†	1268.3	0.05242	mg/L	0.001659	0.05242	mg/L	0.001659	3.16%
Mg 279.077†	56277.7	3.2114	mg/L	0.03589	3.2114	mg/L	0.03589	1.12%
Mn 257.610†	39893.3	0.06824	mg/L	0.000773	0.06824	mg/L	0.000773	1.13%
Ni 231.604†	70.5	0.00235	mg/L	0.000111	0.00235	mg/L	0.000111	4.72%
Pb 220.353†	0.7	0.00017	mg/L	0.001896	0.00017	mg/L	0.001896	>999.9%
Sb 206.836†	0.0	0.00000	mg/L	0.002590	0.00000	mg/L	0.002590	>999.9%
Se 196.026†	3.3	0.00668	mg/L	0.009943	0.00668	mg/L	0.009943	148.74%
Tl 190.801	-2.3	-0.00242	mg/L	0.001741	-0.00242	mg/L	0.001741	71.84%
V 292.402†	-3.3	-0.00004	mg/L	0.000102	-0.00004	mg/L	0.000102	271.86%
Zn 206.200†	223.7	0.01052	mg/L	0.000018	0.01052	mg/L	0.000018	0.17%
Cd 226.502†	11.2	0.00015	mg/L	0.000194	0.00015	mg/L	0.000194	128.81%
Ti 334.940†	6019.3	0.01104	mg/L	0.016019	0.01104	mg/L	0.016019	145.13%
Ca 227.546†	3471.5	17.801	mg/L	0.1966	17.801	mg/L	0.1966	1.10%
Na 589.592†	87869.6	18.068	mg/L	0.3218	18.068	mg/L	0.3218	1.78%
K 766.490†	5692.8	5.4131	mg/L	0.15427	5.4131	mg/L	0.15427	2.85%

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Sequence No.: 55

Autosampler Location: 73

Sample ID: L1807-01ADUP~LMW-5D

Date Collected: 8/30/2012 11:07:45 AM

Analyst:

Data Type: Reprocessed on 8/30/2012 2:00:11 PM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-01ADUP~LMW-5D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1763610.1	92.927	%	0.8476				0.91%
Lu 261.542	1148688.3	93.65	%	0.849				0.91%
Ag 328.068†	157.9	0.00086	mg/L	0.001092	0.00086	mg/L	0.001092	126.75%
Al 308.215†	5010.6	0.24274	mg/L	0.007051	0.24274	mg/L	0.007051	2.90%
As 188.979†	-0.6	-0.00003	mg/L	0.002518	-0.00003	mg/L	0.002518	>999.9%
Ba 233.527†	4995.3	0.05791	mg/L	0.000675	0.05791	mg/L	0.000675	1.16%
Be 313.107†	253.8	0.00010	mg/L	0.000016	0.00010	mg/L	0.000016	15.37%
Co 228.616†	7.8	0.00021	mg/L	0.000287	0.00021	mg/L	0.000287	135.12%
Cr 267.716†	118.2	0.00184	mg/L	0.000327	0.00184	mg/L	0.000327	17.78%
Cu 324.752†	463.0	0.00209	mg/L	0.000194	0.00209	mg/L	0.000194	9.29%
Fe 273.955†	1245.4	0.05147	mg/L	0.000862	0.05147	mg/L	0.000862	1.68%
Mg 279.077†	57168.1	3.2622	mg/L	0.04891	3.2622	mg/L	0.04891	1.50%
Mn 257.610†	40455.8	0.06920	mg/L	0.000996	0.06920	mg/L	0.000996	1.44%
Ni 231.604†	62.1	0.00207	mg/L	0.000247	0.00207	mg/L	0.000247	11.95%
Pb 220.353†	-8.1	-0.00155	mg/L	0.000460	-0.00155	mg/L	0.000460	29.58%
Sb 206.836†	-1.0	-0.00093	mg/L	0.004046	-0.00093	mg/L	0.004046	436.37%
Se 196.026†	3.5	0.00697	mg/L	0.008423	0.00697	mg/L	0.008423	120.78%
Tl 190.801	-4.8	-0.00549	mg/L	0.005009	-0.00549	mg/L	0.005009	91.33%
V 292.402†	-0.5	0.00000	mg/L	0.000243	0.00000	mg/L	0.000243	>999.9%
Zn 206.200†	220.7	0.01037	mg/L	0.000497	0.01037	mg/L	0.000497	4.79%
Cd 226.502†	16.6	0.00025	mg/L	0.000100	0.00025	mg/L	0.000100	40.30%
Ti 334.940†	579.7	0.00128	mg/L	0.000081	0.00128	mg/L	0.000081	6.35%
Ca 227.546†	3507.6	17.987	mg/L	0.1976	17.987	mg/L	0.1976	1.10%

Na 589.592†	87290.0	17.949 mg/L	0.2323	17.949 mg/L	0.2323	1.29%
K 766.490†	5686.0	5.4067 mg/L	0.07624	5.4067 mg/L	0.07624	1.41%

Sequence No.: 56

Sample ID: L1807-01AMS~LMW-5S

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 74

Date Collected: 8/30/2012 11:11:27 AM

Data Type: Reprocessed on 8/30/2012 2:00:12 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-01AMS~LMW-5S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1715238.4	90.378	%	0.3556				0.39%
Lu 261.542	1116745.0	91.04	%	0.309				0.34%
Ag 328.068†	201876.5	1.1660	mg/L	0.01065	1.1660	mg/L	0.01065	0.91%
Al 308.215†	197959.8	9.7289	mg/L	0.06715	9.7289	mg/L	0.06715	0.69%
As 188.979†	402.7	0.48899	mg/L	0.001891	0.48899	mg/L	0.001891	0.39%
Ba 233.527†	834981.2	9.6835	mg/L	0.03285	9.6835	mg/L	0.03285	0.34%
Be 313.107†	608543.6	0.24151	mg/L	0.000644	0.24151	mg/L	0.000644	0.27%
Co 228.616†	85825.5	2.3878	mg/L	0.01647	2.3878	mg/L	0.01647	0.69%
Cr 267.716†	66652.7	0.94269	mg/L	0.008618	0.94269	mg/L	0.008618	0.91%
Cu 324.752†	254889.8	1.1513	mg/L	0.00892	1.1513	mg/L	0.00892	0.77%
Fe 273.955†	117931.6	4.8782	mg/L	0.03248	4.8782	mg/L	0.03248	0.67%
Mg 279.077†	476041.0	27.162	mg/L	0.0775	27.162	mg/L	0.0775	0.29%
Mn 257.610†	1446834.0	2.4755	mg/L	0.00574	2.4755	mg/L	0.00574	0.23%
Ni 231.604†	70869.6	2.3785	mg/L	0.02120	2.3785	mg/L	0.02120	0.89%
Pb 220.353†	2436.5	0.47761	mg/L	0.003988	0.47761	mg/L	0.003988	0.84%
Sb 206.836†	589.0	0.49175	mg/L	0.004072	0.49175	mg/L	0.004072	0.83%
Se 196.026†	230.8	0.46424	mg/L	0.006301	0.46424	mg/L	0.006301	1.36%
Tl 190.801	379.8	0.43478	mg/L	0.005697	0.43478	mg/L	0.005697	1.31%
V 292.402†	286315.3	2.3402	mg/L	0.02122	2.3402	mg/L	0.02122	0.91%
Zn 206.200†	50923.8	2.3901	mg/L	0.02096	2.3901	mg/L	0.02096	0.88%
Cd 226.502†	13221.8	0.23727	mg/L	0.001342	0.23727	mg/L	0.001342	0.57%
Ti 334.940†	975.5	0.00176	mg/L	0.000105	0.00176	mg/L	0.000105	5.93%
Ca 227.546†	8330.8	41.927	mg/L	0.2193	41.927	mg/L	0.2193	0.52%
Na 589.592†	207669.2	42.702	mg/L	0.0499	42.702	mg/L	0.0499	0.12%
K 766.490†	31843.6	30.279	mg/L	0.1593	30.279	mg/L	0.1593	0.53%

Sequence No.: 57

Sample ID: L1807-01ASD~LMW-5L

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 8/30/2012 11:15:11 AM

Data Type: Reprocessed on 8/30/2012 2:00:13 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-01ASD~LMW-5L

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1758693.6	92.668	%	0.2477				0.27%
Lu 261.542	1142661.7	93.16	%	0.283				0.30%
Ag 328.068†	66.2	0.00037	mg/L	0.000368	0.00037	mg/L	0.000368	98.97%
Al 308.215†	1043.6	0.05056	mg/L	0.006927	0.05056	mg/L	0.006927	13.70%
As 188.979†	1.9	0.00243	mg/L	0.005201	0.00243	mg/L	0.005201	213.60%
Ba 233.527†	1068.5	0.01239	mg/L	0.000157	0.01239	mg/L	0.000157	1.27%
Be 313.107†	65.3	0.00003	mg/L	0.000037	0.00003	mg/L	0.000037	139.12%
Co 228.616†	6.7	0.00018	mg/L	0.000166	0.00018	mg/L	0.000166	90.28%
Cr 267.716†	27.8	0.00043	mg/L	0.000555	0.00043	mg/L	0.000555	129.36%
Cu 324.752†	388.5	0.00175	mg/L	0.000480	0.00175	mg/L	0.000480	27.36%
Fe 273.955†	259.9	0.01074	mg/L	0.000596	0.01074	mg/L	0.000596	5.55%
Mg 279.077†	11948.4	0.68181	mg/L	0.003738	0.68181	mg/L	0.003738	0.55%
Mn 257.610†	8524.0	0.01458	mg/L	0.000122	0.01458	mg/L	0.000122	0.84%
Ni 231.604†	18.4	0.00061	mg/L	0.000465	0.00061	mg/L	0.000465	75.59%
Pb 220.353†	-5.1	-0.00099	mg/L	0.000839	-0.00099	mg/L	0.000839	84.68%
Sb 206.836†	-1.9	-0.00167	mg/L	0.002556	-0.00167	mg/L	0.002556	152.94%
Se 196.026†	3.0	0.00599	mg/L	0.001498	0.00599	mg/L	0.001498	25.00%
Tl 190.801	-1.7	-0.00196	mg/L	0.000920	-0.00196	mg/L	0.000920	46.92%

V 292.402†	80.8	0.00066 mg/L	0.000083	0.00066 mg/L	0.000083	12.58%
Zn 206.200†	43.9	0.00206 mg/L	0.000085	0.00206 mg/L	0.000085	4.14%
Cd 226.502†	3.6	0.00005 mg/L	0.000125	0.00005 mg/L	0.000125	228.93%
Ti 334.940†	196.8	0.00040 mg/L	0.000069	0.00040 mg/L	0.000069	16.97%
Ca 227.546†	732.1	3.7541 mg/L	0.05855	3.7541 mg/L	0.05855	1.56%
Na 589.592†	18365.5	3.7764 mg/L	0.04756	3.7764 mg/L	0.04756	1.26%
K 766.490†	1265.6	1.2034 mg/L	0.01948	1.2034 mg/L	0.01948	1.62%

Sequence No.: 58

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 11:18:52 AM

Data Type: Reprocessed on 8/30/2012 2:00:13 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1738198.8	91.588 %	0.4648			0.51%
Lu 261.542	1136433.5	92.65 %	0.443			0.48%
Ag 328.068†	210446.4	1.2156 mg/L	0.02300	1.2156 mg/L	0.02300	1.89%
QC value within limits for Ag	328.068	Recovery = 97.25%				
Al 308.215†	203222.2	9.9904 mg/L	0.09782	9.9904 mg/L	0.09782	0.98%
QC value within limits for Al	308.215	Recovery = 99.90%				
As 188.979†	416.4	0.50520 mg/L	0.005011	0.50520 mg/L	0.005011	0.99%
QC value within limits for As	188.979	Recovery = 101.04%				
Ba 233.527†	893348.5	10.360 mg/L	0.0352	10.360 mg/L	0.0352	0.34%
QC value within limits for Ba	233.527	Recovery = 103.60%				
Be 313.107†	634745.6	0.25281 mg/L	0.000907	0.25281 mg/L	0.000907	0.36%
QC value within limits for Be	313.107	Recovery = 101.12%				
Co 228.616†	94295.3	2.6223 mg/L	0.03105	2.6223 mg/L	0.03105	1.18%
QC value within limits for Co	228.616	Recovery = 104.89%				
Cr 267.716†	70070.9	0.99086 mg/L	0.010565	0.99086 mg/L	0.010565	1.07%
QC value within limits for Cr	267.716	Recovery = 99.09%				
Cu 324.752†	269611.3	1.2178 mg/L	0.01025	1.2178 mg/L	0.01025	0.84%
QC value within limits for Cu	324.752	Recovery = 97.42%				
Fe 273.955†	124229.8	5.1388 mg/L	0.05764	5.1388 mg/L	0.05764	1.12%
QC value within limits for Fe	273.955	Recovery = 102.78%				
Mg 279.077†	451421.9	25.757 mg/L	0.1033	25.757 mg/L	0.1033	0.40%
QC value within limits for Mg	279.077	Recovery = 103.03%				
Mn 257.610†	1512519.8	2.5879 mg/L	0.01148	2.5879 mg/L	0.01148	0.44%
QC value within limits for Mn	257.610	Recovery = 103.52%				
Ni 231.604†	76704.0	2.5740 mg/L	0.02670	2.5740 mg/L	0.02670	1.04%
QC value within limits for Ni	231.604	Recovery = 102.96%				
Pb 220.353†	2589.2	0.50800 mg/L	0.002287	0.50800 mg/L	0.002287	0.45%
QC value within limits for Pb	220.353	Recovery = 101.60%				
Sb 206.836†	649.6	0.54431 mg/L	0.004516	0.54431 mg/L	0.004516	0.83%
QC value within limits for Sb	206.836	Recovery = 108.86%				
Se 196.026†	242.1	0.48733 mg/L	0.008253	0.48733 mg/L	0.008253	1.69%
QC value within limits for Se	196.026	Recovery = 97.47%				
Tl 190.801	420.9	0.48209 mg/L	0.005694	0.48209 mg/L	0.005694	1.18%
QC value within limits for Tl	190.801	Recovery = 96.42%				
V 292.402†	306430.9	2.5039 mg/L	0.02742	2.5039 mg/L	0.02742	1.10%
QC value within limits for V	292.402	Recovery = 100.16%				
Zn 206.200†	55014.3	2.5824 mg/L	0.02820	2.5824 mg/L	0.02820	1.09%
QC value within limits for Zn	206.200	Recovery = 103.30%				
Cd 226.502†	13837.1	0.24838 mg/L	0.003267	0.24838 mg/L	0.003267	1.32%
QC value within limits for Cd	226.502	Recovery = 99.35%				
Ti 334.940†	272488.9	0.48855 mg/L	0.000982	0.48855 mg/L	0.000982	0.20%
QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca 227.546†	4971.6	24.624 mg/L	0.1534	24.624 mg/L	0.1534	0.62%
QC value within limits for Ca	227.546	Recovery = 98.50%				
Na 589.592†	124568.9	25.615 mg/L	0.1797	25.615 mg/L	0.1797	0.70%
QC value within limits for Na	589.592	Recovery = 102.46%				
K 766.490†	27796.4	26.431 mg/L	0.2006	26.431 mg/L	0.2006	0.76%
QC value within limits for K	766.490	Recovery = 105.72%				

All analyte(s) passed QC.

Sequence No.: 59

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 11:22:34 AM

Data Type: Reprocessed on 8/30/2012 2:00:14 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1794177.3	94.537 %		0.3817			0.40%
Lu 261.542	1163405.8	94.85 %		0.419			0.44%
Ag 328.068†	272.4	0.00157 mg/L		0.000175	0.00157 mg/L	0.000175	11.17%
QC value within limits for Ag	328.068	Recovery =	Not calculated				
Al 308.215†	-46.5	-0.00230 mg/L		0.004928	-0.00230 mg/L	0.004928	214.08%
QC value within limits for Al	308.215	Recovery =	Not calculated				
As 188.979†	2.1	0.00257 mg/L		0.001193	0.00257 mg/L	0.001193	46.49%
QC value within limits for As	188.979	Recovery =	Not calculated				
Ba 233.527†	58.7	0.00068 mg/L		0.000168	0.00068 mg/L	0.000168	24.59%
QC value within limits for Ba	233.527	Recovery =	Not calculated				
Be 313.107†	11.9	0.00001 mg/L		0.000016	0.00001 mg/L	0.000016	319.50%
QC value within limits for Be	313.107	Recovery =	Not calculated				
Co 228.616†	11.4	0.00032 mg/L		0.000235	0.00032 mg/L	0.000235	74.08%
QC value within limits for Co	228.616	Recovery =	Not calculated				
Cr 267.716†	28.9	0.00041 mg/L		0.000221	0.00041 mg/L	0.000221	54.01%
QC value within limits for Cr	267.716	Recovery =	Not calculated				
Cu 324.752†	307.1	0.00139 mg/L		0.000325	0.00139 mg/L	0.000325	23.47%
QC value within limits for Cu	324.752	Recovery =	Not calculated				
Fe 273.955†	22.8	0.00094 mg/L		0.000087	0.00094 mg/L	0.000087	9.18%
QC value within limits for Fe	273.955	Recovery =	Not calculated				
Mg 279.077†	-38.7	-0.00221 mg/L		0.001176	-0.00221 mg/L	0.001176	53.23%
QC value within limits for Mg	279.077	Recovery =	Not calculated				
Mn 257.610†	115.1	0.00020 mg/L		0.000031	0.00020 mg/L	0.000031	15.78%
QC value within limits for Mn	257.610	Recovery =	Not calculated				
Ni 231.604†	0.2	0.00001 mg/L		0.000107	0.00001 mg/L	0.000107	>999.9%
QC value within limits for Ni	231.604	Recovery =	Not calculated				
Pb 220.353†	-1.2	-0.00024 mg/L		0.001059	-0.00024 mg/L	0.001059	447.13%
QC value within limits for Pb	220.353	Recovery =	Not calculated				
Sb 206.836†	-3.9	-0.00335 mg/L		0.004258	-0.00335 mg/L	0.004258	127.29%
QC value within limits for Sb	206.836	Recovery =	Not calculated				
Se 196.026†	4.6	0.00916 mg/L		0.007218	0.00916 mg/L	0.007218	78.77%
QC value within limits for Se	196.026	Recovery =	Not calculated				
Tl 190.801	-4.8	-0.00579 mg/L		0.004864	-0.00579 mg/L	0.004864	83.98%
QC value within limits for Tl	190.801	Recovery =	Not calculated				
V 292.402†	81.3	0.00066 mg/L		0.000381	0.00066 mg/L	0.000381	57.35%
QC value within limits for V	292.402	Recovery =	Not calculated				
Zn 206.200†	10.0	0.00047 mg/L		0.000220	0.00047 mg/L	0.000220	47.26%
QC value within limits for Zn	206.200	Recovery =	Not calculated				
Cd 226.502†	6.3	0.00011 mg/L		0.000120	0.00011 mg/L	0.000120	106.60%
QC value within limits for Cd	226.502	Recovery =	Not calculated				
Ti 334.940†	121.9	0.00022 mg/L		0.000050	0.00022 mg/L	0.000050	22.48%
QC value within limits for Ti	334.940	Recovery =	Not calculated				
Ca 227.546†	11.6	0.05950 mg/L		0.016339	0.05950 mg/L	0.016339	27.46%
QC value within limits for Ca	227.546	Recovery =	Not calculated				
Na 589.592†	-63.9	-0.01313 mg/L		0.032100	-0.01313 mg/L	0.032100	244.41%
QC value within limits for Na	589.592	Recovery =	Not calculated				
K 766.490†	-13.0	-0.01234 mg/L		0.014372	-0.01234 mg/L	0.014372	116.44%
QC value within limits for K	766.490	Recovery =	Not calculated				

All analyte(s) passed QC.

Sequence No.: 60

Sample ID: L1807-01APDS~LMW-5A

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 76

Date Collected: 8/30/2012 11:26:16 AM

Data Type: Reprocessed on 8/30/2012 2:00:15 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-01APDS~LMW-5A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1754447.7	92.444	%	0.3584				0.39%
Lu 261.542	1142120.9	93.11	%	0.337				0.36%
Ag 328.068†	193864.7	1.1197	mg/L	0.00793	1.1197	mg/L	0.00793	0.71%
Al 308.215†	189738.9	9.3248	mg/L	0.07986	9.3248	mg/L	0.07986	0.86%
As 188.979†	379.8	0.46133	mg/L	0.001208	0.46133	mg/L	0.001208	0.26%
Ba 233.527†	809872.8	9.3923	mg/L	0.01148	9.3923	mg/L	0.01148	0.12%
Be 313.107†	589700.7	0.23403	mg/L	0.000366	0.23403	mg/L	0.000366	0.16%
Co 228.616†	83043.1	2.3104	mg/L	0.01600	2.3104	mg/L	0.01600	0.69%
Cr 267.716†	64163.0	0.90748	mg/L	0.008116	0.90748	mg/L	0.008116	0.89%
Cu 324.752†	245531.2	1.1090	mg/L	0.00885	1.1090	mg/L	0.00885	0.80%
Fe 273.955†	113631.7	4.7003	mg/L	0.03482	4.7003	mg/L	0.03482	0.74%
Mg 279.077†	462052.2	26.364	mg/L	0.0401	26.364	mg/L	0.0401	0.15%
Mn 257.610†	1404222.2	2.4026	mg/L	0.00160	2.4026	mg/L	0.00160	0.07%
Ni 231.604†	68543.4	2.3004	mg/L	0.02072	2.3004	mg/L	0.02072	0.90%
Pb 220.353†	2335.4	0.45779	mg/L	0.002019	0.45779	mg/L	0.002019	0.44%
Sb 206.836†	531.0	0.44242	mg/L	0.002983	0.44242	mg/L	0.002983	0.67%
Se 196.026†	221.8	0.44620	mg/L	0.004947	0.44620	mg/L	0.004947	1.11%
Tl 190.801	380.1	0.43588	mg/L	0.000357	0.43588	mg/L	0.000357	0.08%
V 292.402†	276351.8	2.2588	mg/L	0.01795	2.2588	mg/L	0.01795	0.79%
Zn 206.200†	49094.4	2.3042	mg/L	0.01932	2.3042	mg/L	0.01932	0.84%
Cd 226.502†	12402.5	0.22257	mg/L	0.002669	0.22257	mg/L	0.002669	1.20%
Ti 334.940†	841.8	0.00152	mg/L	0.000083	0.00152	mg/L	0.000083	5.47%
Ca 227.546†	8005.2	40.283	mg/L	0.2097	40.283	mg/L	0.2097	0.52%
Na 589.592†	201982.0	41.533	mg/L	0.1365	41.533	mg/L	0.1365	0.33%
K 766.490†	31046.6	29.522	mg/L	0.1674	29.522	mg/L	0.1674	0.57%

Sequence No.: 61

Sample ID: L1807-02A-LMW-55

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 77

Date Collected: 8/30/2012 11:30:00 AM

Data Type: Reprocessed on 8/30/2012 2:00:15 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-02A-LMW-55

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1801757.2	94.937	%	1.6280				1.71%
Lu 261.542	1173031.9	95.63	%	1.657				1.73%
Ag 328.068†	304.3	0.00170	mg/L	0.000701	0.00170	mg/L	0.000701	41.11%
Al 308.215†	5129.4	0.24858	mg/L	0.008423	0.24858	mg/L	0.008423	3.39%
As 188.979†	2.3	0.00342	mg/L	0.003575	0.00342	mg/L	0.003575	104.67%
Ba 233.527†	5083.8	0.05894	mg/L	0.001606	0.05894	mg/L	0.001606	2.72%
Be 313.107†	360.5	0.00015	mg/L	0.000013	0.00015	mg/L	0.000013	9.25%
Co 228.616†	1.1	0.00003	mg/L	0.000233	0.00003	mg/L	0.000233	924.40%
Cr 267.716†	154.4	0.00235	mg/L	0.000618	0.00235	mg/L	0.000618	26.29%
Cu 324.752†	405.8	0.00184	mg/L	0.000298	0.00184	mg/L	0.000298	16.23%
Fe 273.955†	1388.4	0.05738	mg/L	0.002284	0.05738	mg/L	0.002284	3.98%
Mg 279.077†	57892.5	3.3035	mg/L	0.09493	3.3035	mg/L	0.09493	2.87%
Mn 257.610†	41623.6	0.07120	mg/L	0.001806	0.07120	mg/L	0.001806	2.54%
Ni 231.604†	81.4	0.00272	mg/L	0.000525	0.00272	mg/L	0.000525	19.32%
Pb 220.353†	-0.2	0.00000	mg/L	0.000863	0.00000	mg/L	0.000863	>999.9%
Sb 206.836†	8.5	0.00727	mg/L	0.001741	0.00727	mg/L	0.001741	23.95%
Se 196.026†	0.8	0.00157	mg/L	0.005483	0.00157	mg/L	0.005483	350.27%
Tl 190.801	-4.6	-0.00524	mg/L	0.004348	-0.00524	mg/L	0.004348	82.97%
V 292.402†	13.4	0.00011	mg/L	0.000197	0.00011	mg/L	0.000197	173.09%
Zn 206.200†	253.4	0.01190	mg/L	0.000254	0.01190	mg/L	0.000254	2.13%
Cd 226.502†	18.2	0.00028	mg/L	0.000008	0.00028	mg/L	0.000008	2.77%
Ti 334.940†	659.2	0.00143	mg/L	0.000064	0.00143	mg/L	0.000064	4.46%
Ca 227.546†	3515.4	18.027	mg/L	0.3666	18.027	mg/L	0.3666	2.03%
Na 589.592†	89885.1	18.483	mg/L	0.3097	18.483	mg/L	0.3097	1.68%
K 766.490†	5877.5	5.5888	mg/L	0.12345	5.5888	mg/L	0.12345	2.21%

Sequence No.: 62

Sample ID: L1807-03A-LMW-6

Analyst:

Logged In Analyst (Original) : mitOptima3

Autosampler Location: 78

Date Collected: 8/30/2012 11:33:41 AM

Data Type: Reprocessed on 8/30/2012 2:00:16 PM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1807-03A~LMW-6

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1777829.2	93.676	%	2.2638				2.42%
Lu 261.542	1159105.9	94.50	%	2.273				2.41%
Ag 328.068†	196.2	0.00110	mg/L	0.000330	0.00110	mg/L	0.000330	30.18%
Al 308.215†	9955.4	0.48817	mg/L	0.014383	0.48817	mg/L	0.014383	2.95%
As 188.979†	3.2	0.00410	mg/L	0.004827	0.00410	mg/L	0.004827	117.78%
Ba 233.527†	1245.3	0.01444	mg/L	0.000335	0.01444	mg/L	0.000335	2.32%
Be 313.107†	3.8	0.00001	mg/L	0.000030	0.00001	mg/L	0.000030	214.05%
Co 228.616†	31.9	0.00086	mg/L	0.000200	0.00086	mg/L	0.000200	23.15%
Cr 267.716†	143.8	0.00211	mg/L	0.000392	0.00211	mg/L	0.000392	18.58%
Cu 324.752†	877.4	0.00399	mg/L	0.000453	0.00399	mg/L	0.000453	11.36%
Fe 273.955†	8166.2	0.33752	mg/L	0.004540	0.33752	mg/L	0.004540	1.35%
Mg 279.077†	55648.1	3.1754	mg/L	0.06614	3.1754	mg/L	0.06614	2.08%
Mn 257.610†	12747.0	0.02178	mg/L	0.000508	0.02178	mg/L	0.000508	2.33%
Ni 231.604†	73.4	0.00245	mg/L	0.000080	0.00245	mg/L	0.000080	3.25%
Pb 220.353†	2.1	0.00046	mg/L	0.002640	0.00046	mg/L	0.002640	579.19%
Sb 206.836†	4.9	0.00416	mg/L	0.001481	0.00416	mg/L	0.001481	35.64%
Se 196.026†	2.7	0.00545	mg/L	0.005630	0.00545	mg/L	0.005630	103.35%
Tl 190.801	-4.3	-0.00494	mg/L	0.005202	-0.00494	mg/L	0.005202	105.24%
V 292.402†	119.4	0.00098	mg/L	0.000275	0.00098	mg/L	0.000275	28.11%
Zn 206.200†	263.2	0.01236	mg/L	0.000217	0.01236	mg/L	0.000217	1.76%
Cd 226.502†	15.3	0.00023	mg/L	0.000205	0.00023	mg/L	0.000205	89.30%
Ti 334.940†	3763.1	0.00682	mg/L	0.000588	0.00682	mg/L	0.000588	8.62%
Ca 227.546†	1502.5	7.7011	mg/L	0.25725	7.7011	mg/L	0.25725	3.34%
Na 589.592†	48697.8	10.013	mg/L	0.2453	10.013	mg/L	0.2453	2.45%
K 766.490†	791.9	0.75299	mg/L	0.014035	0.75299	mg/L	0.014035	1.86%

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Sequence No.: 63

Sample ID: L1807-04A~LMW-18

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 8/30/2012 11:37:23 AM

Data Type: Reprocessed on 8/30/2012 2:00:17 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-04A~LMW-18

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1782108.2	93.901	%	0.1157				0.12%
Lu 261.542	1165774.0	95.04	%	0.078				0.08%
Ag 328.068†	128.6	0.00069	mg/L	0.000284	0.00069	mg/L	0.000284	40.88%
Al 308.215†	203.0	0.00659	mg/L	0.003806	0.00659	mg/L	0.003806	57.77%
As 188.979†	0.9	0.00159	mg/L	0.002042	0.00159	mg/L	0.002042	128.35%
Ba 233.527†	5290.8	0.06134	mg/L	0.000274	0.06134	mg/L	0.000274	0.45%
Be 313.107†	-39.7	-0.00002	mg/L	0.000015	-0.00002	mg/L	0.000015	96.59%
Co 228.616†	-0.0	0.00000	mg/L	0.000090	0.00000	mg/L	0.000090	>999.9%
Cr 267.716†	125.6	0.00192	mg/L	0.000175	0.00192	mg/L	0.000175	9.10%
Cu 324.752†	546.1	0.00247	mg/L	0.000189	0.00247	mg/L	0.000189	7.68%
Fe 273.955†	415.1	0.01716	mg/L	0.001780	0.01716	mg/L	0.001780	10.37%
Mg 279.077†	65227.8	3.7221	mg/L	0.03682	3.7221	mg/L	0.03682	0.99%
Mn 257.610†	22844.8	0.03906	mg/L	0.000351	0.03906	mg/L	0.000351	0.90%
Ni 231.604†	15.6	0.00051	mg/L	0.000197	0.00051	mg/L	0.000197	38.60%
Pb 220.353†	-9.8	-0.00192	mg/L	0.001562	-0.00192	mg/L	0.001562	81.32%
Sb 206.836†	-0.6	-0.00054	mg/L	0.005879	-0.00054	mg/L	0.005879	>999.9%
Se 196.026†	2.7	0.00545	mg/L	0.005236	0.00545	mg/L	0.005236	96.05%
Tl 190.801	-8.0	-0.00938	mg/L	0.002272	-0.00938	mg/L	0.002272	24.23%
V 292.402†	-25.1	-0.00020	mg/L	0.000394	-0.00020	mg/L	0.000394	195.88%
Zn 206.200†	341.4	0.01601	mg/L	0.000176	0.01601	mg/L	0.000176	1.10%
Cd 226.502†	6.9	0.00008	mg/L	0.000184	0.00008	mg/L	0.000184	222.81%
Ti 334.940†	12.5	0.00022	mg/L	0.000081	0.00022	mg/L	0.000081	36.49%
Ca 227.546†	3081.4	15.801	mg/L	0.1419	15.801	mg/L	0.1419	0.90%
Na 589.592†	129236.0	26.574	mg/L	0.2174	26.574	mg/L	0.2174	0.82%
K 766.490†	9699.7	9.2232	mg/L	0.09867	9.2232	mg/L	0.09867	1.07%

Sequence No.: 64
 Sample ID: L1807-05A-LMW-19
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 80
 Date Collected: 8/30/2012 11:41:04 AM
 Data Type: Reprocessed on 8/30/2012 2:00:17 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-05A-LMW-19

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1809837.1	95.362	%	1.3020				1.37%
Lu 261.542	1180613.0	96.25	%	1.383				1.44%
Ag 328.068†	228.9	0.00128	mg/L	0.000406	0.00128	mg/L	0.000406	31.81%
Al 308.215†	554.5	0.02493	mg/L	0.004302	0.02493	mg/L	0.004302	17.26%
As 188.979†	1.7	0.00242	mg/L	0.001295	0.00242	mg/L	0.001295	53.45%
Ba 233.527†	995.4	0.01154	mg/L	0.000119	0.01154	mg/L	0.000119	1.03%
Be 313.107†	-92.8	-0.00004	mg/L	0.000028	-0.00004	mg/L	0.000028	79.10%
Co 228.616†	2.1	0.00006	mg/L	0.000199	0.00006	mg/L	0.000199	351.35%
Cr 267.716†	49.9	0.00081	mg/L	0.000474	0.00081	mg/L	0.000474	58.42%
Cu 324.752†	322.3	0.00146	mg/L	0.000194	0.00146	mg/L	0.000194	13.31%
Fe 273.955†	792.8	0.03277	mg/L	0.001334	0.03277	mg/L	0.001334	4.07%
Mg 279.077†	72314.9	4.1265	mg/L	0.09611	4.1265	mg/L	0.09611	2.33%
Mn 257.610†	1032.7	0.00173	mg/L	0.000054	0.00173	mg/L	0.000054	3.14%
Ni 231.604†	-6.2	-0.00022	mg/L	0.000302	-0.00022	mg/L	0.000302	134.62%
Pb 220.353†	-7.7	-0.00151	mg/L	0.000692	-0.00151	mg/L	0.000692	45.79%
Sb 206.836†	-0.2	-0.00015	mg/L	0.005085	-0.00015	mg/L	0.005085	>999.9%
Se 196.026†	1.7	0.00345	mg/L	0.003242	0.00345	mg/L	0.003242	93.96%
Tl 190.801	-6.3	-0.00730	mg/L	0.004024	-0.00730	mg/L	0.004024	55.09%
V 292.402†	-32.8	-0.00027	mg/L	0.000082	-0.00027	mg/L	0.000082	30.84%
Zn 206.200†	85.1	0.00399	mg/L	0.000295	0.00399	mg/L	0.000295	7.40%
Cd 226.502†	6.5	0.00009	mg/L	0.000132	0.00009	mg/L	0.000132	153.17%
Ti 334.940†	478.1	0.00096	mg/L	0.000222	0.00096	mg/L	0.000222	23.09%
Ca 227.546†	2071.6	10.622	mg/L	0.1652	10.622	mg/L	0.1652	1.56%
Na 589.592†	70288.6	14.453	mg/L	0.2132	14.453	mg/L	0.2132	1.47%
K 766.490†	935.8	0.88981	mg/L	0.070299	0.88981	mg/L	0.070299	7.90%

Sequence No.: 65
 Sample ID: L1807-06A-LMW-12
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 82
 Date Collected: 8/30/2012 11:44:45 AM
 Data Type: Reprocessed on 8/30/2012 2:00:18 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-06A-LMW-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1816381.6	95.707	%	0.8254				0.86%
Lu 261.542	1183586.5	96.49	%	0.890				0.92%
Ag 328.068†	257.9	0.00142	mg/L	0.000484	0.00142	mg/L	0.000484	34.01%
Al 308.215†	31716.8	1.5581	mg/L	0.01213	1.5581	mg/L	0.01213	0.78%
As 188.979†	-0.5	0.00079	mg/L	0.003450	0.00079	mg/L	0.003450	437.64%
Ba 233.527†	3843.4	0.04456	mg/L	0.000467	0.04456	mg/L	0.000467	1.05%
Be 313.107†	-288.3	-0.00001	mg/L	0.000008	-0.00001	mg/L	0.000008	70.21%
Co 228.616†	28.1	0.00061	mg/L	0.000128	0.00061	mg/L	0.000128	20.93%
Cr 267.716†	7294.5	0.10317	mg/L	0.000984	0.10317	mg/L	0.000984	0.95%
Cu 324.752†	2313.7	0.01060	mg/L	0.000271	0.01060	mg/L	0.000271	2.56%
Fe 273.955†	42031.9	1.7373	mg/L	0.01493	1.7373	mg/L	0.01493	0.86%
Mg 279.077†	44573.4	2.5432	mg/L	0.02051	2.5432	mg/L	0.02051	0.81%
Mn 257.610†	123513.8	0.21134	mg/L	0.001895	0.21134	mg/L	0.001895	0.90%
Ni 231.604†	190.5	0.00635	mg/L	0.000676	0.00635	mg/L	0.000676	10.65%
Pb 220.353†	98.2	0.01939	mg/L	0.000891	0.01939	mg/L	0.000891	4.60%
Sb 206.836†	2.3	0.00012	mg/L	0.003113	0.00012	mg/L	0.003113	>999.9%
Se 196.026†	-3.1	-0.00533	mg/L	0.012651	-0.00533	mg/L	0.012651	237.55%
Tl 190.801	-4.3	-0.00473	mg/L	0.006552	-0.00473	mg/L	0.006552	138.47%
V 292.402†	454.4	0.00392	mg/L	0.000267	0.00392	mg/L	0.000267	6.81%
Zn 206.200†	684.6	0.03248	mg/L	0.000403	0.03248	mg/L	0.000403	1.24%
Cd 226.502†	254.3	0.00440	mg/L	0.000018	0.00440	mg/L	0.000018	0.40%

Ti 334.940†	31030.5	0.05579 mg/L	0.001306	0.05579 mg/L	0.001306	2.34%
Ca 227.546†	2135.2	10.933 mg/L	0.1700	10.933 mg/L	0.1700	1.56%
Na 589.592†	74853.9	15.392 mg/L	0.0458	15.392 mg/L	0.0458	0.30%
K 766.490†	4577.8	4.3529 mg/L	0.07860	4.3529 mg/L	0.07860	1.81%

Sequence No.: 66

Sample ID: L1807-07A-LMW-14

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 81

Date Collected: 8/30/2012 11:48:26 AM

Data Type: Reprocessed on 8/30/2012 2:00:19 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-07A-LMW-14

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1802669.7	94.985 %		1.5449				1.63%
Lu 261.542	1172910.6	95.62 %		1.507				1.58%
Ag 328.068†	137.2	0.00074 mg/L		0.000092	0.00074 mg/L		0.000092	12.45%
Al 308.215†	6500.6	0.31402 mg/L		0.008647	0.31402 mg/L		0.008647	2.75%
As 188.979†	-4.8	-0.00474 mg/L		0.004020	-0.00474 mg/L		0.004020	84.75%
Ba 233.527†	4072.5	0.04722 mg/L		0.000973	0.04722 mg/L		0.000973	2.06%
Be 313.107†	12.4	0.00003 mg/L		0.000029	0.00003 mg/L		0.000029	113.51%
Co 228.616†	1.4	0.00001 mg/L		0.000206	0.00001 mg/L		0.000206	>999.9%
Cr 267.716†	150.7	0.00241 mg/L		0.000546	0.00241 mg/L		0.000546	22.62%
Cu 324.752†	1111.9	0.00504 mg/L		0.000352	0.00504 mg/L		0.000352	6.98%
Fe 273.955†	6747.3	0.27888 mg/L		0.003527	0.27888 mg/L		0.003527	1.26%
Mg 279.077†	95539.1	5.4518 mg/L		0.10062	5.4518 mg/L		0.10062	1.85%
Mn 257.610†	5325.9	0.00906 mg/L		0.000155	0.00906 mg/L		0.000155	1.71%
Ni 231.604†	33.0	0.00108 mg/L		0.000199	0.00108 mg/L		0.000199	18.45%
Pb 220.353†	14.2	0.00282 mg/L		0.000522	0.00282 mg/L		0.000522	18.51%
Sb 206.836†	-4.9	-0.00428 mg/L		0.004145	-0.00428 mg/L		0.004145	96.74%
Se 196.026†	-1.7	-0.00318 mg/L		0.009606	-0.00318 mg/L		0.009606	301.88%
Tl 190.801	-4.1	-0.00452 mg/L		0.008064	-0.00452 mg/L		0.008064	178.36%
V 292.402†	230.4	0.00188 mg/L		0.000222	0.00188 mg/L		0.000222	11.83%
Zn 206.200†	1201.2	0.05629 mg/L		0.000362	0.05629 mg/L		0.000362	0.64%
Cd 226.502†	523.1	0.00929 mg/L		0.000058	0.00929 mg/L		0.000058	0.63%
Ti 334.940†	6144.5	0.01140 mg/L		0.000288	0.01140 mg/L		0.000288	2.52%
Ca 227.546†	5483.0	28.115 mg/L		0.8108	28.115 mg/L		0.8108	2.88%
Na 589.592†	75015.2	15.425 mg/L		0.3436	15.425 mg/L		0.3436	2.23%
K 766.490†	3146.2	2.9916 mg/L		0.12349	2.9916 mg/L		0.12349	4.13%

Sequence No.: 67

Sample ID: L1807-08A-LMW-21

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 83

Date Collected: 8/30/2012 11:52:07 AM

Data Type: Reprocessed on 8/30/2012 2:00:20 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-08A-LMW-21

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1793856.9	94.520 %		0.1598				0.17%
Lu 261.542	1167686.0	95.20 %		0.215				0.23%
Ag 328.068†	220.8	0.00119 mg/L		0.000738	0.00119 mg/L		0.000738	61.86%
Al 308.215†	15222.1	0.74573 mg/L		0.010382	0.74573 mg/L		0.010382	1.39%
As 188.979†	0.4	0.00115 mg/L		0.006455	0.00115 mg/L		0.006455	558.92%
Ba 233.527†	7989.0	0.09262 mg/L		0.001129	0.09262 mg/L		0.001129	1.22%
Be 313.107†	-66.3	0.00002 mg/L		0.000006	0.00002 mg/L		0.000006	28.25%
Co 228.616†	22.9	0.00055 mg/L		0.000229	0.00055 mg/L		0.000229	41.87%
Cr 267.716†	922.7	0.01317 mg/L		0.000215	0.01317 mg/L		0.000215	1.63%
Cu 324.752†	826.6	0.00385 mg/L		0.000362	0.00385 mg/L		0.000362	9.40%
Fe 273.955†	32172.0	1.3297 mg/L		0.01245	1.3297 mg/L		0.01245	0.94%
Mg 279.077†	106041.8	6.0510 mg/L		0.05078	6.0510 mg/L		0.05078	0.84%
Mn 257.610†	56204.5	0.09612 mg/L		0.000791	0.09612 mg/L		0.000791	0.82%
Ni 231.604†	83.6	0.00277 mg/L		0.000271	0.00277 mg/L		0.000271	9.79%
Pb 220.353†	2.7	0.00061 mg/L		0.000603	0.00061 mg/L		0.000603	99.37%
Sb 206.836†	-1.6	-0.00157 mg/L		0.003323	-0.00157 mg/L		0.003323	211.52%

Se 196.026†	-0.4	-0.00025 mg/L	0.001505	-0.00025 mg/L	0.001505	590.39%
Tl 190.801	-3.4	-0.00354 mg/L	0.001977	-0.00354 mg/L	0.001977	55.87%
V 292.402†	210.4	0.00175 mg/L	0.000261	0.00175 mg/L	0.000261	14.93%
Zn 206.200†	327.6	0.01550 mg/L	0.000030	0.01550 mg/L	0.000030	0.19%
Cd 226.502†	19.4	0.00021 mg/L	0.000084	0.00021 mg/L	0.000084	39.65%
Ti 334.940†	14556.8	0.02624 mg/L	0.005175	0.02624 mg/L	0.005175	19.72%
Ca 227.546†	2788.0	14.284 mg/L	0.0035	14.284 mg/L	0.0035	0.02%
Na 589.592†	95679.4	19.674 mg/L	0.1428	19.674 mg/L	0.1428	0.73%
K 766.490†	7882.8	7.4956 mg/L	0.05213	7.4956 mg/L	0.05213	0.70%

Sequence No.: 68

Sample ID: L1807-09A-LMW-20

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 84

Date Collected: 8/30/2012 11:55:48 AM

Data Type: Reprocessed on 8/30/2012 2:00:20 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-09A-LMW-20

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1786362.9	94.125 %		0.6501				0.69%
Lu 261.542	1166290.2	95.08 %		0.639				0.67%
Ag 328.068†	277.7	0.00151 mg/L		0.000348	0.00151 mg/L		0.000348	23.12%
Al 308.215†	8437.7	0.41117 mg/L		0.008854	0.41117 mg/L		0.008854	2.15%
As 188.979†	2.0	0.00301 mg/L		0.004173	0.00301 mg/L		0.004173	138.43%
Ba 233.527†	3632.6	0.04211 mg/L		0.000996	0.04211 mg/L		0.000996	2.36%
Be 313.107†	-100.9	-0.00001 mg/L		0.000039	-0.00001 mg/L		0.000039	331.89%
Co 228.616†	10.7	0.00025 mg/L		0.000073	0.00025 mg/L		0.000073	29.18%
Cr 267.716†	129.2	0.00200 mg/L		0.000225	0.00200 mg/L		0.000225	11.27%
Cu 324.752†	478.2	0.00219 mg/L		0.000106	0.00219 mg/L		0.000106	4.82%
Fe 273.955†	9635.5	0.39826 mg/L		0.004064	0.39826 mg/L		0.004064	1.02%
Mg 279.077†	157609.7	8.9937 mg/L		0.01388	8.9937 mg/L		0.01388	0.15%
Mn 257.610†	13597.1	0.02318 mg/L		0.000147	0.02318 mg/L		0.000147	0.63%
Ni 231.604†	20.2	0.00063 mg/L		0.000228	0.00063 mg/L		0.000228	36.09%
Pb 220.353†	-2.1	-0.00035 mg/L		0.000701	-0.00035 mg/L		0.000701	198.52%
Sb 206.836†	0.7	0.00059 mg/L		0.001501	0.00059 mg/L		0.001501	252.35%
Se 196.026†	-1.3	-0.00233 mg/L		0.002021	-0.00233 mg/L		0.002021	86.76%
Tl 190.801	-4.7	-0.00505 mg/L		0.006917	-0.00505 mg/L		0.006917	136.85%
V 292.402†	135.3	0.00110 mg/L		0.000386	0.00110 mg/L		0.000386	35.08%
Zn 206.200†	86.0	0.00407 mg/L		0.000299	0.00407 mg/L		0.000299	7.34%
Cd 226.502†	7.1	0.00005 mg/L		0.000080	0.00005 mg/L		0.000080	153.85%
Ti 334.940†	8540.0	0.01545 mg/L		0.001068	0.01545 mg/L		0.001068	6.91%
Ca 227.546†	3395.1	17.404 mg/L		0.1942	17.404 mg/L		0.1942	1.12%
Na 589.592†	105589.6	21.712 mg/L		0.3567	21.712 mg/L		0.3567	1.64%
K 766.490†	1940.1	1.8448 mg/L		0.05363	1.8448 mg/L		0.05363	2.91%

Sequence No.: 69

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 11:59:30 AM

Data Type: Reprocessed on 8/30/2012 2:00:21 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1781324.6	93.860 %		1.3225				1.41%
Lu 261.542	1163368.9	94.84 %		1.419				1.50%
Ag 328.068†	204557.2	1.1816 mg/L		0.01547	1.1816 mg/L		0.01547	1.31%
QC value within limits for Ag 328.068 Recovery = 94.53%								
Al 308.215†	198591.7	9.7628 mg/L		0.19939	9.7628 mg/L		0.19939	2.04%
QC value within limits for Al 308.215 Recovery = 97.63%								
As 188.979†	407.6	0.49451 mg/L		0.004212	0.49451 mg/L		0.004212	0.85%
QC value within limits for As 188.979 Recovery = 98.90%								
Ba 233.527†	867287.1	10.058 mg/L		0.1841	10.058 mg/L		0.1841	1.83%
QC value within limits for Ba 233.527 Recovery = 100.58%								
Be 313.107†	615792.2	0.24526 mg/L		0.004295	0.24526 mg/L		0.004295	1.75%

Co	QC value within limits for Be 313.107	Recovery = 98.11%				
	228.616†	92135.9	2.5623 mg/L	0.04961	2.5623 mg/L	0.04961 1.94%
Cr	QC value within limits for Co 228.616	Recovery = 102.49%				
	267.716†	68464.1	0.96814 mg/L	0.020160	0.96814 mg/L	0.020160 2.08%
Cu	QC value within limits for Cr 267.716	Recovery = 96.81%				
	324.752†	263307.3	1.1893 mg/L	0.02281	1.1893 mg/L	0.02281 1.92%
Fe	QC value within limits for Cu 324.752	Recovery = 95.15%				
	273.955†	121415.4	5.0224 mg/L	0.10595	5.0224 mg/L	0.10595 2.11%
Mg	QC value within limits for Fe 273.955	Recovery = 100.45%				
	279.077†	437568.7	24.967 mg/L	0.4429	24.967 mg/L	0.4429 1.77%
Mn	QC value within limits for Mg 279.077	Recovery = 99.87%				
	257.610†	1467513.4	2.5109 mg/L	0.04798	2.5109 mg/L	0.04798 1.91%
Ni	QC value within limits for Mn 257.610	Recovery = 100.44%				
	231.604†	74977.2	2.5161 mg/L	0.05476	2.5161 mg/L	0.05476 2.18%
Pb	QC value within limits for Ni 231.604	Recovery = 100.64%				
	220.353†	2537.1	0.49778 mg/L	0.008362	0.49778 mg/L	0.008362 1.68%
Sb	QC value within limits for Pb 220.353	Recovery = 99.56%				
	206.836†	633.2	0.53061 mg/L	0.008275	0.53061 mg/L	0.008275 1.56%
Se	QC value within limits for Sb 206.836	Recovery = 106.12%				
	196.026†	234.8	0.47264 mg/L	0.011007	0.47264 mg/L	0.011007 2.33%
Tl	QC value within limits for Se 196.026	Recovery = 94.53%				
	190.801	420.6	0.48222 mg/L	0.003129	0.48222 mg/L	0.003129 0.65%
V	QC value within limits for Tl 190.801	Recovery = 96.44%				
	292.402†	300126.0	2.4524 mg/L	0.05018	2.4524 mg/L	0.05018 2.05%
Zn	QC value within limits for V 292.402	Recovery = 98.10%				
	206.200†	53643.8	2.5181 mg/L	0.05107	2.5181 mg/L	0.05107 2.03%
Cd	QC value within limits for Zn 206.200	Recovery = 100.72%				
	226.502†	13562.5	0.24345 mg/L	0.004024	0.24345 mg/L	0.004024 1.65%
Ti	QC value within limits for Cd 226.502	Recovery = 97.38%				
	334.940†	264746.0	0.47467 mg/L	0.009053	0.47467 mg/L	0.009053 1.91%
Ca	QC value within limits for Ti 334.940	Recovery = Not calculated				
	227.546†	4846.5	24.002 mg/L	0.4007	24.002 mg/L	0.4007 1.67%
Na	QC value within limits for Ca 227.546	Recovery = 96.01%				
	589.592†	122646.1	25.219 mg/L	0.1687	25.219 mg/L	0.1687 0.67%
K	QC value within limits for Na 589.592	Recovery = 100.88%				
	766.490†	27276.9	25.937 mg/L	0.2096	25.937 mg/L	0.2096 0.81%
	QC value within limits for K 766.490	Recovery = 103.75%				

All analyte(s) passed QC.

Sequence No.: 70

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 12:03:13 PM

Data Type: Reprocessed on 8/30/2012 2:00:22 PM

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 360.073	1816054.4	95.690 %	1.6549			1.73%
Lu 261.542	1178704.4	96.09 %	1.779			1.85%
Ag 328.068†	285.9	0.00165 mg/L	0.000528	0.00165 mg/L	0.000528	32.08%
	QC value within limits for Ag 328.068	Recovery = Not calculated				
Al 308.215†	-83.9	-0.00414 mg/L	0.001707	-0.00414 mg/L	0.001707	41.24%
	QC value within limits for Al 308.215	Recovery = Not calculated				
As 188.979†	1.7	0.00205 mg/L	0.004622	0.00205 mg/L	0.004622	225.76%
	QC value within limits for As 188.979	Recovery = Not calculated				
Ba 233.527†	40.1	0.00047 mg/L	0.000200	0.00047 mg/L	0.000200	42.96%
	QC value within limits for Ba 233.527	Recovery = Not calculated				
Be 313.107†	-101.4	-0.00004 mg/L	0.000017	-0.00004 mg/L	0.000017	42.13%
	QC value within limits for Be 313.107	Recovery = Not calculated				
Co 228.616†	5.1	0.00014 mg/L	0.000119	0.00014 mg/L	0.000119	84.84%
	QC value within limits for Co 228.616	Recovery = Not calculated				
Cr 267.716†	-3.6	-0.00005 mg/L	0.000107	-0.00005 mg/L	0.000107	214.06%
	QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu 324.752†	191.7	0.00087 mg/L	0.000316	0.00087 mg/L	0.000316	36.58%
	QC value within limits for Cu 324.752	Recovery = Not calculated				
Fe 273.955†	23.0	0.00095 mg/L	0.000686	0.00095 mg/L	0.000686	72.20%
	QC value within limits for Fe 273.955	Recovery = Not calculated				

Mg 279.077† -78.8 -0.00450 mg/L 0.001547 -0.00450 mg/L 0.001547 34.39%
 QC value within limits for Mg 279.077 Recovery = Not calculated
 Mn 257.610† 109.7 0.00019 mg/L 0.000102 0.00019 mg/L 0.000102 54.41%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Ni 231.604† -3.1 -0.00010 mg/L 0.000166 -0.00010 mg/L 0.000166 160.16%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† -0.8 -0.00015 mg/L 0.000975 -0.00015 mg/L 0.000975 653.56%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† -1.3 -0.00115 mg/L 0.002832 -0.00115 mg/L 0.002832 245.19%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† -2.2 -0.00441 mg/L 0.002957 -0.00441 mg/L 0.002957 66.99%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Tl 190.801 -5.1 -0.00616 mg/L 0.004246 -0.00616 mg/L 0.004246 68.87%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 0.2 0.00000 mg/L 0.000190 0.00000 mg/L 0.000190 >999.9%
 QC value within limits for V 292.402 Recovery = Not calculated
 Zn 206.200† 3.9 0.00018 mg/L 0.000384 0.00018 mg/L 0.000384 212.40%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Cd 226.502† 4.6 0.00008 mg/L 0.000102 0.00008 mg/L 0.000102 122.81%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† 97.1 0.00018 mg/L 0.000023 0.00018 mg/L 0.000023 12.85%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 8.9 0.04545 mg/L 0.057384 0.04545 mg/L 0.057384 126.25%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 Na 589.592† 27.5 0.00566 mg/L 0.008497 0.00566 mg/L 0.008497 150.12%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† -24.3 -0.02313 mg/L 0.078275 -0.02313 mg/L 0.078275 338.39%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 71

Sample ID: L1807-10A-LMW-10

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 85

Date Collected: 8/30/2012 12:06:55 PM

Data Type: Reprocessed on 8/30/2012 2:00:22 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-10A-LMW-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1785225.4	94.066	%	0.9586				1.02%
Lu 261.542	1164974.8	94.97	%	0.976				1.03%
Ag 328.068†	327.6	0.00185	mg/L	0.000839	0.00185	mg/L	0.000839	45.47%
Al 308.215†	3335.0	0.15878	mg/L	0.007388	0.15878	mg/L	0.007388	4.65%
As 188.979†	-0.2	0.00199	mg/L	0.002861	0.00199	mg/L	0.002861	143.66%
Ba 233.527†	2477.1	0.02872	mg/L	0.000265	0.02872	mg/L	0.000265	0.92%
Be 313.107†	-92.6	-0.00003	mg/L	0.000013	-0.00003	mg/L	0.000013	46.91%
Co 228.616†	16.8	0.00045	mg/L	0.000028	0.00045	mg/L	0.000028	6.26%
Cr 267.716†	10706.4	0.15156	mg/L	0.001528	0.15156	mg/L	0.001528	1.01%
Cu 324.752†	448.9	0.00206	mg/L	0.000310	0.00206	mg/L	0.000310	15.04%
Fe 273.955†	9449.8	0.39058	mg/L	0.007457	0.39058	mg/L	0.007457	1.91%
Mg 279.077†	63771.3	3.6386	mg/L	0.04830	3.6386	mg/L	0.04830	1.33%
Mn 257.610†	11064.5	0.01890	mg/L	0.000292	0.01890	mg/L	0.000292	1.54%
Ni 231.604†	105.9	0.00354	mg/L	0.000239	0.00354	mg/L	0.000239	6.75%
Pb 220.353†	1.3	0.00028	mg/L	0.001078	0.00028	mg/L	0.001078	389.49%
Sb 206.836†	2.6	-0.00055	mg/L	0.005485	-0.00055	mg/L	0.005485	998.03%
Se 196.026†	-0.5	-0.00087	mg/L	0.004226	-0.00087	mg/L	0.004226	484.38%
Tl 190.801	-4.4	-0.00488	mg/L	0.004363	-0.00488	mg/L	0.004363	89.32%
V 292.402†	33.5	0.00062	mg/L	0.000252	0.00062	mg/L	0.000252	40.27%
Zn 206.200†	85.8	0.00433	mg/L	0.000169	0.00433	mg/L	0.000169	3.91%
Cd 226.502†	2016.4	0.03607	mg/L	0.000593	0.03607	mg/L	0.000593	1.64%
Ti 334.940†	2532.5	0.00489	mg/L	0.000180	0.00489	mg/L	0.000180	3.68%
Ca 227.546†	5054.2	25.915	mg/L	0.3673	25.915	mg/L	0.3673	1.42%
Na 589.592†	71882.8	14.781	mg/L	0.1452	14.781	mg/L	0.1452	0.98%
K 766.490†	5057.9	4.8094	mg/L	0.07855	4.8094	mg/L	0.07855	1.63%

Sequence No.: 72

Sample ID: L1807-11A-LMW-16

Autosampler Location: 86

Date Collected: 8/30/2012 12:10:36 PM

Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Data Type: Reprocessed on 8/30/2012 2:00:23 PM

Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: L1807-11A~LMW-16

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1781551.0	93.872	%	0.6328				0.67%
Lu 261.542	1159608.3	94.54	%	0.659				0.70%
Ag 328.068†	179.4	0.00086	mg/L	0.000194	0.00086	mg/L	0.000194	22.66%
Al 308.215†	6976.3	0.33969	mg/L	0.002729	0.33969	mg/L	0.002729	0.80%
As 188.979†	-4.3	-0.00484	mg/L	0.001145	-0.00484	mg/L	0.001145	23.66%
Ba 233.527†	29205.5	0.33859	mg/L	0.003730	0.33859	mg/L	0.003730	1.10%
Be 313.107†	1769.6	0.00070	mg/L	0.000009	0.00070	mg/L	0.000009	1.28%
Co 228.616†	0.1	0.00000	mg/L	0.000068	0.00000	mg/L	0.000068	>999.9%
Cr 267.716†	200.3	0.00282	mg/L	0.000452	0.00282	mg/L	0.000452	16.01%
Cu 324.752†	14759.5	0.06660	mg/L	0.000317	0.06660	mg/L	0.000317	0.48%
Fe 273.955†	1207.2	0.04989	mg/L	0.000499	0.04989	mg/L	0.000499	1.00%
Mg 279.077†	65571.0	3.7417	mg/L	0.03106	3.7417	mg/L	0.03106	0.83%
Mn 257.610†	386371.5	0.66114	mg/L	0.003793	0.66114	mg/L	0.003793	0.57%
Ni 231.604†	351.1	0.01177	mg/L	0.000338	0.01177	mg/L	0.000338	2.87%
Pb 220.353†	-3.5	-0.00063	mg/L	0.002126	-0.00063	mg/L	0.002126	337.21%
Sb 206.836†	0.5	0.00036	mg/L	0.004394	0.00036	mg/L	0.004394	>999.9%
Se 196.026†	3.0	0.00603	mg/L	0.008961	0.00603	mg/L	0.008961	148.56%
Tl 190.801	-2.3	-0.00232	mg/L	0.001971	-0.00232	mg/L	0.001971	84.91%
V 292.402†	9.9	0.00007	mg/L	0.000106	0.00007	mg/L	0.000106	158.00%
Zn 206.200†	723.5	0.03418	mg/L	0.000388	0.03418	mg/L	0.000388	1.13%
Cd 226.502†	237.8	0.00423	mg/L	0.000063	0.00423	mg/L	0.000063	1.48%
Ti 334.940†	353.6	0.00077	mg/L	0.000037	0.00077	mg/L	0.000037	4.75%
Ca 227.546†	2355.2	12.073	mg/L	0.1784	12.073	mg/L	0.1784	1.48%
Na 589.592†	67654.9	13.912	mg/L	0.1750	13.912	mg/L	0.1750	1.26%
K 766.490†	6318.3	6.0079	mg/L	0.12764	6.0079	mg/L	0.12764	2.12%

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Sequence No.: 73
 Sample ID: L1807-12A~LMW-2
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 87
 Date Collected: 8/30/2012 12:14:18 PM
 Data Type: Reprocessed on 8/30/2012 2:00:24 PM
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: L1807-12A~LMW-2

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1829031.7	96.374	%	1.5444				1.60%
Lu 261.542	1189659.0	96.99	%	1.505				1.55%
Ag 328.068†	173.5	0.00096	mg/L	0.000476	0.00096	mg/L	0.000476	49.61%
Al 308.215†	12312.0	0.60161	mg/L	0.020665	0.60161	mg/L	0.020665	3.43%
As 188.979†	-4.7	-0.00453	mg/L	0.003503	-0.00453	mg/L	0.003503	77.29%
Ba 233.527†	3403.0	0.03945	mg/L	0.000449	0.03945	mg/L	0.000449	1.14%
Be 313.107†	-152.8	-0.00001	mg/L	0.000026	-0.00001	mg/L	0.000026	177.00%
Co 228.616†	15.8	0.00036	mg/L	0.000049	0.00036	mg/L	0.000049	13.49%
Cr 267.716†	1872.3	0.02667	mg/L	0.000852	0.02667	mg/L	0.000852	3.19%
Cu 324.752†	3179.1	0.01442	mg/L	0.000950	0.01442	mg/L	0.000950	6.58%
Fe 273.955†	20644.0	0.85326	mg/L	0.025978	0.85326	mg/L	0.025978	3.04%
Mg 279.077†	65205.7	3.7208	mg/L	0.09495	3.7208	mg/L	0.09495	2.55%
Mn 257.610†	10393.6	0.01775	mg/L	0.000415	0.01775	mg/L	0.000415	2.34%
Ni 231.604†	139.3	0.00465	mg/L	0.000397	0.00465	mg/L	0.000397	8.55%
Pb 220.353†	20.7	0.00412	mg/L	0.003137	0.00412	mg/L	0.003137	76.16%
Sb 206.836†	-3.4	-0.00341	mg/L	0.004943	-0.00341	mg/L	0.004943	145.12%
Se 196.026†	1.7	0.00378	mg/L	0.003490	0.00378	mg/L	0.003490	92.36%
Tl 190.801	-7.0	-0.00795	mg/L	0.000924	-0.00795	mg/L	0.000924	11.63%
V 292.402†	159.6	0.00135	mg/L	0.000130	0.00135	mg/L	0.000130	9.63%
Zn 206.200†	1086.0	0.05098	mg/L	0.000781	0.05098	mg/L	0.000781	1.53%
Cd 226.502†	199.5	0.00346	mg/L	0.000159	0.00346	mg/L	0.000159	4.61%
Ti 334.940†	13828.6	0.02508	mg/L	0.000618	0.02508	mg/L	0.000618	2.46%
Ca 227.546†	3976.7	20.386	mg/L	0.2674	20.386	mg/L	0.2674	1.31%
Na 589.592†	103999.0	21.385	mg/L	0.2832	21.385	mg/L	0.2832	1.32%

K 766.490† 1796.1 1.7079 mg/L 0.05839 1.7079 mg/L 0.05839 3.42%

Sequence No.: 74

Sample ID: L1807-13A-LMW-3

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 88

Date Collected: 8/30/2012 12:17:59 PM

Data Type: Reprocessed on 8/30/2012 2:00:24 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-13A-LMW-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1782676.7	93.931	%	0.5208				0.55%
Lu 261.542	1164302.1	94.92	%	0.566				0.60%
Ag 328.068†	257.1	0.00143	mg/L	0.000274	0.00143	mg/L	0.000274	19.20%
Al 308.215†	7435.5	0.35994	mg/L	0.000571	0.35994	mg/L	0.000571	0.16%
As 188.979†	-1.9	-0.00015	mg/L	0.000801	-0.00015	mg/L	0.000801	520.07%
Ba 233.527†	2493.4	0.02891	mg/L	0.000253	0.02891	mg/L	0.000253	0.88%
Be 313.107†	-162.1	-0.00003	mg/L	0.000005	-0.00003	mg/L	0.000005	16.40%
Co 228.616†	20.6	0.00052	mg/L	0.000108	0.00052	mg/L	0.000108	20.49%
Cr 267.716†	8358.5	0.11841	mg/L	0.001059	0.11841	mg/L	0.001059	0.89%
Cu 324.752†	3133.7	0.01418	mg/L	0.000402	0.01418	mg/L	0.000402	2.83%
Fe 273.955†	10018.7	0.41409	mg/L	0.004289	0.41409	mg/L	0.004289	1.04%
Mg 279.077†	89376.2	5.0998	mg/L	0.05571	5.0998	mg/L	0.05571	1.09%
Mn 257.610†	4525.2	0.00769	mg/L	0.000055	0.00769	mg/L	0.000055	0.71%
Ni 231.604†	115.3	0.00384	mg/L	0.000252	0.00384	mg/L	0.000252	6.55%
Pb 220.353†	16.5	0.00327	mg/L	0.000537	0.00327	mg/L	0.000537	16.40%
Sb 206.836†	4.2	0.00143	mg/L	0.002441	0.00143	mg/L	0.002441	171.20%
Se 196.026†	-0.9	-0.00166	mg/L	0.006031	-0.00166	mg/L	0.006031	362.41%
Tl 190.801	-4.2	-0.00457	mg/L	0.006506	-0.00457	mg/L	0.006506	142.28%
V 292.402†	104.6	0.00111	mg/L	0.000658	0.00111	mg/L	0.000658	59.26%
Zn 206.200†	412.2	0.01957	mg/L	0.000239	0.01957	mg/L	0.000239	1.22%
Cd 226.502†	175.3	0.00304	mg/L	0.000111	0.00304	mg/L	0.000111	3.64%
Ti 334.940†	9325.1	0.01710	mg/L	0.004014	0.01710	mg/L	0.004014	23.47%
Ca 227.546†	5587.4	28.649	mg/L	0.2989	28.649	mg/L	0.2989	1.04%
Na 589.592†	149816.9	30.806	mg/L	0.3346	30.806	mg/L	0.3346	1.09%
K 766.490†	2688.2	2.5561	mg/L	0.13059	2.5561	mg/L	0.13059	5.11%

Sequence No.: 75

Sample ID: L1807-14A-LMW-4

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 89

Date Collected: 8/30/2012 12:21:40 PM

Data Type: Reprocessed on 8/30/2012 2:00:25 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-14A-LMW-4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1838264.6	96.860	%	1.3857				1.43%
Lu 261.542	1200065.0	97.84	%	1.479				1.51%
Ag 328.068†	316.0	0.00180	mg/L	0.000434	0.00180	mg/L	0.000434	24.15%
Al 308.215†	40339.3	1.9812	mg/L	0.02987	1.9812	mg/L	0.02987	1.51%
As 188.979†	4.1	0.00644	mg/L	0.004885	0.00644	mg/L	0.004885	75.85%
Ba 233.527†	1968.6	0.02283	mg/L	0.000237	0.02283	mg/L	0.000237	1.04%
Be 313.107†	-334.3	-0.00001	mg/L	0.000019	-0.00001	mg/L	0.000019	226.43%
Co 228.616†	33.8	0.00073	mg/L	0.000313	0.00073	mg/L	0.000313	42.60%
Cr 267.716†	5288.9	0.07495	mg/L	0.000725	0.07495	mg/L	0.000725	0.97%
Cu 324.752†	15405.2	0.06970	mg/L	0.001575	0.06970	mg/L	0.001575	2.26%
Fe 273.955†	48375.8	1.9995	mg/L	0.02455	1.9995	mg/L	0.02455	1.23%
Mg 279.077†	48469.2	2.7656	mg/L	0.04112	2.7656	mg/L	0.04112	1.49%
Mn 257.610†	10795.6	0.01845	mg/L	0.000265	0.01845	mg/L	0.000265	1.44%
Ni 231.604†	523.6	0.01753	mg/L	0.000399	0.01753	mg/L	0.000399	2.28%
Pb 220.353†	78.0	0.01546	mg/L	0.000567	0.01546	mg/L	0.000567	3.67%
Sb 206.836†	-0.7	-0.00189	mg/L	0.001811	-0.00189	mg/L	0.001811	95.70%
Se 196.026†	0.4	0.00171	mg/L	0.001338	0.00171	mg/L	0.001338	78.44%
Tl 190.801	-5.0	-0.00554	mg/L	0.006595	-0.00554	mg/L	0.006595	119.00%
V 292.402†	588.5	0.00492	mg/L	0.000421	0.00492	mg/L	0.000421	8.55%

Zn 206.200†	5477.2	0.25686 mg/L	0.004384	0.25686 mg/L	0.004384	1.71%
Cd 226.502†	1582.5	0.02819 mg/L	0.000504	0.02819 mg/L	0.000504	1.79%
Ti 334.940†	37605.1	0.06771 mg/L	0.002035	0.06771 mg/L	0.002035	3.01%
Ca 227.546†	3656.2	18.732 mg/L	0.3530	18.732 mg/L	0.3530	1.88%
Na 589.592†	65073.2	13.381 mg/L	0.2813	13.381 mg/L	0.2813	2.10%
K 766.490†	2461.5	2.3406 mg/L	0.11242	2.3406 mg/L	0.11242	4.80%

Sequence No.: 76

Sample ID: L1807-15A-DMW-13A

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 90

Date Collected: 8/30/2012 12:25:21 PM

Data Type: Reprocessed on 8/30/2012 2:00:26 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-15A-DMW-13A

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1760793.5	92.778 %		0.5603				0.60%
Lu 261.542	1151248.6	93.86 %		0.590				0.63%
Ag 328.068†	433.9	0.00117 mg/L		0.000467	0.00117 mg/L		0.000467	39.80%
Al 308.215†	4381.5	0.20448 mg/L		0.004752	0.20448 mg/L		0.004752	2.32%
As 188.979†	0.9	0.00012 mg/L		0.007357	0.00012 mg/L		0.007357	>999.9%
Ba 233.527†	6717.0	0.07787 mg/L		0.001636	0.07787 mg/L		0.001636	2.10%
Be 313.107†	-73.2	-0.00002 mg/L		0.000010	-0.00002 mg/L		0.000010	48.11%
Co 228.616†	1213.1	0.03366 mg/L		0.000350	0.03366 mg/L		0.000350	1.04%
Cr 267.716†	282.7	0.00281 mg/L		0.000512	0.00281 mg/L		0.000512	18.22%
Cu 324.752†	1401.5	0.00667 mg/L		0.000275	0.00667 mg/L		0.000275	4.12%
Fe 273.955†	89229.8	3.6880 mg/L		0.06535	3.6880 mg/L		0.06535	1.77%
Mg 279.077†	16410.9	0.93645 mg/L		0.017710	0.93645 mg/L		0.017710	1.89%
Mn 257.610†	3617226.4	6.1900 mg/L		0.00508	6.1900 mg/L		0.00508	0.08%
Ni 231.604†	34.4	0.00115 mg/L		0.000157	0.00115 mg/L		0.000157	13.67%
Pb 220.353†	5.0	0.00131 mg/L		0.001757	0.00131 mg/L		0.001757	134.35%
Sb 206.836†	0.1	-0.00006 mg/L		0.003401	-0.00006 mg/L		0.003401	>999.9%
Se 196.026†	-0.0	0.00138 mg/L		0.009824	0.00138 mg/L		0.009824	713.37%
Tl 190.801	5.7	0.00923 mg/L		0.002767	0.00923 mg/L		0.002767	29.97%
V 292.402†	0.3	0.00012 mg/L		0.000240	0.00012 mg/L		0.000240	206.31%
Zn 206.200†	144.5	0.00946 mg/L		0.000182	0.00946 mg/L		0.000182	1.92%
Cd 226.502†	5228.9	0.09349 mg/L		0.001797	0.09349 mg/L		0.001797	1.92%
Ti 334.940†	2526.0	0.00465 mg/L		0.000110	0.00465 mg/L		0.000110	2.36%
Ca 227.546†	1542.7	7.8499 mg/L		0.11420	7.8499 mg/L		0.11420	1.45%
Na 589.592†	228511.9	46.988 mg/L		0.5039	46.988 mg/L		0.5039	1.07%
K 766.490†	2363.9	2.2478 mg/L		0.06287	2.2478 mg/L		0.06287	2.80%

Sequence No.: 77

Sample ID: L1807-16A-DMW-22B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 91

Date Collected: 8/30/2012 12:29:10 PM

Data Type: Reprocessed on 8/30/2012 2:00:27 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-16A-DMW-22B

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1740785.0	91.724 %		0.3853				0.42%
Lu 261.542	1135583.2	92.58 %		0.278				0.30%
Ag 328.068†	166.6	0.00076 mg/L		0.000154	0.00076 mg/L		0.000154	20.17%
Al 308.215†	98.8	-0.00092 mg/L		0.001911	-0.00092 mg/L		0.001911	208.36%
As 188.979†	-1.4	-0.00104 mg/L		0.001229	-0.00104 mg/L		0.001229	118.24%
Ba 233.527†	3412.9	0.03957 mg/L		0.000310	0.03957 mg/L		0.000310	0.78%
Be 313.107†	-111.5	-0.00004 mg/L		0.000036	-0.00004 mg/L		0.000036	80.84%
Co 228.616†	20.7	0.00057 mg/L		0.000271	0.00057 mg/L		0.000271	47.24%
Cr 267.716†	30.6	0.00050 mg/L		0.000199	0.00050 mg/L		0.000199	39.55%
Cu 324.752†	422.3	0.00192 mg/L		0.000034	0.00192 mg/L		0.000034	1.79%
Fe 273.955†	2650.2	0.10954 mg/L		0.000931	0.10954 mg/L		0.000931	0.85%
Mg 279.077†	67681.4	3.8621 mg/L		0.03646	3.8621 mg/L		0.03646	0.94%
Mn 257.610†	436853.9	0.74753 mg/L		0.009086	0.74753 mg/L		0.009086	1.22%
Ni 231.604†	12.2	0.00039 mg/L		0.000231	0.00039 mg/L		0.000231	58.49%

Pb 220.353†	-5.7	-0.00108 mg/L	0.001484	-0.00108 mg/L	0.001484	137.32%
Sb 206.836†	-3.8	-0.00331 mg/L	0.000917	-0.00331 mg/L	0.000917	27.72%
Se 196.026†	-1.2	-0.00238 mg/L	0.006833	-0.00238 mg/L	0.006833	287.09%
Tl 190.801	-3.3	-0.00335 mg/L	0.001186	-0.00335 mg/L	0.001186	35.35%
V 292.402†	-17.2	-0.00014 mg/L	0.000456	-0.00014 mg/L	0.000456	334.40%
Zn 206.200†	116.0	0.00574 mg/L	0.000034	0.00574 mg/L	0.000034	0.59%
Cd 226.502†	7.3	0.00006 mg/L	0.000033	0.00006 mg/L	0.000033	51.97%
Ti 334.940†	-164.5	0.00001 mg/L	0.000042	0.00001 mg/L	0.000042	412.75%
Ca 227.546†	4360.4	22.357 mg/L	0.0816	22.357 mg/L	0.0816	0.36%
Na 589.592†	93503.5	19.227 mg/L	0.1686	19.227 mg/L	0.1686	0.88%
K 766.490†	4703.9	4.4729 mg/L	0.13924	4.4729 mg/L	0.13924	3.11%

Sequence No.: 78

Sample ID: L1807-17A-DMW-22A

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 92

Date Collected: 8/30/2012 12:32:52 PM

Data Type: Reprocessed on 8/30/2012 2:00:27 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-17A-DMW-22A

Mean Corrected		Calib.	Sample					
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1732404.6	91.282	%	0.9949				1.09%
Lu 261.542	1133394.9	92.40	%	0.925				1.00%
Ag 328.068†	215.2	0.00111	mg/L	0.000540	0.00111	mg/L	0.000540	48.82%
Al 308.215†	138.4	0.00047	mg/L	0.003046	0.00047	mg/L	0.003046	648.66%
As 188.979†	0.0	0.00116	mg/L	0.001169	0.00116	mg/L	0.001169	100.33%
Ba 233.527†	3112.0	0.03608	mg/L	0.000439	0.03608	mg/L	0.000439	1.22%
Be 313.107†	-90.2	-0.00004	mg/L	0.000043	-0.00004	mg/L	0.000043	117.78%
Co 228.616†	13.2	0.00030	mg/L	0.000311	0.00030	mg/L	0.000311	102.41%
Cr 267.716†	145.3	0.00224	mg/L	0.000401	0.00224	mg/L	0.000401	17.92%
Cu 324.752†	347.6	0.00182	mg/L	0.000121	0.00182	mg/L	0.000121	6.68%
Fe 273.955†	65412.3	2.7036	mg/L	0.03247	2.7036	mg/L	0.03247	1.20%
Mg 279.077†	71098.6	4.0571	mg/L	0.04788	4.0571	mg/L	0.04788	1.18%
Mn 257.610†	255335.9	0.43690	mg/L	0.004214	0.43690	mg/L	0.004214	0.96%
Ni 231.604†	4.6	0.00014	mg/L	0.000366	0.00014	mg/L	0.000366	262.99%
Pb 220.353†	-9.0	-0.00178	mg/L	0.001026	-0.00178	mg/L	0.001026	57.62%
Sb 206.836†	-1.3	-0.00121	mg/L	0.005061	-0.00121	mg/L	0.005061	418.84%
Se 196.026†	-3.7	-0.00623	mg/L	0.006606	-0.00623	mg/L	0.006606	106.05%
Tl 190.801	-3.5	-0.00343	mg/L	0.005084	-0.00343	mg/L	0.005084	148.38%
V 292.402†	-10.4	0.00000	mg/L	0.000225	0.00000	mg/L	0.000225	>999.9%
Zn 206.200†	354.9	0.01693	mg/L	0.000064	0.01693	mg/L	0.000064	0.38%
Cd 226.502†	14.9	-0.00001	mg/L	0.000081	-0.00001	mg/L	0.000081	>999.9%
Ti 334.940†	-220.7	-0.00001	mg/L	0.000122	-0.00001	mg/L	0.000122	>999.9%
Ca 227.546†	5388.8	27.612	mg/L	0.5087	27.612	mg/L	0.5087	1.84%
Na 589.592†	290128.5	59.658	mg/L	0.7719	59.658	mg/L	0.7719	1.29%
K 766.490†	3136.1	2.9821	mg/L	0.04229	2.9821	mg/L	0.04229	1.42%

Sequence No.: 79

Sample ID: L1807-18A-DMW-18

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 93

Date Collected: 8/30/2012 12:36:41 PM

Data Type: Reprocessed on 8/30/2012 2:00:28 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-18A-DMW-18

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1772006.5	93.369	%	1.4948				1.60%
Lu 261.542	1156319.6	94.27	%	1.520				1.61%
Ag 328.068†	159.2	0.00087	mg/L	0.000561	0.00087	mg/L	0.000561	64.46%
Al 308.215†	785.5	0.03558	mg/L	0.005025	0.03558	mg/L	0.005025	14.12%
As 188.979†	-0.4	0.00005	mg/L	0.004715	0.00005	mg/L	0.004715	>999.9%
Ba 233.527†	1702.6	0.01974	mg/L	0.000359	0.01974	mg/L	0.000359	1.82%
Be 313.107†	-110.4	-0.00004	mg/L	0.000032	-0.00004	mg/L	0.000032	75.36%
Co 228.616†	2.7	0.00007	mg/L	0.000240	0.00007	mg/L	0.000240	335.81%
Cr 267.716†	44.5	0.00075	mg/L	0.000398	0.00075	mg/L	0.000398	53.25%

Cu 324.752†	601.2	0.00272 mg/L	0.000469	0.00272 mg/L	0.000469	17.25%
Fe 273.955†	855.0	0.03534 mg/L	0.002016	0.03534 mg/L	0.002016	5.70%
Mg 279.077†	41290.7	2.3562 mg/L	0.06996	2.3562 mg/L	0.06996	2.97%
Mn 257.610†	65768.4	0.11252 mg/L	0.002996	0.11252 mg/L	0.002996	2.66%
Ni 231.604†	9.0	0.00029 mg/L	0.000269	0.00029 mg/L	0.000269	92.21%
Pb 220.353†	-12.2	-0.00237 mg/L	0.000661	-0.00237 mg/L	0.000661	27.94%
Sb 206.836†	-1.3	-0.00111 mg/L	0.001156	-0.00111 mg/L	0.001156	104.21%
Se 196.026†	0.2	0.00048 mg/L	0.008691	0.00048 mg/L	0.008691	>999.9%
Tl 190.801	-5.7	-0.00663 mg/L	0.002803	-0.00663 mg/L	0.002803	42.29%
V 292.402†	24.8	0.00020 mg/L	0.000070	0.00020 mg/L	0.000070	34.29%
Zn 206.200†	71.4	0.00339 mg/L	0.000279	0.00339 mg/L	0.000279	8.23%
Cd 226.502†	4.4	0.00004 mg/L	0.000064	0.00004 mg/L	0.000064	158.71%
Ti 334.940†	429.4	0.00096 mg/L	0.000152	0.00096 mg/L	0.000152	15.73%
Ca 227.546†	2736.6	14.033 mg/L	0.2293	14.033 mg/L	0.2293	1.63%
Na 589.592†	86947.1	17.879 mg/L	0.3434	17.879 mg/L	0.3434	1.92%
K 766.490†	2434.5	2.3149 mg/L	0.09354	2.3149 mg/L	0.09354	4.04%

Sequence No.: 80

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 12:40:23 PM

Data Type: Reprocessed on 8/30/2012 2:00:29 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1770249.6	93.276 %		1.0387			1.11%
Lu 261.542	1155576.6	94.21 %		1.106			1.17%
Ag 328.068†	204373.7	1.1804 mg/L		0.01009	1.1804 mg/L	0.01009	0.85%
QC value within limits for Ag 328.068		Recovery = 94.43%					
Al 308.215†	191239.7	9.4014 mg/L		0.08277	9.4014 mg/L	0.08277	0.88%
QC value within limits for Al 308.215		Recovery = 94.01%					
As 188.979†	385.7	0.46804 mg/L		0.006063	0.46804 mg/L	0.006063	1.30%
QC value within limits for As 188.979		Recovery = 93.61%					
Ba 233.527†	838963.3	9.7297 mg/L		0.02413	9.7297 mg/L	0.02413	0.25%
QC value within limits for Ba 233.527		Recovery = 97.30%					
Be 313.107†	596240.0	0.23746 mg/L		0.000677	0.23746 mg/L	0.000677	0.29%
QC value within limits for Be 313.107		Recovery = 94.99%					
Co 228.616†	88643.5	2.4652 mg/L		0.02230	2.4652 mg/L	0.02230	0.90%
QC value within limits for Co 228.616		Recovery = 98.61%					
Cr 267.716†	65896.9	0.93184 mg/L		0.008624	0.93184 mg/L	0.008624	0.93%
QC value within limits for Cr 267.716		Recovery = 93.18%					
Cu 324.752†	254543.2	1.1497 mg/L		0.00668	1.1497 mg/L	0.00668	0.58%
QC value within limits for Cu 324.752		Recovery = 91.98%					
Fe 273.955†	116823.4	4.8324 mg/L		0.03984	4.8324 mg/L	0.03984	0.82%
QC value within limits for Fe 273.955		Recovery = 96.65%					
Mg 279.077†	421726.2	24.063 mg/L		0.1343	24.063 mg/L	0.1343	0.56%
QC value within limits for Mg 279.077		Recovery = 96.25%					
Mn 257.610†	1421892.5	2.4329 mg/L		0.00800	2.4329 mg/L	0.00800	0.33%
QC value within limits for Mn 257.610		Recovery = 97.31%					
Ni 231.604†	72060.4	2.4182 mg/L		0.02003	2.4182 mg/L	0.02003	0.83%
QC value within limits for Ni 231.604		Recovery = 96.73%					
Pb 220.353†	2402.4	0.47137 mg/L		0.007190	0.47137 mg/L	0.007190	1.53%
QC value within limits for Pb 220.353		Recovery = 94.27%					
Sb 206.836†	561.4	0.46931 mg/L		0.005923	0.46931 mg/L	0.005923	1.26%
QC value within limits for Sb 206.836		Recovery = 93.86%					
Se 196.026†	226.5	0.45604 mg/L		0.010089	0.45604 mg/L	0.010089	2.21%
QC value within limits for Se 196.026		Recovery = 91.21%					
Tl 190.801	395.0	0.45228 mg/L		0.007666	0.45228 mg/L	0.007666	1.69%
QC value within limits for Tl 190.801		Recovery = 90.46%					
V 292.402†	289145.4	2.3627 mg/L		0.02098	2.3627 mg/L	0.02098	0.89%
QC value within limits for V 292.402		Recovery = 94.51%					
Zn 206.200†	51448.1	2.4150 mg/L		0.02077	2.4150 mg/L	0.02077	0.86%
QC value within limits for Zn 206.200		Recovery = 96.60%					
Cd 226.502†	12956.4	0.23258 mg/L		0.002613	0.23258 mg/L	0.002613	1.12%
QC value within limits for Cd 226.502		Recovery = 93.03%					
Ti 334.940†	252248.3	0.45226 mg/L		0.000521	0.45226 mg/L	0.000521	0.12%
QC value within limits for Ti 334.940		Recovery = Not calculated					

Ca 227.546† 4637.3 22.962 mg/L 0.3156 22.962 mg/L 0.3156 1.37%
 QC value within limits for Ca 227.546 Recovery = 91.85%
 Na 589.592† 117551.7 24.172 mg/L 0.3353 24.172 mg/L 0.3353 1.39%
 QC value within limits for Na 589.592 Recovery = 96.69%
 K 766.490† 26004.1 24.727 mg/L 0.3654 24.727 mg/L 0.3654 1.48%
 QC value within limits for K 766.490 Recovery = 98.91%
 All analyte(s) passed QC.

Sequence No.: 81

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 12:44:06 PM

Data Type: Reprocessed on 8/30/2012 2:00:29 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1819893.3	95.892 %		0.8536			0.89%
Lu 261.542	1181640.5	96.33 %		0.824			0.86%
Ag 328.068†	266.7	0.00154 mg/L		0.001108	0.00154 mg/L	0.001108	72.10%
QC value within limits for Ag 328.068							Not calculated
Al 308.215†	-187.7	-0.00925 mg/L		0.004024	-0.00925 mg/L	0.004024	43.52%
QC value within limits for Al 308.215							Not calculated
As 188.979†	-1.0	-0.00121 mg/L		0.005050	-0.00121 mg/L	0.005050	415.91%
QC value within limits for As 188.979							Not calculated
Ba 233.527†	44.2	0.00051 mg/L		0.000121	0.00051 mg/L	0.000121	23.66%
QC value within limits for Ba 233.527							Not calculated
Be 313.107†	54.9	0.00002 mg/L		0.000018	0.00002 mg/L	0.000018	82.83%
QC value within limits for Be 313.107							Not calculated
Co 228.616†	7.2	0.00020 mg/L		0.000102	0.00020 mg/L	0.000102	50.84%
QC value within limits for Co 228.616							Not calculated
Cr 267.716†	-3.4	-0.00005 mg/L		0.000084	-0.00005 mg/L	0.000084	176.17%
QC value within limits for Cr 267.716							Not calculated
Cu 324.752†	76.3	0.00034 mg/L		0.000218	0.00034 mg/L	0.000218	63.37%
QC value within limits for Cu 324.752							Not calculated
Fe 273.955†	18.4	0.00076 mg/L		0.000236	0.00076 mg/L	0.000236	31.06%
QC value within limits for Fe 273.955							Not calculated
Mg 279.077†	-30.1	-0.00172 mg/L		0.001321	-0.00172 mg/L	0.001321	76.87%
QC value within limits for Mg 279.077							Not calculated
Mn 257.610†	130.5	0.00022 mg/L		0.000047	0.00022 mg/L	0.000047	20.86%
QC value within limits for Mn 257.610							Not calculated
Ni 231.604†	3.4	0.00011 mg/L		0.000247	0.00011 mg/L	0.000247	215.70%
QC value within limits for Ni 231.604							Not calculated
Pb 220.353†	-1.9	-0.00037 mg/L		0.000416	-0.00037 mg/L	0.000416	112.08%
QC value within limits for Pb 220.353							Not calculated
Sb 206.836†	0.9	0.00080 mg/L		0.001887	0.00080 mg/L	0.001887	237.19%
QC value within limits for Sb 206.836							Not calculated
Se 196.026†	1.0	0.00206 mg/L		0.004339	0.00206 mg/L	0.004339	210.63%
QC value within limits for Se 196.026							Not calculated
Tl 190.801	0.0	0.00005 mg/L		0.003944	0.00005 mg/L	0.003944	>999.9%
QC value within limits for Tl 190.801							Not calculated
V 292.402†	56.2	0.00046 mg/L		0.000075	0.00046 mg/L	0.000075	16.30%
QC value within limits for V 292.402							Not calculated
Zn 206.200†	0.6	0.00003 mg/L		0.000263	0.00003 mg/L	0.000263	967.85%
QC value within limits for Zn 206.200							Not calculated
Cd 226.502†	2.4	0.00004 mg/L		0.000035	0.00004 mg/L	0.000035	80.78%
QC value within limits for Cd 226.502							Not calculated
Ti 334.940†	62.2	0.00011 mg/L		0.000097	0.00011 mg/L	0.000097	86.24%
QC value within limits for Ti 334.940							Not calculated
Ca 227.546†	9.9	0.05096 mg/L		0.017337	0.05096 mg/L	0.017337	34.02%
QC value within limits for Ca 227.546							Not calculated
Na 589.592†	10.7	0.00220 mg/L		0.008647	0.00220 mg/L	0.008647	392.67%
QC value within limits for Na 589.592							Not calculated
K 766.490†	15.7	0.01490 mg/L		0.074454	0.01490 mg/L	0.074454	499.58%
QC value within limits for K 766.490							Not calculated

All analyte(s) passed QC.

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Reprocessing Begun

Logged In Analyst: mitOptima3

Technique: ICP Continuous

Results Data Set (original): B12083002

Results Library (original): C:\pe\Administrator\Results\Results.mdb

Results Data Set (reprocessed): B12083002A

Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1

Sample ID: S0

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 2:08:57 PM

Data Type: Reprocessed on 8/31/2012 8:25:46 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1746334.4	6706.33	0.38%	100.00	%
Lu 261.542	1135011.8	5067.24	0.45%	100.0	%
Ag 328.068†	-2281.4	62.94	2.76%	[0.00]	mg/L
Al 308.215†	2261.1	45.89	2.03%	[0.00]	mg/L
As 188.979†	-1.4	0.27	19.07%	[0.00]	mg/L
Ba 233.527†	-63.4	4.46	7.03%	[0.00]	mg/L
Be 313.107†	-1195.9	28.99	2.42%	[0.00]	mg/L
Co 228.616†	-12.1	2.06	17.07%	[0.00]	mg/L
Cr 267.716†	47.1	29.44	62.57%	[0.00]	mg/L
Cu 324.752†	3588.1	69.97	1.95%	[0.00]	mg/L
Fe 273.955†	-126.2	4.67	3.70%	[0.00]	mg/L
Mg 279.077†	-906.2	23.72	2.62%	[0.00]	mg/L
Mn 257.610†	-222.6	46.47	20.88%	[0.00]	mg/L
Ni 231.604†	-37.9	9.41	24.82%	[0.00]	mg/L
Pb 220.353†	20.4	7.30	35.75%	[0.00]	mg/L
Sb 206.836†	32.6	0.85	2.61%	[0.00]	mg/L
Se 196.026†	-3.8	3.98	105.10%	[0.00]	mg/L
Tl 190.801†	-8.6	1.03	11.95%	[0.00]	mg/L
V 292.402†	-31.1	40.80	131.21%	[0.00]	mg/L
Zn 206.200†	26.6	2.68	10.08%	[0.00]	mg/L
Cd 226.502†	-49.2	2.56	5.19%	[0.00]	mg/L
Ti 334.940†	-73.8	19.89	26.94%	[0.00]	mg/L
Ca 227.546†	167.8	10.28	6.12%	[0.00]	mg/L
Na 589.592†	-493.2	63.58	12.89%	[0.00]	mg/L
K 766.490†	711.4	53.04	7.46%	[0.00]	mg/L

Sequence No.: 2

Sample ID: S1

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 8/30/2012 2:12:36 PM

Data Type: Reprocessed on 8/31/2012 8:25:48 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1686861.8	22221.18	1.32%	96.594	%
Lu 261.542	1103264.0	14688.69	1.33%	97.20	%
Ag 328.068†	394954.2	6119.69	1.55%	[2.5]	mg/L
Al 308.215†	372993.4	5106.63	1.37%	[20]	mg/L
As 188.979†	758.0	15.29	2.02%	[1]	mg/L
Ba 233.527†	1547373.5	20038.82	1.30%	[20]	mg/L
Be 313.107†	1163431.4	15529.36	1.33%	[0.5]	mg/L
Co 228.616†	164623.7	5037.36	3.06%	[5]	mg/L
Cr 267.716†	128545.1	4056.35	3.16%	[2]	mg/L
Cu 324.752†	498236.1	7669.29	1.54%	[2.5]	mg/L
Fe 273.955†	222044.2	6662.07	3.00%	[10]	mg/L

Mg 279.077†	798959.3	9703.49	1.21%	[50]	mg/L
Mn 257.610†	2694245.3	31769.05	1.18%	[5]	mg/L
Ni 231.604†	135638.0	4146.31	3.06%	[5]	mg/L
Pb 220.353†	4690.7	86.87	1.85%	[1]	mg/L
Sb 206.836†	1016.4	27.96	2.75%	[1]	mg/L
Se 196.026†	446.2	8.71	1.95%	[1]	mg/L
Tl 190.801†	602.0	13.51	2.24%	[1]	mg/L
V 292.402†	558878.5	7542.38	1.35%	[5]	mg/L
Zn 206.200†	97904.2	3147.97	3.22%	[5]	mg/L
Cd 226.502†	25462.4	733.86	2.88%	[0.5]	mg/L
Ti 334.940†	481234.3	8175.61	1.70%	[1]	mg/L
Ca 227.546†	8952.2	166.94	1.86%	[50]	mg/L
Na 589.592†	224877.9	2128.26	0.95%	[50]	mg/L
K 766.490†	49279.7	530.25	1.08%	[50]	mg/L

Sequence No.: 3

Sample ID: S2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 8/30/2012 2:16:22 PM

Data Type: Reprocessed on 8/31/2012 8:25:49 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1712414.7	10125.95	0.59%	98.058	%
Lu 261.542	1120034.4	5689.25	0.51%	98.68	%
Ag 328.068†	194440.4	754.71	0.39%	[1.25]	mg/L
Al 308.215†	183098.5	583.96	0.32%	[10]	mg/L
As 188.979†	378.4	6.20	1.64%	[0.5]	mg/L
Ba 233.527†	794462.4	2390.25	0.30%	[10]	mg/L
Be 313.107†	585278.4	1345.90	0.23%	[0.25]	mg/L
Co 228.616†	82865.1	361.95	0.44%	[2.5]	mg/L
Cr 267.716†	64053.1	257.74	0.40%	[1]	mg/L
Cu 324.752†	241286.3	480.55	0.20%	[1.25]	mg/L
Fe 273.955†	111485.8	533.49	0.48%	[5]	mg/L
Mg 279.077†	404750.2	1526.19	0.38%	[25]	mg/L
Mn 257.610†	1374791.7	3892.00	0.28%	[2.5]	mg/L
Ni 231.604†	68360.6	412.42	0.60%	[2.5]	mg/L
Pb 220.353†	2373.5	15.15	0.64%	[0.5]	mg/L
Sb 206.836†	507.7	2.70	0.53%	[0.5]	mg/L
Se 196.026†	226.5	2.61	1.15%	[0.5]	mg/L
Tl 190.801†	303.2	4.69	1.55%	[0.5]	mg/L
V 292.402†	275137.4	1034.88	0.38%	[2.5]	mg/L
Zn 206.200†	49343.5	322.26	0.65%	[2.5]	mg/L
Cd 226.502†	12788.8	82.18	0.64%	[0.25]	mg/L
Ti 334.940†	233578.4	892.55	0.38%	[0.5]	mg/L
Ca 227.546†	4436.4	39.75	0.90%	[25]	mg/L
Na 589.592†	112425.6	107.81	0.10%	[25]	mg/L
K 766.490†	24615.7	79.67	0.32%	[25]	mg/L

Sequence No.: 4

Sample ID: S3

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 8/30/2012 2:20:05 PM

Data Type: Reprocessed on 8/31/2012 8:25:49 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1734739.4	16224.56	0.94%	99.336	%
Lu 261.542	1127675.1	10140.63	0.90%	99.35	%
Ag 328.068†	4061.9	97.26	2.39%	[0.025]	mg/L
Al 308.215†	3631.8	19.55	0.54%	[0.2]	mg/L
As 188.979†	4.8	1.53	31.73%	[0.01]	mg/L
Ba 233.527†	16657.1	142.37	0.85%	[0.2]	mg/L

Be 313.107†	11692.9	97.01	0.83%	[0.005]	mg/L
Co 228.616†	1702.5	14.28	0.84%	[0.05]	mg/L
Cr 267.716†	1326.9	44.78	3.38%	[0.02]	mg/L
Cu 324.752†	4796.1	119.66	2.49%	[0.025]	mg/L
Fe 273.955†	2334.2	68.35	2.93%	[0.1]	mg/L
Mg 279.077†	8363.9	98.36	1.18%	[0.5]	mg/L
Mn 257.610†	28742.1	288.77	1.00%	[0.05]	mg/L
Ni 231.604†	1418.4	11.15	0.79%	[0.05]	mg/L
Pb 220.353†	53.3	7.25	13.61%	[0.01]	mg/L
Sb 206.836†	16.2	3.77	23.21%	[0.01]	mg/L
Se 196.026†	4.3	2.37	55.09%	[0.01]	mg/L
Tl 190.801†	7.6	0.62	8.14%	[0.01]	mg/L
V 292.402†	5644.3	63.22	1.12%	[0.05]	mg/L
Zn 206.200†	1035.7	5.69	0.55%	[0.05]	mg/L
Cd 226.502†	254.7	1.40	0.55%	[0.005]	mg/L
Ti 334.940†	4902.7	18.17	0.37%	[0.01]	mg/L
Ca 227.546†	74.7	14.82	19.85%	[0.5]	mg/L
Na 589.592†	2322.1	127.72	5.50%	[0.5]	mg/L
K 766.490†	489.4	78.07	15.95%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	157500	0.00000	0.999981	
Al 308.215	3	Lin Thru 0	0.0	18580	0.00000	0.999973	
As 188.979	3	Lin Thru 0	0.0	757.8	0.00000	0.999995	
Ba 233.527	3	Lin Thru 0	0.0	77780	0.00000	0.999943	
Be 313.107	3	Lin Thru 0	0.0	2330000	0.00000	0.999997	
Co 228.616	3	Lin Thru 0	0.0	32970	0.00000	0.999996	
Cr 267.716	3	Lin Thru 0	0.0	64230	0.00000	0.999999	
Cu 324.752	3	Lin Thru 0	0.0	198000	0.00000	0.999920	
Fe 273.955	3	Lin Thru 0	0.0	22220	0.00000	0.999999	
Mg 279.077	3	Lin Thru 0	0.0	16020	0.00000	0.999986	
Mn 257.610	3	Lin Thru 0	0.0	541100	0.00000	0.999966	
Ni 231.604	3	Lin Thru 0	0.0	27170	0.00000	0.999995	
Pb 220.353	3	Lin Thru 0	0.0	4702	0.00000	0.999988	
Sb 206.836	3	Lin Thru 0	0.0	1016	0.00000	0.999986	
Se 196.026	3	Lin Thru 0	0.0	447.6	0.00000	0.999981	
Tl 190.801	3	Lin Thru 0	0.0	602.9	0.00000	0.999993	
V 292.402	3	Lin Thru 0	0.0	111400	0.00000	0.999981	
Zn 206.200	3	Lin Thru 0	0.0	19610	0.00000	0.999995	
Cd 226.502	3	Lin Thru 0	0.0	50970	0.00000	0.999998	
Ti 334.940	3	Lin Thru 0	0.0	478400	0.00000	0.999931	
Ca 227.546	3	Lin Thru 0	0.0	178.7	0.00000	0.999993	
Na 589.592	3	Lin Thru 0	0.0	4497	0.00000	1.000000	
K 766.490	3	Lin Thru 0	0.0	985.4	0.00000	1.000000	

=====

Sequence No.: 5

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 2:23:48 PM

Data Type: Reprocessed on 8/31/2012 8:25:50 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1689454.6	96.743	%	1.1618			1.20%
Lu 261.542	1103890.8	97.26	%	1.358			1.40%
Ag 328.068†	196560.9	1.2520	mg/L	0.03024	1.2520 mg/L	0.03024	2.42%
QC value within limits for Ag 328.068 Recovery = 100.16%							
Al 308.215†	184719.7	9.9304	mg/L	0.22370	9.9304 mg/L	0.22370	2.25%
QC value within limits for Al 308.215 Recovery = 99.30%							
As 188.979†	369.7	0.49677	mg/L	0.007339	0.49677 mg/L	0.007339	1.48%
QC value within limits for As 188.979 Recovery = 99.35%							
Ba 233.527†	807538.6	10.385	mg/L	0.0366	10.385 mg/L	0.0366	0.35%
QC value within limits for Ba 233.527 Recovery = 103.85%							
Be 313.107†	576776.9	0.24858	mg/L	0.000581	0.24858 mg/L	0.000581	0.23%

Co	QC value within limits for Be 313.107	Recovery = 99.43%				
	228.616†	85467.7	2.5907 mg/L	0.06185	2.5907 mg/L	0.06185 2.39%
Cr	QC value within limits for Co 228.616	Recovery = 103.63%				
	267.716†	63705.7	0.99211 mg/L	0.023604	0.99211 mg/L	0.023604 2.38%
Cu	QC value within limits for Cr 267.716	Recovery = 99.21%				
	324.752†	243803.8	1.2323 mg/L	0.03065	1.2323 mg/L	0.03065 2.49%
Fe	QC value within limits for Cu 324.752	Recovery = 98.58%				
	273.955†	112738.2	5.0771 mg/L	0.12340	5.0771 mg/L	0.12340 2.43%
Mg	QC value within limits for Fe 273.955	Recovery = 101.54%				
	279.077†	406630.2	25.378 mg/L	0.0218	25.378 mg/L	0.0218 0.09%
Mn	QC value within limits for Mg 279.077	Recovery = 101.51%				
	257.610†	1375075.8	2.5410 mg/L	0.00536	2.5410 mg/L	0.00536 0.21%
Ni	QC value within limits for Mn 257.610	Recovery = 101.64%				
	231.604†	69661.6	2.5633 mg/L	0.06313	2.5633 mg/L	0.06313 2.46%
Pb	QC value within limits for Ni 231.604	Recovery = 102.53%				
	220.353†	2357.0	0.50333 mg/L	0.006393	0.50333 mg/L	0.006393 1.27%
Sb	QC value within limits for Pb 220.353	Recovery = 100.67%				
	206.836†	587.3	0.56158 mg/L	0.011668	0.56158 mg/L	0.011668 2.08%
Se	QC value greater than the upper limit for Sb 206.836	Recovery = 112.32%				
	196.026†	221.2	0.50003 mg/L	0.007559	0.50003 mg/L	0.007559 1.51%
Tl	QC value within limits for Se 196.026	Recovery = 100.01%				
	190.801†	301.6	0.47621 mg/L	0.009537	0.47621 mg/L	0.009537 2.00%
V	QC value within limits for Tl 190.801	Recovery = 95.24%				
	292.402†	279449.0	2.5091 mg/L	0.05934	2.5091 mg/L	0.05934 2.36%
Zn	QC value within limits for V 292.402	Recovery = 100.37%				
	206.200†	49915.8	2.5508 mg/L	0.05994	2.5508 mg/L	0.05994 2.35%
Cd	QC value within limits for Zn 206.200	Recovery = 102.03%				
	226.502†	12587.7	0.24717 mg/L	0.005301	0.24717 mg/L	0.005301 2.14%
Ti	QC value within limits for Cd 226.502	Recovery = 98.87%				
	334.940†	241773.2	0.50510 mg/L	0.003465	0.50510 mg/L	0.003465 0.69%
Ca	QC value within limits for Ti 334.940	Recovery = Not calculated				
	227.546†	4496.4	24.293 mg/L	0.3045	24.293 mg/L	0.3045 1.25%
Na	QC value within limits for Ca 227.546	Recovery = 97.17%				
	589.592†	112659.3	25.050 mg/L	0.6589	25.050 mg/L	0.6589 2.63%
K	QC value within limits for Na 589.592	Recovery = 100.20%				
	766.490†	24397.7	24.759 mg/L	0.7714	24.759 mg/L	0.7714 3.12%
	QC value within limits for K 766.490	Recovery = 99.04%				
	QC Failed. Continue with analysis.					

Sequence No.: 6

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 2:27:32 PM

Data Type: Reprocessed on 8/31/2012 8:25:51 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1771042.3	101.41 %	1.089			1.07%
Lu 261.542	1150402.4	101.4 %	1.21			1.19%
Ag 328.068†	33.8	0.00021 mg/L	0.000329	0.00021 mg/L	0.000329	153.46%
	QC value within limits for Ag 328.068 Recovery = Not calculated					
Al 308.215†	-106.9	-0.00574 mg/L	0.002926	-0.00574 mg/L	0.002926	50.96%
	QC value within limits for Al 308.215 Recovery = Not calculated					
As 188.979†	0.7	0.00097 mg/L	0.006828	0.00097 mg/L	0.006828	705.93%
	QC value within limits for As 188.979 Recovery = Not calculated					
Ba 233.527†	34.7	0.00045 mg/L	0.000127	0.00045 mg/L	0.000127	28.52%
	QC value within limits for Ba 233.527 Recovery = Not calculated					
Be 313.107†	82.6	0.00004 mg/L	0.000026	0.00004 mg/L	0.000026	72.12%
	QC value within limits for Be 313.107 Recovery = Not calculated					
Co 228.616†	2.2	0.00007 mg/L	0.000073	0.00007 mg/L	0.000073	111.31%
	QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	10.0	0.00016 mg/L	0.000054	0.00016 mg/L	0.000054	34.34%
	QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-97.9	-0.00049 mg/L	0.000536	-0.00049 mg/L	0.000536	108.50%
	QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 273.955†	-5.7	-0.00026 mg/L	0.000403	-0.00026 mg/L	0.000403	157.51%
	QC value within limits for Fe 273.955 Recovery = Not calculated					

Mg 279.077†	19.0	0.00119 mg/L	0.004970	0.00119 mg/L	0.004970	418.57%
QC value within limits for Mg 279.077	Recovery = Not calculated					
Mn 257.610†	37.3	0.00007 mg/L	0.000046	0.00007 mg/L	0.000046	66.85%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Ni 231.604†	11.5	0.00042 mg/L	0.000283	0.00042 mg/L	0.000283	66.51%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	4.5	0.00096 mg/L	0.001791	0.00096 mg/L	0.001791	186.01%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	0.8	0.00078 mg/L	0.003407	0.00078 mg/L	0.003407	436.68%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	0.8	0.00173 mg/L	0.008681	0.00173 mg/L	0.008681	501.29%
QC value within limits for Se 196.026	Recovery = Not calculated					
Tl 190.801†	-3.4	-0.00562 mg/L	0.002292	-0.00562 mg/L	0.002292	40.77%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	-13.6	-0.00012 mg/L	0.000343	-0.00012 mg/L	0.000343	281.38%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 206.200†	9.1	0.00046 mg/L	0.000300	0.00046 mg/L	0.000300	64.97%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Cd 226.502†	1.9	0.00004 mg/L	0.000034	0.00004 mg/L	0.000034	90.05%
QC value within limits for Cd 226.502	Recovery = Not calculated					
Ti 334.940†	50.6	0.00011 mg/L	0.000110	0.00011 mg/L	0.000110	103.81%
QC value within limits for Ti 334.940	Recovery = Not calculated					
Ca 227.546†	-10.0	-0.05623 mg/L	0.050543	-0.05623 mg/L	0.050543	89.88%
QC value within limits for Ca 227.546	Recovery = Not calculated					
Na 589.592†	8.5	0.00189 mg/L	0.009111	0.00189 mg/L	0.009111	482.12%
QC value within limits for Na 589.592	Recovery = Not calculated					
K 766.490†	-21.9	-0.02226 mg/L	0.142749	-0.02226 mg/L	0.142749	641.37%
QC value within limits for K 766.490	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: LLICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 8/30/2012 2:31:13 PM

Data Type: Reprocessed on 8/31/2012 8:25:52 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1795479.2	102.81 %		1.539			1.50%
Lu 261.542	1168933.2	103.0 %		1.60			1.55%
Ag 328.068†	4631.3	0.02948 mg/L		0.000660	0.02948 mg/L	0.000660	2.24%
QC value within limits for Ag 328.068	Recovery = 98.27%						
Al 308.215†	3370.7	0.18114 mg/L		0.006064	0.18114 mg/L	0.006064	3.35%
QC value within limits for Al 308.215	Recovery = 90.57%						
As 188.979†	15.2	0.02020 mg/L		0.006222	0.02020 mg/L	0.006222	30.80%
QC value within limits for As 188.979	Recovery = 101.00%						
Ba 233.527†	15915.7	0.20468 mg/L		0.003385	0.20468 mg/L	0.003385	1.65%
QC value within limits for Ba 233.527	Recovery = 102.34%						
Be 313.107†	11123.9	0.00481 mg/L		0.000034	0.00481 mg/L	0.000034	0.70%
QC value within limits for Be 313.107	Recovery = 96.21%						
Co 228.616†	1661.3	0.05034 mg/L		0.000660	0.05034 mg/L	0.000660	1.31%
QC value within limits for Co 228.616	Recovery = 100.67%						
Cr 267.716†	1248.7	0.01945 mg/L		0.000513	0.01945 mg/L	0.000513	2.64%
QC value within limits for Cr 267.716	Recovery = 97.23%						
Cu 324.752†	5434.7	0.02747 mg/L		0.000730	0.02747 mg/L	0.000730	2.66%
QC value within limits for Cu 324.752	Recovery = 91.58%						
Fe 273.955†	4305.5	0.19382 mg/L		0.005001	0.19382 mg/L	0.005001	2.58%
QC value within limits for Fe 273.955	Recovery = 96.91%						
Mg 279.077†	8068.1	0.50353 mg/L		0.011101	0.50353 mg/L	0.011101	2.20%
QC value within limits for Mg 279.077	Recovery = 100.71%						
Mn 257.610†	27231.1	0.05032 mg/L		0.000877	0.05032 mg/L	0.000877	1.74%
QC value within limits for Mn 257.610	Recovery = 100.64%						
Ni 231.604†	1396.2	0.05137 mg/L		0.000477	0.05137 mg/L	0.000477	0.93%
QC value within limits for Ni 231.604	Recovery = 102.74%						
Pb 220.353†	46.4	0.00991 mg/L		0.000663	0.00991 mg/L	0.000663	6.70%
QC value within limits for Pb 220.353	Recovery = 99.07%						
Sb 206.836†	18.9	0.01829 mg/L		0.003321	0.01829 mg/L	0.003321	18.15%

QC value within limits for Sb 206.836 Recovery = 91.47%
 Se 196.026† 14.8 0.03329 mg/L 0.013180 0.03329 mg/L 0.013180 39.60%
 QC value within limits for Se 196.026 Recovery = 110.96%
 Tl 190.801† 10.0 0.01617 mg/L 0.001243 0.01617 mg/L 0.001243 7.69%
 QC value within limits for Tl 190.801 Recovery = 80.87%
 V 292.402† 5367.9 0.04819 mg/L 0.001027 0.04819 mg/L 0.001027 2.13%
 QC value within limits for V 292.402 Recovery = 96.38%
 Zn 206.200† 985.9 0.05040 mg/L 0.000966 0.05040 mg/L 0.000966 1.92%
 QC value within limits for Zn 206.200 Recovery = 100.80%
 Cd 226.502† 248.9 0.00488 mg/L 0.000129 0.00488 mg/L 0.000129 2.64%
 QC value within limits for Cd 226.502 Recovery = 97.61%
 Ti 334.940† 8897.5 0.01859 mg/L 0.000176 0.01859 mg/L 0.000176 0.94%
 QC value within limits for Ti 334.940 Recovery = 92.97%
 Ca 227.546† 118.2 0.64346 mg/L 0.044470 0.64346 mg/L 0.044470 6.91%
 QC value within limits for Ca 227.546 Recovery = 80.43%
 Na 589.592† 4370.2 0.97171 mg/L 0.020093 0.97171 mg/L 0.020093 2.07%
 QC value within limits for Na 589.592 Recovery = 97.17%
 K 766.490† 939.4 0.95336 mg/L 0.034392 0.95336 mg/L 0.034392 3.61%
 QC value within limits for K 766.490 Recovery = 95.34%
 All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICSA

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 8/30/2012 2:34:52 PM

Data Type: Reprocessed on 8/31/2012 8:25:52 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1538250.8	88.085 %	1.4224			1.61%
Lu 261.542	1001131.6	88.20 %	1.479			1.68%
Ag 328.068†	177.6	-0.00394 mg/L	0.001142	-0.00394 mg/L	0.001142	29.02%
QC value within limits for Ag 328.068						Not calculated
Al 308.215†	9909953.8	533.18 mg/L	6.626	533.18 mg/L	6.626	1.24%
QC value within limits for Al 308.215						106.64%
As 188.979†	-28.7	-0.00146 mg/L	0.006549	-0.00146 mg/L	0.006549	450.04%
QC value within limits for As 188.979						Not calculated
Ba 233.527†	5.8	0.00005 mg/L	0.000016	0.00005 mg/L	0.000016	32.01%
QC value within limits for Ba 233.527						Not calculated
Be 313.107†	-200.7	-0.00011 mg/L	0.000032	-0.00011 mg/L	0.000032	28.87%
QC value within limits for Be 313.107						Not calculated
Co 228.616†	130.3	-0.00058 mg/L	0.000241	-0.00058 mg/L	0.000241	41.88%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	190.5	0.00296 mg/L	0.000051	0.00296 mg/L	0.000051	1.72%
QC value within limits for Cr 267.716						Not calculated
Cu 324.752†	-2755.9	0.00349 mg/L	0.000614	0.00349 mg/L	0.000614	17.59%
QC value within limits for Cu 324.752						Not calculated
Fe 273.955†	4194198.0	188.73 mg/L	1.284	188.73 mg/L	1.284	0.68%
QC value within limits for Fe 273.955						94.37%
Mg 279.077†	8061595.9	503.18 mg/L	5.929	503.18 mg/L	5.929	1.18%
QC value within limits for Mg 279.077						100.64%
Mn 257.610†	-61.2	-0.00514 mg/L	0.000179	-0.00514 mg/L	0.000179	3.48%
QC value within limits for Mn 257.610						Not calculated
Ni 231.604†	-1.5	-0.00219 mg/L	0.000425	-0.00219 mg/L	0.000425	19.38%
QC value within limits for Ni 231.604						Not calculated
Pb 220.353†	-219.4	0.00441 mg/L	0.001313	0.00441 mg/L	0.001313	29.76%
QC value within limits for Pb 220.353						Not calculated
Sb 206.836†	50.2	-0.00834 mg/L	0.002158	-0.00834 mg/L	0.002158	25.87%
QC value within limits for Sb 206.836						Not calculated
Se 196.026†	-36.0	0.01484 mg/L	0.027443	0.01484 mg/L	0.027443	184.91%
QC value within limits for Se 196.026						Not calculated
Tl 190.801†	-15.6	0.00984 mg/L	0.006383	0.00984 mg/L	0.006383	64.87%
QC value within limits for Tl 190.801						Not calculated
V 292.402†	-1871.0	-0.01095 mg/L	0.000460	-0.01095 mg/L	0.000460	4.20%
QC value within limits for V 292.402						Not calculated
Zn 206.200†	57.1	0.01235 mg/L	0.000189	0.01235 mg/L	0.000189	1.53%
QC value within limits for Zn 206.200						Not calculated

Cd 226.502† 754.1 -0.00078 mg/L 0.000154 -0.00078 mg/L 0.000154 19.65%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† -6325.4 -0.01309 mg/L 0.000114 -0.01309 mg/L 0.000114 0.87%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 98958.7 551.93 mg/L 4.385 551.93 mg/L 4.385 0.79%
 QC value within limits for Ca 227.546 Recovery = 110.39%
 Na 589.592† 174.6 0.03883 mg/L 0.017348 0.03883 mg/L 0.017348 44.68%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† 113.1 0.11478 mg/L 0.062567 0.11478 mg/L 0.062567 54.51%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 9

Sample ID: ICSAB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 8/30/2012 2:38:47 PM

Data Type: Reprocessed on 8/31/2012 8:25:53 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1522233.0	87.167 %		0.1906			0.22%
Lu 261.542	991265.2	87.34 %		0.208			0.24%
Ag 328.068†	35497.7	0.22117 mg/L		0.000489	0.22117 mg/L	0.000489	0.22%
QC value within limits for Ag 328.068			Recovery = 110.58%				
Al 308.215†	10021610.0	539.18 mg/L		2.378	539.18 mg/L	2.378	0.44%
QC value within limits for Al 308.215			Recovery = 107.84%				
As 188.979†	54.7	0.11290 mg/L		0.005507	0.11290 mg/L	0.005507	4.88%
QC value within limits for As 188.979			Recovery = 112.90%				
Ba 233.527†	41767.4	0.53768 mg/L		0.001767	0.53768 mg/L	0.001767	0.33%
QC value within limits for Ba 233.527			Recovery = 107.54%				
Be 313.107†	1193785.6	0.51241 mg/L		0.001086	0.51241 mg/L	0.001086	0.21%
QC value within limits for Be 313.107			Recovery = 102.48%				
Co 228.616†	16231.3	0.48763 mg/L		0.001650	0.48763 mg/L	0.001650	0.34%
QC value within limits for Co 228.616			Recovery = 97.53%				
Cr 267.716†	33190.8	0.51681 mg/L		0.000906	0.51681 mg/L	0.000906	0.18%
QC value within limits for Cr 267.716			Recovery = 103.36%				
Cu 324.752†	106235.0	0.55403 mg/L		0.001066	0.55403 mg/L	0.001066	0.19%
QC value within limits for Cu 324.752			Recovery = 110.81%				
Fe 273.955†	4204920.6	189.22 mg/L		0.482	189.22 mg/L	0.482	0.25%
QC value within limits for Fe 273.955			Recovery = 94.61%				
Mg 279.077†	8128684.4	507.36 mg/L		2.720	507.36 mg/L	2.720	0.54%
QC value within limits for Mg 279.077			Recovery = 101.47%				
Mn 257.610†	277242.3	0.50728 mg/L		0.001274	0.50728 mg/L	0.001274	0.25%
QC value within limits for Mn 257.610			Recovery = 101.46%				
Ni 231.604†	25890.5	0.95069 mg/L		0.003840	0.95069 mg/L	0.003840	0.40%
QC value within limits for Ni 231.604			Recovery = 95.07%				
Pb 220.353†	2243.2	0.52886 mg/L		0.002370	0.52886 mg/L	0.002370	0.45%
QC value within limits for Pb 220.353			Recovery = 105.77%				
Sb 206.836†	756.4	0.67696 mg/L		0.004270	0.67696 mg/L	0.004270	0.63%
QC value within limits for Sb 206.836			Recovery = 112.83%				
Se 196.026†	194.6	0.53121 mg/L		0.016551	0.53121 mg/L	0.016551	3.12%
QC value within limits for Se 196.026			Recovery = 106.24%				
Tl 190.801†	39.8	0.09689 mg/L		0.007174	0.09689 mg/L	0.007174	7.40%
QC value within limits for Tl 190.801			Recovery = 96.89%				
V 292.402†	56257.4	0.51172 mg/L		0.000855	0.51172 mg/L	0.000855	0.17%
QC value within limits for V 292.402			Recovery = 102.34%				
Zn 206.200†	19091.4	0.98464 mg/L		0.004082	0.98464 mg/L	0.004082	0.41%
QC value within limits for Zn 206.200			Recovery = 98.46%				
Cd 226.502†	50102.3	0.96757 mg/L		0.002715	0.96757 mg/L	0.002715	0.28%
QC value within limits for Cd 226.502			Recovery = 96.76%				
Ti 334.940†	-6319.6	-0.01324 mg/L		0.000117	-0.01324 mg/L	0.000117	0.89%
QC value within limits for Ti 334.940			Recovery = Not calculated				
Ca 227.546†	99010.7	552.05 mg/L		0.437	552.05 mg/L	0.437	0.08%
QC value within limits for Ca 227.546			Recovery = 110.41%				
Na 589.592†	130798.3	29.083 mg/L		0.1130	29.083 mg/L	0.1130	0.39%
QC value within limits for Na 589.592			Recovery = 116.33%				
K 766.490†	28909.6	29.338 mg/L		0.2004	29.338 mg/L	0.2004	0.68%

QC value within limits for K 766.490 Recovery = 117.35%
All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 2:42:33 PM

Data Type: Reprocessed on 8/31/2012 8:25:54 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1720590.6	98.526 %	1.3702			1.39%
Lu 261.542	1124017.8	99.03 %	1.455			1.47%
Ag 328.068†	196968.1	1.2546 mg/L	0.01086	1.2546 mg/L	0.01086	0.87%
QC value within limits for Ag 328.068 Recovery = 100.37%						
Al 308.215†	185396.3	9.9668 mg/L	0.10570	9.9668 mg/L	0.10570	1.06%
QC value within limits for Al 308.215 Recovery = 99.67%						
As 188.979†	373.5	0.50172 mg/L	0.010523	0.50172 mg/L	0.010523	2.10%
QC value within limits for As 188.979 Recovery = 100.34%						
Ba 233.527†	803856.6	10.338 mg/L	0.0549	10.338 mg/L	0.0549	0.53%
QC value within limits for Ba 233.527 Recovery = 103.38%						
Be 313.107†	575373.2	0.24797 mg/L	0.001036	0.24797 mg/L	0.001036	0.42%
QC value within limits for Be 313.107 Recovery = 99.19%						
Co 228.616†	85512.1	2.5920 mg/L	0.03008	2.5920 mg/L	0.03008	1.16%
QC value within limits for Co 228.616 Recovery = 103.68%						
Cr 267.716†	63856.6	0.99446 mg/L	0.009388	0.99446 mg/L	0.009388	0.94%
QC value within limits for Cr 267.716 Recovery = 99.45%						
Cu 324.752†	245120.8	1.2389 mg/L	0.01143	1.2389 mg/L	0.01143	0.92%
QC value within limits for Cu 324.752 Recovery = 99.12%						
Fe 273.955†	113519.6	5.1123 mg/L	0.04785	5.1123 mg/L	0.04785	0.94%
QC value within limits for Fe 273.955 Recovery = 102.25%						
Mg 279.077†	406641.3	25.379 mg/L	0.0926	25.379 mg/L	0.0926	0.36%
QC value within limits for Mg 279.077 Recovery = 101.51%						
Mn 257.610†	1370393.4	2.5324 mg/L	0.01178	2.5324 mg/L	0.01178	0.47%
QC value within limits for Mn 257.610 Recovery = 101.30%						
Ni 231.604†	69756.2	2.5667 mg/L	0.02686	2.5667 mg/L	0.02686	1.05%
QC value within limits for Ni 231.604 Recovery = 102.67%						
Pb 220.353†	2351.6	0.50218 mg/L	0.006586	0.50218 mg/L	0.006586	1.31%
QC value within limits for Pb 220.353 Recovery = 100.44%						
Sb 206.836†	578.5	0.55285 mg/L	0.008500	0.55285 mg/L	0.008500	1.54%
QC value greater than the upper limit for Sb 206.836 Recovery = 110.57%						
Se 196.026†	221.9	0.50158 mg/L	0.002522	0.50158 mg/L	0.002522	0.50%
QC value within limits for Se 196.026 Recovery = 100.32%						
Tl 190.801†	302.5	0.47780 mg/L	0.002867	0.47780 mg/L	0.002867	0.60%
QC value within limits for Tl 190.801 Recovery = 95.56%						
V 292.402†	279690.4	2.5113 mg/L	0.02362	2.5113 mg/L	0.02362	0.94%
QC value within limits for V 292.402 Recovery = 100.45%						
Zn 206.200†	49850.4	2.5475 mg/L	0.02510	2.5475 mg/L	0.02510	0.99%
QC value within limits for Zn 206.200 Recovery = 101.90%						
Cd 226.502†	12602.7	0.24746 mg/L	0.002722	0.24746 mg/L	0.002722	1.10%
QC value within limits for Cd 226.502 Recovery = 98.99%						
Ti 334.940†	241036.2	0.50355 mg/L	0.002385	0.50355 mg/L	0.002385	0.47%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	4471.0	24.150 mg/L	0.3260	24.150 mg/L	0.3260	1.35%
QC value within limits for Ca 227.546 Recovery = 96.60%						
Na 589.592†	114015.5	25.351 mg/L	0.5154	25.351 mg/L	0.5154	2.03%
QC value within limits for Na 589.592 Recovery = 101.40%						
K 766.490†	24883.3	25.252 mg/L	0.5094	25.252 mg/L	0.5094	2.02%
QC value within limits for K 766.490 Recovery = 101.01%						

QC Failed. Continue with analysis.

Sequence No.: 11

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Autosampler Location: 4

Date Collected: 8/30/2012 2:46:15 PM

Data Type: Reprocessed on 8/31/2012 8:25:54 AM

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1780664.1	101.97	%	1.515			1.49%
Lu 261.542	1155212.6	101.8	%	1.57			1.55%
Ag 328.068†	18.8	0.00012	mg/L	0.000586	0.00012 mg/L	0.000586	489.75%
QC value within limits for Ag		328.068	Recovery =	Not calculated			
Al 308.215†	-103.8	-0.00558	mg/L	0.005307	-0.00558 mg/L	0.005307	95.09%
QC value within limits for Al		308.215	Recovery =	Not calculated			
As 188.979†	0.7	0.00096	mg/L	0.002219	0.00096 mg/L	0.002219	231.04%
QC value within limits for As		188.979	Recovery =	Not calculated			
Ba 233.527†	43.9	0.00056	mg/L	0.000077	0.00056 mg/L	0.000077	13.69%
QC value within limits for Ba		233.527	Recovery =	Not calculated			
Be 313.107†	80.5	0.00003	mg/L	0.000025	0.00003 mg/L	0.000025	73.18%
QC value within limits for Be		313.107	Recovery =	Not calculated			
Co 228.616†	3.9	0.00012	mg/L	0.000185	0.00012 mg/L	0.000185	156.53%
QC value within limits for Co		228.616	Recovery =	Not calculated			
Cr 267.716†	6.7	0.00010	mg/L	0.000178	0.00010 mg/L	0.000178	171.70%
QC value within limits for Cr		267.716	Recovery =	Not calculated			
Cu 324.752†	-63.6	-0.00032	mg/L	0.000579	-0.00032 mg/L	0.000579	180.50%
QC value within limits for Cu		324.752	Recovery =	Not calculated			
Fe 273.955†	63.7	0.00286	mg/L	0.000166	0.00286 mg/L	0.000166	5.78%
QC value within limits for Fe		273.955	Recovery =	Not calculated			
Mg 279.077†	68.8	0.00429	mg/L	0.001860	0.00429 mg/L	0.001860	43.33%
QC value within limits for Mg		279.077	Recovery =	Not calculated			
Mn 257.610†	105.2	0.00019	mg/L	0.000044	0.00019 mg/L	0.000044	22.83%
QC value within limits for Mn		257.610	Recovery =	Not calculated			
Ni 231.604†	5.9	0.00022	mg/L	0.000081	0.00022 mg/L	0.000081	37.51%
QC value within limits for Ni		231.604	Recovery =	Not calculated			
Pb 220.353†	0.9	0.00018	mg/L	0.000785	0.00018 mg/L	0.000785	426.66%
QC value within limits for Pb		220.353	Recovery =	Not calculated			
Sb 206.836†	0.2	0.00021	mg/L	0.001297	0.00021 mg/L	0.001297	625.57%
QC value within limits for Sb		206.836	Recovery =	Not calculated			
Se 196.026†	0.3	0.00063	mg/L	0.005689	0.00063 mg/L	0.005689	908.08%
QC value within limits for Se		196.026	Recovery =	Not calculated			
Tl 190.801†	-2.5	-0.00420	mg/L	0.002477	-0.00420 mg/L	0.002477	58.93%
QC value within limits for Tl		190.801	Recovery =	Not calculated			
V 292.402†	16.9	0.00015	mg/L	0.000165	0.00015 mg/L	0.000165	108.40%
QC value within limits for V		292.402	Recovery =	Not calculated			
Zn 206.200†	12.5	0.00064	mg/L	0.000041	0.00064 mg/L	0.000041	6.39%
QC value within limits for Zn		206.200	Recovery =	Not calculated			
Cd 226.502†	3.7	0.00007	mg/L	0.000112	0.00007 mg/L	0.000112	152.70%
QC value within limits for Cd		226.502	Recovery =	Not calculated			
Ti 334.940†	73.6	0.00015	mg/L	0.000002	0.00015 mg/L	0.000002	1.49%
QC value within limits for Ti		334.940	Recovery =	Not calculated			
Ca 227.546†	-5.5	-0.03072	mg/L	0.081751	-0.03072 mg/L	0.081751	266.15%
QC value within limits for Ca		227.546	Recovery =	Not calculated			
Na 589.592†	-77.8	-0.01731	mg/L	0.014828	-0.01731 mg/L	0.014828	85.69%
QC value within limits for Na		589.592	Recovery =	Not calculated			
K 766.490†	-3.5	-0.00353	mg/L	0.044458	-0.00353 mg/L	0.044458	>999.9%
QC value within limits for K		766.490	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: MB-67889-PBW

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 8/30/2012 2:49:57 PM

Data Type: Reprocessed on 8/31/2012 8:25:55 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MB-67889-PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1756873.0	100.60	%	0.499			0.50%
Lu 261.542	1142954.9	100.7	%	0.62			0.62%
Ag 328.068†	124.6	0.00079	mg/L	0.000228	0.00079 mg/L	0.000228	28.83%

Al 308.215†	-66.1	-0.00354 mg/L	0.002594	-0.00354 mg/L	0.002594	73.25%
As 188.979†	-2.4	-0.00320 mg/L	0.002670	-0.00320 mg/L	0.002670	83.44%
Ba 233.527†	-2.8	-0.00004 mg/L	0.000051	-0.00004 mg/L	0.000051	141.85%
Be 313.107†	-2.7	0.00000 mg/L	0.000006	0.00000 mg/L	0.000006	628.87%
Co 228.616†	-4.9	-0.00015 mg/L	0.000180	-0.00015 mg/L	0.000180	120.06%
Cr 267.716†	-5.0	-0.00008 mg/L	0.000091	-0.00008 mg/L	0.000091	116.34%
Cu 324.752†	74.9	0.00038 mg/L	0.000105	0.00038 mg/L	0.000105	27.59%
Fe 273.955†	103.1	0.00464 mg/L	0.000819	0.00464 mg/L	0.000819	17.64%
Mg 279.077†	73.5	0.00459 mg/L	0.001241	0.00459 mg/L	0.001241	27.04%
Mn 257.610†	102.4	0.00019 mg/L	0.000010	0.00019 mg/L	0.000010	5.17%
Ni 231.604†	4.6	0.00017 mg/L	0.000154	0.00017 mg/L	0.000154	90.33%
Pb 220.353†	4.9	0.00103 mg/L	0.001805	0.00103 mg/L	0.001805	174.60%
Sb 206.836†	5.2	0.00507 mg/L	0.000735	0.00507 mg/L	0.000735	14.50%
Se 196.026†	4.3	0.00965 mg/L	0.006514	0.00965 mg/L	0.006514	67.50%
Tl 190.801†	-0.2	-0.00040 mg/L	0.003799	-0.00040 mg/L	0.003799	948.17%
V 292.402†	8.5	0.00008 mg/L	0.000548	0.00008 mg/L	0.000548	718.01%
Zn 206.200†	25.0	0.00128 mg/L	0.000033	0.00128 mg/L	0.000033	2.57%
Cd 226.502†	1.9	0.00004 mg/L	0.000135	0.00004 mg/L	0.000135	372.27%
Ti 334.940†	52.9	0.00011 mg/L	0.000078	0.00011 mg/L	0.000078	71.19%
Ca 227.546†	-13.7	-0.07667 mg/L	0.027140	-0.07667 mg/L	0.027140	35.40%
Na 589.592†	-123.7	-0.02751 mg/L	0.012571	-0.02751 mg/L	0.012571	45.69%
K 766.490†	-46.4	-0.04709 mg/L	0.033860	-0.04709 mg/L	0.033860	71.90%

Sequence No.: 13

Sample ID: LCS-67889~LCS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 95

Date Collected: 8/30/2012 2:53:38 PM

Data Type: Reprocessed on 8/31/2012 8:25:56 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS-67889~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1696418.3	97.142	%	0.7810				0.80%
Lu 261.542	1109007.8	97.71	%	0.834				0.85%
Ag 328.068†	182012.3	1.1593	mg/L	0.00895	1.1593	mg/L	0.00895	0.77%
Al 308.215†	172208.3	9.2586	mg/L	0.08841	9.2586	mg/L	0.08841	0.95%
As 188.979†	356.4	0.47856	mg/L	0.007808	0.47856	mg/L	0.007808	1.63%
Ba 233.527†	743746.7	9.5649	mg/L	0.01717	9.5649	mg/L	0.01717	0.18%
Be 313.107†	549731.9	0.23604	mg/L	0.000126	0.23604	mg/L	0.000126	0.05%
Co 228.616†	77026.4	2.3358	mg/L	0.02159	2.3358	mg/L	0.02159	0.92%
Cr 267.716†	59879.6	0.93252	mg/L	0.007117	0.93252	mg/L	0.007117	0.76%
Cu 324.752†	226865.7	1.1467	mg/L	0.01226	1.1467	mg/L	0.01226	1.07%
Fe 273.955†	104169.1	4.6912	mg/L	0.04348	4.6912	mg/L	0.04348	0.93%
Mg 279.077†	375687.6	23.447	mg/L	0.0276	23.447	mg/L	0.0276	0.12%
Mn 257.610†	1269933.0	2.3468	mg/L	0.00289	2.3468	mg/L	0.00289	0.12%
Ni 231.604†	63917.0	2.3522	mg/L	0.02020	2.3522	mg/L	0.02020	0.86%
Pb 220.353†	2223.4	0.47429	mg/L	0.008567	0.47429	mg/L	0.008567	1.81%
Sb 206.836†	528.2	0.50325	mg/L	0.008386	0.50325	mg/L	0.008386	1.67%
Se 196.026†	207.1	0.46777	mg/L	0.004491	0.46777	mg/L	0.004491	0.96%
Tl 190.801†	285.5	0.45154	mg/L	0.006645	0.45154	mg/L	0.006645	1.47%
V 292.402†	257199.3	2.3101	mg/L	0.01979	2.3101	mg/L	0.01979	0.86%
Zn 206.200†	45267.1	2.3130	mg/L	0.01979	2.3130	mg/L	0.01979	0.86%
Cd 226.502†	11923.0	0.23411	mg/L	0.002882	0.23411	mg/L	0.002882	1.23%
Ti 334.940†	267.2	0.00032	mg/L	0.000091	0.00032	mg/L	0.000091	28.47%
Ca 227.546†	4203.9	22.741	mg/L	0.2717	22.741	mg/L	0.2717	1.19%
Na 589.592†	104812.0	23.305	mg/L	0.4532	23.305	mg/L	0.4532	1.94%
K 766.490†	22569.2	22.904	mg/L	0.4261	22.904	mg/L	0.4261	1.86%

Sequence No.: 14

Sample ID: L1807-19A~DMW-2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 96

Date Collected: 8/30/2012 2:57:22 PM

Data Type: Reprocessed on 8/31/2012 8:25:56 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19A~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1743411.8	99.833	%	1.2545				1.26%
Lu 261.542	1140618.7	100.5	%	1.24				1.23%
Ag 328.068†	89.1	0.00052	mg/L	0.000640	0.00052	mg/L	0.000640	122.72%
Al 308.215†	6137.9	0.32754	mg/L	0.004662	0.32754	mg/L	0.004662	1.42%
As 188.979†	-3.2	-0.00367	mg/L	0.005382	-0.00367	mg/L	0.005382	146.83%
Ba 233.527†	1585.5	0.02038	mg/L	0.000324	0.02038	mg/L	0.000324	1.59%
Be 313.107†	51.5	0.00004	mg/L	0.000011	0.00004	mg/L	0.000011	25.58%
Co 228.616†	40.9	0.00117	mg/L	0.000130	0.00117	mg/L	0.000130	11.04%
Cr 267.716†	48.7	0.00073	mg/L	0.000121	0.00073	mg/L	0.000121	16.48%
Cu 324.752†	383.0	0.00208	mg/L	0.000419	0.00208	mg/L	0.000419	20.14%
Fe 273.955†	35424.1	1.5940	mg/L	0.01800	1.5940	mg/L	0.01800	1.13%
Mg 279.077†	29609.8	1.8481	mg/L	0.01931	1.8481	mg/L	0.01931	1.04%
Mn 257.610†	67217.5	0.12421	mg/L	0.001291	0.12421	mg/L	0.001291	1.04%
Ni 231.604†	45.3	0.00165	mg/L	0.000143	0.00165	mg/L	0.000143	8.65%
Pb 220.353†	14.8	0.00316	mg/L	0.000427	0.00316	mg/L	0.000427	13.53%
Sb 206.836†	1.6	0.00135	mg/L	0.002081	0.00135	mg/L	0.002081	154.34%
Se 196.026†	4.4	0.01058	mg/L	0.005165	0.01058	mg/L	0.005165	48.82%
Tl 190.801†	-0.0	0.00022	mg/L	0.004706	0.00022	mg/L	0.004706	>999.9%
V 292.402†	39.9	0.00039	mg/L	0.000282	0.00039	mg/L	0.000282	72.08%
Zn 206.200†	357.9	0.01839	mg/L	0.000651	0.01839	mg/L	0.000651	3.54%
Cd 226.502†	37.3	0.00058	mg/L	0.000090	0.00058	mg/L	0.000090	15.60%
Ti 334.940†	5772.0	0.01224	mg/L	0.000570	0.01224	mg/L	0.000570	4.65%
Ca 227.546†	2236.1	12.497	mg/L	0.1715	12.497	mg/L	0.1715	1.37%
Na 589.592†	109818.0	24.418	mg/L	0.3054	24.418	mg/L	0.3054	1.25%
K 766.490†	1421.5	1.4426	mg/L	0.02664	1.4426	mg/L	0.02664	1.85%

Sequence No.: 15

Sample ID: L1807-19ADUP~DMW-2D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 97

Date Collected: 8/30/2012 3:01:04 PM

Data Type: Reprocessed on 8/31/2012 8:25:57 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19ADUP~DMW-2D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1755115.1	100.50	%	0.669				0.67%
Lu 261.542	1146537.5	101.0	%	0.71				0.70%
Ag 328.068†	-62.6	-0.00044	mg/L	0.000541	-0.00044	mg/L	0.000541	122.92%
Al 308.215†	5602.4	0.29881	mg/L	0.006693	0.29881	mg/L	0.006693	2.24%
As 188.979†	-0.1	0.00035	mg/L	0.001848	0.00035	mg/L	0.001848	532.42%
Ba 233.527†	1521.2	0.01956	mg/L	0.000115	0.01956	mg/L	0.000115	0.59%
Be 313.107†	-28.9	0.00001	mg/L	0.000046	0.00001	mg/L	0.000046	661.48%
Co 228.616†	36.6	0.00105	mg/L	0.000236	0.00105	mg/L	0.000236	22.54%
Cr 267.716†	29.6	0.00044	mg/L	0.000358	0.00044	mg/L	0.000358	82.12%
Cu 324.752†	286.1	0.00158	mg/L	0.000190	0.00158	mg/L	0.000190	12.00%
Fe 273.955†	33636.7	1.5136	mg/L	0.01771	1.5136	mg/L	0.01771	1.17%
Mg 279.077†	28481.2	1.7777	mg/L	0.01613	1.7777	mg/L	0.01613	0.91%
Mn 257.610†	64670.1	0.11951	mg/L	0.001269	0.11951	mg/L	0.001269	1.06%
Ni 231.604†	50.2	0.00183	mg/L	0.000315	0.00183	mg/L	0.000315	17.18%
Pb 220.353†	3.0	0.00065	mg/L	0.000510	0.00065	mg/L	0.000510	79.01%
Sb 206.836†	-0.4	-0.00064	mg/L	0.001178	-0.00064	mg/L	0.001178	184.83%
Se 196.026†	3.0	0.00737	mg/L	0.010383	0.00737	mg/L	0.010383	140.93%
Tl 190.801†	1.5	0.00283	mg/L	0.005436	0.00283	mg/L	0.005436	192.42%
V 292.402†	47.7	0.00046	mg/L	0.000599	0.00046	mg/L	0.000599	130.14%
Zn 206.200†	340.2	0.01748	mg/L	0.000071	0.01748	mg/L	0.000071	0.40%
Cd 226.502†	34.8	0.00054	mg/L	0.000122	0.00054	mg/L	0.000122	22.64%
Ti 334.940†	5027.5	0.01068	mg/L	0.000087	0.01068	mg/L	0.000087	0.82%
Ca 227.546†	2169.3	12.124	mg/L	0.0411	12.124	mg/L	0.0411	0.34%
Na 589.592†	105317.5	23.417	mg/L	0.1381	23.417	mg/L	0.1381	0.59%
K 766.490†	1264.5	1.2832	mg/L	0.06249	1.2832	mg/L	0.06249	4.87%

Sequence No.: 16

Sample ID: L1807-19AMS~DMW-2S

Analyst:

Logged In Analyst (Original) : mitOptima3

Autosampler Location: 98

Date Collected: 8/30/2012 3:04:46 PM

Data Type: Reprocessed on 8/31/2012 8:25:58 AM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1807-19AMS~DMW-2S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1705146.1	97.641	%	1.4244				1.46%
Lu 261.542	1114598.0	98.20	%	1.415				1.44%
Ag 328.068†	184776.7	1.1769	mg/L	0.01297	1.1769	mg/L	0.01297	1.10%
Al 308.215†	182851.8	9.8284	mg/L	0.10872	9.8284	mg/L	0.10872	1.11%
As 188.979†	361.3	0.48569	mg/L	0.011047	0.48569	mg/L	0.011047	2.27%
Ba 233.527†	754714.9	9.7060	mg/L	0.00951	9.7060	mg/L	0.00951	0.10%
Be 313.107†	554897.5	0.23827	mg/L	0.000298	0.23827	mg/L	0.000298	0.13%
Co 228.616†	78821.9	2.3902	mg/L	0.02743	2.3902	mg/L	0.02743	1.15%
Cr 267.716†	60968.7	0.94946	mg/L	0.012087	0.94946	mg/L	0.012087	1.27%
Cu 324.752†	232887.6	1.1772	mg/L	0.01253	1.1772	mg/L	0.01253	1.06%
Fe 273.955†	141204.2	6.3578	mg/L	0.07713	6.3578	mg/L	0.07713	1.21%
Mg 279.077†	409346.1	25.548	mg/L	0.0805	25.548	mg/L	0.0805	0.32%
Mn 257.610†	1351715.1	2.4979	mg/L	0.00443	2.4979	mg/L	0.00443	0.18%
Ni 231.604†	64916.4	2.3889	mg/L	0.02860	2.3889	mg/L	0.02860	1.20%
Pb 220.353†	2233.5	0.47649	mg/L	0.007577	0.47649	mg/L	0.007577	1.59%
Sb 206.836†	536.5	0.51092	mg/L	0.007204	0.51092	mg/L	0.007204	1.41%
Se 196.026†	212.8	0.48119	mg/L	0.008134	0.48119	mg/L	0.008134	1.69%
Tl 190.801†	286.4	0.45280	mg/L	0.006560	0.45280	mg/L	0.006560	1.45%
V 292.402†	262879.3	2.3611	mg/L	0.02898	2.3611	mg/L	0.02898	1.23%
Zn 206.200†	46525.6	2.3774	mg/L	0.03200	2.3774	mg/L	0.03200	1.35%
Cd 226.502†	12204.2	0.23948	mg/L	0.002861	0.23948	mg/L	0.002861	1.19%
Ti 334.940†	5667.0	0.01178	mg/L	0.000411	0.01178	mg/L	0.000411	3.48%
Ca 227.546†	6531.5	35.733	mg/L	0.5886	35.733	mg/L	0.5886	1.65%
Na 589.592†	215848.0	47.993	mg/L	0.7177	47.993	mg/L	0.7177	1.50%
K 766.490†	24268.8	24.628	mg/L	0.3420	24.628	mg/L	0.3420	1.39%

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Sequence No.: 17

Sample ID: L1807-19ASD~DMW-2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 99

Date Collected: 8/30/2012 3:08:33 PM

Data Type: Reprocessed on 8/31/2012 8:25:58 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19ASD~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2074167.7	118.77	%	28.769				24.22%
Lu 261.542	1346016.4	118.6	%	27.83				23.47%
Ag 328.068†	-18.3	-0.00012	mg/L	0.001013	-0.00012	mg/L	0.001013	826.12%
Al 308.215†	216.4	0.01136	mg/L	0.076582	0.01136	mg/L	0.076582	674.28%
As 188.979†	1.1	0.00149	mg/L	0.002737	0.00149	mg/L	0.002737	183.84%
Ba 233.527†	207.9	0.00267	mg/L	0.002167	0.00267	mg/L	0.002167	81.08%
Be 313.107†	300.9	0.00013	mg/L	0.000135	0.00013	mg/L	0.000135	101.86%
Co 228.616†	8.1	0.00024	mg/L	0.000244	0.00024	mg/L	0.000244	103.17%
Cr 267.716†	-4.5	-0.00007	mg/L	0.000166	-0.00007	mg/L	0.000166	228.52%
Cu 324.752†	-697.8	-0.00350	mg/L	0.006627	-0.00350	mg/L	0.006627	189.14%
Fe 273.955†	4800.4	0.21601	mg/L	0.182727	0.21601	mg/L	0.182727	84.59%
Mg 279.077†	4149.1	0.25897	mg/L	0.201864	0.25897	mg/L	0.201864	77.95%
Mn 257.610†	9161.2	0.01693	mg/L	0.014332	0.01693	mg/L	0.014332	84.66%
Ni 231.604†	15.0	0.00055	mg/L	0.000308	0.00055	mg/L	0.000308	56.17%
Pb 220.353†	-0.3	-0.00005	mg/L	0.000607	-0.00005	mg/L	0.000607	>999.9%
Sb 206.836†	-7.7	-0.00759	mg/L	0.006597	-0.00759	mg/L	0.006597	86.94%
Se 196.026†	2.1	0.00474	mg/L	0.005704	0.00474	mg/L	0.005704	120.34%
Tl 190.801†	2.5	0.00416	mg/L	0.001477	0.00416	mg/L	0.001477	35.51%
V 292.402†	-14.4	-0.00012	mg/L	0.000170	-0.00012	mg/L	0.000170	137.42%
Zn 206.200†	38.4	0.00198	mg/L	0.002523	0.00198	mg/L	0.002523	127.73%
Cd 226.502†	4.4	0.00007	mg/L	0.000106	0.00007	mg/L	0.000106	160.49%
Ti 334.940†	788.8	0.00166	mg/L	0.001262	0.00166	mg/L	0.001262	75.87%
Ca 227.546†	219.1	1.2239	mg/L	1.50335	1.2239	mg/L	1.50335	122.83%
Na 589.592†	18865.3	4.1947	mg/L	0.85191	4.1947	mg/L	0.85191	20.31%
K 766.490†	158.9	0.16122	mg/L	0.176896	0.16122	mg/L	0.176896	109.72%

Sequence No.: 18
 Sample ID: L1807-19APDS~DMW-2
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 100
 Date Collected: 8/30/2012 3:12:19 PM
 Data Type: Reprocessed on 8/31/2012 8:25:59 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-19APDS~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2082825.3	119.27	%	34.262				28.73%
Lu 261.542	1353339.4	119.2	%	33.11				27.76%
Ag 328.068†	118275.1	0.75335	mg/L	0.648084	0.75335	mg/L	0.648084	86.03%
Al 308.215†	116144.1	6.2435	mg/L	5.44028	6.2435	mg/L	5.44028	87.14%
As 188.979†	193.0	0.26031	mg/L	0.233905	0.26031	mg/L	0.233905	89.86%
Ba 233.527†	489040.6	6.2893	mg/L	5.35826	6.2893	mg/L	5.35826	85.20%
Be 313.107†	359809.6	0.15450	mg/L	0.131593	0.15450	mg/L	0.131593	85.17%
Co 228.616†	50740.1	1.5387	mg/L	1.32381	1.5387	mg/L	1.32381	86.04%
Cr 267.716†	39075.4	0.60852	mg/L	0.523549	0.60852	mg/L	0.523549	86.04%
Cu 324.752†	148916.5	0.75277	mg/L	0.657023	0.75277	mg/L	0.657023	87.28%
Fe 273.955†	91120.6	4.1028	mg/L	3.52344	4.1028	mg/L	3.52344	85.88%
Mg 279.077†	265386.7	16.563	mg/L	14.1206	16.563	mg/L	14.1206	85.25%
Mn 257.610†	877205.1	1.6210	mg/L	1.38137	1.6210	mg/L	1.38137	85.22%
Ni 231.604†	41862.9	1.5406	mg/L	1.32470	1.5406	mg/L	1.32470	85.99%
Pb 220.353†	1199.4	0.25601	mg/L	0.231069	0.25601	mg/L	0.231069	90.26%
Sb 206.836†	269.4	0.25418	mg/L	0.241051	0.25418	mg/L	0.241051	94.83%
Se 196.026†	116.9	0.26494	mg/L	0.226060	0.26494	mg/L	0.226060	85.32%
Tl 190.801†	154.1	0.24140	mg/L	0.214610	0.24140	mg/L	0.214610	88.90%
V 292.402†	169206.4	1.5197	mg/L	1.30448	1.5197	mg/L	1.30448	85.84%
Zn 206.200†	29944.3	1.5301	mg/L	1.31664	1.5301	mg/L	1.31664	86.05%
Cd 226.502†	7651.5	0.15015	mg/L	0.129022	0.15015	mg/L	0.129022	85.93%
Ti 334.940†	3889.3	0.00803	mg/L	0.006693	0.00803	mg/L	0.006693	83.35%
Ca 227.546†	3526.9	19.211	mg/L	17.7736	19.211	mg/L	17.7736	92.52%
Na 589.592†	183243.1	40.744	mg/L	9.6806	40.744	mg/L	9.6806	23.76%
K 766.490†	20736.0	21.043	mg/L	5.1951	21.043	mg/L	5.1951	24.69%

Sequence No.: 19
 Sample ID: L1807-20A~DMW-3
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 101
 Date Collected: 8/30/2012 3:16:03 PM
 Data Type: Reprocessed on 8/31/2012 8:26:00 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-20A~DMW-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1753629.1	100.42	%	0.708				0.71%
Lu 261.542	1147802.8	101.1	%	0.79				0.78%
Ag 328.068†	39.3	0.00023	mg/L	0.000486	0.00023	mg/L	0.000486	215.44%
Al 308.215†	869.7	0.04447	mg/L	0.002956	0.04447	mg/L	0.002956	6.65%
As 188.979†	-1.4	-0.00146	mg/L	0.003406	-0.00146	mg/L	0.003406	233.22%
Ba 233.527†	2258.1	0.02903	mg/L	0.000242	0.02903	mg/L	0.000242	0.84%
Be 313.107†	67.2	0.00003	mg/L	0.000017	0.00003	mg/L	0.000017	54.69%
Co 228.616†	0.9	0.00002	mg/L	0.000054	0.00002	mg/L	0.000054	239.38%
Cr 267.716†	37.5	0.00058	mg/L	0.000081	0.00058	mg/L	0.000081	13.92%
Cu 324.752†	73.7	0.00038	mg/L	0.000137	0.00038	mg/L	0.000137	36.39%
Fe 273.955†	1122.2	0.05050	mg/L	0.002357	0.05050	mg/L	0.002357	4.67%
Mg 279.077†	35641.6	2.2246	mg/L	0.02589	2.2246	mg/L	0.02589	1.16%
Mn 257.610†	4304.3	0.00793	mg/L	0.000119	0.00793	mg/L	0.000119	1.50%
Ni 231.604†	25.2	0.00092	mg/L	0.000075	0.00092	mg/L	0.000075	8.14%
Pb 220.353†	-3.6	-0.00077	mg/L	0.001701	-0.00077	mg/L	0.001701	221.30%
Sb 206.836†	4.2	0.00393	mg/L	0.000997	0.00393	mg/L	0.000997	25.39%
Se 196.026†	2.3	0.00510	mg/L	0.001738	0.00510	mg/L	0.001738	34.10%
Tl 190.801†	0.6	0.00099	mg/L	0.004210	0.00099	mg/L	0.004210	425.92%
V 292.402†	-14.7	-0.00013	mg/L	0.000270	-0.00013	mg/L	0.000270	205.97%
Zn 206.200†	57.0	0.00292	mg/L	0.000199	0.00292	mg/L	0.000199	6.83%
Cd 226.502†	830.7	0.01626	mg/L	0.000076	0.01626	mg/L	0.000076	0.47%

Ti 334.940†	669.6	0.00154 mg/L	0.000125	0.00154 mg/L	0.000125	8.11%
Ca 227.546†	1979.2	11.072 mg/L	0.0926	11.072 mg/L	0.0926	0.84%
Na 589.592†	105380.2	23.431 mg/L	0.0473	23.431 mg/L	0.0473	0.20%
K 766.490†	2385.4	2.4207 mg/L	0.05719	2.4207 mg/L	0.05719	2.36%

Sequence No.: 20

Autosampler Location: 102

Sample ID: L1807-21A-DMW-9

Date Collected: 8/30/2012 3:19:45 PM

Analyst:

Data Type: Reprocessed on 8/31/2012 8:26:01 AM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-21A-DMW-9

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1738573.2	99.556 %		0.6167				0.62%
Lu 261.542	1136345.4	100.1 %		0.69				0.69%
Ag 328.068†	-86.3	-0.00058 mg/L		0.000604	-0.00058 mg/L		0.000604	103.97%
Al 308.215†	3087.2	0.16318 mg/L		0.001155	0.16318 mg/L		0.001155	0.71%
As 188.979†	-4.9	-0.00587 mg/L		0.002209	-0.00587 mg/L		0.002209	37.62%
Ba 233.527†	1385.2	0.01781 mg/L		0.000170	0.01781 mg/L		0.000170	0.96%
Be 313.107†	59.6	0.00003 mg/L		0.000020	0.00003 mg/L		0.000020	59.43%
Co 228.616†	5.1	0.00013 mg/L		0.000036	0.00013 mg/L		0.000036	27.12%
Cr 267.716†	532.0	0.00828 mg/L		0.000241	0.00828 mg/L		0.000241	2.92%
Cu 324.752†	472.2	0.00244 mg/L		0.000529	0.00244 mg/L		0.000529	21.70%
Fe 273.955†	12356.9	0.55604 mg/L		0.002317	0.55604 mg/L		0.002317	0.42%
Mg 279.077†	52927.0	3.3035 mg/L		0.01318	3.3035 mg/L		0.01318	0.40%
Mn 257.610†	3647.0	0.00671 mg/L		0.000057	0.00671 mg/L		0.000057	0.84%
Ni 231.604†	39.2	0.00143 mg/L		0.000213	0.00143 mg/L		0.000213	14.94%
Pb 220.353†	-1.3	-0.00026 mg/L		0.001234	-0.00026 mg/L		0.001234	480.79%
Sb 206.836†	0.9	0.00049 mg/L		0.002475	0.00049 mg/L		0.002475	508.38%
Se 196.026†	0.7	0.00176 mg/L		0.005576	0.00176 mg/L		0.005576	316.17%
Tl 190.801†	1.5	0.00262 mg/L		0.003707	0.00262 mg/L		0.003707	141.72%
V 292.402†	70.9	0.00067 mg/L		0.000670	0.00067 mg/L		0.000670	100.46%
Zn 206.200†	251.2	0.01286 mg/L		0.000199	0.01286 mg/L		0.000199	1.55%
Cd 226.502†	253.3	0.00489 mg/L		0.000134	0.00489 mg/L		0.000134	2.73%
Ti 334.940†	1896.5	0.00414 mg/L		0.000178	0.00414 mg/L		0.000178	4.30%
Ca 227.546†	2486.5	13.906 mg/L		0.1897	13.906 mg/L		0.1897	1.36%
Na 589.592†	118265.3	26.296 mg/L		0.3066	26.296 mg/L		0.3066	1.17%
K 766.490†	1397.3	1.4180 mg/L		0.09287	1.4180 mg/L		0.09287	6.55%

Sequence No.: 21

Autosampler Location: 3

Sample ID: CCV

Date Collected: 8/30/2012 3:23:27 PM

Analyst:

Data Type: Reprocessed on 8/31/2012 8:26:01 AM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1700782.3	97.392 %		0.7947				0.82%
Lu 261.542	1111832.1	97.96 %		0.792				0.81%
Ag 328.068†	197973.8	1.2611 mg/L		0.02184	1.2611 mg/L		0.02184	1.73%
QC value within limits for Ag 328.068 Recovery = 100.89%								
Al 308.215†	186915.5	10.048 mg/L		0.1900	10.048 mg/L		0.1900	1.89%
QC value within limits for Al 308.215 Recovery = 100.48%								
As 188.979†	378.3	0.50825 mg/L		0.010433	0.50825 mg/L		0.010433	2.05%
QC value within limits for As 188.979 Recovery = 101.65%								
Ba 233.527†	814709.4	10.478 mg/L		0.0368	10.478 mg/L		0.0368	0.35%
QC value within limits for Ba 233.527 Recovery = 104.78%								
Be 313.107†	583726.9	0.25158 mg/L		0.000700	0.25158 mg/L		0.000700	0.28%
QC value within limits for Be 313.107 Recovery = 100.63%								
Co 228.616†	86428.5	2.6198 mg/L		0.05002	2.6198 mg/L		0.05002	1.91%
QC value within limits for Co 228.616 Recovery = 104.79%								
Cr 267.716†	64746.9	1.0083 mg/L		0.01890	1.0083 mg/L		0.01890	1.87%
QC value within limits for Cr 267.716 Recovery = 100.83%								

Cu	324.752†	248250.5	1.2548 mg/L	0.02439	1.2548 mg/L	0.02439	1.94%
	QC value within limits for Cu	324.752	Recovery =	100.38%			
Fe	273.955†	114198.8	5.1429 mg/L	0.09849	5.1429 mg/L	0.09849	1.92%
	QC value within limits for Fe	273.955	Recovery =	102.86%			
Mg	279.077†	409688.2	25.569 mg/L	0.0702	25.569 mg/L	0.0702	0.27%
	QC value within limits for Mg	279.077	Recovery =	102.28%			
Mn	257.610†	1386672.8	2.5625 mg/L	0.00810	2.5625 mg/L	0.00810	0.32%
	QC value within limits for Mn	257.610	Recovery =	102.50%			
Ni	231.604†	70513.7	2.5946 mg/L	0.05125	2.5946 mg/L	0.05125	1.98%
	QC value within limits for Ni	231.604	Recovery =	103.78%			
Pb	220.353†	2386.0	0.50952 mg/L	0.007010	0.50952 mg/L	0.007010	1.38%
	QC value within limits for Pb	220.353	Recovery =	101.90%			
Sb	206.836†	596.1	0.56996 mg/L	0.005569	0.56996 mg/L	0.005569	0.98%
	QC value greater than the upper limit for Sb	206.836	Recovery =	113.99%			
Se	196.026†	223.4	0.50485 mg/L	0.013780	0.50485 mg/L	0.013780	2.73%
	QC value within limits for Se	196.026	Recovery =	100.97%			
Tl	190.801†	305.9	0.48307 mg/L	0.007271	0.48307 mg/L	0.007271	1.51%
	QC value within limits for Tl	190.801	Recovery =	96.61%			
V	292.402†	283976.6	2.5498 mg/L	0.04904	2.5498 mg/L	0.04904	1.92%
	QC value within limits for V	292.402	Recovery =	101.99%			
Zn	206.200†	50176.8	2.5642 mg/L	0.05263	2.5642 mg/L	0.05263	2.05%
	QC value within limits for Zn	206.200	Recovery =	102.57%			
Cd	226.502†	12723.6	0.24984 mg/L	0.005588	0.24984 mg/L	0.005588	2.24%
	QC value within limits for Cd	226.502	Recovery =	99.94%			
Ti	334.940†	244778.1	0.51138 mg/L	0.001959	0.51138 mg/L	0.001959	0.38%
	QC value within limits for Ti	334.940	Recovery =	Not calculated			
Ca	227.546†	4564.7	24.665 mg/L	0.1928	24.665 mg/L	0.1928	0.78%
	QC value within limits for Ca	227.546	Recovery =	98.66%			
Na	589.592†	114952.2	25.559 mg/L	0.5519	25.559 mg/L	0.5519	2.16%
	QC value within limits for Na	589.592	Recovery =	102.24%			
K	766.490†	24546.3	24.910 mg/L	0.5348	24.910 mg/L	0.5348	2.15%
	QC value within limits for K	766.490	Recovery =	99.64%			
QC Failed. Continue with analysis.							

Sequence No.: 22

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 3:27:10 PM

Data Type: Reprocessed on 8/31/2012 8:26:02 AM

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 360.073	1693159.8	96.955 %	1.5100			1.56%
Lu 261.542	1100075.5	96.92 %	1.353			1.40%
Ag 328.068†	33.5	0.00021 mg/L	0.000744	0.00021 mg/L	0.000744	349.46%
	QC value within limits for Ag	328.068	Recovery =	Not calculated		
Al 308.215†	28.5	0.00154 mg/L	0.001543	0.00154 mg/L	0.001543	100.19%
	QC value within limits for Al	308.215	Recovery =	Not calculated		
As 188.979†	-4.3	-0.00567 mg/L	0.001284	-0.00567 mg/L	0.001284	22.67%
	QC value within limits for As	188.979	Recovery =	Not calculated		
Ba 233.527†	32.5	0.00042 mg/L	0.000189	0.00042 mg/L	0.000189	45.23%
	QC value within limits for Ba	233.527	Recovery =	Not calculated		
Be 313.107†	72.3	0.00003 mg/L	0.000007	0.00003 mg/L	0.000007	22.60%
	QC value within limits for Be	313.107	Recovery =	Not calculated		
Co 228.616†	5.2	0.00016 mg/L	0.000192	0.00016 mg/L	0.000192	121.27%
	QC value within limits for Co	228.616	Recovery =	Not calculated		
Cr 267.716†	5.2	0.00008 mg/L	0.000108	0.00008 mg/L	0.000108	133.33%
	QC value within limits for Cr	267.716	Recovery =	Not calculated		
Cu 324.752†	112.9	0.00057 mg/L	0.000337	0.00057 mg/L	0.000337	59.09%
	QC value within limits for Cu	324.752	Recovery =	Not calculated		
Fe 273.955†	61.7	0.00278 mg/L	0.000505	0.00278 mg/L	0.000505	18.20%
	QC value within limits for Fe	273.955	Recovery =	Not calculated		
Mg 279.077†	75.5	0.00471 mg/L	0.000758	0.00471 mg/L	0.000758	16.09%
	QC value within limits for Mg	279.077	Recovery =	Not calculated		
Mn 257.610†	77.7	0.00014 mg/L	0.000039	0.00014 mg/L	0.000039	27.08%
	QC value within limits for Mn	257.610	Recovery =	Not calculated		
Ni 231.604†	5.3	0.00020 mg/L	0.000128	0.00020 mg/L	0.000128	65.55%

QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† -1.1 -0.00023 mg/L 0.001714 -0.00023 mg/L 0.001714 741.37%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 0.8 0.00083 mg/L 0.003641 0.00083 mg/L 0.003641 439.90%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 3.4 0.00749 mg/L 0.002860 0.00749 mg/L 0.002860 38.20%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Tl 190.801† 0.6 0.00104 mg/L 0.003190 0.00104 mg/L 0.003190 305.63%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 16.2 0.00015 mg/L 0.000539 0.00015 mg/L 0.000539 370.05%
 QC value within limits for V 292.402 Recovery = Not calculated
 Zn 206.200† 18.1 0.00092 mg/L 0.000381 0.00092 mg/L 0.000381 41.24%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Cd 226.502† 1.8 0.00004 mg/L 0.000089 0.00004 mg/L 0.000089 250.84%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† 30.5 0.00006 mg/L 0.000065 0.00006 mg/L 0.000065 103.44%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† -8.2 -0.04601 mg/L 0.055382 -0.04601 mg/L 0.055382 120.38%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 Na 589.592† 87.5 0.01944 mg/L 0.023339 0.01944 mg/L 0.023339 120.03%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† 77.7 0.07884 mg/L 0.087538 0.07884 mg/L 0.087538 111.04%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 23

Sample ID: L1807-22A-DMW-9B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 8/30/2012 3:30:52 PM

Data Type: Reprocessed on 8/31/2012 8:26:03 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-22A-DMW-9B

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1676332.8	95.992 %	%	1.2795			1.33%
Lu 261.542	1096085.3	96.57 %	%	1.209			1.25%
Ag 328.068†	-19.5	-0.00014 mg/L	mg/L	0.000322	-0.00014 mg/L	0.000322	226.00%
Al 308.215†	410.4	0.02014 mg/L	mg/L	0.003314	0.02014 mg/L	0.003314	16.45%
As 188.979†	0.7	0.00130 mg/L	mg/L	0.002410	0.00130 mg/L	0.002410	185.04%
Ba 233.527†	1724.9	0.02218 mg/L	mg/L	0.000186	0.02218 mg/L	0.000186	0.84%
Be 313.107†	-9.3	0.00000 mg/L	mg/L	0.000029	0.00000 mg/L	0.000029	797.22%
Co 228.616†	0.2	0.00001 mg/L	mg/L	0.000016	0.00001 mg/L	0.000016	290.22%
Cr 267.716†	52.5	0.00082 mg/L	mg/L	0.000294	0.00082 mg/L	0.000294	36.04%
Cu 324.752†	372.5	0.00188 mg/L	mg/L	0.000529	0.00188 mg/L	0.000529	28.09%
Fe 273.955†	877.3	0.03948 mg/L	mg/L	0.001032	0.03948 mg/L	0.001032	2.61%
Mg 279.077†	26854.3	1.6761 mg/L	mg/L	0.03155	1.6761 mg/L	0.03155	1.88%
Mn 257.610†	4954.7	0.00914 mg/L	mg/L	0.000245	0.00914 mg/L	0.000245	2.69%
Ni 231.604†	10.5	0.00038 mg/L	mg/L	0.000350	0.00038 mg/L	0.000350	92.26%
Pb 220.353†	-0.4	-0.00009 mg/L	mg/L	0.001368	-0.00009 mg/L	0.001368	>999.9%
Sb 206.836†	2.9	0.00271 mg/L	mg/L	0.005698	0.00271 mg/L	0.005698	210.59%
Se 196.026†	1.7	0.00376 mg/L	mg/L	0.005557	0.00376 mg/L	0.005557	147.80%
Tl 190.801†	2.4	0.00404 mg/L	mg/L	0.002831	0.00404 mg/L	0.002831	70.01%
V 292.402†	6.3	0.00006 mg/L	mg/L	0.000105	0.00006 mg/L	0.000105	180.76%
Zn 206.200†	56.4	0.00288 mg/L	mg/L	0.000147	0.00288 mg/L	0.000147	5.10%
Cd 226.502†	0.9	-0.00001 mg/L	mg/L	0.000175	-0.00001 mg/L	0.000175	>999.9%
Ti 334.940†	101.0	0.00034 mg/L	mg/L	0.000049	0.00034 mg/L	0.000049	14.66%
Ca 227.546†	1662.5	9.3007 mg/L	mg/L	0.08354	9.3007 mg/L	0.08354	0.90%
Na 589.592†	96406.4	21.436 mg/L	mg/L	0.3131	21.436 mg/L	0.3131	1.46%
K 766.490†	1772.1	1.7983 mg/L	mg/L	0.05664	1.7983 mg/L	0.05664	3.15%

Sequence No.: 24

Sample ID: L1807-23A-DMW-52

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 8/30/2012 3:34:35 PM

Data Type: Reprocessed on 8/31/2012 8:26:03 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-23A~DMW-52

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1673939.5	95.854	%	0.5016				0.52%
Lu 261.542	1093992.4	96.39	%	0.383				0.40%
Ag 328.068†	-5.5	-0.00008	mg/L	0.000484	-0.00008	mg/L	0.000484	607.86%
Al 308.215†	7020.2	0.37500	mg/L	0.002103	0.37500	mg/L	0.002103	0.56%
As 188.979†	-5.2	-0.00624	mg/L	0.000443	-0.00624	mg/L	0.000443	7.10%
Ba 233.527†	1598.2	0.02055	mg/L	0.000055	0.02055	mg/L	0.000055	0.27%
Be 313.107†	-67.3	0.00000	mg/L	0.000007	0.00000	mg/L	0.000007	145.86%
Co 228.616†	33.3	0.00094	mg/L	0.000308	0.00094	mg/L	0.000308	32.67%
Cr 267.716†	37.8	0.00056	mg/L	0.000018	0.00056	mg/L	0.000018	3.17%
Cu 324.752†	298.0	0.00165	mg/L	0.000193	0.00165	mg/L	0.000193	11.68%
Fe 273.955†	35076.4	1.5784	mg/L	0.01172	1.5784	mg/L	0.01172	0.74%
Mg 279.077†	29322.8	1.8302	mg/L	0.01564	1.8302	mg/L	0.01564	0.85%
Mn 257.610†	68368.7	0.12634	mg/L	0.000793	0.12634	mg/L	0.000793	0.63%
Ni 231.604†	49.5	0.00181	mg/L	0.000238	0.00181	mg/L	0.000238	13.18%
Pb 220.353†	10.8	0.00232	mg/L	0.001161	0.00232	mg/L	0.001161	49.95%
Sb 206.836†	0.8	0.00058	mg/L	0.001163	0.00058	mg/L	0.001163	202.17%
Se 196.026†	-2.8	-0.00566	mg/L	0.013811	-0.00566	mg/L	0.013811	244.05%
Tl 190.801†	2.1	0.00368	mg/L	0.005446	0.00368	mg/L	0.005446	147.98%
V 292.402†	45.0	0.00043	mg/L	0.000313	0.00043	mg/L	0.000313	71.95%
Zn 206.200†	345.5	0.01776	mg/L	0.000163	0.01776	mg/L	0.000163	0.92%
Cd 226.502†	31.2	0.00046	mg/L	0.000135	0.00046	mg/L	0.000135	29.19%
Ti 334.940†	6283.7	0.01331	mg/L	0.000336	0.01331	mg/L	0.000336	2.53%
Ca 227.546†	2255.2	12.604	mg/L	0.0235	12.604	mg/L	0.0235	0.19%
Na 589.592†	111328.8	24.754	mg/L	0.2433	24.754	mg/L	0.2433	0.98%
K 766.490†	1336.3	1.3561	mg/L	0.06805	1.3561	mg/L	0.06805	5.02%

Sequence No.: 25

Sample ID: L1807-24A~DMW-15B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 8/30/2012 3:38:17 PM

Data Type: Reprocessed on 8/31/2012 8:26:04 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-24A~DMW-15B

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1691354.5	96.852	%	0.8174				0.84%
Lu 261.542	1105602.9	97.41	%	0.839				0.86%
Ag 328.068†	-14.1	-0.00018	mg/L	0.000275	-0.00018	mg/L	0.000275	155.15%
Al 308.215†	713.2	0.03539	mg/L	0.002074	0.03539	mg/L	0.002074	5.86%
As 188.979†	-0.9	-0.00067	mg/L	0.000656	-0.00067	mg/L	0.000656	97.45%
Ba 233.527†	2523.1	0.03244	mg/L	0.000322	0.03244	mg/L	0.000322	0.99%
Be 313.107†	316.5	0.00014	mg/L	0.000014	0.00014	mg/L	0.000014	10.21%
Co 228.616†	50.2	0.00148	mg/L	0.000145	0.00148	mg/L	0.000145	9.79%
Cr 267.716†	19.7	0.00027	mg/L	0.000162	0.00027	mg/L	0.000162	60.26%
Cu 324.752†	138.4	0.00084	mg/L	0.000567	0.00084	mg/L	0.000567	67.73%
Fe 273.955†	33489.4	1.5070	mg/L	0.02982	1.5070	mg/L	0.02982	1.98%
Mg 279.077†	75293.8	4.6996	mg/L	0.08512	4.6996	mg/L	0.08512	1.81%
Mn 257.610†	102189.1	0.18882	mg/L	0.003231	0.18882	mg/L	0.003231	1.71%
Ni 231.604†	42.4	0.00154	mg/L	0.000509	0.00154	mg/L	0.000509	33.06%
Pb 220.353†	7.0	0.00146	mg/L	0.001201	0.00146	mg/L	0.001201	82.01%
Sb 206.836†	7.6	0.00718	mg/L	0.003465	0.00718	mg/L	0.003465	48.30%
Se 196.026†	1.8	0.00473	mg/L	0.012044	0.00473	mg/L	0.012044	254.55%
Tl 190.801†	-0.5	-0.00054	mg/L	0.001903	-0.00054	mg/L	0.001903	352.79%
V 292.402†	-34.5	-0.00026	mg/L	0.000475	-0.00026	mg/L	0.000475	179.98%
Zn 206.200†	233.9	0.01208	mg/L	0.000216	0.01208	mg/L	0.000216	1.78%
Cd 226.502†	6.1	-0.00002	mg/L	0.000080	-0.00002	mg/L	0.000080	333.53%
Ti 334.940†	495.6	0.00115	mg/L	0.000381	0.00115	mg/L	0.000381	32.97%
Ca 227.546†	2177.1	12.166	mg/L	0.1649	12.166	mg/L	0.1649	1.36%
Na 589.592†	183574.4	40.817	mg/L	0.2624	40.817	mg/L	0.2624	0.64%
K 766.490†	1449.4	1.4708	mg/L	0.04807	1.4708	mg/L	0.04807	3.27%

Sequence No.: 26

Sample ID: L1807-25A~DMW-15A

Autosampler Location: 106

Date Collected: 8/30/2012 3:42:06 PM

Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Data Type: Reprocessed on 8/31/2012 8:26:05 AM

Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-25A~DMW-15A

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1752964.7	100.38	%	0.510				0.51%
Lu 261.542	1143282.7	100.7	%	0.54				0.54%
Ag 328.068†	-150.9	-0.00103	mg/L	0.000423	-0.00103	mg/L	0.000423	40.94%
Al 308.215†	227.7	0.00908	mg/L	0.002158	0.00908	mg/L	0.002158	23.77%
As 188.979†	-0.2	0.00014	mg/L	0.002334	0.00014	mg/L	0.002334	>999.9%
Ba 233.527†	1235.6	0.01588	mg/L	0.000097	0.01588	mg/L	0.000097	0.61%
Be 313.107†	51.8	0.00002	mg/L	0.000009	0.00002	mg/L	0.000009	39.98%
Co 228.616†	1.1	0.00003	mg/L	0.000098	0.00003	mg/L	0.000098	306.53%
Cr 267.716†	40.3	0.00058	mg/L	0.000226	0.00058	mg/L	0.000226	39.13%
Cu 324.752†	11.6	0.00006	mg/L	0.000235	0.00006	mg/L	0.000235	384.90%
Fe 273.955†	545.4	0.02454	mg/L	0.000320	0.02454	mg/L	0.000320	1.30%
Mg 279.077†	39381.9	2.4581	mg/L	0.00458	2.4581	mg/L	0.00458	0.19%
Mn 257.610†	128560.0	0.23758	mg/L	0.000388	0.23758	mg/L	0.000388	0.16%
Ni 231.604†	14.7	0.00053	mg/L	0.000384	0.00053	mg/L	0.000384	72.25%
Pb 220.353†	2.6	0.00057	mg/L	0.000785	0.00057	mg/L	0.000785	138.39%
Sb 206.836†	3.6	0.00339	mg/L	0.001262	0.00339	mg/L	0.001262	37.24%
Se 196.026†	3.0	0.00680	mg/L	0.006497	0.00680	mg/L	0.006497	95.59%
Tl 190.801†	2.2	0.00378	mg/L	0.002039	0.00378	mg/L	0.002039	53.91%
V 292.402†	-17.5	-0.00015	mg/L	0.000832	-0.00015	mg/L	0.000832	538.97%
Zn 206.200†	74.2	0.00388	mg/L	0.000249	0.00388	mg/L	0.000249	6.42%
Cd 226.502†	859.6	0.01683	mg/L	0.000120	0.01683	mg/L	0.000120	0.71%
Ti 334.940†	-49.6	0.00008	mg/L	0.000017	0.00008	mg/L	0.000017	21.31%
Ca 227.546†	2415.6	13.513	mg/L	0.0869	13.513	mg/L	0.0869	0.64%
Na 589.592†	91880.0	20.429	mg/L	0.1233	20.429	mg/L	0.1233	0.60%
K 766.490†	2083.9	2.1148	mg/L	0.09273	2.1148	mg/L	0.09273	4.38%

Sequence No.: 27

Sample ID: L1807-26A~DMW-23B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 8/30/2012 3:45:48 PM

Data Type: Reprocessed on 8/31/2012 8:26:05 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-26A~DMW-23B

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1684237.1	96.444	%	1.8346				1.90%
Lu 261.542	1097675.3	96.71	%	1.816				1.88%
Ag 328.068†	-20.9	-0.00019	mg/L	0.000381	-0.00019	mg/L	0.000381	200.38%
Al 308.215†	1989.0	0.10309	mg/L	0.008110	0.10309	mg/L	0.008110	7.87%
As 188.979†	-2.0	-0.00186	mg/L	0.005290	-0.00186	mg/L	0.005290	284.01%
Ba 233.527†	2258.2	0.02903	mg/L	0.000544	0.02903	mg/L	0.000544	1.87%
Be 313.107†	-38.6	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	166.15%
Co 228.616†	17.9	0.00053	mg/L	0.000115	0.00053	mg/L	0.000115	21.62%
Cr 267.716†	689.6	0.01071	mg/L	0.000355	0.01071	mg/L	0.000355	3.32%
Cu 324.752†	798.2	0.00406	mg/L	0.000407	0.00406	mg/L	0.000407	10.04%
Fe 273.955†	6195.5	0.27879	mg/L	0.006627	0.27879	mg/L	0.006627	2.38%
Mg 279.077†	47263.6	2.9500	mg/L	0.05444	2.9500	mg/L	0.05444	1.85%
Mn 257.610†	74732.0	0.13809	mg/L	0.002465	0.13809	mg/L	0.002465	1.79%
Ni 231.604†	64.5	0.00236	mg/L	0.000290	0.00236	mg/L	0.000290	12.29%
Pb 220.353†	10.8	0.00230	mg/L	0.001437	0.00230	mg/L	0.001437	62.37%
Sb 206.836†	-0.7	-0.00113	mg/L	0.003177	-0.00113	mg/L	0.003177	280.31%
Se 196.026†	3.7	0.00833	mg/L	0.006110	0.00833	mg/L	0.006110	73.33%
Tl 190.801†	-0.7	-0.00095	mg/L	0.001280	-0.00095	mg/L	0.001280	135.23%
V 292.402†	77.7	0.00073	mg/L	0.000310	0.00073	mg/L	0.000310	42.76%
Zn 206.200†	346.0	0.01773	mg/L	0.000518	0.01773	mg/L	0.000518	2.92%
Cd 226.502†	3551.3	0.06961	mg/L	0.001284	0.06961	mg/L	0.001284	1.84%
Ti 334.940†	1172.2	0.00270	mg/L	0.000231	0.00270	mg/L	0.000231	8.54%
Ca 227.546†	3233.8	18.089	mg/L	0.3618	18.089	mg/L	0.3618	2.00%
Na 589.592†	67364.9	14.978	mg/L	0.3425	14.978	mg/L	0.3425	2.29%

K 766.490† 1734.9 1.7606 mg/L 0.05564 1.7606 mg/L 0.05564 3.16%

Sequence No.: 28

Sample ID: L1807-27A-DMW-13B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 8/30/2012 3:49:30 PM

Data Type: Reprocessed on 8/31/2012 8:26:06 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-27A-DMW-13B

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1716688.2	98.302	%	0.9030				0.92%
Lu 261.542	1118643.4	98.56	%	0.861				0.87%
Ag 328.068†	-79.6	-0.00053	mg/L	0.000284	-0.00053	mg/L	0.000284	53.20%
Al 308.215†	406.0	0.01945	mg/L	0.002989	0.01945	mg/L	0.002989	15.37%
As 188.979†	-4.8	-0.00571	mg/L	0.001863	-0.00571	mg/L	0.001863	32.59%
Ba 233.527†	1795.7	0.02309	mg/L	0.000239	0.02309	mg/L	0.000239	1.04%
Be 313.107†	55.1	0.00002	mg/L	0.000014	0.00002	mg/L	0.000014	59.81%
Co 228.616†	8.8	0.00026	mg/L	0.000262	0.00026	mg/L	0.000262	98.73%
Cr 267.716†	1365.1	0.02124	mg/L	0.000774	0.02124	mg/L	0.000774	3.64%
Cu 324.752†	144.8	0.00073	mg/L	0.000554	0.00073	mg/L	0.000554	75.47%
Fe 273.955†	646.8	0.02911	mg/L	0.000607	0.02911	mg/L	0.000607	2.08%
Mg 279.077†	26079.6	1.6277	mg/L	0.02355	1.6277	mg/L	0.02355	1.45%
Mn 257.610†	29408.9	0.05434	mg/L	0.000907	0.05434	mg/L	0.000907	1.67%
Ni 231.604†	18.3	0.00067	mg/L	0.000117	0.00067	mg/L	0.000117	17.48%
Pb 220.353†	-1.0	-0.00021	mg/L	0.001644	-0.00021	mg/L	0.001644	769.18%
Sb 206.836†	2.8	0.00219	mg/L	0.001515	0.00219	mg/L	0.001515	69.01%
Se 196.026†	3.2	0.00722	mg/L	0.007418	0.00722	mg/L	0.007418	102.75%
Tl 190.801†	1.1	0.00181	mg/L	0.004554	0.00181	mg/L	0.004554	252.01%
V 292.402†	-22.1	-0.00015	mg/L	0.000216	-0.00015	mg/L	0.000216	144.22%
Zn 206.200†	58.0	0.00302	mg/L	0.000079	0.00302	mg/L	0.000079	2.63%
Cd 226.502†	80.5	0.00155	mg/L	0.000101	0.00155	mg/L	0.000101	6.52%
Ti 334.940†	80.7	0.00033	mg/L	0.000076	0.00033	mg/L	0.000076	23.40%
Ca 227.546†	2022.6	11.315	mg/L	0.1820	11.315	mg/L	0.1820	1.61%
Na 589.592†	41668.4	9.2649	mg/L	0.11351	9.2649	mg/L	0.11351	1.23%
K 766.490†	1315.7	1.3352	mg/L	0.04109	1.3352	mg/L	0.04109	3.08%

Sequence No.: 29

Sample ID: L1807-28A-DMW-23A

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 109

Date Collected: 8/30/2012 3:53:12 PM

Data Type: Reprocessed on 8/31/2012 8:26:07 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-28A-DMW-23A

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1664719.6	95.327	%	0.1747				0.18%
Lu 261.542	1087754.2	95.84	%	0.247				0.26%
Ag 328.068†	-24.4	-0.00044	mg/L	0.000209	-0.00044	mg/L	0.000209	47.60%
Al 308.215†	3135.2	0.16146	mg/L	0.002896	0.16146	mg/L	0.002896	1.79%
As 188.979†	-4.8	-0.00551	mg/L	0.004213	-0.00551	mg/L	0.004213	76.44%
Ba 233.527†	2177.7	0.02800	mg/L	0.000135	0.02800	mg/L	0.000135	0.48%
Be 313.107†	-31.8	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	186.90%
Co 228.616†	4.3	0.00008	mg/L	0.000060	0.00008	mg/L	0.000060	74.32%
Cr 267.716†	90.7	0.00118	mg/L	0.000406	0.00118	mg/L	0.000406	34.31%
Cu 324.752†	1283.2	0.00665	mg/L	0.000115	0.00665	mg/L	0.000115	1.73%
Fe 273.955†	41401.1	1.8630	mg/L	0.00311	1.8630	mg/L	0.00311	0.17%
Mg 279.077†	79377.5	4.9545	mg/L	0.00744	4.9545	mg/L	0.00744	0.15%
Mn 257.610†	602507.0	1.1135	mg/L	0.00253	1.1135	mg/L	0.00253	0.23%
Ni 231.604†	15.4	0.00054	mg/L	0.000340	0.00054	mg/L	0.000340	62.61%
Pb 220.353†	0.1	0.00006	mg/L	0.001407	0.00006	mg/L	0.001407	>999.9%
Sb 206.836†	0.6	0.00008	mg/L	0.002252	0.00008	mg/L	0.002252	>999.9%
Se 196.026†	3.3	0.00817	mg/L	0.001009	0.00817	mg/L	0.001009	12.34%
Tl 190.801†	0.1	0.00084	mg/L	0.002914	0.00084	mg/L	0.002914	348.24%
V 292.402†	119.7	0.00113	mg/L	0.000096	0.00113	mg/L	0.000096	8.48%

Zn 206.200†	59.3	0.00357 mg/L	0.000072	0.00357 mg/L	0.000072	2.02%
Cd 226.502†	1625.9	0.03169 mg/L	0.000169	0.03169 mg/L	0.000169	0.53%
Ti 334.940†	718.2	0.00186 mg/L	0.000094	0.00186 mg/L	0.000094	5.04%
Ca 227.546†	4767.9	26.656 mg/L	0.1513	26.656 mg/L	0.1513	0.57%
Na 589.592†	333146.0	74.074 mg/L	0.7566	74.074 mg/L	0.7566	1.02%
K 766.490†	5685.6	5.7698 mg/L	0.08575	5.7698 mg/L	0.08575	1.49%

Sequence No.: 30

Sample ID: L1808-01A-LMW-5F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 110

Date Collected: 8/30/2012 3:57:01 PM

Data Type: Reprocessed on 8/31/2012 8:26:07 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-01A-LMW-5F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1704378.6	97.597 %		0.2886				0.30%
Lu 261.542	1109683.4	97.77 %		0.261				0.27%
Ag 328.068†	-121.9	-0.00082 mg/L		0.000390	-0.00082 mg/L		0.000390	47.43%
Al 308.215†	2995.4	0.15723 mg/L		0.001604	0.15723 mg/L		0.001604	1.02%
As 188.979†	0.1	0.00082 mg/L		0.004270	0.00082 mg/L		0.004270	523.29%
Ba 233.527†	4694.6	0.06035 mg/L		0.000533	0.06035 mg/L		0.000533	0.88%
Be 313.107†	337.5	0.00014 mg/L		0.000030	0.00014 mg/L		0.000030	21.01%
Co 228.616†	0.4	0.00001 mg/L		0.000200	0.00001 mg/L		0.000200	>999.9%
Cr 267.716†	97.3	0.00150 mg/L		0.000164	0.00150 mg/L		0.000164	10.90%
Cu 324.752†	227.3	0.00115 mg/L		0.000314	0.00115 mg/L		0.000314	27.38%
Fe 273.955†	301.0	0.01354 mg/L		0.001158	0.01354 mg/L		0.001158	8.55%
Mg 279.077†	54299.6	3.3892 mg/L		0.02089	3.3892 mg/L		0.02089	0.62%
Mn 257.610†	36459.2	0.06735 mg/L		0.000309	0.06735 mg/L		0.000309	0.46%
Ni 231.604†	80.4	0.00295 mg/L		0.000121	0.00295 mg/L		0.000121	4.11%
Pb 220.353†	8.0	0.00173 mg/L		0.001208	0.00173 mg/L		0.001208	69.82%
Sb 206.836†	0.8	0.00050 mg/L		0.004122	0.00050 mg/L		0.004122	832.07%
Se 196.026†	1.5	0.00330 mg/L		0.015919	0.00330 mg/L		0.015919	482.18%
Tl 190.801†	1.5	0.00263 mg/L		0.004006	0.00263 mg/L		0.004006	152.31%
V 292.402†	-22.7	-0.00020 mg/L		0.000216	-0.00020 mg/L		0.000216	108.02%
Zn 206.200†	201.8	0.01032 mg/L		0.000199	0.01032 mg/L		0.000199	1.93%
Cd 226.502†	1.6	-0.00002 mg/L		0.000098	-0.00002 mg/L		0.000098	540.96%
Ti 334.940†	-204.2	-0.00018 mg/L		0.000127	-0.00018 mg/L		0.000127	71.99%
Ca 227.546†	3333.5	18.649 mg/L		0.0464	18.649 mg/L		0.0464	0.25%
Na 589.592†	85560.8	19.024 mg/L		0.2140	19.024 mg/L		0.2140	1.12%
K 766.490†	5357.0	5.4363 mg/L		0.15302	5.4363 mg/L		0.15302	2.81%

Sequence No.: 31

Sample ID: L1808-02A-LMW-55F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 8/30/2012 4:00:43 PM

Data Type: Reprocessed on 8/31/2012 8:26:08 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-02A-LMW-55F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1745531.4	99.954 %		1.1038				1.10%
Lu 261.542	1137007.4	100.2 %		1.11				1.11%
Ag 328.068†	-53.1	-0.00039 mg/L		0.000326	-0.00039 mg/L		0.000326	84.60%
Al 308.215†	3040.2	0.15974 mg/L		0.004970	0.15974 mg/L		0.004970	3.11%
As 188.979†	2.1	0.00342 mg/L		0.005187	0.00342 mg/L		0.005187	151.44%
Ba 233.527†	4910.6	0.06313 mg/L		0.000483	0.06313 mg/L		0.000483	0.77%
Be 313.107†	392.7	0.00017 mg/L		0.000022	0.00017 mg/L		0.000022	12.85%
Co 228.616†	4.5	0.00014 mg/L		0.000153	0.00014 mg/L		0.000153	111.72%
Cr 267.716†	76.5	0.00118 mg/L		0.000539	0.00118 mg/L		0.000539	45.81%
Cu 324.752†	174.1	0.00088 mg/L		0.000593	0.00088 mg/L		0.000593	67.38%
Fe 273.955†	461.5	0.02077 mg/L		0.000843	0.02077 mg/L		0.000843	4.06%
Mg 279.077†	53135.8	3.3165 mg/L		0.03297	3.3165 mg/L		0.03297	0.99%
Mn 257.610†	35997.7	0.06650 mg/L		0.000728	0.06650 mg/L		0.000728	1.09%
Ni 231.604†	65.5	0.00240 mg/L		0.000253	0.00240 mg/L		0.000253	10.56%

Pb 220.353†	2.4	0.00053 mg/L	0.001051	0.00053 mg/L	0.001051	198.71%
Sb 206.836†	0.4	0.00011 mg/L	0.000712	0.00011 mg/L	0.000712	619.63%
Se 196.026†	-0.3	-0.00063 mg/L	0.013999	-0.00063 mg/L	0.013999	>999.9%
Tl 190.801†	0.9	0.00163 mg/L	0.004990	0.00163 mg/L	0.004990	306.41%
V 292.402†	-33.8	-0.00030 mg/L	0.000221	-0.00030 mg/L	0.000221	73.93%
Zn 206.200†	185.4	0.00948 mg/L	0.000030	0.00948 mg/L	0.000030	0.32%
Cd 226.502†	0.4	-0.00004 mg/L	0.000174	-0.00004 mg/L	0.000174	441.40%
Ti 334.940†	-223.2	-0.00022 mg/L	0.000016	-0.00022 mg/L	0.000016	7.23%
Ca 227.546†	3244.6	18.152 mg/L	0.2346	18.152 mg/L	0.2346	1.29%
Na 589.592†	84445.5	18.776 mg/L	0.1830	18.776 mg/L	0.1830	0.97%
K 766.490†	5352.1	5.4314 mg/L	0.13909	5.4314 mg/L	0.13909	2.56%

Sequence No.: 32

Sample ID: L1808-03A-LMW-6F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 112

Date Collected: 8/30/2012 4:04:25 PM

Data Type: Reprocessed on 8/31/2012 8:26:09 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-03A-LMW-6F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1753078.6	100.39 %		0.617				0.61%
Lu 261.542	1141869.9	100.6 %		0.62				0.61%
Ag 328.068†	-170.0	-0.00111 mg/L	0.000482	-0.00111 mg/L	0.000482			43.29%
Al 308.215†	232.6	0.01078 mg/L	0.000286	0.01078 mg/L	0.000286			2.66%
As 188.979†	-0.3	-0.00008 mg/L	0.004011	-0.00008 mg/L	0.004011			>999.9%
Ba 233.527†	208.4	0.00268 mg/L	0.000083	0.00268 mg/L	0.000083			3.11%
Be 313.107†	61.4	0.00003 mg/L	0.000021	0.00003 mg/L	0.000021			78.59%
Co 228.616†	0.5	0.00001 mg/L	0.000214	0.00001 mg/L	0.000214			>999.9%
Cr 267.716†	11.2	0.00017 mg/L	0.000288	0.00017 mg/L	0.000288			166.02%
Cu 324.752†	115.6	0.00059 mg/L	0.000663	0.00059 mg/L	0.000663			112.84%
Fe 273.955†	883.5	0.03976 mg/L	0.002225	0.03976 mg/L	0.002225			5.60%
Mg 279.077†	50919.5	3.1782 mg/L	0.03718	3.1782 mg/L	0.03718			1.17%
Mn 257.610†	3814.4	0.00702 mg/L	0.000116	0.00702 mg/L	0.000116			1.65%
Ni 231.604†	55.4	0.00203 mg/L	0.000270	0.00203 mg/L	0.000270			13.34%
Pb 220.353†	2.7	0.00057 mg/L	0.002883	0.00057 mg/L	0.002883			504.05%
Sb 206.836†	-1.0	-0.00113 mg/L	0.001752	-0.00113 mg/L	0.001752			155.69%
Se 196.026†	3.0	0.00677 mg/L	0.002690	0.00677 mg/L	0.002690			39.74%
Tl 190.801†	1.9	0.00321 mg/L	0.003766	0.00321 mg/L	0.003766			117.16%
V 292.402†	24.8	0.00022 mg/L	0.000322	0.00022 mg/L	0.000322			143.75%
Zn 206.200†	155.4	0.00793 mg/L	0.000151	0.00793 mg/L	0.000151			1.91%
Cd 226.502†	-2.0	-0.00006 mg/L	0.000062	-0.00006 mg/L	0.000062			100.69%
Ti 334.940†	5.2	0.00008 mg/L	0.000063	0.00008 mg/L	0.000063			75.87%
Ca 227.546†	1384.7	7.7452 mg/L	0.05108	7.7452 mg/L	0.05108			0.66%
Na 589.592†	46529.9	10.346 mg/L	0.1680	10.346 mg/L	0.1680			1.62%
K 766.490†	543.5	0.55158 mg/L	0.045483	0.55158 mg/L	0.045483			8.25%

Sequence No.: 33

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 4:08:07 PM

Data Type: Reprocessed on 8/31/2012 8:26:09 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1677953.4	96.084 %		0.3354				0.35%
Lu 261.542	1094437.1	96.43 %		0.299				0.31%
Ag 328.068†	199879.6	1.2732 mg/L	0.00941	1.2732 mg/L	0.00941			0.74%
QC value within limits for Ag 328.068 Recovery = 101.86%								
Al 308.215†	189441.3	10.184 mg/L	0.0707	10.184 mg/L	0.0707			0.69%
QC value within limits for Al 308.215 Recovery = 101.84%								
As 188.979†	378.3	0.50834 mg/L	0.006656	0.50834 mg/L	0.006656			1.31%
QC value within limits for As 188.979 Recovery = 101.67%								
Ba 233.527†	818839.8	10.531 mg/L	0.0032	10.531 mg/L	0.0032			0.03%

QC value within limits for Ba	233.527	Recovery = 105.31%				
Be 313.107†	583577.7	0.25152 mg/L	0.000242	0.25152 mg/L	0.000242	0.10%
QC value within limits for Be	313.107	Recovery = 100.61%				
Co 228.616†	87489.2	2.6519 mg/L	0.01773	2.6519 mg/L	0.01773	0.67%
QC value within limits for Co	228.616	Recovery = 106.08%				
Cr 267.716†	65293.2	1.0168 mg/L	0.00810	1.0168 mg/L	0.00810	0.80%
QC value within limits for Cr	267.716	Recovery = 101.68%				
Cu 324.752†	251446.9	1.2709 mg/L	0.00798	1.2709 mg/L	0.00798	0.63%
QC value within limits for Cu	324.752	Recovery = 101.67%				
Fe 273.955†	115467.3	5.2000 mg/L	0.03971	5.2000 mg/L	0.03971	0.76%
QC value within limits for Fe	273.955	Recovery = 104.00%				
Mg 279.077†	411573.3	25.686 mg/L	0.0202	25.686 mg/L	0.0202	0.08%
QC value within limits for Mg	279.077	Recovery = 102.75%				
Mn 257.610†	1386700.4	2.5625 mg/L	0.00353	2.5625 mg/L	0.00353	0.14%
QC value within limits for Mn	257.610	Recovery = 102.50%				
Ni 231.604†	71274.4	2.6226 mg/L	0.02000	2.6226 mg/L	0.02000	0.76%
QC value within limits for Ni	231.604	Recovery = 104.90%				
Pb 220.353†	2393.9	0.51121 mg/L	0.001178	0.51121 mg/L	0.001178	0.23%
QC value within limits for Pb	220.353	Recovery = 102.24%				
Sb 206.836†	598.4	0.57209 mg/L	0.003080	0.57209 mg/L	0.003080	0.54%
QC value greater than the upper limit for Sb	206.836	Recovery = 114.42%				
Se 196.026†	228.0	0.51535 mg/L	0.012428	0.51535 mg/L	0.012428	2.41%
QC value within limits for Se	196.026	Recovery = 103.07%				
Tl 190.801†	308.0	0.48626 mg/L	0.006169	0.48626 mg/L	0.006169	1.27%
QC value within limits for Tl	190.801	Recovery = 97.25%				
V 292.402†	285796.7	2.5661 mg/L	0.01953	2.5661 mg/L	0.01953	0.76%
QC value within limits for V	292.402	Recovery = 102.65%				
Zn 206.200†	50889.4	2.6006 mg/L	0.02020	2.6006 mg/L	0.02020	0.78%
QC value within limits for Zn	206.200	Recovery = 104.02%				
Cd 226.502†	12864.2	0.25260 mg/L	0.001576	0.25260 mg/L	0.001576	0.62%
QC value within limits for Cd	226.502	Recovery = 101.04%				
Ti 334.940†	247263.6	0.51657 mg/L	0.001387	0.51657 mg/L	0.001387	0.27%
QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca 227.546†	4563.6	24.649 mg/L	0.1320	24.649 mg/L	0.1320	0.54%
QC value within limits for Ca	227.546	Recovery = 98.60%				
Na 589.592†	116389.3	25.879 mg/L	0.4947	25.879 mg/L	0.4947	1.91%
QC value within limits for Na	589.592	Recovery = 103.52%				
K 766.490†	25832.3	26.215 mg/L	0.5812	26.215 mg/L	0.5812	2.22%
QC value within limits for K	766.490	Recovery = 104.86%				
QC Failed. Continue with analysis.						

Sequence No.: 34

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 4:11:50 PM

Data Type: Reprocessed on 8/31/2012 8:26:10 AM

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 360.073	1735080.8	99.356 %	0.3536			0.36%
Lu 261.542	1124670.9	99.09 %	0.492			0.50%
Ag 328.068†	-22.9	-0.00015 mg/L	0.000590	-0.00015 mg/L	0.000590	405.52%
QC value within limits for Ag	328.068	Recovery = Not calculated				
Al 308.215†	128.1	0.00690 mg/L	0.002044	0.00690 mg/L	0.002044	29.62%
QC value within limits for Al	308.215	Recovery = Not calculated				
As 188.979†	-1.0	-0.00127 mg/L	0.003236	-0.00127 mg/L	0.003236	254.89%
QC value within limits for As	188.979	Recovery = Not calculated				
Ba 233.527†	34.0	0.00044 mg/L	0.000077	0.00044 mg/L	0.000077	17.61%
QC value within limits for Ba	233.527	Recovery = Not calculated				
Be 313.107†	120.1	0.00005 mg/L	0.000028	0.00005 mg/L	0.000028	53.68%
QC value within limits for Be	313.107	Recovery = Not calculated				
Co 228.616†	9.5	0.00029 mg/L	0.000072	0.00029 mg/L	0.000072	24.97%
QC value within limits for Co	228.616	Recovery = Not calculated				
Cr 267.716†	9.2	0.00014 mg/L	0.000107	0.00014 mg/L	0.000107	74.22%
QC value within limits for Cr	267.716	Recovery = Not calculated				
Cu 324.752†	9.6	0.00005 mg/L	0.000333	0.00005 mg/L	0.000333	682.34%
QC value within limits for Cu	324.752	Recovery = Not calculated				

Fe 273.955†	40.5	0.00182 mg/L	0.000194	0.00182 mg/L	0.000194	10.62%
QC value within limits for Fe 273.955	Recovery =	Not calculated				
Mg 279.077†	44.4	0.00277 mg/L	0.003309	0.00277 mg/L	0.003309	119.33%
QC value within limits for Mg 279.077	Recovery =	Not calculated				
Mn 257.610†	71.0	0.00013 mg/L	0.000052	0.00013 mg/L	0.000052	39.69%
QC value within limits for Mn 257.610	Recovery =	Not calculated				
Ni 231.604†	8.7	0.00032 mg/L	0.000219	0.00032 mg/L	0.000219	68.27%
QC value within limits for Ni 231.604	Recovery =	Not calculated				
Pb 220.353†	4.9	0.00104 mg/L	0.000549	0.00104 mg/L	0.000549	53.02%
QC value within limits for Pb 220.353	Recovery =	Not calculated				
Sb 206.836†	1.9	0.00191 mg/L	0.004198	0.00191 mg/L	0.004198	220.24%
QC value within limits for Sb 206.836	Recovery =	Not calculated				
Se 196.026†	2.2	0.00492 mg/L	0.010868	0.00492 mg/L	0.010868	220.77%
QC value within limits for Se 196.026	Recovery =	Not calculated				
Tl 190.801†	-0.7	-0.00123 mg/L	0.003178	-0.00123 mg/L	0.003178	257.35%
QC value within limits for Tl 190.801	Recovery =	Not calculated				
V 292.402†	13.4	0.00012 mg/L	0.000360	0.00012 mg/L	0.000360	299.09%
QC value within limits for V 292.402	Recovery =	Not calculated				
Zn 206.200†	20.5	0.00104 mg/L	0.000094	0.00104 mg/L	0.000094	8.98%
QC value within limits for Zn 206.200	Recovery =	Not calculated				
Cd 226.502†	1.7	0.00003 mg/L	0.000093	0.00003 mg/L	0.000093	278.35%
QC value within limits for Cd 226.502	Recovery =	Not calculated				
Ti 334.940†	68.1	0.00014 mg/L	0.000034	0.00014 mg/L	0.000034	23.75%
QC value within limits for Ti 334.940	Recovery =	Not calculated				
Ca 227.546†	-6.8	-0.03811 mg/L	0.085025	-0.03811 mg/L	0.085025	223.10%
QC value within limits for Ca 227.546	Recovery =	Not calculated				
Na 589.592†	17.2	0.00383 mg/L	0.006588	0.00383 mg/L	0.006588	172.00%
QC value within limits for Na 589.592	Recovery =	Not calculated				
K 766.490†	-34.3	-0.03480 mg/L	0.021703	-0.03480 mg/L	0.021703	62.36%
QC value within limits for K 766.490	Recovery =	Not calculated				
All analyte(s) passed QC.						

Sequence No.: 35

Sample ID: L1808-04A~LMW-18F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 8/30/2012 4:15:32 PM

Data Type: Reprocessed on 8/31/2012 8:26:11 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-04A~LMW-18F

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1703972.2	97.574	%	0.3911				0.40%
Lu 261.542	1110141.4	97.81	%	0.499				0.51%
Ag 328.068†	-76.0	-0.00063	mg/L	0.000594	-0.00063	mg/L	0.000594	93.87%
Al 308.215†	3130.1	0.16430	mg/L	0.007256	0.16430	mg/L	0.007256	4.42%
As 188.979†	-1.0	-0.00089	mg/L	0.002453	-0.00089	mg/L	0.002453	275.77%
Ba 233.527†	5039.3	0.06479	mg/L	0.000350	0.06479	mg/L	0.000350	0.54%
Be 313.107†	85.8	0.00005	mg/L	0.000018	0.00005	mg/L	0.000018	38.34%
Co 228.616†	6.8	0.00019	mg/L	0.000238	0.00019	mg/L	0.000238	127.11%
Cr 267.716†	205.7	0.00309	mg/L	0.000154	0.00309	mg/L	0.000154	4.98%
Cu 324.752†	249.0	0.00128	mg/L	0.000289	0.00128	mg/L	0.000289	22.49%
Fe 273.955†	6153.2	0.27688	mg/L	0.003471	0.27688	mg/L	0.003471	1.25%
Mg 279.077†	58534.0	3.6535	mg/L	0.01749	3.6535	mg/L	0.01749	0.48%
Mn 257.610†	291740.5	0.53916	mg/L	0.001130	0.53916	mg/L	0.001130	0.21%
Ni 231.604†	40.3	0.00146	mg/L	0.000343	0.00146	mg/L	0.000343	23.44%
Pb 220.353†	3.4	0.00078	mg/L	0.001062	0.00078	mg/L	0.001062	135.47%
Sb 206.836†	2.5	0.00212	mg/L	0.002424	0.00212	mg/L	0.002424	114.35%
Se 196.026†	-0.7	-0.00141	mg/L	0.004007	-0.00141	mg/L	0.004007	283.64%
Tl 190.801†	1.5	0.00271	mg/L	0.002232	0.00271	mg/L	0.002232	82.24%
V 292.402†	37.9	0.00035	mg/L	0.000380	0.00035	mg/L	0.000380	109.40%
Zn 206.200†	152.6	0.00802	mg/L	0.000128	0.00802	mg/L	0.000128	1.59%
Cd 226.502†	-4.4	-0.00015	mg/L	0.000115	-0.00015	mg/L	0.000115	77.95%
Ti 334.940†	2814.9	0.00608	mg/L	0.000380	0.00608	mg/L	0.000380	6.26%
Ca 227.546†	2808.1	15.706	mg/L	0.1133	15.706	mg/L	0.1133	0.72%
Na 589.592†	116910.2	25.995	mg/L	0.0994	25.995	mg/L	0.0994	0.38%
K 766.490†	8589.8	8.7171	mg/L	0.05344	8.7171	mg/L	0.05344	0.61%

=====
Analysis Begun

Start Time: 8/31/2012 8:50:09 AM

Plasma On Time: 8/31/2012 8:12:42 AM

Logged In Analyst: mitOptima3

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N3102302 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0830B.sif

Batch ID: Null

Results Data Set: B12083101

Results Library: C:\pe\Administrator\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: S0

Date Collected: 8/31/2012 8:50:26 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1742458.8	18674.49	1.07%	100.00	%
Lu 261.542	1118733.9	13409.91	1.20%	100.0	%
Al 308.215†	2624.9	90.82	3.46%	[0.00]	mg/L
Co 228.616†	-22.4	3.22	14.34%	[0.00]	mg/L
Cr 267.716†	45.6	1.94	4.26%	[0.00]	mg/L
Cu 324.752†	3459.8	57.66	1.67%	[0.00]	mg/L
Fe 273.955†	-154.6	6.03	3.90%	[0.00]	mg/L
Mg 279.077†	-927.2	31.33	3.38%	[0.00]	mg/L
Mn 257.610†	-251.7	22.98	9.13%	[0.00]	mg/L
Ni 231.604†	-25.4	12.16	47.85%	[0.00]	mg/L
Sb 206.836†	28.3	7.36	26.02%	[0.00]	mg/L
Tl 190.801†	-8.1	0.92	11.36%	[0.00]	mg/L
V 292.402†	-56.5	25.73	45.57%	[0.00]	mg/L
Ti 334.940†	-138.7	39.94	28.80%	[0.00]	mg/L
Ca 227.546†	150.3	11.93	7.94%	[0.00]	mg/L

=====
Sequence No.: 2

Autosampler Location: 9

Sample ID: S1

Date Collected: 8/31/2012 8:53:56 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1649856.3	15383.94	0.93%	94.686	%
Lu 261.542	1067604.5	11314.18	1.06%	95.43	%
Al 308.215†	386057.9	1038.19	0.27%	[20]	mg/L
Co 228.616†	166814.1	367.35	0.22%	[5]	mg/L
Cr 267.716†	132633.0	511.84	0.39%	[2]	mg/L
Cu 324.752†	525662.5	1203.37	0.23%	[2.5]	mg/L
Fe 273.955†	226395.2	871.24	0.38%	[10]	mg/L
Mg 279.077†	817312.0	1806.48	0.22%	[50]	mg/L
Mn 257.610†	2723553.7	9193.84	0.34%	[5]	mg/L
Ni 231.604†	138431.0	362.21	0.26%	[5]	mg/L
Sb 206.836†	1103.0	19.38	1.76%	[1]	mg/L
Tl 190.801†	647.8	9.17	1.42%	[1]	mg/L
V 292.402†	578011.4	1889.32	0.33%	[5]	mg/L
Ti 334.940†	523874.6	2109.80	0.40%	[1]	mg/L
Ca 227.546†	9227.6	137.36	1.49%	[50]	mg/L

=====
Sequence No.: 3

Autosampler Location: 10

Sample ID: S2

Date Collected: 8/31/2012 8:57:23 AM

Analyst:

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1685860.2	28980.02	1.72%	96.752	%
Lu 261.542	1090686.4	19065.09	1.75%	97.49	%
Al 308.215†	188063.0	3926.37	2.09%	[10]	mg/L
Co 228.616†	83666.6	1579.87	1.89%	[2.5]	mg/L
Cr 267.716†	65965.3	1089.53	1.65%	[1]	mg/L
Cu 324.752†	253359.0	5105.81	2.02%	[1.25]	mg/L
Fe 273.955†	112824.8	2292.77	2.03%	[5]	mg/L
Mg 279.077†	407004.1	10858.36	2.67%	[25]	mg/L
Mn 257.610†	1367730.1	36947.91	2.70%	[2.5]	mg/L
Ni 231.604†	69482.8	1176.66	1.69%	[2.5]	mg/L
Sb 206.836†	552.9	13.66	2.47%	[0.5]	mg/L
Tl 190.801†	328.6	6.53	1.99%	[0.5]	mg/L
V 292.402†	282689.9	5120.56	1.81%	[2.5]	mg/L
Ti 334.940†	258535.1	7361.65	2.85%	[0.5]	mg/L
Ca 227.546†	4488.5	126.25	2.81%	[25]	mg/L

=====

Sequence No.: 4

Sample ID: S3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 8/31/2012 9:00:55 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1742032.6	3126.27	0.18%	99.976	%
Lu 261.542	1122536.1	1557.46	0.14%	100.3	%
Al 308.215†	3751.2	72.71	1.94%	[0.2]	mg/L
Co 228.616†	1728.1	3.81	0.22%	[0.05]	mg/L
Cr 267.716†	1394.4	14.54	1.04%	[0.02]	mg/L
Cu 324.752†	5235.7	33.63	0.64%	[0.025]	mg/L
Fe 273.955†	2424.1	75.61	3.12%	[0.1]	mg/L
Mg 279.077†	8681.8	97.64	1.12%	[0.5]	mg/L
Mn 257.610†	29326.9	406.20	1.39%	[0.05]	mg/L
Ni 231.604†	1428.6	5.98	0.42%	[0.05]	mg/L
Sb 206.836†	23.4	1.54	6.57%	[0.01]	mg/L
Tl 190.801†	7.7	1.62	20.97%	[0.01]	mg/L
V 292.402†	5844.5	81.98	1.40%	[0.05]	mg/L
Ti 334.940†	5424.0	116.68	2.15%	[0.01]	mg/L
Ca 227.546†	103.3	2.73	2.64%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	157500	0.00000	0.999981	
Al 308.215	3	Lin Thru 0	0.0	19200	0.00000	0.999946	
As 188.979	3	Lin Thru 0	0.0	757.8	0.00000	0.999995	
Ba 233.527	3	Lin Thru 0	0.0	77780	0.00000	0.999943	
Be 313.107	3	Lin Thru 0	0.0	2330000	0.00000	0.999997	
Co 228.616	3	Lin Thru 0	0.0	33380	0.00000	0.999999	
Cr 267.716	3	Lin Thru 0	0.0	66250	0.00000	0.999998	
Cu 324.752	3	Lin Thru 0	0.0	208700	0.00000	0.999895	
Fe 273.955	3	Lin Thru 0	0.0	22620	0.00000	0.999999	
Mg 279.077	3	Lin Thru 0	0.0	16330	0.00000	0.999999	
Mn 257.610	3	Lin Thru 0	0.0	545200	0.00000	0.999998	
Ni 231.604	3	Lin Thru 0	0.0	27710	0.00000	0.999999	
Pb 220.353	3	Lin Thru 0	0.0	4702	0.00000	0.999988	
Sb 206.836	3	Lin Thru 0	0.0	1104	0.00000	0.999949	
Se 196.026	3	Lin Thru 0	0.0	447.6	0.00000	0.999981	
Tl 190.801	3	Lin Thru 0	0.0	649.7	0.00000	0.999982	
V 292.402	3	Lin Thru 0	0.0	115100	0.00000	0.999961	

Zn 206.200	3	Lin Thru 0	0.0	19610	0.00000	0.999995
Cd 226.502	3	Lin Thru 0	0.0	50970	0.00000	0.999998
Ti 334.940	3	Lin Thru 0	0.0	522500	0.00000	0.999986
Ca 227.546	3	Lin Thru 0	0.0	183.6	0.00000	0.999940
Na 589.592	3	Lin Thru 0	0.0	4497	0.00000	1.000000
K 766.490	3	Lin Thru 0	0.0	985.4	0.00000	1.000000

Sequence No.: 5

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 9:04:26 AM

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 360.073	1691780.5	97.092 %	0.2488			0.26%
Lu 261.542	1095984.6	97.97 %	0.289			0.30%
Al 308.215†	182386.1	9.4874 mg/L	0.02053	9.4874 mg/L	0.02053	0.22%
QC value within limits for Al 308.215		Recovery = 94.87%				
Co 228.616†	83416.0	2.4971 mg/L	0.00561	2.4971 mg/L	0.00561	0.22%
QC value within limits for Co 228.616		Recovery = 99.88%				
Cr 267.716†	63033.0	0.95173 mg/L	0.002067	0.95173 mg/L	0.002067	0.22%
QC value within limits for Cr 267.716		Recovery = 95.17%				
Cu 324.752†	246105.8	1.1801 mg/L	0.00195	1.1801 mg/L	0.00195	0.16%
QC value within limits for Cu 324.752		Recovery = 94.41%				
Fe 273.955†	110384.9	4.8829 mg/L	0.01090	4.8829 mg/L	0.01090	0.22%
QC value within limits for Fe 273.955		Recovery = 97.66%				
Mg 279.077†	401083.6	24.554 mg/L	0.0503	24.554 mg/L	0.0503	0.21%
QC value within limits for Mg 279.077		Recovery = 98.22%				
Mn 257.610†	1337656.3	2.4532 mg/L	0.00296	2.4532 mg/L	0.00296	0.12%
QC value within limits for Mn 257.610		Recovery = 98.13%				
Ni 231.604†	68359.7	2.4667 mg/L	0.00546	2.4667 mg/L	0.00546	0.22%
QC value within limits for Ni 231.604		Recovery = 98.67%				
Sb 206.836†	560.9	0.49255 mg/L	0.005179	0.49255 mg/L	0.005179	1.05%
QC value within limits for Sb 206.836		Recovery = 98.51%				
Tl 190.801†	315.9	0.46315 mg/L	0.004291	0.46315 mg/L	0.004291	0.93%
QC value within limits for Tl 190.801		Recovery = 92.63%				
V 292.402†	275662.5	2.3963 mg/L	0.00588	2.3963 mg/L	0.00588	0.25%
QC value within limits for V 292.402		Recovery = 95.85%				
Ti 334.940†	249839.5	0.47789 mg/L	0.000407	0.47789 mg/L	0.000407	0.09%
QC value within limits for Ti 334.940		Recovery = Not calculated				
Ca 227.546†	4416.3	23.227 mg/L	0.1345	23.227 mg/L	0.1345	0.58%
QC value within limits for Ca 227.546		Recovery = 92.91%				

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 9:07:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1771835.2	101.69 %	0.617			0.61%
Lu 261.542	1139411.0	101.8 %	0.67			0.66%
Al 308.215†	-81.7	-0.00427 mg/L	0.001743	-0.00427 mg/L	0.001743	40.82%
QC value within limits for Al 308.215		Recovery = Not calculated				
Co 228.616†	17.7	0.00053 mg/L	0.000055	0.00053 mg/L	0.000055	10.40%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	-4.9	-0.00007 mg/L	0.000124	-0.00007 mg/L	0.000124	168.04%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	45.2	0.00022 mg/L	0.000149	0.00022 mg/L	0.000149	68.63%
QC value within limits for Cu 324.752		Recovery = Not calculated				
Fe 273.955†	27.8	0.00123 mg/L	0.000062	0.00123 mg/L	0.000062	5.04%
QC value within limits for Fe 273.955		Recovery = Not calculated				

Mg 279.077† 58.4 0.00358 mg/L 0.004083 0.00358 mg/L 0.004083 114.16%
 QC value within limits for Mg 279.077 Recovery = Not calculated
 Mn 257.610† 58.0 0.00011 mg/L 0.000080 0.00011 mg/L 0.000080 75.14%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Ni 231.604† 9.6 0.00035 mg/L 0.000242 0.00035 mg/L 0.000242 69.67%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Sb 206.836† 9.8 0.00891 mg/L 0.004253 0.00891 mg/L 0.004253 47.73%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Tl 190.801† -0.3 -0.00044 mg/L 0.001423 -0.00044 mg/L 0.001423 325.30%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 43.8 0.00038 mg/L 0.000288 0.00038 mg/L 0.000288 75.61%
 QC value within limits for V 292.402 Recovery = Not calculated
 Ti 334.940† 107.7 0.00021 mg/L 0.000061 0.00021 mg/L 0.000061 29.65%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 12.9 0.07017 mg/L 0.023685 0.07017 mg/L 0.023685 33.75%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 7

Sample ID: LLICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 8/31/2012 9:11:28 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1754722.7	100.70 %		1.308			1.30%
Lu 261.542	1130901.5	101.1 %		1.32			1.30%
Al 308.215†	3541.8	0.18417 mg/L		0.003115	0.18417 mg/L	0.003115	1.69%
QC value within limits for Al 308.215				92.08%			
Co 228.616†	1680.1	0.05027 mg/L		0.000560	0.05027 mg/L	0.000560	1.11%
QC value within limits for Co 228.616				100.55%			
Cr 267.716†	1289.2	0.01947 mg/L		0.000529	0.01947 mg/L	0.000529	2.72%
QC value within limits for Cr 267.716				97.33%			
Cu 324.752†	5928.9	0.02843 mg/L		0.000414	0.02843 mg/L	0.000414	1.46%
QC value within limits for Cu 324.752				94.78%			
Fe 273.955†	4388.2	0.19404 mg/L		0.004757	0.19404 mg/L	0.004757	2.45%
QC value within limits for Fe 273.955				97.02%			
Mg 279.077†	8372.9	0.51259 mg/L		0.010820	0.51259 mg/L	0.010820	2.11%
QC value within limits for Mg 279.077				102.52%			
Mn 257.610†	27519.4	0.05047 mg/L		0.000875	0.05047 mg/L	0.000875	1.73%
QC value within limits for Mn 257.610				100.94%			
Ni 231.604†	1401.8	0.05057 mg/L		0.000706	0.05057 mg/L	0.000706	1.40%
QC value within limits for Ni 231.604				101.14%			
Sb 206.836†	25.1	0.02246 mg/L		0.003315	0.02246 mg/L	0.003315	14.76%
QC value within limits for Sb 206.836				112.30%			
Tl 190.801†	14.2	0.02140 mg/L		0.002425	0.02140 mg/L	0.002425	11.33%
QC value within limits for Tl 190.801				107.00%			
V 292.402†	5559.4	0.04832 mg/L		0.000689	0.04832 mg/L	0.000689	1.43%
QC value within limits for V 292.402				96.64%			
Ti 334.940†	9603.4	0.01838 mg/L		0.000294	0.01838 mg/L	0.000294	1.60%
QC value within limits for Ti 334.940				91.88%			
Ca 227.546†	134.6	0.71567 mg/L		0.069035	0.71567 mg/L	0.069035	9.65%
QC value within limits for Ca 227.546				89.46%			

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 8/31/2012 9:14:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2792198.3	160.24 %		7.179			4.48%

Internal Standard Check greater than the upper limit for Y 360.073. Recovery = 160.2%

Lu 261.542	1808515.8	161.7 %	7.44			4.60%
Internal Standard Check greater than the upper limit for Lu 261.542. Recovery = 161.7%						
Al 308.215†	-1696.2	-0.08827 mg/L	0.003968	-0.08827 mg/L	0.003968	4.50%
QC value less than the lower limit for Al 308.215 Recovery = -0.02%						
Co 228.616†	8.4	0.00025 mg/L	0.000104	0.00025 mg/L	0.000104	41.44%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-18.0	-0.00027 mg/L	0.000017	-0.00027 mg/L	0.000017	6.39%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2241.6	-0.01074 mg/L	0.000554	-0.01074 mg/L	0.000554	5.16%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 273.955†	71.5	0.00316 mg/L	0.000109	0.00316 mg/L	0.000109	3.44%
QC value less than the lower limit for Fe 273.955 Recovery = 0.00%						
Mg 279.077†	423.8	0.02595 mg/L	0.003883	0.02595 mg/L	0.003883	14.96%
QC value less than the lower limit for Mg 279.077 Recovery = 0.01%						
Mn 257.610†	123.6	0.00023 mg/L	0.000005	0.00023 mg/L	0.000005	2.22%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Ni 231.604†	3.2	0.00011 mg/L	0.000110	0.00011 mg/L	0.000110	98.07%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Sb 206.836†	-10.6	-0.00961 mg/L	0.001873	-0.00961 mg/L	0.001873	19.48%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Tl 190.801†	3.5	0.00537 mg/L	0.002684	0.00537 mg/L	0.002684	50.02%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	36.0	0.00032 mg/L	0.000216	0.00032 mg/L	0.000216	68.41%
QC value within limits for V 292.402 Recovery = Not calculated						
Ti 334.940†	115.3	0.00021 mg/L	0.000006	0.00021 mg/L	0.000006	2.73%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	-61.6	-0.33595 mg/L	0.055725	-0.33595 mg/L	0.055725	16.59%
QC value less than the lower limit for Ca 227.546 Recovery = -0.07%						

Internal Standard Check failed. Continue with analysis.

QC Failed. Continue with analysis.

User canceled analysis.

=====
Analysis Begun

Start Time: 8/31/2012 9:18:19 AM

Plasma On Time: 8/31/2012 8:12:42 AM

Logged In Analyst: mitOptima3

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N3102302 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0830B.sif

Batch ID: Null

Results Data Set: B12083101

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 5

Sample ID: ICSA

Date Collected: 8/31/2012 9:18:19 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1527445.7	87.660 %		0.4641			0.53%
Lu 261.542	985458.0	88.09 %		0.421			0.48%
Al 308.215†	9854008.6	513.00 mg/L		7.544	513.00 mg/L	7.544	1.47%
QC value within limits for Al 308.215 Recovery = 102.60%							
Co 228.616†	141.2	-0.00014 mg/L		0.000301	-0.00014 mg/L	0.000301	217.35%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	204.5	0.00308 mg/L		0.000226	0.00308 mg/L	0.000226	7.32%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-2705.2	0.00383 mg/L		0.000398	0.00383 mg/L	0.000398	10.39%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	4117589.7	181.99 mg/L		0.749	181.99 mg/L	0.749	0.41%
QC value within limits for Fe 273.955 Recovery = 91.00%							
Mg 279.077†	7963137.2	487.55 mg/L		7.874	487.55 mg/L	7.874	1.62%
QC value within limits for Mg 279.077 Recovery = 97.51%							
Mn 257.610†	-128.2	-0.00511 mg/L		0.000207	-0.00511 mg/L	0.000207	4.05%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	-20.9	-0.00283 mg/L		0.000071	-0.00283 mg/L	0.000071	2.53%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Sb 206.836†	55.4	-0.00542 mg/L		0.002169	-0.00542 mg/L	0.002169	40.05%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Tl 190.801†	-17.4	0.00769 mg/L		0.002934	0.00769 mg/L	0.002934	38.14%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	-1607.5	-0.00834 mg/L		0.000377	-0.00834 mg/L	0.000377	4.52%
QC value within limits for V 292.402 Recovery = Not calculated							
Ti 334.940†	-6113.5	-0.01174 mg/L		0.000059	-0.01174 mg/L	0.000059	0.51%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	96689.6	525.07 mg/L		1.999	525.07 mg/L	1.999	0.38%
QC value within limits for Ca 227.546 Recovery = 105.01%							

All analyte(s) passed QC.
=====

Sequence No.: 2

Autosampler Location: 6

Sample ID: ICSAB

Date Collected: 8/31/2012 9:21:56 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1523349.3	87.425 %		1.1382			1.30%
Lu 261.542	982929.4	87.86 %		1.173			1.33%
Al 308.215†	9695844.3	504.76 mg/L		6.658	504.76 mg/L	6.658	1.32%
QC value within limits for Al 308.215 Recovery = 100.95%							
Co 228.616†	15520.1	0.46047 mg/L		0.004902	0.46047 mg/L	0.004902	1.06%
QC value within limits for Co 228.616 Recovery = 92.09%							

Cr	267.716†	32213.1	0.48631 mg/L	0.000437	0.48631 mg/L	0.000437	0.09%
	QC value within limits for Cr	267.716	Recovery = 97.26%				
Cu	324.752†	104858.0	0.51896 mg/L	0.000981	0.51896 mg/L	0.000981	0.19%
	QC value within limits for Cu	324.752	Recovery = 103.79%				
Fe	273.955†	4048282.5	178.93 mg/L	0.389	178.93 mg/L	0.389	0.22%
	QC value within limits for Fe	273.955	Recovery = 89.47%				
Mg	279.077†	7821516.9	478.87 mg/L	6.436	478.87 mg/L	6.436	1.34%
	QC value within limits for Mg	279.077	Recovery = 95.77%				
Mn	257.610†	263976.2	0.47936 mg/L	0.001113	0.47936 mg/L	0.001113	0.23%
	QC value within limits for Mn	257.610	Recovery = 95.87%				
Ni	231.604†	24828.2	0.89401 mg/L	0.009759	0.89401 mg/L	0.009759	1.09%
	QC value within limits for Ni	231.604	Recovery = 89.40%				
Sb	206.836†	731.8	0.59992 mg/L	0.010335	0.59992 mg/L	0.010335	1.72%
	QC value within limits for Sb	206.836	Recovery = 99.99%				
Tl	190.801†	46.8	0.10124 mg/L	0.005065	0.10124 mg/L	0.005065	5.00%
	QC value within limits for Tl	190.801	Recovery = 101.24%				
V	292.402†	54867.4	0.48318 mg/L	0.001174	0.48318 mg/L	0.001174	0.24%
	QC value within limits for V	292.402	Recovery = 96.64%				
Ti	334.940†	-5929.9	-0.01149 mg/L	0.000259	-0.01149 mg/L	0.000259	2.25%
	QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca	227.546†	94731.8	514.27 mg/L	1.318	514.27 mg/L	1.318	0.26%
	QC value within limits for Ca	227.546	Recovery = 102.85%				

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 9:25:29 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1724970.3	98.996 %		0.9606			0.97%
Lu 261.542	1116702.2	99.82 %		0.941			0.94%
Al 308.215†	177872.6	9.2527 mg/L		0.27011	9.2527 mg/L	0.27011	2.92%
	QC value within limits for Al	308.215	Recovery = 92.53%				
Co 228.616†	81316.3	2.4343 mg/L		0.07206	2.4343 mg/L	0.07206	2.96%
	QC value within limits for Co	228.616	Recovery = 97.37%				
Cr 267.716†	61394.5	0.92699 mg/L		0.027964	0.92699 mg/L	0.027964	3.02%
	QC value within limits for Cr	267.716	Recovery = 92.70%				
Cu 324.752†	239174.3	1.1469 mg/L		0.03193	1.1469 mg/L	0.03193	2.78%
	QC value within limits for Cu	324.752	Recovery = 91.75%				
Fe 273.955†	108362.5	4.7934 mg/L		0.13875	4.7934 mg/L	0.13875	2.89%
	QC value within limits for Fe	273.955	Recovery = 95.87%				
Mg 279.077†	387389.6	23.716 mg/L		0.0714	23.716 mg/L	0.0714	0.30%
	QC value within limits for Mg	279.077	Recovery = 94.86%				
Mn 257.610†	1293308.0	2.3719 mg/L		0.00239	2.3719 mg/L	0.00239	0.10%
	QC value within limits for Mn	257.610	Recovery = 94.87%				
Ni 231.604†	66493.2	2.3993 mg/L		0.07208	2.3993 mg/L	0.07208	3.00%
	QC value within limits for Ni	231.604	Recovery = 95.97%				
Sb 206.836†	535.4	0.46982 mg/L		0.003722	0.46982 mg/L	0.003722	0.79%
	QC value within limits for Sb	206.836	Recovery = 93.96%				
Tl 190.801†	299.2	0.43805 mg/L		0.003666	0.43805 mg/L	0.003666	0.84%
	QC value less than the lower limit for Tl	190.801	Recovery = 87.61%				
V 292.402†	268454.9	2.3337 mg/L		0.07037	2.3337 mg/L	0.07037	3.02%
	QC value within limits for V	292.402	Recovery = 93.35%				
Ti 334.940†	235658.7	0.45076 mg/L		0.012977	0.45076 mg/L	0.012977	2.88%
	QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca 227.546†	4262.0	22.408 mg/L		0.2104	22.408 mg/L	0.2104	0.94%
	QC value within limits for Ca	227.546	Recovery = 89.63%				

QC Failed. Continue with analysis.

Sequence No.: 4

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 9:29:00 AM

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 360.073	1794664.5	103.00	%	0.263			0.25%
Lu 261.542	1154517.2	103.2	%	0.28			0.27%
Al 308.215†	-92.3	-0.00482	mg/L	0.003166	-0.00482 mg/L	0.003166	65.70%
QC value within limits for Al 308.215 Recovery = Not calculated							
Co 228.616†	19.6	0.00059	mg/L	0.000205	0.00059 mg/L	0.000205	34.86%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	21.4	0.00032	mg/L	0.000235	0.00032 mg/L	0.000235	72.72%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-5.2	-0.00002	mg/L	0.000102	-0.00002 mg/L	0.000102	419.35%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	89.0	0.00393	mg/L	0.000236	0.00393 mg/L	0.000236	6.00%
QC value within limits for Fe 273.955 Recovery = Not calculated							
Mg 279.077†	65.5	0.00401	mg/L	0.002190	0.00401 mg/L	0.002190	54.63%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	70.4	0.00013	mg/L	0.000060	0.00013 mg/L	0.000060	46.08%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	8.1	0.00029	mg/L	0.000298	0.00029 mg/L	0.000298	101.55%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Sb 206.836†	7.2	0.00654	mg/L	0.001133	0.00654 mg/L	0.001133	17.32%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Tl 190.801†	-0.8	-0.00121	mg/L	0.002883	-0.00121 mg/L	0.002883	237.61%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	35.6	0.00031	mg/L	0.000195	0.00031 mg/L	0.000195	62.79%
QC value within limits for V 292.402 Recovery = Not calculated							
Ti 334.940†	88.6	0.00017	mg/L	0.000061	0.00017 mg/L	0.000061	35.52%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	9.2	0.04966	mg/L	0.018048	0.04966 mg/L	0.018048	36.34%
QC value within limits for Ca 227.546 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: MB-67889-PBW

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 8/31/2012 9:32:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MB-67889-PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1778978.1	102.10	%	0.461			0.45%
Lu 261.542	1145924.4	102.4	%	0.53			0.52%
Al 308.215†	-31.3	-0.00164	mg/L	0.001790	-0.00164 mg/L	0.001790	109.06%
Co 228.616†	4.0	0.00012	mg/L	0.000035	0.00012 mg/L	0.000035	29.89%
Cr 267.716†	14.8	0.00022	mg/L	0.000521	0.00022 mg/L	0.000521	233.01%
Cu 324.752†	153.1	0.00073	mg/L	0.000356	0.00073 mg/L	0.000356	48.50%
Fe 273.955†	128.0	0.00566	mg/L	0.000412	0.00566 mg/L	0.000412	7.28%
Mg 279.077†	146.4	0.00897	mg/L	0.002089	0.00897 mg/L	0.002089	23.30%
Mn 257.610†	105.5	0.00019	mg/L	0.000025	0.00019 mg/L	0.000025	12.90%
Ni 231.604†	4.1	0.00015	mg/L	0.000312	0.00015 mg/L	0.000312	209.34%
Sb 206.836†	10.2	0.00924	mg/L	0.000689	0.00924 mg/L	0.000689	7.45%
Tl 190.801†	-1.4	-0.00223	mg/L	0.002592	-0.00223 mg/L	0.002592	116.34%
V 292.402†	-22.7	-0.00020	mg/L	0.000157	-0.00020 mg/L	0.000157	79.85%
Ti 334.940†	112.7	0.00022	mg/L	0.000052	0.00022 mg/L	0.000052	24.21%
Ca 227.546†	10.3	0.05586	mg/L	0.043500	0.05586 mg/L	0.043500	77.88%

Sequence No.: 6

Sample ID: LCS-67889-LCS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 95

Date Collected: 8/31/2012 9:36:02 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS-67889-LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1732114.9	99.406	%	0.9382				0.94%
Lu 261.542	1121816.4	100.3	%	0.90				0.90%
Al 308.215†	167150.8	8.6957	mg/L	0.10903	8.6957	mg/L	0.10903	1.25%
Co 228.616†	74184.7	2.2217	mg/L	0.02669	2.2217	mg/L	0.02669	1.20%
Cr 267.716†	58313.3	0.88047	mg/L	0.009804	0.88047	mg/L	0.009804	1.11%
Cu 324.752†	225193.7	1.0798	mg/L	0.01247	1.0798	mg/L	0.01247	1.15%
Fe 273.955†	100515.4	4.4463	mg/L	0.05384	4.4463	mg/L	0.05384	1.21%
Mg 279.077†	361884.0	22.154	mg/L	0.1105	22.154	mg/L	0.1105	0.50%
Mn 257.610†	1208315.9	2.2160	mg/L	0.01240	2.2160	mg/L	0.01240	0.56%
Ni 231.604†	61788.1	2.2298	mg/L	0.02584	2.2298	mg/L	0.02584	1.16%
Sb 206.836†	520.5	0.45601	mg/L	0.008239	0.45601	mg/L	0.008239	1.81%
Tl 190.801†	287.5	0.42178	mg/L	0.006426	0.42178	mg/L	0.006426	1.52%
V 292.402†	250083.0	2.1746	mg/L	0.02143	2.1746	mg/L	0.02143	0.99%
Ti 334.940†	306.1	0.00035	mg/L	0.000105	0.00035	mg/L	0.000105	29.79%
Ca 227.546†	4007.4	21.091	mg/L	0.2480	21.091	mg/L	0.2480	1.18%

Sequence No.: 7

Sample ID: L1807-19A~DMW-2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 96

Date Collected: 8/31/2012 9:39:37 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19A~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1717550.9	98.571	%	3.0492				3.09%
Lu 261.542	1110152.9	99.23	%	3.115				3.14%
Al 308.215†	5766.1	0.29764	mg/L	0.006820	0.29764	mg/L	0.006820	2.29%
Co 228.616†	47.6	0.00136	mg/L	0.000048	0.00136	mg/L	0.000048	3.50%
Cr 267.716†	64.7	0.00095	mg/L	0.000210	0.00095	mg/L	0.000210	22.02%
Cu 324.752†	473.6	0.00241	mg/L	0.000440	0.00241	mg/L	0.000440	18.25%
Fe 273.955†	34387.2	1.5199	mg/L	0.01893	1.5199	mg/L	0.01893	1.25%
Mg 279.077†	28753.0	1.7604	mg/L	0.02658	1.7604	mg/L	0.02658	1.51%
Mn 257.610†	64651.2	0.11857	mg/L	0.001596	0.11857	mg/L	0.001596	1.35%
Ni 231.604†	33.5	0.00120	mg/L	0.000611	0.00120	mg/L	0.000611	51.03%
Sb 206.836†	9.1	0.00797	mg/L	0.003142	0.00797	mg/L	0.003142	39.44%
Tl 190.801†	-2.2	-0.00311	mg/L	0.001720	-0.00311	mg/L	0.001720	55.29%
V 292.402†	76.1	0.00069	mg/L	0.000579	0.00069	mg/L	0.000579	83.38%
Ti 334.940†	5617.4	0.01092	mg/L	0.000202	0.01092	mg/L	0.000202	1.85%
Ca 227.546†	2166.9	11.791	mg/L	0.3593	11.791	mg/L	0.3593	3.05%

Sequence No.: 8

Sample ID: L1807-19ADUP~DMW-2D

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 97

Date Collected: 8/31/2012 9:43:08 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19ADUP~DMW-2D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1661999.7	95.382	%	2.1733				2.28%
Lu 261.542	1073941.9	96.00	%	2.331				2.43%
Al 308.215†	5818.4	0.30032	mg/L	0.013052	0.30032	mg/L	0.013052	4.35%
Co 228.616†	47.6	0.00136	mg/L	0.000154	0.00136	mg/L	0.000154	11.31%
Cr 267.716†	43.2	0.00063	mg/L	0.000113	0.00063	mg/L	0.000113	17.99%
Cu 324.752†	547.5	0.00276	mg/L	0.000702	0.00276	mg/L	0.000702	25.38%
Fe 273.955†	34759.4	1.5363	mg/L	0.09317	1.5363	mg/L	0.09317	6.06%
Mg 279.077†	28730.0	1.7590	mg/L	0.06270	1.7590	mg/L	0.06270	3.56%
Mn 257.610†	64887.5	0.11900	mg/L	0.004112	0.11900	mg/L	0.004112	3.46%
Ni 231.604†	42.4	0.00152	mg/L	0.000249	0.00152	mg/L	0.000249	16.42%
Sb 206.836†	7.2	0.00625	mg/L	0.003302	0.00625	mg/L	0.003302	52.84%
Tl 190.801†	-1.1	-0.00150	mg/L	0.001010	-0.00150	mg/L	0.001010	67.21%
V 292.402†	70.8	0.00065	mg/L	0.000588	0.00065	mg/L	0.000588	90.64%
Ti 334.940†	5583.8	0.01086	mg/L	0.000544	0.01086	mg/L	0.000544	5.01%
Ca 227.546†	2208.5	12.018	mg/L	0.2877	12.018	mg/L	0.2877	2.39%

Sequence No.: 9
 Sample ID: L1807-19AMS~DMW-2S
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 98
 Date Collected: 8/31/2012 9:46:39 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-19AMS~DMW-2S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1647279.9	94.538	%	0.8607				0.91%
Lu 261.542	1065476.3	95.24	%	0.912				0.96%
Al 308.215†	180174.0	9.3706	mg/L	0.04801	9.3706	mg/L	0.04801	0.51%
Co 228.616†	76517.9	2.2915	mg/L	0.01049	2.2915	mg/L	0.01049	0.46%
Cr 267.716†	60145.1	0.90810	mg/L	0.005380	0.90810	mg/L	0.005380	0.59%
Cu 324.752†	234802.6	1.1260	mg/L	0.00529	1.1260	mg/L	0.00529	0.47%
Fe 273.955†	137650.1	6.0878	mg/L	0.02510	6.0878	mg/L	0.02510	0.41%
Mg 279.077†	405883.5	24.848	mg/L	0.1014	24.848	mg/L	0.1014	0.41%
Mn 257.610†	1332867.9	2.4444	mg/L	0.00995	2.4444	mg/L	0.00995	0.41%
Ni 231.604†	63360.2	2.2865	mg/L	0.00915	2.2865	mg/L	0.00915	0.40%
Sb 206.836†	540.2	0.47315	mg/L	0.007211	0.47315	mg/L	0.007211	1.52%
Tl 190.801†	295.3	0.43340	mg/L	0.005521	0.43340	mg/L	0.005521	1.27%
V 292.402†	259649.8	2.2578	mg/L	0.01154	2.2578	mg/L	0.01154	0.51%
Ti 334.940†	5878.3	0.01119	mg/L	0.000399	0.01119	mg/L	0.000399	3.57%
Ca 227.546†	6505.8	34.666	mg/L	0.2781	34.666	mg/L	0.2781	0.80%

Sequence No.: 10
 Sample ID: L1807-19ASD~DMW-2
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 99
 Date Collected: 8/31/2012 9:50:12 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-19ASD~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1672143.3	95.965	%	0.7287				0.76%
Lu 261.542	1079264.9	96.47	%	0.744				0.77%
Al 308.215†	1305.6	0.06742	mg/L	0.003324	0.06742	mg/L	0.003324	4.93%
Co 228.616†	18.3	0.00053	mg/L	0.000043	0.00053	mg/L	0.000043	8.04%
Cr 267.716†	14.9	0.00022	mg/L	0.000110	0.00022	mg/L	0.000110	49.87%
Cu 324.752†	294.2	0.00144	mg/L	0.000250	0.00144	mg/L	0.000250	17.38%
Fe 273.955†	7461.9	0.32981	mg/L	0.001371	0.32981	mg/L	0.001371	0.42%
Mg 279.077†	6274.5	0.38416	mg/L	0.005949	0.38416	mg/L	0.005949	1.55%
Mn 257.610†	14046.6	0.02576	mg/L	0.000047	0.02576	mg/L	0.000047	0.18%
Ni 231.604†	12.8	0.00046	mg/L	0.000067	0.00046	mg/L	0.000067	14.57%
Sb 206.836†	2.0	0.00177	mg/L	0.002342	0.00177	mg/L	0.002342	132.12%
Tl 190.801†	-1.6	-0.00240	mg/L	0.001909	-0.00240	mg/L	0.001909	79.54%
V 292.402†	67.3	0.00059	mg/L	0.000779	0.00059	mg/L	0.000779	131.65%
Ti 334.940†	1188.5	0.00231	mg/L	0.000059	0.00231	mg/L	0.000059	2.55%
Ca 227.546†	471.0	2.5630	mg/L	0.01866	2.5630	mg/L	0.01866	0.73%

Sequence No.: 11
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 8/31/2012 9:53:44 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1640020.7	94.121	%	1.9175				2.04%
Lu 261.542	1062583.6	94.98	%	2.004				2.11%
Al 308.215†	184848.7	9.6155	mg/L	0.39920	9.6155	mg/L	0.39920	4.15%
QC value within limits for Al 308.215 Recovery = 96.16%								
Co 228.616†	84551.3	2.5311	mg/L	0.10540	2.5311	mg/L	0.10540	4.16%

QC value within limits for Co 228.616 Recovery = 101.24%
 Cr 267.716† 63901.2 0.96485 mg/L 0.042009 0.96485 mg/L 0.042009 4.35%
 QC value within limits for Cr 267.716 Recovery = 96.48%
 Cu 324.752† 248940.9 1.1937 mg/L 0.04922 1.1937 mg/L 0.04922 4.12%
 QC value within limits for Cu 324.752 Recovery = 95.50%
 Fe 273.955† 111951.6 4.9522 mg/L 0.21441 4.9522 mg/L 0.21441 4.33%
 QC value within limits for Fe 273.955 Recovery = 99.04%
 Mg 279.077† 400913.9 24.544 mg/L 0.4536 24.544 mg/L 0.4536 1.85%
 QC value within limits for Mg 279.077 Recovery = 98.17%
 Mn 257.610† 1347373.8 2.4710 mg/L 0.04847 2.4710 mg/L 0.04847 1.96%
 QC value within limits for Mn 257.610 Recovery = 98.84%
 Ni 231.604† 69195.3 2.4968 mg/L 0.10691 2.4968 mg/L 0.10691 4.28%
 QC value within limits for Ni 231.604 Recovery = 99.87%
 Sb 206.836† 568.4 0.49904 mg/L 0.017399 0.49904 mg/L 0.017399 3.49%
 QC value within limits for Sb 206.836 Recovery = 99.81%
 Tl 190.801† 311.8 0.45657 mg/L 0.009864 0.45657 mg/L 0.009864 2.16%
 QC value within limits for Tl 190.801 Recovery = 91.31%
 V 292.402† 280012.3 2.4342 mg/L 0.10486 2.4342 mg/L 0.10486 4.31%
 QC value within limits for V 292.402 Recovery = 97.37%
 Ti 334.940† 243993.5 0.46671 mg/L 0.020121 0.46671 mg/L 0.020121 4.31%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 4462.6 23.469 mg/L 0.5237 23.469 mg/L 0.5237 2.23%
 QC value within limits for Ca 227.546 Recovery = 93.87%
 All analyte(s) passed QC.

Sequence No.: 12

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 9:57:15 AM

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 360.073	1682491.1	96.558 %	1.4166			1.47%
Lu 261.542	1082686.7	96.78 %	1.433			1.48%
Al 308.215†	-106.1	-0.00553 mg/L	0.001123	-0.00553 mg/L	0.001123	20.30%
QC value within limits for Al 308.215						Not calculated
Co 228.616†	12.7	0.00038 mg/L	0.000159	0.00038 mg/L	0.000159	41.55%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	0.6	0.00001 mg/L	0.000023	0.00001 mg/L	0.000023	231.39%
QC value within limits for Cr 267.716						Not calculated
Cu 324.752†	263.5	0.00126 mg/L	0.000419	0.00126 mg/L	0.000419	33.22%
QC value within limits for Cu 324.752						Not calculated
Fe 273.955†	38.4	0.00170 mg/L	0.000629	0.00170 mg/L	0.000629	37.01%
QC value within limits for Fe 273.955						Not calculated
Mg 279.077†	67.2	0.00411 mg/L	0.004392	0.00411 mg/L	0.004392	106.77%
QC value within limits for Mg 279.077						Not calculated
Mn 257.610†	83.8	0.00015 mg/L	0.000037	0.00015 mg/L	0.000037	23.90%
QC value within limits for Mn 257.610						Not calculated
Ni 231.604†	-2.5	-0.00009 mg/L	0.000454	-0.00009 mg/L	0.000454	497.69%
QC value within limits for Ni 231.604						Not calculated
Sb 206.836†	6.8	0.00618 mg/L	0.003836	0.00618 mg/L	0.003836	62.09%
QC value within limits for Sb 206.836						Not calculated
Tl 190.801†	0.6	0.00085 mg/L	0.002064	0.00085 mg/L	0.002064	241.48%
QC value within limits for Tl 190.801						Not calculated
V 292.402†	68.0	0.00059 mg/L	0.000429	0.00059 mg/L	0.000429	72.72%
QC value within limits for V 292.402						Not calculated
Ti 334.940†	80.0	0.00015 mg/L	0.000113	0.00015 mg/L	0.000113	73.81%
QC value within limits for Ti 334.940						Not calculated
Ca 227.546†	4.6	0.02486 mg/L	0.054107	0.02486 mg/L	0.054107	217.63%
QC value within limits for Ca 227.546						Not calculated

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: L1807-19APDS~DMW-2

Analyst:

Initial Sample Wt:

Autosampler Location: 100

Date Collected: 8/31/2012 10:00:45 AM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-19APDS~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1638640.9	94.042	%	0.7779				0.83%
Lu 261.542	1061540.5	94.89	%	0.740				0.78%
Al 308.215†	178420.2	9.2795	mg/L	0.15552	9.2795	mg/L	0.15552	1.68%
Co 228.616†	76355.0	2.2867	mg/L	0.03767	2.2867	mg/L	0.03767	1.65%
Cr 267.716†	59605.3	0.89995	mg/L	0.014989	0.89995	mg/L	0.014989	1.67%
Cu 324.752†	232214.3	1.1136	mg/L	0.01982	1.1136	mg/L	0.01982	1.78%
Fe 273.955†	137485.5	6.0805	mg/L	0.09727	6.0805	mg/L	0.09727	1.60%
Mg 279.077†	400161.4	24.498	mg/L	0.1059	24.498	mg/L	0.1059	0.43%
Mn 257.610†	1315488.5	2.4125	mg/L	0.00922	2.4125	mg/L	0.00922	0.38%
Ni 231.604†	63232.2	2.2819	mg/L	0.03914	2.2819	mg/L	0.03914	1.72%
Sb 206.836†	505.7	0.44203	mg/L	0.007282	0.44203	mg/L	0.007282	1.65%
Tl 190.801†	286.6	0.42000	mg/L	0.003058	0.42000	mg/L	0.003058	0.73%
V 292.402†	257625.8	2.2402	mg/L	0.03732	2.2402	mg/L	0.03732	1.67%
Ti 334.940†	6477.5	0.01234	mg/L	0.000533	0.01234	mg/L	0.000533	4.32%
Ca 227.546†	6419.4	34.197	mg/L	0.2972	34.197	mg/L	0.2972	0.87%

Sequence No.: 14

Sample ID: L1807-20A~DMW-3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 8/31/2012 10:04:18 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-20A~DMW-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1696747.1	97.377	%	1.3397				1.38%
Lu 261.542	1097017.2	98.06	%	1.449				1.48%
Al 308.215†	812.8	0.04010	mg/L	0.002895	0.04010	mg/L	0.002895	7.22%
Co 228.616†	20.5	0.00061	mg/L	0.000132	0.00061	mg/L	0.000132	21.67%
Cr 267.716†	34.6	0.00052	mg/L	0.000124	0.00052	mg/L	0.000124	23.88%
Cu 324.752†	362.1	0.00174	mg/L	0.000373	0.00174	mg/L	0.000373	21.46%
Fe 273.955†	1162.3	0.05137	mg/L	0.002045	0.05137	mg/L	0.002045	3.98%
Mg 279.077†	35267.0	2.1592	mg/L	0.03359	2.1592	mg/L	0.03359	1.56%
Mn 257.610†	4273.4	0.00782	mg/L	0.000099	0.00782	mg/L	0.000099	1.27%
Ni 231.604†	16.6	0.00059	mg/L	0.000259	0.00059	mg/L	0.000259	44.04%
Sb 206.836†	12.0	0.01071	mg/L	0.005465	0.01071	mg/L	0.005465	51.03%
Tl 190.801†	-0.4	-0.00058	mg/L	0.003021	-0.00058	mg/L	0.003021	521.05%
V 292.402†	150.3	0.00131	mg/L	0.000288	0.00131	mg/L	0.000288	22.06%
Ti 334.940†	753.6	0.00158	mg/L	0.000255	0.00158	mg/L	0.000255	16.13%
Ca 227.546†	1944.0	10.589	mg/L	0.1789	10.589	mg/L	0.1789	1.69%

Sequence No.: 15

Sample ID: L1807-21A~DMW-9

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 102

Date Collected: 8/31/2012 10:07:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-21A~DMW-9

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1673527.1	96.044	%	1.3369				1.39%
Lu 261.542	1082052.5	96.72	%	1.223				1.26%
Al 308.215†	2959.9	0.15126	mg/L	0.003158	0.15126	mg/L	0.003158	2.09%
Co 228.616†	16.4	0.00047	mg/L	0.000132	0.00047	mg/L	0.000132	28.14%
Cr 267.716†	529.7	0.00800	mg/L	0.000131	0.00800	mg/L	0.000131	1.64%
Cu 324.752†	710.2	0.00345	mg/L	0.000100	0.00345	mg/L	0.000100	2.89%
Fe 273.955†	12257.1	0.54176	mg/L	0.005917	0.54176	mg/L	0.005917	1.09%
Mg 279.077†	52590.5	3.2199	mg/L	0.03254	3.2199	mg/L	0.03254	1.01%
Mn 257.610†	3615.2	0.00660	mg/L	0.000025	0.00660	mg/L	0.000025	0.38%
Ni 231.604†	27.9	0.00099	mg/L	0.000239	0.00099	mg/L	0.000239	24.18%
Sb 206.836†	10.9	0.00950	mg/L	0.006750	0.00950	mg/L	0.006750	71.06%

Tl 190.801†	0.0	0.00019 mg/L	0.001966	0.00019 mg/L	0.001966	>999.9%
V 292.402†	122.6	0.00109 mg/L	0.000298	0.00109 mg/L	0.000298	27.21%
Ti 334.940†	1870.7	0.00375 mg/L	0.000136	0.00375 mg/L	0.000136	3.64%
Ca 227.546†	2481.1	13.511 mg/L	0.1395	13.511 mg/L	0.1395	1.03%

Sequence No.: 16

Autosampler Location: 103

Sample ID: L1807-22A-DMW-9B

Date Collected: 8/31/2012 10:11:22 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-22A-DMW-9B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1698878.6	97.499 %		1.2458				1.28%
Lu 261.542	1097546.2	98.11 %		1.299				1.32%
Al 308.215†	148.4	0.00589 mg/L		0.004728	0.00589 mg/L		0.004728	80.20%
Co 228.616†	10.6	0.00032 mg/L		0.000322	0.00032 mg/L		0.000322	101.95%
Cr 267.716†	16.2	0.00024 mg/L		0.000168	0.00024 mg/L		0.000168	69.34%
Cu 324.752†	258.2	0.00124 mg/L		0.000198	0.00124 mg/L		0.000198	15.92%
Fe 273.955†	933.8	0.04128 mg/L		0.002410	0.04128 mg/L		0.002410	5.84%
Mg 279.077†	25740.0	1.5759 mg/L		0.02282	1.5759 mg/L		0.02282	1.45%
Mn 257.610†	4649.8	0.00851 mg/L		0.000051	0.00851 mg/L		0.000051	0.60%
Ni 231.604†	1.3	0.00004 mg/L		0.000211	0.00004 mg/L		0.000211	541.07%
Sb 206.836†	7.0	0.00622 mg/L		0.002139	0.00622 mg/L		0.002139	34.40%
Tl 190.801†	0.9	0.00145 mg/L		0.002979	0.00145 mg/L		0.002979	205.82%
V 292.402†	19.6	0.00017 mg/L		0.000355	0.00017 mg/L		0.000355	206.66%
Ti 334.940†	108.2	0.00033 mg/L		0.000101	0.00033 mg/L		0.000101	31.05%
Ca 227.546†	1611.5	8.7784 mg/L		0.18740	8.7784 mg/L		0.18740	2.13%

Sequence No.: 17

Autosampler Location: 104

Sample ID: L1807-23A-DMW-52

Date Collected: 8/31/2012 10:14:54 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-23A-DMW-52

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1718220.8	98.609 %		0.2101				0.21%
Lu 261.542	1112117.0	99.41 %		0.352				0.35%
Al 308.215†	6534.1	0.33763 mg/L		0.002776	0.33763 mg/L		0.002776	0.82%
Co 228.616†	49.0	0.00139 mg/L		0.000024	0.00139 mg/L		0.000024	1.71%
Cr 267.716†	75.4	0.00111 mg/L		0.000184	0.00111 mg/L		0.000184	16.51%
Cu 324.752†	244.6	0.00131 mg/L		0.000486	0.00131 mg/L		0.000486	37.15%
Fe 273.955†	33742.5	1.4914 mg/L		0.01557	1.4914 mg/L		0.01557	1.04%
Mg 279.077†	28258.0	1.7301 mg/L		0.02233	1.7301 mg/L		0.02233	1.29%
Mn 257.610†	65311.9	0.11978 mg/L		0.001347	0.11978 mg/L		0.001347	1.12%
Ni 231.604†	33.8	0.00120 mg/L		0.000396	0.00120 mg/L		0.000396	33.01%
Sb 206.836†	4.9	0.00422 mg/L		0.001146	0.00422 mg/L		0.001146	27.20%
Tl 190.801†	1.4	0.00237 mg/L		0.001142	0.00237 mg/L		0.001142	48.25%
V 292.402†	51.0	0.00047 mg/L		0.000397	0.00047 mg/L		0.000397	84.84%
Ti 334.940†	8633.2	0.01669 mg/L		0.007845	0.01669 mg/L		0.007845	47.01%
Ca 227.546†	2159.5	11.751 mg/L		0.1449	11.751 mg/L		0.1449	1.23%

Sequence No.: 18

Autosampler Location: 105

Sample ID: L1807-24A-DMW-15B

Date Collected: 8/31/2012 10:18:26 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-24A-DMW-15B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1686016.1	96.761 %		1.4333				1.48%

Lu 261.542	1093108.0	97.71 %	1.454			1.49%
Al 308.215†	734.7	0.03535 mg/L	0.007667	0.03535 mg/L	0.007667	21.69%
Co 228.616†	55.1	0.00161 mg/L	0.000190	0.00161 mg/L	0.000190	11.76%
Cr 267.716†	22.4	0.00030 mg/L	0.000118	0.00030 mg/L	0.000118	39.11%
Cu 324.752†	233.4	0.00125 mg/L	0.000481	0.00125 mg/L	0.000481	38.41%
Fe 273.955†	33149.3	1.4652 mg/L	0.01229	1.4652 mg/L	0.01229	0.84%
Mg 279.077†	74590.5	4.5668 mg/L	0.04332	4.5668 mg/L	0.04332	0.95%
Mn 257.610†	100003.7	0.18338 mg/L	0.001398	0.18338 mg/L	0.001398	0.76%
Ni 231.604†	33.8	0.00120 mg/L	0.000491	0.00120 mg/L	0.000491	40.86%
Sb 206.836†	7.3	0.00629 mg/L	0.001661	0.00629 mg/L	0.001661	26.40%
Tl 190.801†	-1.7	-0.00232 mg/L	0.003794	-0.00232 mg/L	0.003794	163.89%
V 292.402†	4.3	0.00008 mg/L	0.000090	0.00008 mg/L	0.000090	109.60%
Ti 334.940†	438.9	0.00096 mg/L	0.000194	0.00096 mg/L	0.000194	20.26%
Ca 227.546†	2176.0	11.840 mg/L	0.2665	11.840 mg/L	0.2665	2.25%

Sequence No.: 19

Sample ID: L1807-25A-DMW-15A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 106

Date Collected: 8/31/2012 10:21:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-25A-DMW-15A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1700380.5	97.585 %		0.8075				0.83%
Lu 261.542	1099413.5	98.27 %		0.772				0.79%
Al 308.215†	126.9	0.00344 mg/L		0.002740	0.00344 mg/L		0.002740	79.68%
Co 228.616†	4.6	0.00014 mg/L		0.000030	0.00014 mg/L		0.000030	22.08%
Cr 267.716†	58.3	0.00083 mg/L		0.000132	0.00083 mg/L		0.000132	15.86%
Cu 324.752†	209.2	0.00100 mg/L		0.000336	0.00100 mg/L		0.000336	33.48%
Fe 273.955†	582.9	0.02577 mg/L		0.000351	0.02577 mg/L		0.000351	1.36%
Mg 279.077†	39631.5	2.4265 mg/L		0.00741	2.4265 mg/L		0.00741	0.31%
Mn 257.610†	128848.5	0.23631 mg/L		0.000757	0.23631 mg/L		0.000757	0.32%
Ni 231.604†	6.8	0.00023 mg/L		0.000138	0.00023 mg/L		0.000138	58.85%
Sb 206.836†	7.0	0.00611 mg/L		0.001928	0.00611 mg/L		0.001928	31.58%
Tl 190.801†	1.9	0.00307 mg/L		0.004386	0.00307 mg/L		0.004386	142.99%
V 292.402†	32.7	0.00029 mg/L		0.000580	0.00029 mg/L		0.000580	202.35%
Ti 334.940†	67.7	0.00031 mg/L		0.000064	0.00031 mg/L		0.000064	20.56%
Ca 227.546†	2480.9	13.514 mg/L		0.1268	13.514 mg/L		0.1268	0.94%

Sequence No.: 20

Sample ID: L1807-26A-DMW-23B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 8/31/2012 10:25:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-26A-DMW-23B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1679208.3	96.370 %		0.4523				0.47%
Lu 261.542	1084295.7	96.92 %		0.344				0.35%
Al 308.215†	1783.1	0.08906 mg/L		0.004742	0.08906 mg/L		0.004742	5.32%
Co 228.616†	30.8	0.00091 mg/L		0.000056	0.00091 mg/L		0.000056	6.19%
Cr 267.716†	667.3	0.01005 mg/L		0.000345	0.01005 mg/L		0.000345	3.44%
Cu 324.752†	896.9	0.00432 mg/L		0.000336	0.00432 mg/L		0.000336	7.78%
Fe 273.955†	6145.8	0.27164 mg/L		0.003306	0.27164 mg/L		0.003306	1.22%
Mg 279.077†	46343.5	2.8374 mg/L		0.03307	2.8374 mg/L		0.03307	1.17%
Mn 257.610†	72620.6	0.13317 mg/L		0.001385	0.13317 mg/L		0.001385	1.04%
Ni 231.604†	45.2	0.00162 mg/L		0.000155	0.00162 mg/L		0.000155	9.57%
Sb 206.836†	5.0	0.00414 mg/L		0.001376	0.00414 mg/L		0.001376	33.26%
Tl 190.801†	1.3	0.00207 mg/L		0.002015	0.00207 mg/L		0.002015	97.48%
V 292.402†	175.6	0.00155 mg/L		0.000467	0.00155 mg/L		0.000467	30.10%
Ti 334.940†	1204.4	0.00254 mg/L		0.000061	0.00254 mg/L		0.000061	2.41%
Ca 227.546†	3191.2	17.381 mg/L		0.1914	17.381 mg/L		0.1914	1.10%

Sequence No.: 21

Autosampler Location: 3

Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Date Collected: 8/31/2012 10:29:02 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1635461.0	93.859 %		1.7466			1.86%
Lu 261.542	1057890.8	94.56 %		1.764			1.87%
Al 308.215†	188126.3	9.7861 mg/L		0.30541	9.7861 mg/L	0.30541	3.12%
QC value within limits for Al 308.215 Recovery = 97.86%							
Co 228.616†	86036.0	2.5755 mg/L		0.07883	2.5755 mg/L	0.07883	3.06%
QC value within limits for Co 228.616 Recovery = 103.02%							
Cr 267.716†	64863.9	0.97938 mg/L		0.029121	0.97938 mg/L	0.029121	2.97%
QC value within limits for Cr 267.716 Recovery = 97.94%							
Cu 324.752†	253925.3	1.2176 mg/L		0.03778	1.2176 mg/L	0.03778	3.10%
QC value within limits for Cu 324.752 Recovery = 97.41%							
Fe 273.955†	113830.7	5.0353 mg/L		0.15987	5.0353 mg/L	0.15987	3.18%
QC value within limits for Fe 273.955 Recovery = 100.71%							
Mg 279.077†	405000.9	24.794 mg/L		0.4986	24.794 mg/L	0.4986	2.01%
QC value within limits for Mg 279.077 Recovery = 99.18%							
Mn 257.610†	1360008.2	2.4942 mg/L		0.04940	2.4942 mg/L	0.04940	1.98%
QC value within limits for Mn 257.610 Recovery = 99.77%							
Ni 231.604†	70254.5	2.5350 mg/L		0.07912	2.5350 mg/L	0.07912	3.12%
QC value within limits for Ni 231.604 Recovery = 101.40%							
Sb 206.836†	583.1	0.51217 mg/L		0.016062	0.51217 mg/L	0.016062	3.14%
QC value within limits for Sb 206.836 Recovery = 102.43%							
Tl 190.801†	311.2	0.45518 mg/L		0.012047	0.45518 mg/L	0.012047	2.65%
QC value within limits for Tl 190.801 Recovery = 91.04%							
V 292.402†	283984.6	2.4687 mg/L		0.07619	2.4687 mg/L	0.07619	3.09%
QC value within limits for V 292.402 Recovery = 98.75%							
Ti 334.940†	253162.0	0.48425 mg/L		0.010411	0.48425 mg/L	0.010411	2.15%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	4523.0	23.783 mg/L		0.4947	23.783 mg/L	0.4947	2.08%
QC value within limits for Ca 227.546 Recovery = 95.13%							

All analyte(s) passed QC.

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Sequence No.: 22
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 8/31/2012 10:32:33 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1739301.9	99.819 %		1.9251			1.93%
Lu 261.542	1118759.0	100.0 %		2.06			2.06%
Al 308.215†	-111.7	-0.00584 mg/L		0.004565	-0.00584 mg/L	0.004565	78.17%
QC value within limits for Al 308.215 Recovery = Not calculated							
Co 228.616†	17.4	0.00052 mg/L		0.000190	0.00052 mg/L	0.000190	36.43%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	20.4	0.00031 mg/L		0.000088	0.00031 mg/L	0.000088	28.46%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	30.0	0.00014 mg/L		0.000271	0.00014 mg/L	0.000271	188.27%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	43.5	0.00192 mg/L		0.000538	0.00192 mg/L	0.000538	27.98%
QC value within limits for Fe 273.955 Recovery = Not calculated							
Mg 279.077†	62.0	0.00379 mg/L		0.005550	0.00379 mg/L	0.005550	146.32%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	111.8	0.00021 mg/L		0.000033	0.00021 mg/L	0.000033	16.28%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	4.9	0.00018 mg/L		0.000145	0.00018 mg/L	0.000145	82.49%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Sb 206.836†	7.4	0.00674 mg/L		0.002241	0.00674 mg/L	0.002241	33.25%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Tl 190.801†	0.5	0.00075 mg/L		0.003182	0.00075 mg/L	0.003182	425.49%

QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 43.5 0.00038 mg/L 0.000299 0.00038 mg/L 0.000299 78.93%
QC value within limits for V 292.402 Recovery = Not calculated
Ti 334.940† 135.4 0.00026 mg/L 0.000139 0.00026 mg/L 0.000139 53.21%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† 20.9 0.11385 mg/L 0.048365 0.11385 mg/L 0.048365 42.48%
QC value within limits for Ca 227.546 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 23

Sample ID: L1807-27A-DMW-13B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 8/31/2012 10:36:03 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-27A-DMW-13B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1661263.5	95.340	%	1.3965				1.46%
Lu 261.542	1070996.6	95.73	%	1.322				1.38%
Al 308.215†	312.3	0.01389	mg/L	0.002530	0.01389	mg/L	0.002530	18.21%
Co 228.616†	20.6	0.00062	mg/L	0.000065	0.00062	mg/L	0.000065	10.53%
Cr 267.716†	1419.7	0.02142	mg/L	0.000228	0.02142	mg/L	0.000228	1.06%
Cu 324.752†	357.1	0.00171	mg/L	0.000466	0.00171	mg/L	0.000466	27.22%
Fe 273.955†	686.4	0.03034	mg/L	0.000899	0.03034	mg/L	0.000899	2.96%
Mg 279.077†	26528.0	1.6241	mg/L	0.02222	1.6241	mg/L	0.02222	1.37%
Mn 257.610†	29500.3	0.05409	mg/L	0.000749	0.05409	mg/L	0.000749	1.38%
Ni 231.604†	7.9	0.00028	mg/L	0.000149	0.00028	mg/L	0.000149	53.92%
Sb 206.836†	8.7	0.00732	mg/L	0.003376	0.00732	mg/L	0.003376	46.10%
Tl 190.801†	-0.3	-0.00045	mg/L	0.004123	-0.00045	mg/L	0.004123	911.56%
V 292.402†	15.4	0.00018	mg/L	0.000255	0.00018	mg/L	0.000255	139.62%
Ti 334.940†	154.7	0.00045	mg/L	0.000173	0.00045	mg/L	0.000173	38.47%
Ca 227.546†	2043.8	11.133	mg/L	0.2454	11.133	mg/L	0.2454	2.20%

Sequence No.: 24

Sample ID: L1807-28A-DMW-23A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 109

Date Collected: 8/31/2012 10:39:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-28A-DMW-23A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1652663.9	94.847	%	0.8655				0.91%
Lu 261.542	1071083.4	95.74	%	0.954				1.00%
Al 308.215†	3081.7	0.15338	mg/L	0.002038	0.15338	mg/L	0.002038	1.33%
Co 228.616†	21.0	0.00058	mg/L	0.000203	0.00058	mg/L	0.000203	34.84%
Cr 267.716†	85.6	0.00107	mg/L	0.000317	0.00107	mg/L	0.000317	29.56%
Cu 324.752†	1414.3	0.00694	mg/L	0.000130	0.00694	mg/L	0.000130	1.88%
Fe 273.955†	40990.1	1.8117	mg/L	0.01411	1.8117	mg/L	0.01411	0.78%
Mg 279.077†	78444.8	4.8028	mg/L	0.03327	4.8028	mg/L	0.03327	0.69%
Mn 257.610†	587713.9	1.0779	mg/L	0.00167	1.0779	mg/L	0.00167	0.15%
Ni 231.604†	13.4	0.00046	mg/L	0.000262	0.00046	mg/L	0.000262	56.88%
Sb 206.836†	7.2	0.00599	mg/L	0.004428	0.00599	mg/L	0.004428	73.98%
Tl 190.801†	1.7	0.00337	mg/L	0.002996	0.00337	mg/L	0.002996	88.81%
V 292.402†	181.6	0.00163	mg/L	0.000242	0.00163	mg/L	0.000242	14.83%
Ti 334.940†	835.7	0.00195	mg/L	0.000084	0.00195	mg/L	0.000084	4.32%
Ca 227.546†	4796.3	26.109	mg/L	0.1280	26.109	mg/L	0.1280	0.49%

Sequence No.: 25

Sample ID: L1808-01A-LMW-5F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 110

Date Collected: 8/31/2012 10:43:07 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-01A~LMW-5F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1705916.8	97.903	%	0.6479				0.66%
Lu 261.542	1098761.5	98.21	%	0.643				0.65%
Al 308.215†	2849.3	0.14466	mg/L	0.002974	0.14466	mg/L	0.002974	2.06%
Co 228.616†	12.2	0.00036	mg/L	0.000086	0.00036	mg/L	0.000086	23.69%
Cr 267.716†	99.4	0.00149	mg/L	0.000158	0.00149	mg/L	0.000158	10.65%
Cu 324.752†	317.2	0.00152	mg/L	0.000270	0.00152	mg/L	0.000270	17.75%
Fe 273.955†	449.0	0.01985	mg/L	0.000388	0.01985	mg/L	0.000388	1.96%
Mg 279.077†	52643.5	3.2231	mg/L	0.04380	3.2231	mg/L	0.04380	1.36%
Mn 257.610†	34993.1	0.06415	mg/L	0.000960	0.06415	mg/L	0.000960	1.50%
Ni 231.604†	78.4	0.00282	mg/L	0.000470	0.00282	mg/L	0.000470	16.68%
Sb 206.836†	6.2	0.00534	mg/L	0.001872	0.00534	mg/L	0.001872	35.03%
Tl 190.801†	-3.2	-0.00481	mg/L	0.002112	-0.00481	mg/L	0.002112	43.88%
V 292.402†	21.4	0.00019	mg/L	0.000148	0.00019	mg/L	0.000148	77.92%
Ti 334.940†	-91.6	0.00006	mg/L	0.000024	0.00006	mg/L	0.000024	40.94%
Ca 227.546†	3190.5	17.379	mg/L	0.1458	17.379	mg/L	0.1458	0.84%

Sequence No.: 26

Sample ID: L1808-02A~LMW-55F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 8/31/2012 10:46:39 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-02A~LMW-55F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1704515.4	97.822	%	1.0865				1.11%
Lu 261.542	1098521.5	98.19	%	0.957				0.97%
Al 308.215†	2999.5	0.15244	mg/L	0.004321	0.15244	mg/L	0.004321	2.83%
Co 228.616†	9.7	0.00029	mg/L	0.000085	0.00029	mg/L	0.000085	29.88%
Cr 267.716†	109.3	0.00164	mg/L	0.000255	0.00164	mg/L	0.000255	15.58%
Cu 324.752†	324.8	0.00158	mg/L	0.000258	0.00158	mg/L	0.000258	16.34%
Fe 273.955†	5782.4	0.25558	mg/L	0.003155	0.25558	mg/L	0.003155	1.23%
Mg 279.077†	52236.2	3.1982	mg/L	0.02972	3.1982	mg/L	0.02972	0.93%
Mn 257.610†	35175.1	0.06449	mg/L	0.000587	0.06449	mg/L	0.000587	0.91%
Ni 231.604†	67.5	0.00243	mg/L	0.000275	0.00243	mg/L	0.000275	11.33%
Sb 206.836†	4.7	0.00400	mg/L	0.002756	0.00400	mg/L	0.002756	68.88%
Tl 190.801†	-2.5	-0.00378	mg/L	0.003814	-0.00378	mg/L	0.003814	100.97%
V 292.402†	41.5	0.00037	mg/L	0.000160	0.00037	mg/L	0.000160	43.03%
Ti 334.940†	-135.4	-0.00002	mg/L	0.000014	-0.00002	mg/L	0.000014	61.89%
Ca 227.546†	3230.4	17.595	mg/L	0.1931	17.595	mg/L	0.1931	1.10%

Sequence No.: 27

Sample ID: L1808-03A~LMW-6F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 112

Date Collected: 8/31/2012 10:50:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-03A~LMW-6F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1719174.6	98.664	%	0.5172				0.52%
Lu 261.542	1108912.7	99.12	%	0.410				0.41%
Al 308.215†	171.7	0.00726	mg/L	0.003413	0.00726	mg/L	0.003413	47.02%
Co 228.616†	18.8	0.00056	mg/L	0.000231	0.00056	mg/L	0.000231	41.18%
Cr 267.716†	25.4	0.00038	mg/L	0.000127	0.00038	mg/L	0.000127	33.31%
Cu 324.752†	275.0	0.00132	mg/L	0.000481	0.00132	mg/L	0.000481	36.41%
Fe 273.955†	839.9	0.03712	mg/L	0.001072	0.03712	mg/L	0.001072	2.89%
Mg 279.077†	49627.2	3.0384	mg/L	0.02544	3.0384	mg/L	0.02544	0.84%
Mn 257.610†	3760.2	0.00687	mg/L	0.000070	0.00687	mg/L	0.000070	1.02%
Ni 231.604†	41.3	0.00148	mg/L	0.000357	0.00148	mg/L	0.000357	24.12%
Sb 206.836†	4.1	0.00361	mg/L	0.003391	0.00361	mg/L	0.003391	93.92%
Tl 190.801†	-1.1	-0.00164	mg/L	0.002256	-0.00164	mg/L	0.002256	137.81%
V 292.402†	38.5	0.00034	mg/L	0.000387	0.00034	mg/L	0.000387	115.18%
Ti 334.940†	29.7	0.00013	mg/L	0.000060	0.00013	mg/L	0.000060	46.66%

Ca 227.546† 1376.3 7.4961 mg/L 0.05742 7.4961 mg/L 0.05742 0.77%

Sequence No.: 28

Sample ID: L1808-04A-LMW-18F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 8/31/2012 10:53:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-04A-LMW-18F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1724687.8	98.980 %		1.2540				1.27%
Lu 261.542	1114046.5	99.58 %		1.209				1.21%
Al 308.215†	2581.3	0.13051 mg/L		0.007872	0.13051 mg/L		0.007872	6.03%
Co 228.616†	16.5	0.00048 mg/L		0.000218	0.00048 mg/L		0.000218	45.62%
Cr 267.716†	201.6	0.00294 mg/L		0.000599	0.00294 mg/L		0.000599	20.39%
Cu 324.752†	315.8	0.00154 mg/L		0.000345	0.00154 mg/L		0.000345	22.42%
Fe 273.955†	5837.6	0.25802 mg/L		0.002760	0.25802 mg/L		0.002760	1.07%
Mg 279.077†	56296.9	3.4468 mg/L		0.01612	3.4468 mg/L		0.01612	0.47%
Mn 257.610†	281150.1	0.51566 mg/L		0.005722	0.51566 mg/L		0.005722	1.11%
Ni 231.604†	35.4	0.00126 mg/L		0.000325	0.00126 mg/L		0.000325	25.76%
Sb 206.836†	2.6	0.00210 mg/L		0.004007	0.00210 mg/L		0.004007	190.76%
Tl 190.801†	-2.8	-0.00399 mg/L		0.002429	-0.00399 mg/L		0.002429	60.82%
V 292.402†	64.9	0.00057 mg/L		0.000391	0.00057 mg/L		0.000391	68.35%
Ti 334.940†	2336.4	0.00466 mg/L		0.000265	0.00466 mg/L		0.000265	5.69%
Ca 227.546†	2696.5	14.684 mg/L		0.2270	14.684 mg/L		0.2270	1.55%

Sequence No.: 29

Sample ID: L1808-05A-LMW-19F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 114

Date Collected: 8/31/2012 10:57:15 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-05A-LMW-19F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1697050.0	97.394 %		0.6820				0.70%
Lu 261.542	1095695.7	97.94 %		0.606				0.62%
Al 308.215†	-39.7	-0.00433 mg/L		0.002714	-0.00433 mg/L		0.002714	62.73%
Co 228.616†	7.0	0.00021 mg/L		0.000228	0.00021 mg/L		0.000228	108.74%
Cr 267.716†	12.2	0.00018 mg/L		0.000581	0.00018 mg/L		0.000581	316.48%
Cu 324.752†	287.3	0.00138 mg/L		0.000183	0.00138 mg/L		0.000183	13.31%
Fe 273.955†	178.0	0.00787 mg/L		0.000289	0.00787 mg/L		0.000289	3.67%
Mg 279.077†	64920.4	3.9748 mg/L		0.02142	3.9748 mg/L		0.02142	0.54%
Mn 257.610†	1820.5	0.00330 mg/L		0.000027	0.00330 mg/L		0.000027	0.82%
Ni 231.604†	14.9	0.00052 mg/L		0.000247	0.00052 mg/L		0.000247	47.51%
Sb 206.836†	5.4	0.00470 mg/L		0.003699	0.00470 mg/L		0.003699	78.66%
Tl 190.801†	-0.4	-0.00044 mg/L		0.001202	-0.00044 mg/L		0.001202	273.76%
V 292.402†	-11.6	-0.00010 mg/L		0.000199	-0.00010 mg/L		0.000199	199.08%
Ti 334.940†	-47.0	0.00001 mg/L		0.000043	0.00001 mg/L		0.000043	538.98%
Ca 227.546†	1863.6	10.151 mg/L		0.0886	10.151 mg/L		0.0886	0.87%

Sequence No.: 30

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 11:00:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1696760.7	97.377 %		1.3845				1.42%
Lu 261.542	1097607.5	98.11 %		1.413				1.44%
Al 308.215†	181414.6	9.4369 mg/L		0.24253	9.4369 mg/L		0.24253	2.57%

QC value within limits for Al 308.215 Recovery = 94.37%

Co	228.616†	83155.3	2.4893 mg/L	0.06576	2.4893 mg/L	0.06576	2.64%
	QC value within limits for Co	228.616	Recovery = 99.57%				
Cr	267.716†	62672.3	0.94629 mg/L	0.022521	0.94629 mg/L	0.022521	2.38%
	QC value within limits for Cr	267.716	Recovery = 94.63%				
Cu	324.752†	244599.7	1.1729 mg/L	0.03060	1.1729 mg/L	0.03060	2.61%
	QC value within limits for Cu	324.752	Recovery = 93.83%				
Fe	273.955†	110011.4	4.8664 mg/L	0.11855	4.8664 mg/L	0.11855	2.44%
	QC value within limits for Fe	273.955	Recovery = 97.33%				
Mg	279.077†	393925.1	24.116 mg/L	0.0652	24.116 mg/L	0.0652	0.27%
	QC value within limits for Mg	279.077	Recovery = 96.46%				
Mn	257.610†	1318444.1	2.4180 mg/L	0.00769	2.4180 mg/L	0.00769	0.32%
	QC value within limits for Mn	257.610	Recovery = 96.72%				
Ni	231.604†	67970.4	2.4526 mg/L	0.06327	2.4526 mg/L	0.06327	2.58%
	QC value within limits for Ni	231.604	Recovery = 98.10%				
Sb	206.836†	571.7	0.50237 mg/L	0.007687	0.50237 mg/L	0.007687	1.53%
	QC value within limits for Sb	206.836	Recovery = 100.47%				
Tl	190.801†	308.4	0.45171 mg/L	0.004104	0.45171 mg/L	0.004104	0.91%
	QC value within limits for Tl	190.801	Recovery = 90.34%				
V	292.402†	274375.4	2.3852 mg/L	0.05839	2.3852 mg/L	0.05839	2.45%
	QC value within limits for V	292.402	Recovery = 95.41%				
Ti	334.940†	245609.2	0.46980 mg/L	0.002115	0.46980 mg/L	0.002115	0.45%
	QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca	227.546†	4386.0	23.065 mg/L	0.3939	23.065 mg/L	0.3939	1.71%
	QC value within limits for Ca	227.546	Recovery = 92.26%				

All analyte(s) passed QC.

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 11:04:19 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1676992.1	96.243	%	1.1044				1.15%
Lu 261.542	1077232.9	96.29	%	1.112				1.15%
Al 308.215†	-12.7	-0.00069	mg/L	0.003524	-0.00069	mg/L	0.003524	509.25%
	QC value within limits for Al	308.215	Recovery = Not calculated					
Co 228.616†	13.7	0.00041	mg/L	0.000091	0.00041	mg/L	0.000091	22.30%
	QC value within limits for Co	228.616	Recovery = Not calculated					
Cr 267.716†	6.2	0.00009	mg/L	0.000051	0.00009	mg/L	0.000051	54.40%
	QC value within limits for Cr	267.716	Recovery = Not calculated					
Cu 324.752†	178.5	0.00086	mg/L	0.000050	0.00086	mg/L	0.000050	5.80%
	QC value within limits for Cu	324.752	Recovery = Not calculated					
Fe 273.955†	33.6	0.00149	mg/L	0.000794	0.00149	mg/L	0.000794	53.41%
	QC value within limits for Fe	273.955	Recovery = Not calculated					
Mg 279.077†	-9.0	-0.00055	mg/L	0.004072	-0.00055	mg/L	0.004072	739.42%
	QC value within limits for Mg	279.077	Recovery = Not calculated					
Mn 257.610†	79.9	0.00015	mg/L	0.000074	0.00015	mg/L	0.000074	50.43%
	QC value within limits for Mn	257.610	Recovery = Not calculated					
Ni 231.604†	4.0	0.00015	mg/L	0.000107	0.00015	mg/L	0.000107	72.95%
	QC value within limits for Ni	231.604	Recovery = Not calculated					
Sb 206.836†	5.5	0.00497	mg/L	0.001506	0.00497	mg/L	0.001506	30.30%
	QC value within limits for Sb	206.836	Recovery = Not calculated					
Tl 190.801†	-1.2	-0.00185	mg/L	0.001687	-0.00185	mg/L	0.001687	91.22%
	QC value within limits for Tl	190.801	Recovery = Not calculated					
V 292.402†	37.8	0.00033	mg/L	0.000548	0.00033	mg/L	0.000548	166.90%
	QC value within limits for V	292.402	Recovery = Not calculated					
Ti 334.940†	149.3	0.00029	mg/L	0.000118	0.00029	mg/L	0.000118	40.92%
	QC value within limits for Ti	334.940	Recovery = Not calculated					
Ca 227.546†	29.4	0.15989	mg/L	0.056614	0.15989	mg/L	0.056614	35.41%
	QC value within limits for Ca	227.546	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 32

Sample ID: L1808-06A-LMW-12F

Analyst:

Autosampler Location: 115

Date Collected: 8/31/2012 11:07:52 AM

Data Type: Original

=====
Analysis BegunLogged In Analyst: mitFIMS2
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: AS-90Sample Information File: C:\data-AA\mitFIMS2\Sample Information\0830A.sif
Batch ID: Null
Results Data Set: HG12083002
Results Library: C:\data-AA\mitFIMS2\Results\Results.mdb=====
Sequence No.: 1
Sample ID: S0
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 8/30/2012 9:57:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:-----
Replicate Data: S0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0006	0.0055	0.0006	09:58:53	Yes
2		[0.00]	0.0004	0.0011	0.0004	09:59:32	Yes
Mean:		[0.00]	0.0005				
SD:		0.00	0.0001				
%RSD:		0.00	18.58				

Auto-zero performed.

=====
Sequence No.: 2
Sample ID: S0.20
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 8/30/2012 9:59:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:-----
Replicate Data: S0.20

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0024	0.0144	0.0029	10:00:32	Yes
2		[0.2]	0.0023	0.0146	0.0028	10:01:12	Yes
Mean:		[0.2]	0.0024				
SD:		0.0	0.0000				
%RSD:		0.0	1.85				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01183 Intercept: 0.00000

=====
Sequence No.: 3
Sample ID: S1.0
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 8/30/2012 10:01:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:-----
Replicate Data: S1.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0129	0.0701	0.0134	10:02:12	Yes
2		[1]	0.0126	0.0696	0.0131	10:02:51	Yes
Mean:		[1]	0.0127				
SD:		0	0.0002				
%RSD:		0	1.38				

Standard number 2 applied. [1]
Correlation Coef.: 0.999687 Slope: 0.01271 Intercept: 0.00000

=====
Sequence No.: 4
Sample ID: S2.0
Autosampler Location: 4
Date Collected: 8/30/2012 10:02:53 AM

Analyst:
Initial Sample Wt:
Dilution:

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

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0254	0.1366	0.0259	10:03:51	Yes
2		[2]	0.0251	0.1352	0.0256	10:04:31	Yes
Mean:		[2]	0.0252				
SD:		0	0.0002				
%RSD:		0	0.78				

Standard number 3 applied. [2]
Correlation Coef.: 0.999923 Slope: 0.01263 Intercept: 0.00000

=====

Sequence No.: 5	Autosampler Location: 5
Sample ID: S5.0	Date Collected: 8/30/2012 10:04:33 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0635	0.3351	0.0640	10:05:30	Yes
2		[5]	0.0622	0.3343	0.0627	10:06:10	Yes
Mean:		[5]	0.0629				
SD:		0	0.0009				
%RSD:		0	1.43				

Standard number 4 applied. [5]
Correlation Coef.: 0.999987 Slope: 0.01258 Intercept: 0.00000

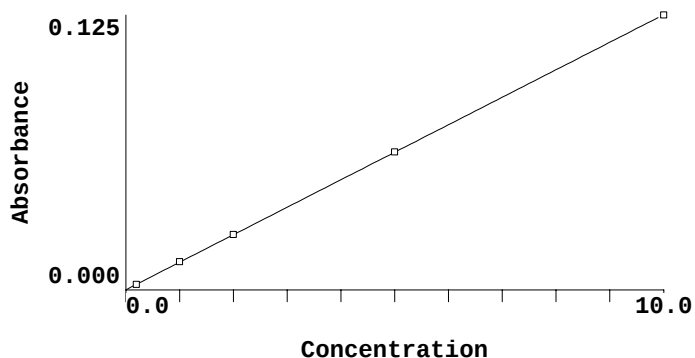
=====

Sequence No.: 6	Autosampler Location: 6
Sample ID: S10.0	Date Collected: 8/30/2012 10:06:12 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1264	0.6643	0.1269	10:07:10	Yes
2		[10]	0.1246	0.6605	0.1250	10:07:49	Yes
Mean:		[10]	0.1255				
SD:		0	0.0013				
%RSD:		0	1.04				

Standard number 5 applied. [10]
Correlation Coef.: 0.999996 Slope: 0.01256 Intercept: 0.00000



Correlation Coef.: 0.999996 Slope: 0.01256 Intercept: 0.00000

Autosampler Location: 7
Date Collected: 8/30/2012 10:07:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

QC value within limits for Hg 253.7 Recovery = 100.23%
All analyte(s) passed QC.

Autosampler Location: 1
Date Collected: 8/30/2012 10:09:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Autosampler Location: 17
Date Collected: 8/30/2012 10:11:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Autosampler Location: 18
Date Collected: 8/30/2012 10:12:52 AM
Data Type: Original
Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LCS-67881~LCS

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.847	4.847	0.0609	0.3192	0.0613	10:13:50	Yes
2	4.789	4.789	0.0601	0.3182	0.0606	10:14:30	Yes
Mean:	4.818	4.818	0.0605				
SD:	0.041	0.041	0.0005				
%RSD:	0.855	0.855	0.85				

=====

Sequence No.: 11
Sample ID: L1807-01A~LMW-5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 19

Date Collected: 8/30/2012 10:14:32 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-01A~LMW-5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	-0.0000	0.0042	0.0005	10:15:29	Yes
2	-0.023	-0.023	-0.0003	0.0001	0.0002	10:16:09	Yes
Mean:	-0.012	-0.012	-0.0001				
SD:	0.016	0.016	0.0002				
%RSD:	135.6	135.6	135.62				

=====

Sequence No.: 12
Sample ID: L1807-01ADUP~LMW-5D

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 20

Date Collected: 8/30/2012 10:16:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-01ADUP~LMW-5D

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	-0.0003	0.0002	10:17:08	Yes
2	-0.022	-0.022	-0.0003	-0.0003	0.0002	10:17:48	Yes
Mean:	-0.024	-0.024	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	12.51	12.51	12.51				

=====

Sequence No.: 13
Sample ID: L1807-01AMS~LMW-5S

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 21

Date Collected: 8/30/2012 10:17:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-01AMS~LMW-5S

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.093	5.093	0.0639	0.3246	0.0644	10:18:47	Yes
2	5.196	5.196	0.0652	0.3296	0.0657	10:19:27	Yes
Mean:	5.145	5.145	0.0646				
SD:	0.073	0.073	0.0009				
%RSD:	1.418	1.418	1.42				

=====

Sequence No.: 14
Sample ID: L1807-02A~LMW-55

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 22

Date Collected: 8/30/2012 10:19:29 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-02A-LMW-55

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.010	-0.010	-0.0001	0.0026	0.0004	10:20:27	Yes
2	-0.025	-0.025	-0.0003	-0.0005	0.0002	10:21:07	Yes
Mean:	-0.017	-0.017	-0.0002				
SD:	0.011	0.011	0.0001				
%RSD:	63.53	63.53	63.53				

Sequence No.: 15

Sample ID: L1807-03A-LMW-6

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 23

Date Collected: 8/30/2012 10:21:09 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-03A-LMW-6

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0004	-0.0006	0.0001	10:22:07	Yes
2	-0.031	-0.031	-0.0004	-0.0006	0.0001	10:22:46	Yes
Mean:	-0.031	-0.031	-0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	1.615	1.615	1.61				

Sequence No.: 16

Sample ID: L1807-04A-LMW-18

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 24

Date Collected: 8/30/2012 10:22:48 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-04A-LMW-18

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0004	-0.0009	0.0001	10:23:46	Yes
2	-0.031	-0.031	-0.0004	-0.0007	0.0001	10:24:25	Yes
Mean:	-0.031	-0.031	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.266	1.266	1.27				

Sequence No.: 17

Sample ID: L1807-05A-LMW-19

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 25

Date Collected: 8/30/2012 10:24:27 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-05A-LMW-19

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.033	-0.033	-0.0004	-0.0012	0.0001	10:25:25	Yes
2	-0.033	-0.033	-0.0004	-0.0010	0.0001	10:26:04	Yes
Mean:	-0.033	-0.033	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	0.744	0.744	0.74				

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 8/30/2012 10:26:06 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
--------	-----------------	--------------	----------------	-----------	-------------	------	-------------

1	4.968	4.968	0.0624	0.3205	0.0629	10:27:05	Yes
2	5.006	5.006	0.0629	0.3204	0.0633	10:27:45	Yes
Mean:	4.987	4.987	0.0626				
SD:	0.027	0.027	0.0003				
%RSD:	0.540	0.540	0.54				

QC value within limits for Hg 253.7 Recovery = 99.74%
All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 10:27:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.009	0.009	0.0001	0.0043	0.0006	10:28:48	Yes
2	0.002	0.002	0.0000	0.0017	0.0005	10:29:28	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	93.91	93.91	93.91				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 20

Sample ID: L1807-06A~LMW-12

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 26

Date Collected: 8/30/2012 10:29:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-06A~LMW-12

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.026	-0.026	-0.0003	0.0000	0.0002	10:30:30	Yes
2	-0.024	-0.024	-0.0003	-0.0001	0.0002	10:31:10	Yes
Mean:	-0.025	-0.025	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	5.432	5.432	5.43				

Sequence No.: 21

Sample ID: L1807-07A~LMW-14

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 27

Date Collected: 8/30/2012 10:31:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-07A~LMW-14

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.011	-0.011	-0.0001	0.0016	0.0004	10:32:09	Yes
2	-0.014	-0.014	-0.0002	0.0008	0.0003	10:32:49	Yes
Mean:	-0.013	-0.013	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	18.32	18.32	18.32				

Sequence No.: 22

Sample ID: L1807-08A~LMW-21

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 28

Date Collected: 8/30/2012 10:32:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-08A~LMW-21

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.014	-0.014	-0.0002	0.0008	0.0003	10:33:49	Yes
2	-0.015	-0.015	-0.0002	0.0003	0.0003	10:34:29	Yes
Mean:	-0.014	-0.014	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	2.163	2.163	2.16				

Sequence No.: 23
Sample ID: L1807-09A~LMW-20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 8/30/2012 10:34:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-09A~LMW-20

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	-0.0002	0.0002	0.0002	10:35:28	Yes
2	-0.020	-0.020	-0.0002	0.0001	0.0002	10:36:08	Yes
Mean:	-0.019	-0.019	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	1.088	1.088	1.09				

Sequence No.: 24
Sample ID: L1807-10A~LMW-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 8/30/2012 10:36:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-10A~LMW-10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.020	-0.020	-0.0003	0.0003	0.0002	10:37:07	Yes
2	-0.021	-0.021	-0.0003	0.0004	0.0002	10:37:47	Yes
Mean:	-0.020	-0.020	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.998	1.998	2.00				

Sequence No.: 25
Sample ID: L1807-11A~LMW-16
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 8/30/2012 10:37:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-11A~LMW-16

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.030	-0.030	-0.0004	-0.0005	0.0001	10:38:47	Yes
2	-0.030	-0.030	-0.0004	-0.0007	0.0001	10:39:27	Yes
Mean:	-0.030	-0.030	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.451	1.451	1.45				

Sequence No.: 26
Sample ID: L1807-12A~LMW-2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 8/30/2012 10:39:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-12A~LMW-2

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.020	-0.020	-0.0002	-0.0003	0.0002	10:40:30	Yes
2	-0.017	-0.017	-0.0002	0.0006	0.0003	10:41:10	Yes

Mean: -0.018 -0.018 -0.0002
SD: 0.002 0.002 0.0000
%RSD: 10.14 10.14 10.14

Sequence No.: 27

Sample ID: L1807-13A-LMW-3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 33

Date Collected: 8/30/2012 10:41:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-13A-LMW-3

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0000	0.0001	10:42:09	Yes
2	-0.027	-0.027	-0.0003	-0.0002	0.0002	10:42:49	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.574	1.574	1.57				

Sequence No.: 28

Sample ID: L1807-14A-LMW-4

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 34

Date Collected: 8/30/2012 10:42:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-14A-LMW-4

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0000	0.0029	0.0005	10:43:49	Yes
2	0.002	0.002	0.0000	0.0020	0.0005	10:44:28	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	30.08	30.08	30.08				

Sequence No.: 29

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 8/30/2012 10:44:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.004	5.004	0.0628	0.3136	0.0633	10:45:31	Yes
2	5.002	5.002	0.0628	0.3127	0.0633	10:46:10	Yes
Mean:	5.003	5.003	0.0628				
SD:	0.001	0.001	0.0000				
%RSD:	0.027	0.027	0.03				

QC value within limits for Hg 253.7 Recovery = 100.07%
All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 10:46:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0001	0.0038	0.0006	10:47:12	Yes
2	0.007	0.007	0.0001	0.0027	0.0006	10:47:52	Yes
Mean:	0.008	0.008	0.0001				

SD: 0.002 0.002 0.0000

%RSD: 21.97 21.97 21.97

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 31

Sample ID: L1807-15A~DMW-13A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 35

Date Collected: 8/30/2012 10:47:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-15A~DMW-13A

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0003	0.0009	0.0002	10:48:53	Yes
2	-0.021	-0.021	-0.0003	0.0008	0.0002	10:49:33	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	6.116	6.116	6.12				

Sequence No.: 32

Sample ID: L1807-16A~DMW-22B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 36

Date Collected: 8/30/2012 10:49:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-16A~DMW-22B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0004	0.0005	0.0001	10:50:32	Yes
2	-0.029	-0.029	-0.0004	0.0003	0.0001	10:51:12	Yes
Mean:	-0.029	-0.029	-0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	1.919	1.919	1.92				

Sequence No.: 33

Sample ID: L1807-17A~DMW-22A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 8/30/2012 10:51:14 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-17A~DMW-22A

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0000	0.0001	10:52:12	Yes
2	-0.028	-0.028	-0.0004	0.0000	0.0001	10:52:52	Yes
Mean:	-0.028	-0.028	-0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	2.631	2.631	2.63				

Sequence No.: 34

Sample ID: L1807-18A~DMW-18

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 8/30/2012 10:52:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-18A~DMW-18

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	0.0008	0.0002	10:53:51	Yes
2	-0.029	-0.029	-0.0004	0.0002	0.0001	10:54:31	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.002	0.002	0.0000				

%RSD: 7.213 7.213 7.21

Sequence No.: 35

Sample ID: L1807-19A~DMW-2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 8/30/2012 10:54:33 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-19A~DMW-2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	0.0004	0.0002	10:55:30	Yes
2	-0.028	-0.028	-0.0003	0.0003	0.0001	10:56:10	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	3.592	3.592	3.59				

Sequence No.: 36

Sample ID: L1807-19ADUP~DMW-2D

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 8/30/2012 10:56:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-19ADUP~DMW-2D

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0003	0.0004	0.0002	10:57:10	Yes
2	-0.023	-0.023	-0.0003	0.0008	0.0002	10:57:49	Yes
Mean:	-0.023	-0.023	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	4.222	4.222	4.22				

Sequence No.: 37

Sample ID: L1807-19AMS~DMW-2S

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 8/30/2012 10:57:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-19AMS~DMW-2S

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.896	4.896	0.0615	0.3042	0.0620	10:58:48	Yes
2	4.930	4.930	0.0619	0.3039	0.0624	10:59:28	Yes
Mean:	4.913	4.913	0.0617				
SD:	0.025	0.025	0.0003				
%RSD:	0.502	0.502	0.50				

Sequence No.: 38

Sample ID: L1807-20A~DMW-3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 42

Date Collected: 8/30/2012 10:59:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-20A~DMW-3

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0003	0.0012	0.0002	11:00:27	Yes
2	-0.027	-0.027	-0.0003	0.0004	0.0002	11:01:07	Yes
Mean:	-0.025	-0.025	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	8.139	8.139	8.14				

Sequence No.: 39
Sample ID: MB-67882~PBW
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 8/30/2012 11:01:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: MB-67882~PBW

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.022	-0.022	-0.0003	0.0014	0.0002	11:02:07	Yes
2	-0.019	-0.019	-0.0002	0.0029	0.0003	11:02:47	Yes
Mean:	-0.020	-0.020	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	10.96	10.96	10.96				

Sequence No.: 40
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 8/30/2012 11:02:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.098	5.098	0.0640	0.3149	0.0645	11:03:47	Yes
2	5.076	5.076	0.0637	0.3122	0.0642	11:04:27	Yes
Mean:	5.087	5.087	0.0639				
SD:	0.016	0.016	0.0002				
%RSD:	0.313	0.313	0.31				

QC value within limits for Hg 253.7 Recovery = 101.74%
All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/30/2012 11:04:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	0.0051	0.0006	11:05:29	Yes
2	0.003	0.003	0.0000	0.0035	0.0005	11:06:09	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	58.96	58.96	58.96				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 42
Sample ID: LCS-67882~LCS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 8/30/2012 11:06:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LCS-67882~LCS

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.884	4.884	0.0613	0.3038	0.0618	11:07:11	Yes
2	4.978	4.978	0.0625	0.3075	0.0630	11:07:51	Yes
Mean:	4.931	4.931	0.0619				
SD:	0.067	0.067	0.0008				
%RSD:	1.352	1.352	1.35				

Sequence No.: 43

Sample ID: L1807-21A~DMW-9

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 8/30/2012 11:07:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-21A~DMW-9

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	-0.0003	0.0037	0.0002	11:08:51	Yes
2	-0.025	-0.025	-0.0003	0.0027	0.0002	11:09:30	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	13.75	13.75	13.75				

Sequence No.: 44

Sample ID: L1807-22A~DMW-9B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 46

Date Collected: 8/30/2012 11:09:32 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-22A~DMW-9B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0003	0.0029	0.0002	11:10:30	Yes
2	-0.025	-0.025	-0.0003	0.0026	0.0002	11:11:09	Yes
Mean:	-0.024	-0.024	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	4.247	4.247	4.25				

Sequence No.: 45

Sample ID: L1807-23A~DMW-52

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 8/30/2012 11:11:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-23A~DMW-52

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.033	-0.033	-0.0004	0.0001	0.0001	11:12:09	Yes
2	-0.030	-0.030	-0.0004	0.0008	0.0001	11:12:49	Yes
Mean:	-0.032	-0.032	-0.0004				
SD:	0.002	0.002	0.0000				
%RSD:	6.557	6.557	6.56				

Sequence No.: 46

Sample ID: L1807-24A~DMW-15B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 8/30/2012 11:12:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-24A~DMW-15B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0004	0.0006	0.0001	11:13:52	Yes
2	-0.032	-0.032	-0.0004	0.0007	0.0001	11:14:32	Yes
Mean:	-0.032	-0.032	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.031	1.031	1.03				

Sequence No.: 47

Sample ID: L1807-25A~DMW-15A

Autosampler Location: 49

Date Collected: 8/30/2012 11:14:34 AM

Analyst:
Initial Sample Wt:
Dilution:

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

Replicate Data: L1807-25A~DMW-15A

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0004	0.0012	0.0001	11:15:31	Yes
2	-0.031	-0.031	-0.0004	0.0005	0.0001	11:16:12	Yes
Mean:	-0.030	-0.030	-0.0004				
SD:	0.002	0.002	0.0000				
%RSD:	7.285	7.285	7.28				

=====

Sequence No.: 48
Sample ID: L1807-26A~DMW-23B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 8/30/2012 11:16:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-26A~DMW-23B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0012	0.0001	11:17:11	Yes
2	-0.026	-0.026	-0.0003	0.0012	0.0002	11:17:50	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.839	1.839	1.84				

=====

Sequence No.: 49
Sample ID: L1807-27A~DMW-13B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 8/30/2012 11:17:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-27A~DMW-13B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0004	0.0010	0.0001	11:18:50	Yes
2	-0.032	-0.032	-0.0004	0.0007	0.0001	11:19:30	Yes
Mean:	-0.031	-0.031	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.409	1.409	1.41				

=====

Sequence No.: 50
Sample ID: L1807-28A~DMW-23A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 8/30/2012 11:19:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-28A~DMW-23A

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0003	0.0016	0.0001	11:20:30	Yes
2	-0.027	-0.027	-0.0003	0.0008	0.0002	11:21:09	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	2.344	2.344	2.34				

=====

Sequence No.: 51
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 8/30/2012 11:21:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.163	5.163	0.0648	0.3163	0.0653	11:22:11	Yes
2	5.139	5.139	0.0645	0.3164	0.0650	11:22:51	Yes
Mean:	5.151	5.151	0.0647				
SD:	0.017	0.017	0.0002				
%RSD:	0.323	0.323	0.32				

QC value within limits for Hg 253.7 Recovery = 103.02%
All analyte(s) passed QC.

=====

Sequence No.: 52

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 11:22:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	0.0003	0.0124	0.0008	11:23:53	Yes
2	0.007	0.007	0.0001	0.0059	0.0006	11:24:33	Yes
Mean:	0.017	0.017	0.0002				
SD:	0.014	0.014	0.0002				
%RSD:	79.97	79.97	79.97				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 53

Sample ID: L1808-01A~LMW-5F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 53

Date Collected: 8/30/2012 11:24:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-01A~LMW-5F

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.020	-0.020	-0.0002	0.0030	0.0002	11:25:35	Yes
2	-0.025	-0.025	-0.0003	0.0025	0.0002	11:26:15	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	15.84	15.84	15.84				

=====

Sequence No.: 54

Sample ID: L1808-02A~LMW-55F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 54

Date Collected: 8/30/2012 11:26:17 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-02A~LMW-55F

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.024	-0.024	-0.0003	0.0023	0.0002	11:27:14	Yes
2	-0.022	-0.022	-0.0003	0.0037	0.0002	11:27:54	Yes
Mean:	-0.023	-0.023	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	8.191	8.191	8.19				

=====

Sequence No.: 55

Sample ID: L1808-03A~LMW-6F

Analyst:

Initial Sample Wt:

Autosampler Location: 55

Date Collected: 8/30/2012 11:27:56 AM

Data Type: Original

Initial Sample Vol:

Prep Start Date: 8/29/2012 12:00:00
 Prep End Date: 8/29/2012 2:00:00 P
 Prep Batch ID: 67881

Prep Code: SW7470A_PR
 Technician: Jill L Cartwright

Prep Type: 7470A/METHOD

Prep Factor Units:
 mL / mL

QC Matrix: N/A
 QC Matrix Lot: N/A
 Filter?: N/A
 Filter Lot: N/A
 Conc H2SO4 3110100
 Conc H2SO4 (mL): 5.0
 Conc HNO3 1112012
 Conc HNO3 (mL): 2.5
 5% KMnO4 IR12082808
 5% KMnO4 (mL): 15.0
 5% K2S2O8 IR12082809
 5% K2S2O8 (mL): 8.0
 Digestion Start Time 1: 08/29/2012 12:00
 Digestion End Time 1: 08/29/2012 14:00
 Digestion Start Time 2: N/A
 Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-47
 Corr Fac-3

Mitkem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	HOT BLOCK
S0		100	--	--	--	--			08/29/12	JLC		2	<2	HB-A
S0.2		100	--	--	--	--			08/29/12	JLC		2		HB-A
S1.0	40 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
S2.0	200 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
S5.0	400 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
S10.0	1000 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
ICV	2000 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
ICB	1000 uL III120828A	100	--	--	--	--			08/29/12	JLC		2		HB-A
CCV		100	--	--	--	--			08/29/12	JLC		2		HB-A
CCB	1000 uL III120828A	100	--	--	--	--			08/29/12	JLC		2		HB-A
MB-67881		100	--	--	--	--			08/29/12	JLC		2		HB-A
LCS-67881		100	--	--	--	--			08/29/12	JLC		2		HB-A
L1807-01A	LMW-5	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-A
L1807-01ADUP	LMW-5	100	--	--	--	--			08/29/12	JLC		2		HB-A
L1807-01AMS	LMW-5	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-A
L1807-02A	LMW-55	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-A
L1807-03A	LMW-6	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-2
L1807-04A	LMW-18	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-2

Logbook ID: 100.0128-08/12

8/29/12 JLC

Prep Start Date: 8/29/2012 12:00:00

Prep End Date: 8/29/2012 2:00:00 P

Prep Batch ID: 67881

Prep Code: SW7470A_PR

Prep Type: 7470A/METHOD

Technician: Jill L Cartwright

Prep Factor Units:
mL / mL

QC Matrix: N/A

Conc H2SO4 3110100

QC Matrix Lot: N/A

Conc H2SO4 (mL): 5.0

Filter?: N/A

Conc HNO3 1112012

Filter Lot: N/A

Conc HNO3 (mL): 2.5

Reagent 5 Lot: N/A

Reagent 5 (mL): N/A

Reagent 6 Lot: N/A

Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 12:00

Digestion End Time 1: 08/29/2012 14:00

Digestion Start Time 2: N/A

Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-47
Corr Fac -3

Mitkem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
L1807-05A	LMW-19	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-06A	LMW-12	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-07A	LMW-14	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-08A	LMW-21	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-09A	LMW-20	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-10A	LMW-10	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-11A	LMW-16	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-12A	LMW-2	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-13A	LMW-3	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-14A	LMW-4	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-15A	DMW-13A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-16A	DMW-22B	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1807-17A	DMW-22A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-C
TAL														
L1807-18A	DMW-18	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-C
TAL														
L1807-19A	DMW-2	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-C
TAL														
L1807-19ADUP	DMW-2	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-C

Logbook ID: 100.0128 -08/12

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Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 8/29/2012 12:00:00

Prep End Date: 8/29/2012 2:00:00 P

Prep Batch ID: 67881

Prep Code: SW7470A_PR

Technician: Jill L Cartwright

Prep Type: 7470A/METHOD

Prep Factor Units:

mL / mL

QC Matrix: N/A Conc H2SO4 3110100 5% KMnO4 IR12082808 Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc H2SO4 (mL): 5.0 5% KMnO4 (mL): 15.0 Reagent 5 (mL): N/A

Filter?: N/A Conc HNO3 1112012 5% K2S2O8 IR12082809 Reagent 6 Lot: N/A
Filter Lot: N/A Conc HNO3 (mL): 2.5 5% K2S2O8 (mL): 8.0 Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 12:00

Digestion Start Time 2: N/A

Digestion End Time 1: 08/29/2012 14:00

Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-47

Corr Fac-3

Mitkem Sample ID	Client Samp ID	Initial L/g	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH	HOT BLOCK
L1807-19AMS	DMW-2	A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	>11	HB-C
L1807-20A	DMW-3	A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	<2	HB-C
1000 uL III20828B															
TAL															

Jill L Cartwright

Analyst Reviewed

08/29/2012

Date

HZA

Manager Reviewed

8/29/12

Date

Comments:

8/29/12 JLC

Prep Start Date: 8/29/2012 12:00:00

Prep End Date:

Prep Batch ID: 67882

Prep Code: SW7470A_PR

Prep Type: 7470A/METHOD

Prep Factor Units:

Technician: Jill L Cartwright

mL / mL

QC Matrix: N/A
Conc H2SO4 3110100
QC Matrix Lot: N/A
Conc H2SO4 (mL): 5.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A
Conc HNO3 1112012
Conc HNO3 (mL): 2.5

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 12:00
Digestion End Time 1: 08/29/2012 14:00

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97
Therm ID1: MT-99
Corr Fac-2

Mitkem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
MB-67882		100	--	--	--	--						2	☐	HB-C
LCS-67882		100	--	--	--	--						2	☐	HB-C
1000 uL III20828B														
L1807-21A	DMW-9	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1807-22A	DMW-9B	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1807-23A	DMW-52	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1807-24A	DMW-15B	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1807-25A	DMW-15A	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1807-26A	DMW-23B	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1807-27A	DMW-13B	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1807-28A	DMW-23A	100	--	--	--	--	09/13/12	01				2	☐	HB-C
TAL														
L1808-01A	LMW-5F	100	--	--	--	--	09/13/12	01				2	☐	HB-J
TAL														
L1808-02A	LMW-55F	100	--	--	--	--	09/13/12	01				2	☐	HB-J
TAL														
L1808-03A	LMW-6F	100	--	--	--	--	09/13/12	01				2	☐	HB-J
TAL														
L1808-04A	LMW-18F	100	--	--	--	--	09/13/12	01				2	☐	HB-J
TAL														
L1808-05A	LMW-19F	100	--	--	--	--	09/13/12	01				2	☐	HB-J
TAL														
L1808-06A	LMW-12F	100	--	--	--	--	09/13/12	01				2	☐	HB-J
TAL														
L1808-06ADUP	LMW-12F	100	--	--	--	--	09/13/12	01				2	☐	HB-J
TAL														

N Logbook ID: 100.0128 -08/12

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Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

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Prep Start Date: 8/29/2012 12:00:00

Prep End Date:

Prep Batch ID: 67882

Prep Code: SW7470A_PR

Prep Type: 7470A/METHOD

Technician: Jill L Cartwright

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Conc H2SO4 3110100
Conc H2SO4 (mL): 5.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HNO3 1112012
Conc HNO3 (mL): 2.5

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 12:00
Digestion End Time 1: 08/29/2012 14:00

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-99
Corr Fac-2

Mitkem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans Bv	Storage	pH	pH >11 <2	HOT BLOCK
L1808-06AMS	LMW-12F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-07A	LMW-14F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-08A	LMW-21F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-09A	LMW-20F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-10A	LMW-10F	100	--	--	--	--	09/13/12	01				2		HB-J

Analyst Reviewed

Date

Manager Reviewed

Date

Comments:

8/29/12 JLC

Prep Start Date: 8/29/2012 11:20:00

Prep End Date: 8/29/2012 3:20:00 P

Prep Batch ID: 67888

Prep Code: ICP_W_PR

Prep Type: 3005A/SW3005A

Technician: David T Camara

Prep Factor Units:

mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A
Filter?: N/A
Filter Lot: N/A

Reagent 3 Lot: N/A
Reagent 3 (mL): N/A
Reagent 4 Lot: N/A
Reagent 4 (mL): N/A
Reagent 5 Lot: N/A
Reagent 5 (mL): N/A
Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:20
Digestion End Time 1: 08/29/2012 15:20

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-92

Corr Fac -3

Mikem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
MB-67888		50	--	--	--	--			08/29/12	DTC	ICPLab	2		HB-5
LCS-67888		50	--	--	--	--			08/29/12	DTC	ICPLab	2		HB-5
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP120321A														
L1798-01B	EFF-082212	A 50	--	--	--	--	09/11/12	01	08/29/12	DTC	ICPLab	2		HB-5
See SEL list														
L1798-02B	INF-082212	A 50	--	--	--	--	09/11/12	01	08/29/12	DTC	ICPLab	2		HB-5
See SEL list														
L1807-01A	LMW-5	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-01ADUP	LMW-5	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
L1807-01AMS	LMW-5	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP120321A														
L1807-02A	LMW-55	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-03A	LMW-6	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-04A	LMW-18	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-05A	LMW-19	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-06A	LMW-12	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-07A	LMW-14	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-08A	LMW-21	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-09A	LMW-20	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-10A	LMW-10	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														
L1807-11A	LMW-16	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-5
TAL														

1 DC 8/29/12

Start time:

Spectrum Analytical, Inc. RI Division: Aqueous Metals Preparation Logbook

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Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 8/29/2012 11:20:00

Prep End Date: 8/29/2012 3:20:00 P

Prep Batch ID: 67888

Prep Code: ICP_W_PR

Prep Type: 3005A/SW3005A

Technician: David T Camara

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:20
Digestion End Time 1: 08/29/2012 15:20

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97
Therm ID1: MT-92
Corr Fac -3

Mitkem Sample ID	Client Samp ID	tial L/g	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
L1807-12A	LMW-2	A	50	50	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	☐	HB-5
TAL															
L1807-13A	LMW-3	A	50	50	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	☐	HB-5
TAL															
L1807-14A	LMW-4	A	50	50	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	☐	HB-5
TAL															
L1807-15A	DMW-13A	A	50	50	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	☐	HB-5
TAL															
L1807-16A	DMW-22B	A	50	50	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	☐	HB-5
TAL															
L1807-17A	DMW-22A	A	50	50	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	☐	HB-5
TAL															
L1807-18A	DMW-18	A	50	50	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	☐	HB-5
TAL															

David T Camara
Analyst Reviewed
Date: 08/29/2012
Manager Reviewed
Date: 8/29/12

Comments:

10C 8/29/12

Prep Start Date: 8/29/2012 11:40:00

Prep End Date: 8/29/2012 3:40:00 P

Prep Batch ID: 67889

Prep Code: ICP_W_PR

Technician: David T Camara

Prep Type: 3005A/SW3005A

Prep Factor Units:

mL / mL

QC Matrix: N/A

Conc HNO3 1112012

QC Matrix Lot: N/A

Conc HNO3 (mL): 1.0

Reagent 5 Lot: N/A

Reagent 5 (mL): N/A

Filter?: N/A

Conc HCl 4111111

Reagent 6 Lot: N/A

Reagent 6 (mL): N/A

Filter Lot: N/A

Conc HCl (mL): 2.5

Digestion Start Time 1: 08/29/2012 11:40

Digestion Start Time 2: N/A

Digestion End Time 1: 08/29/2012 15:40

Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-94

Corr Fac -3

Mitkem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans Bv	Storage	pH	pH >11 <2	HOT BLOCK
MB-67889		50	--	--	--	--			08/29/12	DTC	ICPLab	2		HB-3
LCS-67889		50	--	--	--	--			08/29/12	DTC	ICPLab	2		HB-3
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A														
L1807-19A	DMW-2	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-19ADUP	DMW-2	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
L1807-19AMS	DMW-2	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A														
L1807-20A	DMW-3	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-21A	DMW-9	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-22A	DMW-9B	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-23A	DMW-52	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-24A	DMW-15B	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-25A	DMW-15A	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-26A	DMW-23B	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-27A	DMW-13B	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-28A	DMW-23A	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-01A	LMW-5F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-02A	LMW-55F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-03A	LMW-6F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														

10/8/12

N1

Logbook ID 100.0125 -06/12

Start time:

Spectrum Analytical, Inc. RI Division: Aqueous Metals Preparation Logbook

Wednesday, August 29, 2012 13:26

Page 02 of 02

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 8/29/2012 11:40:00

Prep End Date: 8/29/2012 3:40:00 P

Prep Batch ID: 67889

Prep Code: ICP_W_PR

Technician: David T Camara

Prep Type: 3005A/SW3005A

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:40
Digestion End Time 1: 08/29/2012 15:40

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-94
Corr Fac-3

Mitkem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH	HOT BLOCK
L1808-04A	LMW-18F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	>11 <2	HB-3
TAL														
L1808-05A	LMW-19F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-06A	LMW-12F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-06ADUP	LMW-12F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
L1808-06AMS	LMW-12F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A														
L1808-07A	LMW-14F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-08A	LMW-21F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														

David T Camara
Analyst Reviewed
Comments:

Manager Reviewed

Date
8/29/12

Signature

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1807

Profile Name: MULTI_SITE

MATRIX Aqueous

Samp #	Bottle	Test	Status	Received	Date
01A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
01A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
01A	002	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
01A	002	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
01A	003	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
01A	003	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
02A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
02A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
03A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
03A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
04A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
04A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
05A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
05A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
07A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
07A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
08A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
08A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
09A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
09A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
10A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
10A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
11A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
11A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
12A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
12A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
13A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
13A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
14A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
14A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1807

Profile Name: MULTI_SITE

MATRIX Aqueous

Samp #	Bottle	Test	Status	Received	Date
15A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
15A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
16A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
16A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
17A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
17A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
18A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
18A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
19A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
19A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
19A	002	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
19A	002	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
19A	003	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
19A	003	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
20A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
20A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
21A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
21A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
22A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
22A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
23A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
23A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
24A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
24A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
25A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
25A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
26A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
26A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
27A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
27A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
28A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:40:00 PM
28A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:40:00 PM

Last Page of Data Report

Report Date:
13-Sep-12 11:25



☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

AECOM Environment
100 Red Schoolhouse Road Suite B-1
Chestnut Ridge, NY 10977

Work Order: L1808
Project : Multi Site G - Liberty/Dzus
Project #: 60135736

Attn: Paul Kareth

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
L1808-01	LMW-5F	Aqueous	20-Aug-12 14:10	24-Aug-12 13:47
L1808-02	LMW-55F	Aqueous	20-Aug-12 14:15	24-Aug-12 13:47
L1808-03	LMW-6F	Aqueous	20-Aug-12 14:25	24-Aug-12 13:47
L1808-04	LMW-18F	Aqueous	21-Aug-12 11:55	24-Aug-12 13:47
L1808-05	LMW-19F	Aqueous	21-Aug-12 12:05	24-Aug-12 13:47
L1808-06	LMW-12F	Aqueous	21-Aug-12 15:00	24-Aug-12 13:47
L1808-07	LMW-14F	Aqueous	21-Aug-12 15:25	24-Aug-12 13:47
L1808-08	LMW-21F	Aqueous	21-Aug-12 17:28	24-Aug-12 13:47
L1808-09	LMW-20F	Aqueous	21-Aug-12 17:30	24-Aug-12 13:47
L1808-10	LMW-10F	Aqueous	23-Aug-12 09:10	27-Aug-12 13:32
L1808-11	LMW-16F	Aqueous	23-Aug-12 09:15	27-Aug-12 13:32
L1808-12	LMW-2F	Aqueous	23-Aug-12 11:20	27-Aug-12 13:32
L1808-13	LMW-3F	Aqueous	23-Aug-12 11:50	27-Aug-12 13:32
L1808-14	LMW-4F	Aqueous	23-Aug-12 13:45	27-Aug-12 13:32
L1808-15	DMW-2F	Aqueous	22-Aug-12 10:20	27-Aug-12 13:32
L1808-16	DMW-52F	Aqueous	22-Aug-12 10:30	27-Aug-12 13:32
L1808-17	DMW-3F	Aqueous	22-Aug-12 11:55	27-Aug-12 13:32
L1808-18	DMW-9BF	Aqueous	22-Aug-12 12:00	27-Aug-12 13:32
L1808-19	DMW-9F	Aqueous	22-Aug-12 12:49	27-Aug-12 13:32
L1808-20	DMW-15BF	Aqueous	22-Aug-12 15:20	27-Aug-12 13:32
L1808-21	DMW-15AF	Aqueous	22-Aug-12 15:35	27-Aug-12 13:32
L1808-22	DMW-23BF	Aqueous	22-Aug-12 17:10	27-Aug-12 13:32
L1808-23	DMW-13BF	Aqueous	22-Aug-12 17:25	27-Aug-12 13:32
L1808-24	DMW-23AF	Aqueous	22-Aug-12 18:05	27-Aug-12 13:32
L1808-25	DMW-13AF	Aqueous	22-Aug-12 18:50	27-Aug-12 13:32
L1808-26	DMW-22BF	Aqueous	23-Aug-12 16:17	27-Aug-12 13:32
L1808-27	DMW-22AF	Aqueous	23-Aug-12 16:20	27-Aug-12 13:32
L1808-28	DMW-18F	Aqueous	23-Aug-12 18:25	27-Aug-12 13:32

Report Date:
13-Sep-12 11:25



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

AECOM Environment
100 Red Schoolhouse Road Suite B-1
Chestnut Ridge, NY 10977

Work Order: L1808
Project : Multi Site G - Liberty/Dzus
Project #: 60135736

Attn: Paul Kareth

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
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I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G -- 60135736

SDG : L1808

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
LMW-5F	L1808-01				SW6010_W	
LMW-5F	L1808-01				SW7470	
LMW-55F	L1808-02				SW6010_W	
LMW-55F	L1808-02				SW7470	
LMW-6F	L1808-03				SW6010_W	
LMW-6F	L1808-03				SW7470	
LMW-18F	L1808-04				SW6010_W	
LMW-18F	L1808-04				SW7470	
LMW-19F	L1808-05				SW6010_W	
LMW-19F	L1808-05				SW7470	
LMW-12F	L1808-06				SW6010_W	
LMW-12F	L1808-06				SW7470	
LMW-14F	L1808-07				SW6010_W	
LMW-14F	L1808-07				SW7470	
LMW-21F	L1808-08				SW6010_W	
LMW-21F	L1808-08				SW7470	
LMW-20F	L1808-09				SW6010_W	
LMW-20F	L1808-09				SW7470	
LMW-10F	L1808-10				SW6010_W	
LMW-10F	L1808-10				SW7470	
LMW-16F	L1808-11				SW6010_W	
LMW-16F	L1808-11				SW7470	
LMW-2F	L1808-12				SW6010_W	
LMW-2F	L1808-12				SW7470	
LMW-3F	L1808-13				SW6010_W	
LMW-3F	L1808-13				SW7470	
LMW-4F	L1808-14				SW6010_W	
LMW-4F	L1808-14				SW7470	
DMW-2F	L1808-15				SW6010_W	
DMW-2F	L1808-15				SW7470	
DMW-52F	L1808-16				SW6010_W	
DMW-52F	L1808-16				SW7470	
DMW-3F	L1808-17				SW6010_W	
DMW-3F	L1808-17				SW7470	
DMW-9BF	L1808-18				SW6010_W	
DMW-9BF	L1808-18				SW7470	
DMW-9F	L1808-19				SW6010_W	
DMW-9F	L1808-19				SW7470	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G -- 60135736

SDG : L1808

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
DMW-15BF	L1808-20				SW6010_W	
DMW-15BF	L1808-20				SW7470	
DMW-15AF	L1808-21				SW6010_W	
DMW-15AF	L1808-21				SW7470	
DMW-23BF	L1808-22				SW6010_W	
DMW-23BF	L1808-22				SW7470	
DMW-13BF	L1808-23				SW6010_W	
DMW-13BF	L1808-23				SW7470	
DMW-23AF	L1808-24				SW6010_W	
DMW-23AF	L1808-24				SW7470	
DMW-13AF	L1808-25				SW6010_W	
DMW-13AF	L1808-25				SW7470	
DMW-22BF	L1808-26				SW6010_W	
DMW-22BF	L1808-26				SW7470	
DMW-22AF	L1808-27				SW6010_W	
DMW-22AF	L1808-27				SW7470	
DMW-18F	L1808-28				SW6010_W	
DMW-18F	L1808-28				SW7470	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Preparation and Analysis Summary ME

Project Name : Multi Site G -- 60135736

SDG : L1808

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_W				
L1808-01A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-02A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-03A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-04A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-05A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-06A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-06ADUP	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-06AMS	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-07A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-08A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-09A	AQ	SW6010_W	8/24/2012	8/31/2012
L1808-10A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-11A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-12A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-13A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-14A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-15A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-15ADUP	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-15AMS	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-16A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-17A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-18A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-19A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-20A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-21A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-22A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-23A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-24A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-25A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-26A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-27A	AQ	SW6010_W	8/27/2012	8/31/2012
L1808-28A	AQ	SW6010_W	8/27/2012	8/31/2012
SW7470				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation Sample Preparation and Analysis Summary ME

Project Name : Multi Site G -- 60135736

SDG : L1808

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
L1808-01A	AQ	SW7470	8/24/2012	8/30/2012
L1808-02A	AQ	SW7470	8/24/2012	8/30/2012
L1808-03A	AQ	SW7470	8/24/2012	8/30/2012
L1808-04A	AQ	SW7470	8/24/2012	8/30/2012
L1808-05A	AQ	SW7470	8/24/2012	8/30/2012
L1808-06A	AQ	SW7470	8/24/2012	8/30/2012
L1808-06ADUP	AQ	SW7470	8/24/2012	8/30/2012
L1808-06AMS	AQ	SW7470	8/24/2012	8/30/2012
L1808-07A	AQ	SW7470	8/24/2012	8/30/2012
L1808-08A	AQ	SW7470	8/24/2012	8/30/2012
L1808-09A	AQ	SW7470	8/24/2012	8/30/2012
L1808-10A	AQ	SW7470	8/27/2012	8/30/2012
L1808-11A	AQ	SW7470	8/27/2012	8/30/2012
L1808-12A	AQ	SW7470	8/27/2012	8/30/2012
L1808-13A	AQ	SW7470	8/27/2012	8/30/2012
L1808-14A	AQ	SW7470	8/27/2012	8/30/2012
L1808-15A	AQ	SW7470	8/27/2012	8/30/2012
L1808-15ADUP	AQ	SW7470	8/27/2012	8/30/2012
L1808-15AMS	AQ	SW7470	8/27/2012	8/30/2012
L1808-16A	AQ	SW7470	8/27/2012	8/30/2012
L1808-17A	AQ	SW7470	8/27/2012	8/30/2012
L1808-18A	AQ	SW7470	8/27/2012	8/30/2012
L1808-19A	AQ	SW7470	8/27/2012	8/30/2012
L1808-20A	AQ	SW7470	8/27/2012	8/30/2012
L1808-21A	AQ	SW7470	8/27/2012	8/30/2012
L1808-22A	AQ	SW7470	8/27/2012	8/30/2012
L1808-23A	AQ	SW7470	8/27/2012	8/30/2012
L1808-24A	AQ	SW7470	8/27/2012	8/30/2012
L1808-25A	AQ	SW7470	8/27/2012	8/30/2012
L1808-26A	AQ	SW7470	8/27/2012	8/30/2012
L1808-27A	AQ	SW7470	8/27/2012	8/30/2012
L1808-28A	AQ	SW7470	8/27/2012	8/30/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1808

Client ID: AECOM_CHSNTRDG

Project: Multi Site G

WO Name: Multi Site G - Liberty/Dzus

Location: MULTI_SITE, 60135736

Comments: send invoice to Paul according to e-mail on 5/28/08

Case:

SDG:

PO: 95900-04

HC Due: 09/13/12

Fax Due:

Fax Report: ☐

Report Level: ASP-B

Special Program:

EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1808-01A	LMW-5F	08/20/2012 14:10	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-01A	LMW-5F	08/20/2012 14:10	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-02A	LMW-55F	08/20/2012 14:15	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-02A	LMW-55F	08/20/2012 14:15	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-03A	LMW-6F	08/20/2012 14:25	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-03A	LMW-6F	08/20/2012 14:25	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-04A	LMW-18F	08/21/2012 11:55	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-04A	LMW-18F	08/21/2012 11:55	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-05A	LMW-19F	08/21/2012 12:05	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-05A	LMW-19F	08/21/2012 12:05	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-06A	LMW-12F	08/21/2012 15:00	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL			Y	Y	M6
L1808-06A	LMW-12F	08/21/2012 15:00	08/24/2012	Aqueous	SW7470	Field Filtered / TAL			Y		M6
L1808-07A	LMW-14F	08/21/2012 15:25	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-07A	LMW-14F	08/21/2012 15:25	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-08A	LMW-21F	08/21/2012 17:28	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-08A	LMW-21F	08/21/2012 17:28	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-09A	LMW-20F	08/21/2012 17:30	08/24/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-09A	LMW-20F	08/21/2012 17:30	08/24/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-10A	LMW-10F	08/23/2012 09:10	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-10A	LMW-10F	08/23/2012 09:10	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-11A	LMW-16F	08/23/2012 09:15	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1808

Client ID: AECOM_CHSNTRDG

Project: Multi Site G

WO Name: Multi Site G - Liberty/Dzus

Location: MULTI_SITE, 60135736

Comments: send invoice to Paul according to e-mail on 5/28/08

Case:

SDG:

PO: 95900-04

HC Due: 09/13/12

Fax Due:

Fax Report: ☐

Report Level: ASP-B

Special Program:

EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1808-11A	LMW-16F	08/23/2012 09:15	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-12A	LMW-2F	08/23/2012 11:20	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-12A	LMW-2F	08/23/2012 11:20	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-13A	LMW-3F	08/23/2012 11:50	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-13A	LMW-3F	08/23/2012 11:50	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-14A	LMW-4F	08/23/2012 13:45	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-14A	LMW-4F	08/23/2012 13:45	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-15A	DMW-2F	08/22/2012 10:20	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL			Y	Y	M6
L1808-15A	DMW-2F	08/22/2012 10:20	08/27/2012	Aqueous	SW7470	Field Filtered / TAL			Y		M6
L1808-16A	DMW-52F	08/22/2012 10:30	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-16A	DMW-52F	08/22/2012 10:30	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-17A	DMW-3F	08/22/2012 11:55	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL			Y		M6
L1808-17A	DMW-3F	08/22/2012 11:55	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-18A	DMW-9BF	08/22/2012 12:00	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL			Y		M6
L1808-18A	DMW-9BF	08/22/2012 12:00	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-19A	DMW-9F	08/22/2012 12:49	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL			Y		M6
L1808-19A	DMW-9F	08/22/2012 12:49	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-20A	DMW-15BF	08/22/2012 15:20	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL			Y		M6
L1808-20A	DMW-15BF	08/22/2012 15:20	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-21A	DMW-15AF	08/22/2012 15:35	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL			Y		M6
L1808-21A	DMW-15AF	08/22/2012 15:35	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1808

Client ID: AECOM_CHSNTRDG

Project: Multi Site G

WO Name: Multi Site G - Liberty/Dzus

Location: MULTI_SITE, 60135736

Comments: send invoice to Paul according to e-mail on 5/28/08

Case:

SDG:

PO: 95900-04

HC Due: 09/13/12

Fax Due:

Fax Report: ☐

Report Level: ASP-B

Special Program:

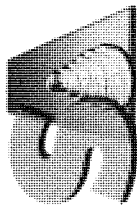
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1808-22A	DMW-23BF	08/22/2012 17:10	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-22A	DMW-23BF	08/22/2012 17:10	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-23A	DMW-13BF	08/22/2012 17:25	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-23A	DMW-13BF	08/22/2012 17:25	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-24A	DMW-23AF	08/22/2012 18:05	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-24A	DMW-23AF	08/22/2012 18:05	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-25A	DMW-13AF	08/22/2012 18:50	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-25A	DMW-13AF	08/22/2012 18:50	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-26A	DMW-22BF	08/23/2012 16:17	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-26A	DMW-22BF	08/23/2012 16:17	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-27A	DMW-22AF	08/23/2012 16:20	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-27A	DMW-22AF	08/23/2012 16:20	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6
L1808-28A	DMW-18F	08/23/2012 18:25	08/27/2012	Aqueous	SW6010_W	Field Filtered / TAL				Y	M6
L1808-28A	DMW-18F	08/23/2012 18:25	08/27/2012	Aqueous	SW7470	Field Filtered / TAL					M6

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Sample Transmittal Documentation



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page of

Special Handling:

- TAT- Indicate Date Needed:
• All TATs subject to laboratory approval.
• Min. 24-hour notification needed for rushes.
• Samples disposed of after 30 days unless otherwise instructed.

Report To: Aileen

100 Red Schoolhouse Rd

Suite B-1

Chestnut Ridge NY 10972

Project Mgr.: Paul Kareth

Invoice To: Same as Report

P.O. No. 60135736 RQN: 60135736

Project No.: 60135736

Site Name: Liberty / Multi Site G

Location: Brentwood State: NY

Sampler(s): C Foster / R Papagian

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9= 10= 11=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix
U208-01	LMW-5F	14708-8/20/12	1410	G	GW
-02	LMW-55F	14759-8/20/12	1415		
-03	LMW-6F	14259-8/20/12	1425		
-04	LMW-18F	8/21/2012	1155		
-05	LMW-19F	8/21/2012	1205		
-06	LMW-12F	8/21/2012	1500		
-07	LMW-14F	8/21/12	1525		
-08	LMW-21F	8/21/12	1728		
U208-09	LMW-20F	8/21/12	1730		

E-mail to Paul Kareth

EDD Format NYSDEC EGIS EDD

Condition upon receipt: ☒ Ice ☐ Ambient ☐ °C

Containers:

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Analyses:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other

State specific reporting standards:

List preservative code below:

4

Notes:

Relinquished by: Celest

Date:

Time:

8/23/12 1PM

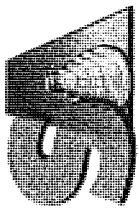
8/23/12 6:00

324-12 800

Subout

Subout

8/23/12 13:47



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 4

Special Handling:

TAT- Indicate Date Needed: _____
• All TATs subject to laboratory approval.
• Min. 24-hour notification needed for rushes.
• Samples disposed of after 30 days unless otherwise instructed.

Report To: AECOM
100 Red Schoolhouse Rd
Suite B-1
Chestnut Ridge NY 10977
Project Mgr.: Paul Kareth

Invoice To: Same as Report

P.O. No.: 60135736 RQN: _____

Project No.: 60135736
Site Name: DEVELOPMENT Multi Sites 6
Location: BRENTWOOD State: NY
Sampler(s): CELESTE FOSTER/RITA PAPAGIAN

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9=_____ 10=_____ 11=_____

Notes: _____

List preservative code below:

4

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

Containers:

of VOA Vials

of Amber Glass

of Clear Glass

G=Grab C=Composite

Lab Id: Sample Id: Date: Time: Matrix Type

25	DMW-13A	8/22/12	1845	G	GW	0	0	0	1	X	TAL Metals
	DMW-13AF	8/22/12	1850	G	GW	0	0	0	1	X	
	DMW-22B	8/23/12	1612			0	0	0	1	X	
26	DMW-22BF		1617			0	0	0	1	X	
	DMW-22A		1625			0	0	0	1	X	
27	DMW-22AF		1620			0	0	0	1	X	
	DMW-18		1830			0	0	0	1	X	
28	DMW-18F		1825			0	0	0	1	X	

QA/QC Reporting Level

☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State specific reporting standards: _____

E-mail to: Paul.kareth@aecom.com
EDD Format: NYSDEC EQUIS EDD

Relinquished by: _____

Received by: _____

Date: _____ Time: _____

Condition upon receipt: ☒ Iced ☐ Ambient ☒ °C 4

Signature: Sub. Fredrickson

Date: 8/27/12

Date: 8-24-12 Time: 12:10

Received By: <i>[Signature]</i>						Page 01 of 00				
Reviewed By: <i>[Signature]</i>						Log-in Date 08/24/2012				
Work Order: L1808		Client Name: AECOM Technical Services, Inc.								
Project Name/Event: Multi Site G										
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.				Preservation (pH)					Soil HeadSpace or Air Bubble > or equal to 1/4"	
				Lab Sample ID	HNO3	H2SO4	HCl	NaOH		H3PO4
1. Custody Seal(s)		Present / Absent		L1808-01	<2					
		Intact / Broken		L1808-02	<2					
2. Custody Seal Nos.		N/A		L1808-03	<2					
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists		Present / Absent		L1808-04	<2					
				L1808-05	<2					
				L1808-06	<2					
				L1808-07	<2					
4. Airbill		AirBill / Sticker		L1808-08	<2					
		Present / Absent		L1808-09	<2					
5. Airbill No.		Courier N/A								
6. Sample Tags		Present / Absent								
Sample Tag Numbers		Listed /								
		Not Listed on Chain-of-Custody								
7. Sample Condition		Intact / Broken / Leaking								
8. Cooler Temperature Indicator Bottle		Present / Absent								
9. Cooler Temperature		3 °C								
10. Does information on TR/COCs and sample tags agree?		Yes / No								
11. Date Received at Laboratory		08/24/2012								
12. Time Received		13:47								
Sample Transfer										
Fraction (1) TVOA/VOA		Fraction (2) SVOA/PEST/ARO								
Area #		Area #								
By		By								
On		On								
IR Temp Gun ID: MT-1				VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze						
Coolant Condition: ICE										
Preservative Name/Lot No:										
				See Sample Condition Notification/Corrective Action Form Yes / <u>No</u>						
				Rad OK <u>Yes</u> / No						

Received By: <i>[Signature]</i>				Page 01 of 01					
Reviewed By: <i>Jodie Warner</i>				Log-in Date 08/27/2012					
Work Order: L1808		Client Name: AECOM Technical Services, Inc.							
Project Name/Event: Multi Site G									
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.									
		Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
			HNO3	H2SO4	HCl	NaOH	H3PO4		
1. Custody Seal(s)	Present / Absent	L1808-10	<2						
	Intact / Broken	L1808-11	<2						
2. Custody Seal Nos.	N/A	L1808-12	<2						
		L1808-13	<2						
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	L1808-14	<2						
		L1808-15	<2						
		L1808-16	<2						
4. Airbill	AirBill / Sticker	L1808-17	<2						
	Present / Absent	L1808-18	<2						
5. Airbill No.	Courier N/A	L1808-19	<2						
		L1808-20	<2						
6. Sample Tags	Present / Absent	L1808-21	<2						
Sample Tag Numbers	Listed /	L1808-22	<2						
	Not Listed on Chain-of-Custody	L1808-23	<2						
		L1808-24	<2						
		L1808-25	<2						
7. Sample Condition	Intact / Broken / Leaking	L1808-26	<2						
		L1808-27	<2						
		L1808-28	<2						
8. Cooler Temperature Indicator Bottle	Present / Absent								
9. Cooler Temperature	4 °C								
10. Does information on TR/COCs and sample tags agree?	Yes / No								
11. Date Received at Laboratory	08/27/2012								
12. Time Received	13:32								
Sample Transfer									
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO								
Area #	Area #								
By	By								
On	On								
IR Temp Gun ID: MT-1		VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze							
Coolant Condition: ICE									
Preservative Name/Lot No:		See Sample Condition Notification/Corrective Action Form Yes / No							
		Rad OK Yes / No							



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Metals ***

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : AECOM Environment

Project: Multi Site G - Liberty/Dzus

Laboratory Workorder / SDG #: L1808

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform analysis:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on samples: DMW-2F (L1808-15AMS) and LMW-12F (L1808-06AMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analyses were performed on samples: DMW-2F (L1808-15ADUP) and LMW-12F (L1808-06ADUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on samples: DMW-2F (L1808-15ASD) and LMW-12F (L1808-06ASD).

Percent differences were within the QC limits.

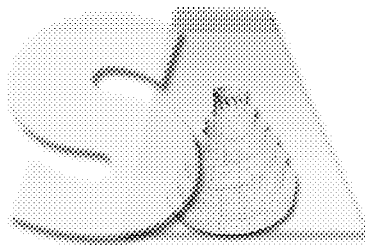
G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

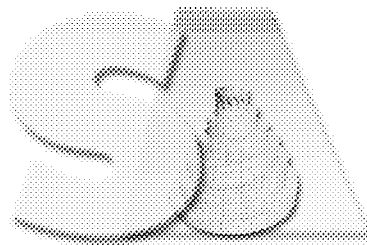
Date: 09/13/12



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Data Flag/Qualifiers:

- U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).
- J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
 - estimated concentration for Tentatively Identified Compound
- B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a “trace” concentration below the reporting limit and equal to or above the detection limit.
- D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis
- E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
- P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.
- A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.
- N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.
- * For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL** Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE** Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA** Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX** Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS** Matrix Spike.
- MSD** Matrix Spike Duplicate
- DUP** Duplicate analysis
- SD** Serial Dilution
- PS** Post-digestion or Post-distillation spike. For metals or inorganic analyses

U.S.EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

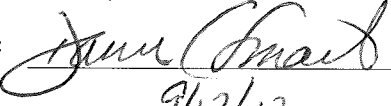
Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1808
SOW No.: SW846

EPA Sample No.	Lab Sample ID
<u>DMW-13AF</u>	<u>L1808-25</u>
<u>DMW-13BF</u>	<u>L1808-23</u>
<u>DMW-15AF</u>	<u>L1808-21</u>
<u>DMW-15BF</u>	<u>L1808-20</u>
<u>DMW-18F</u>	<u>L1808-28</u>
<u>DMW-22AF</u>	<u>L1808-27</u>
<u>DMW-22BF</u>	<u>L1808-26</u>
<u>DMW-23AF</u>	<u>L1808-24</u>
<u>DMW-23BF</u>	<u>L1808-22</u>
<u>DMW-2F</u>	<u>L1808-15</u>
<u>DMW-2FD</u>	<u>L1808-15DUP</u>
<u>DMW-2FS</u>	<u>L1808-15MS</u>
<u>DMW-3F</u>	<u>L1808-17</u>
<u>DMW-52F</u>	<u>L1808-16</u>
<u>DMW-9BF</u>	<u>L1808-18</u>
<u>DMW-9F</u>	<u>L1808-19</u>
<u>LMW-10F</u>	<u>L1808-10</u>
<u>LMW-12F</u>	<u>L1808-06</u>
<u>LMW-12FD</u>	<u>L1808-06DUP</u>
<u>LMW-12FS</u>	<u>L1808-06MS</u>
<u>LMW-14F</u>	<u>L1808-07</u>
<u>LMW-16F</u>	<u>L1808-11</u>
<u>LMW-18F</u>	<u>L1808-04</u>
<u>LMW-19F</u>	<u>L1808-05</u>
<u>LMW-20F</u>	<u>L1808-09</u>
<u>LMW-21F</u>	<u>L1808-08</u>

Were ICP interelement corrections applied? Yes/No Yes
Were background corrections applied? Yes/No Yes
If yes-were raw data generated before application of background corrections? Yes/No No

Comments:

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 hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature:  Name: Dawn E. Smart
Date: 9/13/12 Title: _____

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
SOW No.: SW846

EPA Sample No.	Lab Sample ID
<u>LMW-2F</u>	<u>L1808-12</u>
<u>LMW-3F</u>	<u>L1808-13</u>
<u>LMW-4F</u>	<u>L1808-14</u>
<u>LMW-55F</u>	<u>L1808-02</u>
<u>LMW-5F</u>	<u>L1808-01</u>
<u>LMW-6F</u>	<u>L1808-03</u>

Were ICP interelement corrections applied?	Yes/No	<u>Yes</u>
Were background corrections applied?	Yes/No	<u>Yes</u>
If yes-were raw data generated before application of background corrections?	Yes/No	<u>No</u>

Comments:

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 hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature:  Name: Dawn E. Smart
Date: 9/13/12 Title:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-13AF

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1808Matrix (soil/water): WATERLab Sample ID: L1808-25Level (low/med): MEDDate Received: 08/27/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	31.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	64.4			P
7440-70-2	Calcium	7800			P
7440-47-3	Chromium	1.9	B		P
7440-48-4	Cobalt	15.1	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1580			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	960			P
7439-96-5	Manganese	3430			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	2140			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	46900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-13BF

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1808Matrix (soil/water): WATERLab Sample ID: L1808-23Level (low/med): MEDDate Received: 08/27/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	22.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	10600			P
7440-47-3	Chromium	21.4			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1550			P
7439-96-5	Manganese	19.7	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	1360			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	8950			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-15AF

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-21

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	15.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	9.7			P
7440-70-2	Calcium	13400			P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2440			P
7439-96-5	Manganese	41.1	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.1	B		P
7440-09-7	Potassium	2230			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	20400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-15BF

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-20

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	B		P
7440-39-3	Barium	29.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	11500			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	18.1	B		P
7439-89-6	Iron	48.4	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4490			P
7439-96-5	Manganese	174			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	1510			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	39100			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	23.7	B		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-18F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-28

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	17.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14300			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2410			P
7439-96-5	Manganese	23.4	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2410			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	18700			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-22AF

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-27

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	37.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	28200			P
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	2690			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4210			P
7439-96-5	Manganese	443			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	3040			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	61000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	16.1	B		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-22BF

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-26

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	40.5	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	22500			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3950			P
7439-96-5	Manganese	726			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	4270			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	19000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-23AF

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-24

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	27.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	3.3	B		P
7440-70-2	Calcium	26400			P
7440-47-3	Chromium	4.0	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	602			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4750			P
7439-96-5	Manganese	1170			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium	5790			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	73400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	5.9	B		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-23BF

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-22

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	26.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	33.1			P
7440-70-2	Calcium	17700			P
7440-47-3	Chromium	7.8	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	117	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2910			P
7439-96-5	Manganese	135			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.3	B		P
7440-09-7	Potassium	1820			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-2F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-15

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	18.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	12300			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1060			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1790			P
7439-96-5	Manganese	115			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.3	B		P
7440-09-7	Potassium	1430			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	23500			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	5.2	B		P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-3F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-17

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	28.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	15.1			P
7440-70-2	Calcium	10700			P
7440-47-3	Chromium	0.90	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2180			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2400			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	23000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	7.1	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-52F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-16

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	18.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	12100			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	996			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1790			P
7439-96-5	Manganese	115			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.2	B		P
7440-09-7	Potassium	1340			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	23500			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	5.6	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-9BF

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-18

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	21.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	8330			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1480			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	1790			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	19700			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DMW-9F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-19

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	17.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	4.4	B		P
7440-70-2	Calcium	13700			P
7440-47-3	Chromium	4.0	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3220			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	1390			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	25900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	11.8	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-10F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-10

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	28.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	34.9			P
7440-70-2	Calcium	26000			P
7440-47-3	Chromium	155			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3650			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	3.5	B		P
7440-09-7	Potassium	4770			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	14900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-12F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-06

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	48.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	9.3			P
7440-70-2	Calcium	28900			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	39.0	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	5600			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium	2970			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	16200			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	55.9			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-14F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-07

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	954			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	43.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	3.7	B		P
7440-70-2	Calcium	10900			P
7440-47-3	Chromium	88.2			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	7.2	B		P
7439-89-6	Iron	1180			P
7439-92-1	Lead	13.2			P
7439-95-4	Magnesium	2470			P
7439-96-5	Manganese	211			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	6.1	B		P
7440-09-7	Potassium	4170			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	15400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	2.3	B		P
7440-66-6	Zinc	25.5	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-16F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-11

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	322			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	339			P
7440-41-7	Beryllium	0.72	B		P
7440-43-9	Cadmium	4.3	B		P
7440-70-2	Calcium	11700			P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	63.0			P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3680			P
7439-96-5	Manganese	632			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	12.0	B		P
7440-09-7	Potassium	5860			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	13500			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	33.2	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-18F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-04

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	164	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	64.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	15700			P
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	277			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3650			P
7439-96-5	Manganese	539			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.5	B		P
7440-09-7	Potassium	8720			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	26000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	8.0	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-19F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-05

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	9.5	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3920			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	867	B		P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	13700			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-20F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-09

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	40.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	16900			P
7440-47-3	Chromium	0.91	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	8870			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.0	B		P
7440-09-7	Potassium	1710			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	21400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	4.9	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-21F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-08

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	11.9	B		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	85.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14200			P
7440-47-3	Chromium	10.6	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	5820			P
7439-96-5	Manganese	56.7			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	7050			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	19400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	6.0	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-2F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-12

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	31.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	2.7	B		P
7440-70-2	Calcium	21500			P
7440-47-3	Chromium	12.0	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3870			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	3.3	B		P
7440-09-7	Potassium	1660			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	22900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	26.1	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-3F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-13

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	27.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	2.8	B		P
7440-70-2	Calcium	29400			P
7440-47-3	Chromium	103			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	6.5	B		P
7439-89-6	Iron	45.4	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	5180			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium	2480			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	31000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	19.3	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-4F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-14

Level (low/med): MED

Date Received: 08/27/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1130			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	21.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	27.3			P
7440-70-2	Calcium	19600			P
7440-47-3	Chromium	58.7			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	58.9			P
7439-89-6	Iron	1110			P
7439-92-1	Lead	9.8	B		P
7439-95-4	Magnesium	2870			P
7439-96-5	Manganese	14.4	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	15.8	B		P
7440-09-7	Potassium	2460			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	14400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	3.2	B		P
7440-66-6	Zinc	220			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-55F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-02

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	160	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	63.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	18200			P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3320			P
7439-96-5	Manganese	66.5			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	5430			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	18800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	9.5	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-5F

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1808Matrix (soil/water): WATERLab Sample ID: L1808-01Level (low/med): MEDDate Received: 08/24/2012% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	157	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	60.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	18600			P
7440-47-3	Chromium	1.5	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3390			P
7439-96-5	Manganese	67.4			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium	5440			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	19000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	10.3	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

LMW-6F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Lab Sample ID: L1808-03

Level (low/med): MED

Date Received: 08/24/2012

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	2.7	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	7750			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	39.8	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3180			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium	552	B		P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	10300			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	7.9	B		P

Comments:

2A

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Initial Calibration Source:

Continuing Calibration Source:

	Initial Calibration			Continuing Calibration					
	08/30/12 10:07				08/30/12 10:26		08/30/12 10:44		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	5.01	100.2	5.0	4.99	99.7	5.00	100.1	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2A

2A

2A

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	08/30/12 14:23				08/30/12 14:42		08/30/12 15:23		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9930.38	99.3	10000.0	9966.83	99.7	10048.42	100.5	P
Arsenic	500.0	496.77	99.4	500.0	501.72	100.3	508.25	101.6	P
Barium	10000.0	10385.29	103.9	10000.0	10337.95	103.4	10477.53	104.8	P
Beryllium	250.0	248.58	99.4	250.0	247.97	99.2	251.58	100.6	P
Cadmium	250.0	247.17	98.9	250.0	247.46	99.0	249.84	99.9	P
Calcium	25000.0	24293.30	97.2	25000.0	24150.43	96.6	24664.87	98.7	P
Chromium	1000.0	992.11	99.2	1000.0	994.46	99.4	1008.33	100.8	P
Cobalt	2500.0	2590.66	103.6	2500.0	2592.01	103.7	2619.79	104.8	P
Copper	1250.0	1232.29	98.6	1250.0	1238.95	99.1	1254.76	100.4	P
Iron	5000.0	5077.15	101.5	5000.0	5112.31	102.2	5142.94	102.9	P
Lead	500.0	503.33	100.7	500.0	502.18	100.4	509.52	101.9	P
Magnesium	25000.0	25377.96	101.5	25000.0	25378.65	101.5	25568.79	102.3	P
Manganese	2500.0	2541.05	101.6	2500.0	2532.39	101.3	2562.48	102.5	P
Nickel	2500.0	2563.27	102.5	2500.0	2566.75	102.7	2594.62	103.8	P
Potassium	25000.0	24759.20	99.0	25000.0	25252.03	101.0	24910.04	99.6	P
Selenium	500.0	500.03	100.0	500.0	501.58	100.3	504.85	101.0	P
Silver	1250.0	1252.02	100.2	1250.0	1254.61	100.4	1261.06	100.9	P
Sodium	25000.0	25049.52	100.2	25000.0	25351.06	101.4	25559.34	102.2	P
Thallium	500.0	476.21	95.2	500.0	477.80	95.6	483.07	96.6	P
Vanadium	2500.0	2509.14	100.4	2500.0	2511.32	100.5	2549.80	102.0	P
Zinc	2500.0	2550.83	102.0	2500.0	2547.50	101.9	2564.22	102.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 16:08		08/30/12 16:48		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10184.35	101.8	9927.61	99.3	P
Arsenic				500.0	508.34	101.7	500.10	100.0	P
Barium				10000.0	10530.66	105.3	10535.99	105.4	P
Beryllium				250.0	251.52	100.6	251.64	100.7	P
Cadmium				250.0	252.60	101.0	245.37	98.1	P
Calcium				25000.0	24649.09	98.6	24435.45	97.7	P
Chromium				1000.0	1016.84	101.7	996.02	99.6	P
Cobalt				2500.0	2651.94	106.1	2583.66	103.3	P
Copper				1250.0	1270.91	101.7	1242.72	99.4	P
Iron				5000.0	5200.05	104.0	5073.75	101.5	P
Lead				500.0	511.21	102.2	505.18	101.0	P
Magnesium				25000.0	25686.43	102.7	25659.20	102.6	P
Manganese				2500.0	2562.53	102.5	2561.18	102.4	P
Nickel				2500.0	2622.62	104.9	2562.03	102.5	P
Potassium				25000.0	26215.10	104.9	25474.98	101.9	P
Selenium				500.0	515.35	103.1	502.65	100.5	P
Silver				1250.0	1273.19	101.9	1246.50	99.7	P
Sodium				25000.0	25878.89	103.5	25401.46	101.6	P
Thallium				500.0	486.26	97.3	484.33	96.9	P
Vanadium				2500.0	2566.14	102.6	2515.80	100.6	P
Zinc				2500.0	2600.60	104.0	2530.09	101.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 17:26		08/30/12 18:07		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10264.50	102.6	10104.62	101.0	P
Arsenic				500.0	512.00	102.4	509.83	102.0	P
Barium				10000.0	10666.65	106.7	10541.16	105.4	P
Beryllium				250.0	254.75	101.9	251.94	100.8	P
Cadmium				250.0	254.83	101.9	249.01	99.6	P
Calcium				25000.0	24725.01	98.9	24823.56	99.3	P
Chromium				1000.0	1026.32	102.6	1001.38	100.1	P
Cobalt				2500.0	2675.50	107.0	2602.61	104.1	P
Copper				1250.0	1283.35	102.7	1285.15	102.8	P
Iron				5000.0	5249.08	105.0	5093.77	101.9	P
Lead				500.0	515.02	103.0	498.80	99.8	P
Magnesium				25000.0	26050.31	104.2	25691.56	102.8	P
Manganese				2500.0	2591.04	103.6	2567.24	102.7	P
Nickel				2500.0	2650.96	106.0	2574.01	103.0	P
Potassium				25000.0	26300.25	105.2	25230.44	100.9	P
Selenium				500.0	502.45	100.5	500.91	100.2	P
Silver				1250.0	1283.36	102.7	1276.09	102.1	P
Sodium				25000.0	26064.11	104.3	25498.52	102.0	P
Thallium				500.0	491.90	98.4	484.92	97.0	P
Vanadium				2500.0	2591.78	103.7	2578.66	103.1	P
Zinc				2500.0	2631.82	105.3	2556.12	102.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 18:48				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10311.14	103.1			P
Arsenic				500.0	513.38	102.7			P
Barium				10000.0	10712.42	107.1			P
Beryllium				250.0	256.40	102.6			P
Cadmium				250.0	253.79	101.5			P
Calcium				25000.0	25394.12	101.6			P
Chromium				1000.0	1020.52	102.1			P
Cobalt				2500.0	2656.65	106.3			P
Copper				1250.0	1311.43	104.9			P
Iron				5000.0	5199.68	104.0			P
Lead				500.0	510.63	102.1			P
Magnesium				25000.0	26038.22	104.2			P
Manganese				2500.0	2615.99	104.6			P
Nickel				2500.0	2622.36	104.9			P
Potassium				25000.0	26032.67	104.1			P
Selenium				500.0	515.98	103.2			P
Silver				1250.0	1298.15	103.9			P
Sodium				25000.0	26197.06	104.8			P
Thallium				500.0	494.96	99.0			P
Vanadium				2500.0	2619.41	104.8			P
Zinc				2500.0	2611.19	104.4			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	08/31/12 9:04				08/31/12 9:25		08/31/12 09:53		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Antimony	500.0	492.55	98.5	500.0	469.82	94.0	499.04	99.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Preparation Blank Matrix (soil/water): WATER Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L MB-67882

FIMS2_120830A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	08/30/12 10:27	C	08/30/12 10:46	C	08/30/12 11:04	C		C	
Mercury	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67883**FIMS2_120830A**

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/30/12 11:22	C	08/30/12 11:41	C	08/30/12 11:59	C		C	
Mercury			0.028	U	0.028	U	0.028	U	0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67889

OPTIMA3_120830B

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		M
		C	08/30/12 14:46	C	08/30/12 15:27	C	08/30/12 16:11	C	
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	P
Arsenic	4.3	U	4.3	U	-5.7	B	4.3	U	P
Barium	1.1	U	1.1	U	1.1	U	1.1	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	P
Cobalt	0.7	U	0.7	U	0.7	U	0.7	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	P
Potassium	76.0	U	76.0	U	78.8	B	76.0	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	P
Sodium	29.0	U	29.0	U	29.0	U	29.0	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67911

OPTIMA3_120830B

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	08/30/12 16:52	C	08/30/12 17:29	C	08/30/12 18:10	C		C	
Aluminum			66.0 U		66.0 U		66.0 U		66.000 U		P
Arsenic			4.3 U		4.3 U		4.3 U		4.300 U		P
Barium			1.1 U		1.1 U		1.1 U		1.100 U		P
Beryllium			0.3 U		0.3 U		0.3 U		0.260 U		P
Cadmium			0.9 U		0.9 U		0.9 U		0.890 U		P
Calcium			110.0 U		110.0 U		110.0 U		110.000 U		P
Chromium			0.6 U		0.6 U		0.6 U		0.640 U		P
Cobalt			0.7 U		0.7 U		0.7 U		0.670 U		P
Copper			3.6 U		3.6 U		3.6 U		3.600 U		P
Iron			31.0 U		31.0 U		31.0 U		31.000 U		P
Lead			4.2 U		4.2 U		4.2 U		4.200 U		P
Magnesium			76.0 U		76.0 U		76.0 U		76.000 U		P
Manganese			10.0 U		10.0 U		10.0 U		10.000 U		P
Nickel			0.8 U		0.8 U		0.8 U		0.850 U		P
Potassium			76.0 U		76.0 U		76.0 U		76.000 U		P
Selenium			12.0 U		12.0 U		12.0 U		12.000 U		P
Silver			6.9 U		6.9 U		6.9 U		6.900 U		P
Sodium			29.0 U		29.0 U		29.0 U		29.000 U		P
Thallium			6.2 U		6.2 U		6.2 U		6.200 U		P
Vanadium			1.1 U		1.1 U		1.1 U		1.100 U		P
Zinc			4.9 U		4.9 U		4.9 U		4.900 U		P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):
OPTIMA3_120830B

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	08/30/12 18:52	C		C		C		C	
Aluminum			66.0	U							P
Arsenic			4.3	U							P
Barium			1.1	U							P
Beryllium			0.3	U							P
Cadmium			0.9	U							P
Calcium			110.0	U							P
Chromium			0.6	U							P
Cobalt			0.7	U							P
Copper			3.6	U							P
Iron			31.0	U							P
Lead			4.2	U							P
Magnesium			76.0	U							P
Manganese			10.0	U							P
Nickel			0.8	U							P
Potassium			119.4	B							P
Selenium			12.0	U							P
Silver			6.9	U							P
Sodium			29.0	U							P
Thallium			6.2	U							P
Vanadium			1.1	U							P
Zinc			4.9	U							P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Preparation Blank Matrix (soil/water): WATER Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L MB-67889

OPTIMA3_120831A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/31/12 9:29	C	08/31/12 9:57	C	08/31/12 10:32	C		C	
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	9.300	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

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

MB-67911**OPTIMA3_120831A**

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/31/12 11:04	C	08/31/12 11:36	C	08/31/12 12:11	C		C	
Antimony			9.3	U	9.3	U	9.3	U	9.300	U	P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

ICP ID Number:

OPTIMA3

ICS Source:

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	533176	539184	107.8				
Arsenic	0	100	-1	112.9	112.9				
Barium	0	500	0	537.7	107.5				
Beryllium	0	500	0	512.4	102.5				
Cadmium	0	1000	0	967.6	96.8				
Calcium	500000	500000	551929	552045.3	110.4				
Chromium	0	500	3	516.8	103.4				
Cobalt	0	500	0	487.6	97.5				
Copper	0	500	3	554	110.8				
Iron	200000	200000	188732	189215.1	94.6				
Lead	0	500	4	528.9	105.8				
Magnesium	500000	500000	503177	507362.7	101.5				
Manganese	0	500	-5	507.3	101.5				
Nickel	0	1000	-2	950.7	95.1				
Potassium	0	25000	115	29337.9	117.4				
Selenium	0	500	15	531.2	106.2				
Silver	0	200	-4	221.2	110.6				
Sodium	0	25000	39	29082.7	116.3				
Thallium	0	100	10	96.9	96.9				
Vanadium	0	500	-11	511.7	102.3				
Zinc	0	1000	12	984.6	98.5				

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.		
	A	AB	A	AB	%R	A	%R	AB	%R
Antimony	0	600	-5	599.9	100.0				

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

DMW-2FS

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Level (low/med): MED

% 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
Aluminum	75-125	9400	66.0 U	9100	103		P
Antimony	75-125	455	9.3 U	456	100		P
Arsenic	75-125	481	4.3 U	456	106		P
Barium	75-125	9630	18.4 B	9100	106		P
Beryllium	75-125	232	0.26 U	227	102		P
Cadmium	75-125	233	0.89 U	227	103		P
Chromium	75-125	935	0.64 U	910	103		P
Cobalt	75-125	2340	1.0 B	2270	103		P
Copper	75-125	1150	3.6 U	1130	102		P
Iron	75-125	5770	1060	4550	103		P
Lead	75-125	470	4.2 U	455	103		P
Manganese	75-125	2440	115	2270	102		P
Nickel	75-125	2340	1.3 B	2270	103		P
Selenium	75-125	473	12.0 U	455	104		P
Silver	75-125	889	6.9 U	1130	79		P
Thallium	75-125	455	6.2 U	455	100		P
Vanadium	75-125	2330	1.1 U	2270	103		P
Zinc	75-125	2330	5.2 B	2270	103		P
Mercury	75-125	5.0	0.028 U	4.6	109		CV

Comments:

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

LMW-12FS

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Level (low/med): MED

% 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
Aluminum	75-125	9660	66.0 U	9100	106		P
Antimony	75-125	478	9.3 U	456	105		P
Arsenic	75-125	506	4.3 U	456	111		P
Barium	75-125	9910	48.2 B	9100	108		P
Beryllium	75-125	244	0.26 U	227	107		P
Cadmium	75-125	251	9.3	227	107		P
Chromium	75-125	967	0.64 U	910	106		P
Cobalt	75-125	2400	0.67 U	2270	106		P
Copper	75-125	1200	3.6 U	1130	106		P
Iron	75-125	4910	39.0 B	4550	107		P
Lead	75-125	489	4.2 U	455	108		P
Manganese	75-125	2420	10.0 U	2270	107		P
Nickel	75-125	2420	2.0 B	2270	106		P
Selenium	75-125	497	12.0 U	455	109		P
Silver	75-125	1200	6.9 U	1130	106		P
Thallium	75-125	465	6.2 U	455	102		P
Vanadium	75-125	2400	1.1 U	2270	106		P
Zinc	75-125	2440	55.9	2270	105		P
Mercury	75-125	4.8	0.028 U	4.6	105		CV

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

DUPLICATES

LMW-12FD

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Level (low/med): MED

% 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
Aluminum		66.0000	U	66.0000	U			P
Antimony		9.3000	U	9.3000	U			P
Arsenic		4.3000	U	4.3000	U			P
Barium		48.1728	B	47.2139	B	2		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium	5.0	9.2819		9.1413		1.5		P
Calcium		28949.2307		28437.5123		1.8		P
Chromium		0.6400	U	0.6400	U			P
Cobalt		0.6700	U	0.6700	U			P
Copper		3.6000	U	3.6000	U			P
Iron		39.0264	B	34.7420	B	11.6		P
Lead		4.2000	U	4.2000	U			P
Magnesium		5598.0458		5515.4587		1.5		P
Manganese		10.0000	U	10.0000	U			P
Nickel		2.0122	B	2.2562	B	11.4		P
Potassium	1000.0	2967.6356		2952.2519		0.5		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		16234.4659		15828.3702		2.5		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		1.1000	U	1.1000	U			P
Zinc	50.0	55.8680		54.9754		1.6		P
Mercury		0.0280	U	0.0280	U			CV

U.S. EPA - CLP

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EPA SAMPLE NO.

DUPLICATES

DMW-2FD

Lab Name: Spectrum Analytical, Inc.Contract: 95900-04Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SL1808Matrix (soil/water): WATERLevel (low/med): MED% Solids for Sample: 0.0% Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		66.0000	U	66.0000	U			P
Antimony		9.3000	U	9.3000	U			P
Arsenic		4.3000	U	4.3000	U			P
Barium		18.4343	B	18.6720	B	1.3		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium		0.8900	U	0.8900	U			P
Calcium		12329.6861		12529.6663		1.6		P
Chromium		0.6400	U	0.6400	U			P
Cobalt		1.0037	B	1.0358	B	3.1		P
Copper		3.6000	U	3.6000	U			P
Iron		1061.1372		1085.8547		2.3		P
Lead		4.2000	U	4.2000	U			P
Magnesium	500.0	1788.8013		1823.1111		1.9		P
Manganese	50.0	114.9140		117.3836		2.1		P
Nickel		1.2707	B	1.4043	B	10		P
Potassium	1000.0	1431.2352		1468.5491		2.6		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		23534.4464		23984.2438		1.9		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		1.1000	U	1.1000	U			P
Zinc		5.1759	B	5.1553	B	0.4		P
Mercury		0.0280	U	0.0280	U			CV

U.S. EPA - CLP
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LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	95900-04				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1808
Solid LCS Source:		LCS(D) ID:					
Aqueous LCS Source:		LCS-67882					

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Mercury	4.6	4.93	107.2						

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	95900-04				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1808
Solid LCS Source:		LCS(D) ID:					
Aqueous LCS Source:		LCS-67883					

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Mercury	4.6	4.95	107.6						

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	95900-04				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1808
Solid LCS Source:						LCS(D) ID:	
Aqueous LCS Source:						LCS-67889	

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	9100.0	9258.57	101.7						
Antimony	455.0	456.01	100.2						
Arsenic	455.0	478.56	105.2						
Barium	9100.0	9564.89	105.1						
Beryllium	227.0	236.04	104.0						
Cadmium	227.0	234.11	103.1						
Calcium	22700.0	22741.04	100.2						
Chromium	910.0	932.52	102.5						
Cobalt	2270.0	2335.83	102.9						
Copper	1130.0	1146.66	101.5						
Iron	4550.0	4691.22	103.1						
Lead	455.0	474.29	104.2						
Magnesium	22700.0	23446.78	103.3						
Manganese	2270.0	2346.75	103.4						
Nickel	2270.0	2352.16	103.6						
Potassium	22700.0	22903.58	100.9						
Selenium	455.0	467.77	102.8						
Silver	1130.0	1159.33	102.6						
Sodium	22700.0	23304.70	102.7						
Thallium	455.0	451.54	99.2						
Vanadium	2270.0	2310.05	101.8						
Zinc	2270.0	2312.97	101.9						

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name:	Spectrum Analytical, Inc.	Contract:	95900-04				
Lab Code:	MITKEM	Case No.:		SAS No.:		SDG No.:	SL1808
Solid LCS Source:						LCS(D) ID:	
Aqueous LCS Source:						LCS-67911	

	Aqueous (ug/L)			Solid (mg/Kg)					
Analyte	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	9100.0	9176.35	100.8						
Antimony	455.0	468.35	102.9						
Arsenic	455.0	479.10	105.3						
Barium	9100.0	9556.76	105.0						
Beryllium	227.0	231.90	102.2						
Cadmium	227.0	231.41	101.9						
Calcium	22700.0	22369.85	98.5						
Chromium	910.0	917.22	100.8						
Cobalt	2270.0	2305.84	101.6						
Copper	1130.0	1121.38	99.2						
Iron	4550.0	4620.23	101.5						
Lead	455.0	470.53	103.4						
Magnesium	22700.0	23338.04	102.8						
Manganese	2270.0	2314.44	102.0						
Nickel	2270.0	2314.74	102.0						
Potassium	22700.0	23192.07	102.2						
Selenium	455.0	478.90	105.3						
Silver	1130.0	940.24	83.2						
Sodium	22700.0	23083.30	101.7						
Thallium	455.0	462.95	101.7						
Vanadium	2270.0	2271.81	100.1						
Zinc	2270.0	2306.32	101.6						

U.S. EPA - CLP

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EPA SAMPLE NO.

ICP SERIAL DILUTIONS

LMW-12F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Level (low/med): MED

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	66.00	U	330.00	U			P
Antimony	9.30	U	46.50	U			P
Arsenic	4.30	U	21.50	U			P
Barium	48.17	B	49.36	B	3		P
Beryllium	0.26	U	1.30	U			P
Cadmium	9.28		9.15		1		P
Calcium	28949.23		27778.83		4		P
Chromium	0.64	U	3.20	U			P
Cobalt	0.67	U	3.35	U			P
Copper	3.60	U	18.00	U			P
Iron	39.03	B	155.00	U	100		P
Lead	4.20	U	21.00	U			P
Magnesium	5598.05		5677.01		1		P
Manganese	10.00	U	50.00	U			P
Nickel	2.01	B	4.78	B	138		P
Potassium	2967.64		2989.67		1		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	16234.47		15875.43		2		P
Thallium	6.20	U	31.00	U			P
Vanadium	1.10	U	5.50	U			P
Zinc	55.87		57.21		2		P

U.S. EPA - CLP

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EPA SAMPLE NO.

ICP SERIAL DILUTIONS

DMW-2F

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SL1808

Matrix (soil/water): WATER

Level (low/med): MED

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

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	66.00	U	330.00	U			P
Antimony	9.30	U	46.50	U			P
Arsenic	4.30	U	21.50	U			P
Barium	18.43	B	20.62	B	12		P
Beryllium	0.26	U	1.30	U			P
Cadmium	0.89	U	4.45	U			P
Calcium	12329.69		12191.68		1		P
Chromium	0.64	U	3.20	U			P
Cobalt	1.00	B	3.35	U	100		P
Copper	3.60	U	18.00	U			P
Iron	1061.14		1093.07		3		P
Lead	4.20	U	21.00	U			P
Magnesium	1788.80		1848.91		3		P
Manganese	114.91		118.64		3		P
Nickel	1.27	B	4.25	U	100		P
Potassium	1431.24		1272.06		11		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	23534.45		23417.81		1		P
Thallium	6.20	U	31.00	U			P
Vanadium	1.10	U	5.50	U			P
Zinc	5.18	B	24.50	U	100		P

U.S. EPA - CLP

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808

Instrument Type: CV InstrumentID: FIMS2 Date: 03/04/2010

Preparation Method: 7470A

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.2	0.028

Comments:

U.S. EPA - CLP

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
Instrument Type: P InstrumentID: OPTIMA3 Date: 03/03/2010
Preparation Method: 3005A
Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Aluminum	308.21	200	66.0
Antimony	206.83	20	9.3
Arsenic	188.98	20	4.3
Barium	233.53	200	1.1
Beryllium	313.11	5.0	0.26
Cadmium	226.50	5.0	0.89
Calcium	227.54	800	110
Chromium	267.72	20	0.64
Cobalt	228.62	50	0.67
Copper	324.75	30	3.6
Iron	273.96	200	31.0
Lead	220.35	10	4.2
Magnesium	279.08	500	76.0
Manganese	257.61	50	10.0
Nickel	231.60	50	0.85
Potassium	766.49	1000	76.0
Selenium	196.03	30	12.0
Silver	328.07	30	6.9
Sodium	589.59	1000	29.0
Thallium	190.80	20	6.2
Vanadium	292.40	50	1.1
Zinc	206.20	50	4.9

Comments:

U.S. EPA - CLP

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ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

ICP ID Number:

OPTIMA3

Date:

4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Co
Aluminum	308.21		0.1950780	0.0000000	0.0689271	0.0000000
Antimony	206.83	0.0581013	0.0000000	0.0549587	0.0214185	0.0000000
Arsenic	188.97	0.0098790	-0.0124040	-0.0756686	0.0157247	0.1927900
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0025914	0.0749299	0.0000000	-0.0433049
Calcium	227.54	0.0000000		7.8420900	0.5637690	253.7870000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0064696	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0241432	0.0000000	
Copper	324.75	0.0000000	0.0000000	-0.0922443	0.0000000	-0.1349370
Iron	273.95	0.0000000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.1032270	-0.0123272	0.0209682	-0.0064852	-0.0680890
Magnesium	279.07	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0301633	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0042808	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0219452	0.0000000	-0.3855700	0.0000000	-0.7432810
Silver	328.06	0.0000000	0.0000000	-0.0362359	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.0153767	-0.0040303	-0.1223880	-0.0549555	5.8333800
Titanium	334.94	0.0000000	-0.0167659	0.0000000	0.0182020	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0307673	0.0000000	0.0000000
Zinc	206.20	-0.0121647	-0.0130048	-0.0501268	-0.0144316	-0.3012520

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

ICP ID Number:

OPTIMA3

Date:

4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Ni	Tl
Aluminum	308.21	0.0000000	0.0000000	1.5401500	0.0000000	0.0000000
Antimony	206.83	18.3748000	0.3246940	0.0000000	0.0000000	0.0000000
Arsenic	188.97	-8.8838000	0.0000000	0.2489140	0.0999179	0.1051500
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	-0.2126510	0.0000000
Calcium	227.54	5.3533500	3.5228400	3.8819800	26.7628000	0.0000000
Chromium	267.71		0.0000000	0.2043740	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.1584950	0.0000000
Copper	324.75	0.0000000		0.0000000	0.0000000	0.0000000
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0447064	0.3133570	-0.0606043	-0.1219210	-0.1744540
Magnesium	279.07	2.4873800	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000		0.0474986	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000		0.2920460
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.2759200	-0.2480870	0.0000000	-0.1215600	-0.4373880
Silver	328.06	0.0000000	0.0000000	0.2125900	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0860847	-0.1533400	-0.3345200	-0.0729483	
Titanium	334.94	0.1475450	0.0000000	0.0000000	0.0000000	0.1490420
Vanadium	292.40	-2.2898300	0.3129820	0.0000000	0.0000000	0.0000000
Zinc	206.20	-1.8283200	-0.3316020	-0.4006130	-0.1453040	-0.4071760

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc.

Contract: 95900-04

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.:

SL1808

ICP ID Number:

OPTIMA3

Date:

4/10/2012

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ti	V	_____	_____	_____
Aluminum	308.21	1.6328600	-0.3229200			
Antimony	206.83	-2.3648000	-1.1022500			
Arsenic	188.97	-0.2598760	0.0000000			
Barium	233.52	0.0000000	-1.4206100			
Beryllium	313.10	-1.8417600	-0.0298256			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	227.54	7.1850200	24.4780000			
Chromium	267.71	0.0000000	-0.3095710			
Cobalt	228.61	2.3045300	0.0000000			
Copper	324.75	0.0000000	-0.1578650			
Iron	273.95	0.0000000	-1.6429000			
Lead	220.35	-0.9907230	-0.0982908			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.5886010	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	-0.6097280	0.0000000			
Silver	328.06	0.0000000	-1.9059700			
Sodium	589.59	0.0000000	0.0000000			
Thallium	190.80	-0.2863380	4.5539900			
Titanium	334.94		0.0000000			
Vanadium	292.40	1.3967000				
Zinc	206.20	-0.8719450	-0.1607790			

Comments:

U.S. EPA - CLP
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ICP LINEAR RANGES (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
ICP ID Number: OPTIMA3 Date: 5/10/2012

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	50000	P
Arsenic	0.20	50000	P
Barium	0.20	100000	P
Beryllium	0.20	5000	P
Cadmium	0.20	50000	P
Calcium	0.20	500000	P
Chromium	0.20	50000	P
Cobalt	0.20	100000	P
Copper	0.20	50000	P
Iron	0.20	500000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	50000	P
Nickel	0.20	100000	P
Potassium	0.20	500000	P
Selenium	0.20	50000	P
Silver	0.20	2500	P
Sodium	0.20	500000	P
Thallium	0.20	50000	P
Vanadium	0.20	50000	P
Zinc	0.20	50000	P

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
Preparation Method: 7470A Batch ID: 67881

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	08/29/2012		100
CCV	08/29/2012		100
ICB	08/29/2012		100
ICV	08/29/2012		100
S0	08/29/2012		100
S0.2	08/29/2012		100
S1.0	08/29/2012		100
S10.0	08/29/2012		100
S2.0	08/29/2012		100
S5.0	08/29/2012		100

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
Preparation Method: 7470A Batch ID: 67882

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	08/29/2012		100
LMW-10F	08/29/2012		100
LMW-12F	08/29/2012		100
LMW-12FD	08/29/2012		100
LMW-12FS	08/29/2012		100
LMW-14F	08/29/2012		100
LMW-18F	08/29/2012		100
LMW-19F	08/29/2012		100
LMW-20F	08/29/2012		100
LMW-21F	08/29/2012		100
LMW-55F	08/29/2012		100
LMW-5F	08/29/2012		100
LMW-6F	08/29/2012		100
PBW	08/29/2012		100

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
Preparation Method: 7470A Batch ID: 67883

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
DMW-13AF	08/29/2012		100
DMW-13BF	08/29/2012		100
DMW-15AF	08/29/2012		100
DMW-15BF	08/29/2012		100
DMW-18F	08/29/2012		100
DMW-22AF	08/29/2012		100
DMW-22BF	08/29/2012		100
DMW-23AF	08/29/2012		100
DMW-23BF	08/29/2012		100
DMW-2F	08/29/2012		100
DMW-2FD	08/29/2012		100
DMW-2FS	08/29/2012		100
DMW-3F	08/29/2012		100
DMW-52F	08/29/2012		100
DMW-9BF	08/29/2012		100
DMW-9F	08/29/2012		100
LCSW	08/29/2012		100
LMW-16F	08/29/2012		100
LMW-2F	08/29/2012		100
LMW-3F	08/29/2012		100
LMW-4F	08/29/2012		100
PBW	08/29/2012		100

Comments:

U.S. EPA - CLP
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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
Preparation Method: 3005A Batch ID: 67889

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	08/29/2012		50
LMW-12F	08/29/2012		50
LMW-12FD	08/29/2012		50
LMW-12FS	08/29/2012		50
LMW-14F	08/29/2012		50
LMW-18F	08/29/2012		50
LMW-19F	08/29/2012		50
LMW-21F	08/29/2012		50
LMW-55F	08/29/2012		50
LMW-5F	08/29/2012		50
LMW-6F	08/29/2012		50
PBW	08/29/2012		50

Comments:

U.S. EPA - CLP
13
PREPARATION LOG

Lab Name: <u>Spectrum Analytical, Inc.</u>	Contract: <u>95900-04</u>
Lab Code: <u>MITKEM</u> Case No.: _____	SAS No.: _____ SDG No.: <u>SL1808</u>
Preparation Method: <u>3005A</u>	Batch ID: <u>67911</u>

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
DMW-13AF	08/30/2012		50
DMW-13BF	08/30/2012		50
DMW-15AF	08/30/2012		50
DMW-15BF	08/30/2012		50
DMW-18F	08/30/2012		50
DMW-22AF	08/30/2012		50
DMW-22BF	08/30/2012		50
DMW-23AF	08/30/2012		50
DMW-23BF	08/30/2012		50
DMW-2F	08/30/2012		50
DMW-2FD	08/30/2012		50
DMW-2FS	08/30/2012		50
DMW-3F	08/30/2012		50
DMW-52F	08/30/2012		50
DMW-9BF	08/30/2012		50
DMW-9F	08/30/2012		50
LCSW	08/30/2012		50
LMW-10F	08/30/2012		50
LMW-16F	08/30/2012		50
LMW-20F	08/30/2012		50
LMW-2F	08/30/2012		50
LMW-3F	08/30/2012		50
LMW-4F	08/30/2012		50
PBW	08/30/2012		50

Comments:

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1808
 Instrument ID Number: FIMS2 Method: CV
 Start Date: 08/30/2012 End Date: 08/30/2012

FIMS2_120830A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.0	0957															X												
S0.2	1.0	0959															X												
S1.0	1.0	1001															X												
S2.0	1.0	1002															X												
S5.0	1.0	1004															X												
S10.0	1.0	1006															X												
ICV	1.0	1007															X												
ICB	1.0	1009															X												
ZZZZZZ	1.0	1011																											
ZZZZZZ	1.0	1012																											
ZZZZZZ	1.0	1014																											
ZZZZZZ	1.0	1016																											
ZZZZZZ	1.0	1017																											
ZZZZZZ	1.0	1019																											
ZZZZZZ	1.0	1021																											
ZZZZZZ	1.0	1022																											
ZZZZZZ	1.0	1024																											
CCV	1.0	1026															X												
CCB	1.0	1027															X												
ZZZZZZ	1.0	1029																											
ZZZZZZ	1.0	1031																											
ZZZZZZ	1.0	1032																											
ZZZZZZ	1.0	1034																											
ZZZZZZ	1.0	1036																											
ZZZZZZ	1.0	1037																											
ZZZZZZ	1.0	1039																											
ZZZZZZ	1.0	1041																											
ZZZZZZ	1.0	1042																											
CCV	1.0	1044															X												
CCB	1.0	1046															X												
ZZZZZZ	1.0	1047																											
ZZZZZZ	1.0	1049																											

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
 Instrument ID Number: FIMS2 Method: CV
 Start Date: 08/30/2012 End Date: 08/30/2012

FIMS2_120830A

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.0	1051																													
ZZZZZZ	1.0	1052																													
ZZZZZZ	1.0	1054																													
ZZZZZZ	1.0	1056																													
ZZZZZZ	1.0	1057																													
ZZZZZZ	1.0	1059																													
PBW	1.0	1101																X													
CCV	1.0	1102																X													
CCB	1.0	1104																X													
LCSW	1.0	1106																X													
ZZZZZZ	1.0	1107																													
ZZZZZZ	1.0	1109																													
ZZZZZZ	1.0	1111																													
ZZZZZZ	1.0	1112																													
ZZZZZZ	1.0	1114																													
ZZZZZZ	1.0	1116																													
ZZZZZZ	1.0	1117																													
ZZZZZZ	1.0	1119																													
CCV	1.0	1121																X													
CCB	1.0	1122																X													
LMW-5F	1.0	1124																X													
LMW-55F	1.0	1126																X													
LMW-6F	1.0	1127																X													
LMW-18F	1.0	1129																X													
LMW-19F	1.0	1131																X													
LMW-12F	1.0	1132																X													
LMW-12FD	1.0	1134																X													
LMW-12FS	1.0	1136																X													
LMW-14F	1.0	1137																X													
CCV	1.0	1139																X													
CCB	1.0	1141																X													
LMW-21F	1.0	1142																X													

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
 Instrument ID Number: FIMS2 Method: CV
 Start Date: 08/30/2012 End Date: 08/30/2012

FIMS2_120830A

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
LMW-20F	1.0	1144															X														
LMW-10F	1.0	1146															X														
PBW	1.0	1147															X														
LCSW	1.0	1149															X														
LMW-16F	1.0	1151															X														
LMW-2F	1.0	1152															X														
LMW-3F	1.0	1154															X														
LMW-4F	1.0	1156															X														
CCV	1.0	1157															X														
CCB	1.0	1159															X														
DMW-2F	1.0	1201															X														
DMW-2FD	1.0	1203															X														
DMW-2FS	1.0	1204															X														
DMW-52F	1.0	1206															X														
DMW-3F	1.0	1207															X														
DMW-9BF	1.0	1209															X														
DMW-9F	1.0	1211															X														
DMW-15BF	1.0	1212															X														
DMW-15AF	1.0	1214															X														
CCV	1.0	1216															X														
CCB	1.0	1218															X														
DMW-23BF	1.0	1219															X														
DMW-13BF	1.0	1221															X														
DMW-23AF	1.0	1223															X														
DMW-13AF	1.0	1224															X														
DMW-22BF	1.0	1226															X														
DMW-22AF	1.0	1228															X														
DMW-18F	1.0	1229															X														
CCV	1.0	1231															X														
CCB	1.0	1233															X														

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830B

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
S0	1.0	1408		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
S1	1.0	1412		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
S2	1.0	1416		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
S3	1.0	1420		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ICV	1.0	1423		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ICB	1.0	1427		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ZZZZZZ	1.0	1431																													
ICSA	1.0	1434		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ICSAB	1.0	1438		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCV	1.0	1442		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCB	1.0	1446		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
PBW	1.0	1449		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LCSW	1.0	1453		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ZZZZZZ	1.0	1457																													
ZZZZZZ	1.0	1501																													
ZZZZZZ	1.0	1504																													
ZZZZZZ	5.0	1508																													
ZZZZZZ	1.0	1512																													
ZZZZZZ	1.0	1516																													
ZZZZZZ	1.0	1519																													
CCV	1.0	1523		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCB	1.0	1527		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ZZZZZZ	1.0	1530																													
ZZZZZZ	1.0	1534																													
ZZZZZZ	1.0	1538																													
ZZZZZZ	1.0	1542																													
ZZZZZZ	1.0	1545																													
ZZZZZZ	1.0	1549																													
ZZZZZZ	1.0	1553																													
LMW-5F	1.0	1557		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-55F	1.0	1600		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-6F	1.0	1604		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830B

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
CCV	1.0	1608		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCB	1.0	1611		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-18F	1.0	1615		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-19F	1.0	1619		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-12F	1.0	1622		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-12FD	1.0	1626		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-12FS	1.0	1630		X		X	X	X	X		X	X	X	X	X	X		X		X	X		X	X	X						
LMW-12FL	5.0	1634		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ZZZZZZ	1.0	1637																													
LMW-14F	1.0	1641		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-21F	1.0	1645		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCV	1.0	1648		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCB	1.0	1652		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
PBW	1.0	1656		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LCSW	1.0	1700		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-20F	1.0	1703		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-10F	1.0	1707		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-16F	1.0	1711		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-2F	1.0	1715		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-3F	1.0	1718		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
LMW-4F	1.0	1722		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCV	1.0	1726		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCB	1.0	1729		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-2F	1.0	1733		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-2FD	1.0	1737		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-2FS	1.0	1740		X		X	X	X	X		X	X	X	X	X		X		X	X		X	X	X	X						
DMW-2FL	5.0	1744		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
ZZZZZZ	1.0	1748																													
DMW-52F	1.0	1752		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-3F	1.0	1755		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-9BF	1.0	1759		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-9F	1.0	1803		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						

U.S. EPA - CLP
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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1808
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/30/2012 End Date: 08/30/2012

OPTIMA3_120830B

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
CCV	1.0	1807		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCB	1.0	1810		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-15BF	1.0	1814		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-15AF	1.0	1818		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-23BF	1.0	1822		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-13BF	1.0	1825		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-23AF	1.0	1829		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-13AF	1.0	1833		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-22BF	1.0	1837		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-22AF	1.0	1840		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
DMW-18F	1.0	1844		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCV	1.0	1848		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						
CCB	1.0	1852		X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X						

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/31/2012 End Date: 08/31/2012

OPTIMA3_120831A

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
S0	1.0	0850			X																										
S1	1.0	0853			X																										
S2	1.0	0857			X																										
S3	1.0	0900			X																										
ICV	1.0	0904			X																										
ICB	1.0	0907			X																										
ZZZZZZ	1.0	0911																													
ZZZZZZ	1.0	0914																													
ICSA	1.0	0918			X																										
ICSAB	1.0	0921			X																										
CCV	1.0	0925			X																										
CCB	1.0	0929			X																										
PBW	1.0	0932			X																										
LCSW	1.0	0936			X																										
ZZZZZZ	1.0	0939																													
ZZZZZZ	1.0	0943																													
ZZZZZZ	1.0	0946																													
ZZZZZZ	5.0	0950																													
CCV	1.0	0953			X																										
CCB	1.0	0957			X																										
ZZZZZZ	1.0	1000																													
ZZZZZZ	1.0	1004																													
ZZZZZZ	1.0	1007																													
ZZZZZZ	1.0	1011																													
ZZZZZZ	1.0	1014																													
ZZZZZZ	1.0	1018																													
ZZZZZZ	1.0	1021																													
ZZZZZZ	1.0	1025																													
CCV	1.0	1029			X																										
CCB	1.0	1032			X																										
ZZZZZZ	1.0	1036																													
ZZZZZZ	1.0	1039																													

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Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SL1808
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/31/2012 End Date: 08/31/2012

OPTIMA3_120831A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
LMW-5F	1.0	1043			X																								
LMW-55F	1.0	1046			X																								
LMW-6F	1.0	1050			X																								
LMW-18F	1.0	1053			X																								
LMW-19F	1.0	1057			X																								
CCV	1.0	1100			X																								
CCB	1.0	1104			X																								
LMW-12F	1.0	1107			X																								
LMW-12FD	1.0	1111			X																								
LMW-12FS	1.0	1114			X																								
LMW-12FL	5.0	1118			X																								
ZZZZZZ	1.0	1122																											
LMW-14F	1.0	1125			X																								
LMW-21F	1.0	1129			X																								
CCV	1.0	1132			X																								
CCB	1.0	1136			X																								
PBW	1.0	1139			X																								
LCSW	1.0	1143			X																								
LMW-20F	1.0	1146			X																								
LMW-10F	1.0	1150			X																								
LMW-16F	1.0	1153			X																								
LMW-2F	1.0	1157			X																								
LMW-3F	1.0	1200			X																								
LMW-4F	1.0	1204			X																								
CCV	1.0	1208			X																								
CCB	1.0	1211			X																								
DMW-2F	1.0	1215			X																								
DMW-2FD	1.0	1218			X																								
DMW-2FS	1.0	1222			X																								
DMW-2FL	5.0	1225			X																								
ZZZZZZ	1.0	1229																											
DMW-52F	1.0	1232			X																								

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04
 Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1808
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 08/31/2012 End Date: 08/31/2012

OPTIMA3_120831A

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
DMW-3F	1.0	1236			X																								
DMW-9BF	1.0	1239			X																								
DMW-9F	1.0	1243			X																								
CCV	1.0	1247			X																								
CCB	1.0	1250			X																								
DMW-15BF	1.0	1254			X																								
DMW-15AF	1.0	1257			X																								
DMW-23BF	1.0	1301			X																								
DMW-13BF	1.0	1304			X																								
DMW-23AF	1.0	1308			X																								
DMW-13AF	1.0	1311			X																								
DMW-22BF	1.0	1315			X																								
DMW-22AF	1.0	1318			X																								
DMW-18F	1.0	1322			X																								
CCV	1.0	1326			X																								
CCB	1.0	1329			X																								

Instrument Raw Data

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Reprocessing Begun

Logged In Analyst: mitOptima3

Technique: ICP Continuous

Results Data Set (original): B12083002

Results Library (original): C:\pe\Administrator\Results\Results.mdb

Results Data Set (reprocessed): B12083002A

Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1

Sample ID: S0

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 2:08:57 PM

Data Type: Reprocessed on 8/31/2012 8:25:46 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1746334.4	6706.33	0.38%	100.00	%
Lu 261.542	1135011.8	5067.24	0.45%	100.0	%
Ag 328.068†	-2281.4	62.94	2.76%	[0.00]	mg/L
Al 308.215†	2261.1	45.89	2.03%	[0.00]	mg/L
As 188.979†	-1.4	0.27	19.07%	[0.00]	mg/L
Ba 233.527†	-63.4	4.46	7.03%	[0.00]	mg/L
Be 313.107†	-1195.9	28.99	2.42%	[0.00]	mg/L
Co 228.616†	-12.1	2.06	17.07%	[0.00]	mg/L
Cr 267.716†	47.1	29.44	62.57%	[0.00]	mg/L
Cu 324.752†	3588.1	69.97	1.95%	[0.00]	mg/L
Fe 273.955†	-126.2	4.67	3.70%	[0.00]	mg/L
Mg 279.077†	-906.2	23.72	2.62%	[0.00]	mg/L
Mn 257.610†	-222.6	46.47	20.88%	[0.00]	mg/L
Ni 231.604†	-37.9	9.41	24.82%	[0.00]	mg/L
Pb 220.353†	20.4	7.30	35.75%	[0.00]	mg/L
Sb 206.836†	32.6	0.85	2.61%	[0.00]	mg/L
Se 196.026†	-3.8	3.98	105.10%	[0.00]	mg/L
Tl 190.801†	-8.6	1.03	11.95%	[0.00]	mg/L
V 292.402†	-31.1	40.80	131.21%	[0.00]	mg/L
Zn 206.200†	26.6	2.68	10.08%	[0.00]	mg/L
Cd 226.502†	-49.2	2.56	5.19%	[0.00]	mg/L
Ti 334.940†	-73.8	19.89	26.94%	[0.00]	mg/L
Ca 227.546†	167.8	10.28	6.12%	[0.00]	mg/L
Na 589.592†	-493.2	63.58	12.89%	[0.00]	mg/L
K 766.490†	711.4	53.04	7.46%	[0.00]	mg/L

Sequence No.: 2

Sample ID: S1

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 8/30/2012 2:12:36 PM

Data Type: Reprocessed on 8/31/2012 8:25:48 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1686861.8	22221.18	1.32%	96.594	%
Lu 261.542	1103264.0	14688.69	1.33%	97.20	%
Ag 328.068†	394954.2	6119.69	1.55%	[2.5]	mg/L
Al 308.215†	372993.4	5106.63	1.37%	[20]	mg/L
As 188.979†	758.0	15.29	2.02%	[1]	mg/L
Ba 233.527†	1547373.5	20038.82	1.30%	[20]	mg/L
Be 313.107†	1163431.4	15529.36	1.33%	[0.5]	mg/L
Co 228.616†	164623.7	5037.36	3.06%	[5]	mg/L
Cr 267.716†	128545.1	4056.35	3.16%	[2]	mg/L
Cu 324.752†	498236.1	7669.29	1.54%	[2.5]	mg/L
Fe 273.955†	222044.2	6662.07	3.00%	[10]	mg/L

Mg 279.077†	798959.3	9703.49	1.21%	[50]	mg/L
Mn 257.610†	2694245.3	31769.05	1.18%	[5]	mg/L
Ni 231.604†	135638.0	4146.31	3.06%	[5]	mg/L
Pb 220.353†	4690.7	86.87	1.85%	[1]	mg/L
Sb 206.836†	1016.4	27.96	2.75%	[1]	mg/L
Se 196.026†	446.2	8.71	1.95%	[1]	mg/L
Tl 190.801†	602.0	13.51	2.24%	[1]	mg/L
V 292.402†	558878.5	7542.38	1.35%	[5]	mg/L
Zn 206.200†	97904.2	3147.97	3.22%	[5]	mg/L
Cd 226.502†	25462.4	733.86	2.88%	[0.5]	mg/L
Ti 334.940†	481234.3	8175.61	1.70%	[1]	mg/L
Ca 227.546†	8952.2	166.94	1.86%	[50]	mg/L
Na 589.592†	224877.9	2128.26	0.95%	[50]	mg/L
K 766.490†	49279.7	530.25	1.08%	[50]	mg/L

Sequence No.: 3

Sample ID: S2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 8/30/2012 2:16:22 PM

Data Type: Reprocessed on 8/31/2012 8:25:49 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1712414.7	10125.95	0.59%	98.058	%
Lu 261.542	1120034.4	5689.25	0.51%	98.68	%
Ag 328.068†	194440.4	754.71	0.39%	[1.25]	mg/L
Al 308.215†	183098.5	583.96	0.32%	[10]	mg/L
As 188.979†	378.4	6.20	1.64%	[0.5]	mg/L
Ba 233.527†	794462.4	2390.25	0.30%	[10]	mg/L
Be 313.107†	585278.4	1345.90	0.23%	[0.25]	mg/L
Co 228.616†	82865.1	361.95	0.44%	[2.5]	mg/L
Cr 267.716†	64053.1	257.74	0.40%	[1]	mg/L
Cu 324.752†	241286.3	480.55	0.20%	[1.25]	mg/L
Fe 273.955†	111485.8	533.49	0.48%	[5]	mg/L
Mg 279.077†	404750.2	1526.19	0.38%	[25]	mg/L
Mn 257.610†	1374791.7	3892.00	0.28%	[2.5]	mg/L
Ni 231.604†	68360.6	412.42	0.60%	[2.5]	mg/L
Pb 220.353†	2373.5	15.15	0.64%	[0.5]	mg/L
Sb 206.836†	507.7	2.70	0.53%	[0.5]	mg/L
Se 196.026†	226.5	2.61	1.15%	[0.5]	mg/L
Tl 190.801†	303.2	4.69	1.55%	[0.5]	mg/L
V 292.402†	275137.4	1034.88	0.38%	[2.5]	mg/L
Zn 206.200†	49343.5	322.26	0.65%	[2.5]	mg/L
Cd 226.502†	12788.8	82.18	0.64%	[0.25]	mg/L
Ti 334.940†	233578.4	892.55	0.38%	[0.5]	mg/L
Ca 227.546†	4436.4	39.75	0.90%	[25]	mg/L
Na 589.592†	112425.6	107.81	0.10%	[25]	mg/L
K 766.490†	24615.7	79.67	0.32%	[25]	mg/L

Sequence No.: 4

Sample ID: S3

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 8/30/2012 2:20:05 PM

Data Type: Reprocessed on 8/31/2012 8:25:49 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1734739.4	16224.56	0.94%	99.336	%
Lu 261.542	1127675.1	10140.63	0.90%	99.35	%
Ag 328.068†	4061.9	97.26	2.39%	[0.025]	mg/L
Al 308.215†	3631.8	19.55	0.54%	[0.2]	mg/L
As 188.979†	4.8	1.53	31.73%	[0.01]	mg/L
Ba 233.527†	16657.1	142.37	0.85%	[0.2]	mg/L

Be 313.107†	11692.9	97.01	0.83%	[0.005]	mg/L
Co 228.616†	1702.5	14.28	0.84%	[0.05]	mg/L
Cr 267.716†	1326.9	44.78	3.38%	[0.02]	mg/L
Cu 324.752†	4796.1	119.66	2.49%	[0.025]	mg/L
Fe 273.955†	2334.2	68.35	2.93%	[0.1]	mg/L
Mg 279.077†	8363.9	98.36	1.18%	[0.5]	mg/L
Mn 257.610†	28742.1	288.77	1.00%	[0.05]	mg/L
Ni 231.604†	1418.4	11.15	0.79%	[0.05]	mg/L
Pb 220.353†	53.3	7.25	13.61%	[0.01]	mg/L
Sb 206.836†	16.2	3.77	23.21%	[0.01]	mg/L
Se 196.026†	4.3	2.37	55.09%	[0.01]	mg/L
Tl 190.801†	7.6	0.62	8.14%	[0.01]	mg/L
V 292.402†	5644.3	63.22	1.12%	[0.05]	mg/L
Zn 206.200†	1035.7	5.69	0.55%	[0.05]	mg/L
Cd 226.502†	254.7	1.40	0.55%	[0.005]	mg/L
Ti 334.940†	4902.7	18.17	0.37%	[0.01]	mg/L
Ca 227.546†	74.7	14.82	19.85%	[0.5]	mg/L
Na 589.592†	2322.1	127.72	5.50%	[0.5]	mg/L
K 766.490†	489.4	78.07	15.95%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	157500	0.00000	0.999981	
Al 308.215	3	Lin Thru 0	0.0	18580	0.00000	0.999973	
As 188.979	3	Lin Thru 0	0.0	757.8	0.00000	0.999995	
Ba 233.527	3	Lin Thru 0	0.0	77780	0.00000	0.999943	
Be 313.107	3	Lin Thru 0	0.0	2330000	0.00000	0.999997	
Co 228.616	3	Lin Thru 0	0.0	32970	0.00000	0.999996	
Cr 267.716	3	Lin Thru 0	0.0	64230	0.00000	0.999999	
Cu 324.752	3	Lin Thru 0	0.0	198000	0.00000	0.999920	
Fe 273.955	3	Lin Thru 0	0.0	22220	0.00000	0.999999	
Mg 279.077	3	Lin Thru 0	0.0	16020	0.00000	0.999986	
Mn 257.610	3	Lin Thru 0	0.0	541100	0.00000	0.999966	
Ni 231.604	3	Lin Thru 0	0.0	27170	0.00000	0.999995	
Pb 220.353	3	Lin Thru 0	0.0	4702	0.00000	0.999988	
Sb 206.836	3	Lin Thru 0	0.0	1016	0.00000	0.999986	
Se 196.026	3	Lin Thru 0	0.0	447.6	0.00000	0.999981	
Tl 190.801	3	Lin Thru 0	0.0	602.9	0.00000	0.999993	
V 292.402	3	Lin Thru 0	0.0	111400	0.00000	0.999981	
Zn 206.200	3	Lin Thru 0	0.0	19610	0.00000	0.999995	
Cd 226.502	3	Lin Thru 0	0.0	50970	0.00000	0.999998	
Ti 334.940	3	Lin Thru 0	0.0	478400	0.00000	0.999931	
Ca 227.546	3	Lin Thru 0	0.0	178.7	0.00000	0.999993	
Na 589.592	3	Lin Thru 0	0.0	4497	0.00000	1.000000	
K 766.490	3	Lin Thru 0	0.0	985.4	0.00000	1.000000	

=====

Sequence No.: 5

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 2:23:48 PM

Data Type: Reprocessed on 8/31/2012 8:25:50 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1689454.6	96.743	%	1.1618			1.20%
Lu 261.542	1103890.8	97.26	%	1.358			1.40%
Ag 328.068†	196560.9	1.2520	mg/L	0.03024	1.2520 mg/L	0.03024	2.42%
QC value within limits for Ag 328.068 Recovery = 100.16%							
Al 308.215†	184719.7	9.9304	mg/L	0.22370	9.9304 mg/L	0.22370	2.25%
QC value within limits for Al 308.215 Recovery = 99.30%							
As 188.979†	369.7	0.49677	mg/L	0.007339	0.49677 mg/L	0.007339	1.48%
QC value within limits for As 188.979 Recovery = 99.35%							
Ba 233.527†	807538.6	10.385	mg/L	0.0366	10.385 mg/L	0.0366	0.35%
QC value within limits for Ba 233.527 Recovery = 103.85%							
Be 313.107†	576776.9	0.24858	mg/L	0.000581	0.24858 mg/L	0.000581	0.23%

Co	QC value within limits for Be 313.107	Recovery = 99.43%				
	228.616†	85467.7	2.5907 mg/L	0.06185	2.5907 mg/L	0.06185 2.39%
Cr	QC value within limits for Co 228.616	Recovery = 103.63%				
	267.716†	63705.7	0.99211 mg/L	0.023604	0.99211 mg/L	0.023604 2.38%
Cu	QC value within limits for Cr 267.716	Recovery = 99.21%				
	324.752†	243803.8	1.2323 mg/L	0.03065	1.2323 mg/L	0.03065 2.49%
Fe	QC value within limits for Cu 324.752	Recovery = 98.58%				
	273.955†	112738.2	5.0771 mg/L	0.12340	5.0771 mg/L	0.12340 2.43%
Mg	QC value within limits for Fe 273.955	Recovery = 101.54%				
	279.077†	406630.2	25.378 mg/L	0.0218	25.378 mg/L	0.0218 0.09%
Mn	QC value within limits for Mg 279.077	Recovery = 101.51%				
	257.610†	1375075.8	2.5410 mg/L	0.00536	2.5410 mg/L	0.00536 0.21%
Ni	QC value within limits for Mn 257.610	Recovery = 101.64%				
	231.604†	69661.6	2.5633 mg/L	0.06313	2.5633 mg/L	0.06313 2.46%
Pb	QC value within limits for Ni 231.604	Recovery = 102.53%				
	220.353†	2357.0	0.50333 mg/L	0.006393	0.50333 mg/L	0.006393 1.27%
Sb	QC value within limits for Pb 220.353	Recovery = 100.67%				
	206.836†	587.3	0.56158 mg/L	0.011668	0.56158 mg/L	0.011668 2.08%
Se	QC value greater than the upper limit for Sb 206.836	Recovery = 112.32%				
	196.026†	221.2	0.50003 mg/L	0.007559	0.50003 mg/L	0.007559 1.51%
Tl	QC value within limits for Se 196.026	Recovery = 100.01%				
	190.801†	301.6	0.47621 mg/L	0.009537	0.47621 mg/L	0.009537 2.00%
V	QC value within limits for Tl 190.801	Recovery = 95.24%				
	292.402†	279449.0	2.5091 mg/L	0.05934	2.5091 mg/L	0.05934 2.36%
Zn	QC value within limits for V 292.402	Recovery = 100.37%				
	206.200†	49915.8	2.5508 mg/L	0.05994	2.5508 mg/L	0.05994 2.35%
Cd	QC value within limits for Zn 206.200	Recovery = 102.03%				
	226.502†	12587.7	0.24717 mg/L	0.005301	0.24717 mg/L	0.005301 2.14%
Ti	QC value within limits for Cd 226.502	Recovery = 98.87%				
	334.940†	241773.2	0.50510 mg/L	0.003465	0.50510 mg/L	0.003465 0.69%
Ca	QC value within limits for Ti 334.940	Recovery = Not calculated				
	227.546†	4496.4	24.293 mg/L	0.3045	24.293 mg/L	0.3045 1.25%
Na	QC value within limits for Ca 227.546	Recovery = 97.17%				
	589.592†	112659.3	25.050 mg/L	0.6589	25.050 mg/L	0.6589 2.63%
K	QC value within limits for Na 589.592	Recovery = 100.20%				
	766.490†	24397.7	24.759 mg/L	0.7714	24.759 mg/L	0.7714 3.12%
	QC value within limits for K 766.490	Recovery = 99.04%				
	QC Failed. Continue with analysis.					

Sequence No.: 6

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 2:27:32 PM

Data Type: Reprocessed on 8/31/2012 8:25:51 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1771042.3	101.41 %	1.089			1.07%
Lu 261.542	1150402.4	101.4 %	1.21			1.19%
Ag 328.068†	33.8	0.00021 mg/L	0.000329	0.00021 mg/L	0.000329	153.46%
	QC value within limits for Ag 328.068 Recovery = Not calculated					
Al 308.215†	-106.9	-0.00574 mg/L	0.002926	-0.00574 mg/L	0.002926	50.96%
	QC value within limits for Al 308.215 Recovery = Not calculated					
As 188.979†	0.7	0.00097 mg/L	0.006828	0.00097 mg/L	0.006828	705.93%
	QC value within limits for As 188.979 Recovery = Not calculated					
Ba 233.527†	34.7	0.00045 mg/L	0.000127	0.00045 mg/L	0.000127	28.52%
	QC value within limits for Ba 233.527 Recovery = Not calculated					
Be 313.107†	82.6	0.00004 mg/L	0.000026	0.00004 mg/L	0.000026	72.12%
	QC value within limits for Be 313.107 Recovery = Not calculated					
Co 228.616†	2.2	0.00007 mg/L	0.000073	0.00007 mg/L	0.000073	111.31%
	QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	10.0	0.00016 mg/L	0.000054	0.00016 mg/L	0.000054	34.34%
	QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-97.9	-0.00049 mg/L	0.000536	-0.00049 mg/L	0.000536	108.50%
	QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 273.955†	-5.7	-0.00026 mg/L	0.000403	-0.00026 mg/L	0.000403	157.51%
	QC value within limits for Fe 273.955 Recovery = Not calculated					

Mg 279.077†	19.0	0.00119 mg/L	0.004970	0.00119 mg/L	0.004970	418.57%
QC value within limits for Mg 279.077	Recovery = Not calculated					
Mn 257.610†	37.3	0.00007 mg/L	0.000046	0.00007 mg/L	0.000046	66.85%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Ni 231.604†	11.5	0.00042 mg/L	0.000283	0.00042 mg/L	0.000283	66.51%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	4.5	0.00096 mg/L	0.001791	0.00096 mg/L	0.001791	186.01%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	0.8	0.00078 mg/L	0.003407	0.00078 mg/L	0.003407	436.68%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	0.8	0.00173 mg/L	0.008681	0.00173 mg/L	0.008681	501.29%
QC value within limits for Se 196.026	Recovery = Not calculated					
Tl 190.801†	-3.4	-0.00562 mg/L	0.002292	-0.00562 mg/L	0.002292	40.77%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	-13.6	-0.00012 mg/L	0.000343	-0.00012 mg/L	0.000343	281.38%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 206.200†	9.1	0.00046 mg/L	0.000300	0.00046 mg/L	0.000300	64.97%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Cd 226.502†	1.9	0.00004 mg/L	0.000034	0.00004 mg/L	0.000034	90.05%
QC value within limits for Cd 226.502	Recovery = Not calculated					
Ti 334.940†	50.6	0.00011 mg/L	0.000110	0.00011 mg/L	0.000110	103.81%
QC value within limits for Ti 334.940	Recovery = Not calculated					
Ca 227.546†	-10.0	-0.05623 mg/L	0.050543	-0.05623 mg/L	0.050543	89.88%
QC value within limits for Ca 227.546	Recovery = Not calculated					
Na 589.592†	8.5	0.00189 mg/L	0.009111	0.00189 mg/L	0.009111	482.12%
QC value within limits for Na 589.592	Recovery = Not calculated					
K 766.490†	-21.9	-0.02226 mg/L	0.142749	-0.02226 mg/L	0.142749	641.37%
QC value within limits for K 766.490	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: LLICV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 8/30/2012 2:31:13 PM

Data Type: Reprocessed on 8/31/2012 8:25:52 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1795479.2	102.81 %	1.539			1.50%
Lu 261.542	1168933.2	103.0 %	1.60			1.55%
Ag 328.068†	4631.3	0.02948 mg/L	0.000660	0.02948 mg/L	0.000660	2.24%
QC value within limits for Ag 328.068	Recovery = 98.27%					
Al 308.215†	3370.7	0.18114 mg/L	0.006064	0.18114 mg/L	0.006064	3.35%
QC value within limits for Al 308.215	Recovery = 90.57%					
As 188.979†	15.2	0.02020 mg/L	0.006222	0.02020 mg/L	0.006222	30.80%
QC value within limits for As 188.979	Recovery = 101.00%					
Ba 233.527†	15915.7	0.20468 mg/L	0.003385	0.20468 mg/L	0.003385	1.65%
QC value within limits for Ba 233.527	Recovery = 102.34%					
Be 313.107†	11123.9	0.00481 mg/L	0.000034	0.00481 mg/L	0.000034	0.70%
QC value within limits for Be 313.107	Recovery = 96.21%					
Co 228.616†	1661.3	0.05034 mg/L	0.000660	0.05034 mg/L	0.000660	1.31%
QC value within limits for Co 228.616	Recovery = 100.67%					
Cr 267.716†	1248.7	0.01945 mg/L	0.000513	0.01945 mg/L	0.000513	2.64%
QC value within limits for Cr 267.716	Recovery = 97.23%					
Cu 324.752†	5434.7	0.02747 mg/L	0.000730	0.02747 mg/L	0.000730	2.66%
QC value within limits for Cu 324.752	Recovery = 91.58%					
Fe 273.955†	4305.5	0.19382 mg/L	0.005001	0.19382 mg/L	0.005001	2.58%
QC value within limits for Fe 273.955	Recovery = 96.91%					
Mg 279.077†	8068.1	0.50353 mg/L	0.011101	0.50353 mg/L	0.011101	2.20%
QC value within limits for Mg 279.077	Recovery = 100.71%					
Mn 257.610†	27231.1	0.05032 mg/L	0.000877	0.05032 mg/L	0.000877	1.74%
QC value within limits for Mn 257.610	Recovery = 100.64%					
Ni 231.604†	1396.2	0.05137 mg/L	0.000477	0.05137 mg/L	0.000477	0.93%
QC value within limits for Ni 231.604	Recovery = 102.74%					
Pb 220.353†	46.4	0.00991 mg/L	0.000663	0.00991 mg/L	0.000663	6.70%
QC value within limits for Pb 220.353	Recovery = 99.07%					
Sb 206.836†	18.9	0.01829 mg/L	0.003321	0.01829 mg/L	0.003321	18.15%

QC value within limits for Sb 206.836 Recovery = 91.47%
 Se 196.026† 14.8 0.03329 mg/L 0.013180 0.03329 mg/L 0.013180 39.60%
 QC value within limits for Se 196.026 Recovery = 110.96%
 Tl 190.801† 10.0 0.01617 mg/L 0.001243 0.01617 mg/L 0.001243 7.69%
 QC value within limits for Tl 190.801 Recovery = 80.87%
 V 292.402† 5367.9 0.04819 mg/L 0.001027 0.04819 mg/L 0.001027 2.13%
 QC value within limits for V 292.402 Recovery = 96.38%
 Zn 206.200† 985.9 0.05040 mg/L 0.000966 0.05040 mg/L 0.000966 1.92%
 QC value within limits for Zn 206.200 Recovery = 100.80%
 Cd 226.502† 248.9 0.00488 mg/L 0.000129 0.00488 mg/L 0.000129 2.64%
 QC value within limits for Cd 226.502 Recovery = 97.61%
 Ti 334.940† 8897.5 0.01859 mg/L 0.000176 0.01859 mg/L 0.000176 0.94%
 QC value within limits for Ti 334.940 Recovery = 92.97%
 Ca 227.546† 118.2 0.64346 mg/L 0.044470 0.64346 mg/L 0.044470 6.91%
 QC value within limits for Ca 227.546 Recovery = 80.43%
 Na 589.592† 4370.2 0.97171 mg/L 0.020093 0.97171 mg/L 0.020093 2.07%
 QC value within limits for Na 589.592 Recovery = 97.17%
 K 766.490† 939.4 0.95336 mg/L 0.034392 0.95336 mg/L 0.034392 3.61%
 QC value within limits for K 766.490 Recovery = 95.34%
 All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICSA

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 8/30/2012 2:34:52 PM

Data Type: Reprocessed on 8/31/2012 8:25:52 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1538250.8	88.085 %	1.4224			1.61%
Lu 261.542	1001131.6	88.20 %	1.479			1.68%
Ag 328.068†	177.6	-0.00394 mg/L	0.001142	-0.00394 mg/L	0.001142	29.02%
QC value within limits for Ag 328.068						Not calculated
Al 308.215†	9909953.8	533.18 mg/L	6.626	533.18 mg/L	6.626	1.24%
QC value within limits for Al 308.215						106.64%
As 188.979†	-28.7	-0.00146 mg/L	0.006549	-0.00146 mg/L	0.006549	450.04%
QC value within limits for As 188.979						Not calculated
Ba 233.527†	5.8	0.00005 mg/L	0.000016	0.00005 mg/L	0.000016	32.01%
QC value within limits for Ba 233.527						Not calculated
Be 313.107†	-200.7	-0.00011 mg/L	0.000032	-0.00011 mg/L	0.000032	28.87%
QC value within limits for Be 313.107						Not calculated
Co 228.616†	130.3	-0.00058 mg/L	0.000241	-0.00058 mg/L	0.000241	41.88%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	190.5	0.00296 mg/L	0.000051	0.00296 mg/L	0.000051	1.72%
QC value within limits for Cr 267.716						Not calculated
Cu 324.752†	-2755.9	0.00349 mg/L	0.000614	0.00349 mg/L	0.000614	17.59%
QC value within limits for Cu 324.752						Not calculated
Fe 273.955†	4194198.0	188.73 mg/L	1.284	188.73 mg/L	1.284	0.68%
QC value within limits for Fe 273.955						94.37%
Mg 279.077†	8061595.9	503.18 mg/L	5.929	503.18 mg/L	5.929	1.18%
QC value within limits for Mg 279.077						100.64%
Mn 257.610†	-61.2	-0.00514 mg/L	0.000179	-0.00514 mg/L	0.000179	3.48%
QC value within limits for Mn 257.610						Not calculated
Ni 231.604†	-1.5	-0.00219 mg/L	0.000425	-0.00219 mg/L	0.000425	19.38%
QC value within limits for Ni 231.604						Not calculated
Pb 220.353†	-219.4	0.00441 mg/L	0.001313	0.00441 mg/L	0.001313	29.76%
QC value within limits for Pb 220.353						Not calculated
Sb 206.836†	50.2	-0.00834 mg/L	0.002158	-0.00834 mg/L	0.002158	25.87%
QC value within limits for Sb 206.836						Not calculated
Se 196.026†	-36.0	0.01484 mg/L	0.027443	0.01484 mg/L	0.027443	184.91%
QC value within limits for Se 196.026						Not calculated
Tl 190.801†	-15.6	0.00984 mg/L	0.006383	0.00984 mg/L	0.006383	64.87%
QC value within limits for Tl 190.801						Not calculated
V 292.402†	-1871.0	-0.01095 mg/L	0.000460	-0.01095 mg/L	0.000460	4.20%
QC value within limits for V 292.402						Not calculated
Zn 206.200†	57.1	0.01235 mg/L	0.000189	0.01235 mg/L	0.000189	1.53%
QC value within limits for Zn 206.200						Not calculated

Cd 226.502† 754.1 -0.00078 mg/L 0.000154 -0.00078 mg/L 0.000154 19.65%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Ti 334.940† -6325.4 -0.01309 mg/L 0.000114 -0.01309 mg/L 0.000114 0.87%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 98958.7 551.93 mg/L 4.385 551.93 mg/L 4.385 0.79%
 QC value within limits for Ca 227.546 Recovery = 110.39%
 Na 589.592† 174.6 0.03883 mg/L 0.017348 0.03883 mg/L 0.017348 44.68%
 QC value within limits for Na 589.592 Recovery = Not calculated
 K 766.490† 113.1 0.11478 mg/L 0.062567 0.11478 mg/L 0.062567 54.51%
 QC value within limits for K 766.490 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 9

Sample ID: ICSAB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 8/30/2012 2:38:47 PM

Data Type: Reprocessed on 8/31/2012 8:25:53 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1522233.0	87.167 %		0.1906			0.22%
Lu 261.542	991265.2	87.34 %		0.208			0.24%
Ag 328.068†	35497.7	0.22117 mg/L		0.000489	0.22117 mg/L	0.000489	0.22%
QC value within limits for Ag 328.068			Recovery = 110.58%				
Al 308.215†	10021610.0	539.18 mg/L		2.378	539.18 mg/L	2.378	0.44%
QC value within limits for Al 308.215			Recovery = 107.84%				
As 188.979†	54.7	0.11290 mg/L		0.005507	0.11290 mg/L	0.005507	4.88%
QC value within limits for As 188.979			Recovery = 112.90%				
Ba 233.527†	41767.4	0.53768 mg/L		0.001767	0.53768 mg/L	0.001767	0.33%
QC value within limits for Ba 233.527			Recovery = 107.54%				
Be 313.107†	1193785.6	0.51241 mg/L		0.001086	0.51241 mg/L	0.001086	0.21%
QC value within limits for Be 313.107			Recovery = 102.48%				
Co 228.616†	16231.3	0.48763 mg/L		0.001650	0.48763 mg/L	0.001650	0.34%
QC value within limits for Co 228.616			Recovery = 97.53%				
Cr 267.716†	33190.8	0.51681 mg/L		0.000906	0.51681 mg/L	0.000906	0.18%
QC value within limits for Cr 267.716			Recovery = 103.36%				
Cu 324.752†	106235.0	0.55403 mg/L		0.001066	0.55403 mg/L	0.001066	0.19%
QC value within limits for Cu 324.752			Recovery = 110.81%				
Fe 273.955†	4204920.6	189.22 mg/L		0.482	189.22 mg/L	0.482	0.25%
QC value within limits for Fe 273.955			Recovery = 94.61%				
Mg 279.077†	8128684.4	507.36 mg/L		2.720	507.36 mg/L	2.720	0.54%
QC value within limits for Mg 279.077			Recovery = 101.47%				
Mn 257.610†	277242.3	0.50728 mg/L		0.001274	0.50728 mg/L	0.001274	0.25%
QC value within limits for Mn 257.610			Recovery = 101.46%				
Ni 231.604†	25890.5	0.95069 mg/L		0.003840	0.95069 mg/L	0.003840	0.40%
QC value within limits for Ni 231.604			Recovery = 95.07%				
Pb 220.353†	2243.2	0.52886 mg/L		0.002370	0.52886 mg/L	0.002370	0.45%
QC value within limits for Pb 220.353			Recovery = 105.77%				
Sb 206.836†	756.4	0.67696 mg/L		0.004270	0.67696 mg/L	0.004270	0.63%
QC value within limits for Sb 206.836			Recovery = 112.83%				
Se 196.026†	194.6	0.53121 mg/L		0.016551	0.53121 mg/L	0.016551	3.12%
QC value within limits for Se 196.026			Recovery = 106.24%				
Tl 190.801†	39.8	0.09689 mg/L		0.007174	0.09689 mg/L	0.007174	7.40%
QC value within limits for Tl 190.801			Recovery = 96.89%				
V 292.402†	56257.4	0.51172 mg/L		0.000855	0.51172 mg/L	0.000855	0.17%
QC value within limits for V 292.402			Recovery = 102.34%				
Zn 206.200†	19091.4	0.98464 mg/L		0.004082	0.98464 mg/L	0.004082	0.41%
QC value within limits for Zn 206.200			Recovery = 98.46%				
Cd 226.502†	50102.3	0.96757 mg/L		0.002715	0.96757 mg/L	0.002715	0.28%
QC value within limits for Cd 226.502			Recovery = 96.76%				
Ti 334.940†	-6319.6	-0.01324 mg/L		0.000117	-0.01324 mg/L	0.000117	0.89%
QC value within limits for Ti 334.940			Recovery = Not calculated				
Ca 227.546†	99010.7	552.05 mg/L		0.437	552.05 mg/L	0.437	0.08%
QC value within limits for Ca 227.546			Recovery = 110.41%				
Na 589.592†	130798.3	29.083 mg/L		0.1130	29.083 mg/L	0.1130	0.39%
QC value within limits for Na 589.592			Recovery = 116.33%				
K 766.490†	28909.6	29.338 mg/L		0.2004	29.338 mg/L	0.2004	0.68%

QC value within limits for K 766.490 Recovery = 117.35%
All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 2:42:33 PM

Data Type: Reprocessed on 8/31/2012 8:25:54 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1720590.6	98.526 %	1.3702			1.39%
Lu 261.542	1124017.8	99.03 %	1.455			1.47%
Ag 328.068†	196968.1	1.2546 mg/L	0.01086	1.2546 mg/L	0.01086	0.87%
QC value within limits for Ag 328.068 Recovery = 100.37%						
Al 308.215†	185396.3	9.9668 mg/L	0.10570	9.9668 mg/L	0.10570	1.06%
QC value within limits for Al 308.215 Recovery = 99.67%						
As 188.979†	373.5	0.50172 mg/L	0.010523	0.50172 mg/L	0.010523	2.10%
QC value within limits for As 188.979 Recovery = 100.34%						
Ba 233.527†	803856.6	10.338 mg/L	0.0549	10.338 mg/L	0.0549	0.53%
QC value within limits for Ba 233.527 Recovery = 103.38%						
Be 313.107†	575373.2	0.24797 mg/L	0.001036	0.24797 mg/L	0.001036	0.42%
QC value within limits for Be 313.107 Recovery = 99.19%						
Co 228.616†	85512.1	2.5920 mg/L	0.03008	2.5920 mg/L	0.03008	1.16%
QC value within limits for Co 228.616 Recovery = 103.68%						
Cr 267.716†	63856.6	0.99446 mg/L	0.009388	0.99446 mg/L	0.009388	0.94%
QC value within limits for Cr 267.716 Recovery = 99.45%						
Cu 324.752†	245120.8	1.2389 mg/L	0.01143	1.2389 mg/L	0.01143	0.92%
QC value within limits for Cu 324.752 Recovery = 99.12%						
Fe 273.955†	113519.6	5.1123 mg/L	0.04785	5.1123 mg/L	0.04785	0.94%
QC value within limits for Fe 273.955 Recovery = 102.25%						
Mg 279.077†	406641.3	25.379 mg/L	0.0926	25.379 mg/L	0.0926	0.36%
QC value within limits for Mg 279.077 Recovery = 101.51%						
Mn 257.610†	1370393.4	2.5324 mg/L	0.01178	2.5324 mg/L	0.01178	0.47%
QC value within limits for Mn 257.610 Recovery = 101.30%						
Ni 231.604†	69756.2	2.5667 mg/L	0.02686	2.5667 mg/L	0.02686	1.05%
QC value within limits for Ni 231.604 Recovery = 102.67%						
Pb 220.353†	2351.6	0.50218 mg/L	0.006586	0.50218 mg/L	0.006586	1.31%
QC value within limits for Pb 220.353 Recovery = 100.44%						
Sb 206.836†	578.5	0.55285 mg/L	0.008500	0.55285 mg/L	0.008500	1.54%
QC value greater than the upper limit for Sb 206.836 Recovery = 110.57%						
Se 196.026†	221.9	0.50158 mg/L	0.002522	0.50158 mg/L	0.002522	0.50%
QC value within limits for Se 196.026 Recovery = 100.32%						
Tl 190.801†	302.5	0.47780 mg/L	0.002867	0.47780 mg/L	0.002867	0.60%
QC value within limits for Tl 190.801 Recovery = 95.56%						
V 292.402†	279690.4	2.5113 mg/L	0.02362	2.5113 mg/L	0.02362	0.94%
QC value within limits for V 292.402 Recovery = 100.45%						
Zn 206.200†	49850.4	2.5475 mg/L	0.02510	2.5475 mg/L	0.02510	0.99%
QC value within limits for Zn 206.200 Recovery = 101.90%						
Cd 226.502†	12602.7	0.24746 mg/L	0.002722	0.24746 mg/L	0.002722	1.10%
QC value within limits for Cd 226.502 Recovery = 98.99%						
Ti 334.940†	241036.2	0.50355 mg/L	0.002385	0.50355 mg/L	0.002385	0.47%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	4471.0	24.150 mg/L	0.3260	24.150 mg/L	0.3260	1.35%
QC value within limits for Ca 227.546 Recovery = 96.60%						
Na 589.592†	114015.5	25.351 mg/L	0.5154	25.351 mg/L	0.5154	2.03%
QC value within limits for Na 589.592 Recovery = 101.40%						
K 766.490†	24883.3	25.252 mg/L	0.5094	25.252 mg/L	0.5094	2.02%
QC value within limits for K 766.490 Recovery = 101.01%						

QC Failed. Continue with analysis.

Sequence No.: 11

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Autosampler Location: 4

Date Collected: 8/30/2012 2:46:15 PM

Data Type: Reprocessed on 8/31/2012 8:25:54 AM

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1780664.1	101.97	%	1.515			1.49%
Lu 261.542	1155212.6	101.8	%	1.57			1.55%
Ag 328.068†	18.8	0.00012	mg/L	0.000586	0.00012 mg/L	0.000586	489.75%
QC value within limits for Ag		328.068	Recovery =	Not calculated			
Al 308.215†	-103.8	-0.00558	mg/L	0.005307	-0.00558 mg/L	0.005307	95.09%
QC value within limits for Al		308.215	Recovery =	Not calculated			
As 188.979†	0.7	0.00096	mg/L	0.002219	0.00096 mg/L	0.002219	231.04%
QC value within limits for As		188.979	Recovery =	Not calculated			
Ba 233.527†	43.9	0.00056	mg/L	0.000077	0.00056 mg/L	0.000077	13.69%
QC value within limits for Ba		233.527	Recovery =	Not calculated			
Be 313.107†	80.5	0.00003	mg/L	0.000025	0.00003 mg/L	0.000025	73.18%
QC value within limits for Be		313.107	Recovery =	Not calculated			
Co 228.616†	3.9	0.00012	mg/L	0.000185	0.00012 mg/L	0.000185	156.53%
QC value within limits for Co		228.616	Recovery =	Not calculated			
Cr 267.716†	6.7	0.00010	mg/L	0.000178	0.00010 mg/L	0.000178	171.70%
QC value within limits for Cr		267.716	Recovery =	Not calculated			
Cu 324.752†	-63.6	-0.00032	mg/L	0.000579	-0.00032 mg/L	0.000579	180.50%
QC value within limits for Cu		324.752	Recovery =	Not calculated			
Fe 273.955†	63.7	0.00286	mg/L	0.000166	0.00286 mg/L	0.000166	5.78%
QC value within limits for Fe		273.955	Recovery =	Not calculated			
Mg 279.077†	68.8	0.00429	mg/L	0.001860	0.00429 mg/L	0.001860	43.33%
QC value within limits for Mg		279.077	Recovery =	Not calculated			
Mn 257.610†	105.2	0.00019	mg/L	0.000044	0.00019 mg/L	0.000044	22.83%
QC value within limits for Mn		257.610	Recovery =	Not calculated			
Ni 231.604†	5.9	0.00022	mg/L	0.000081	0.00022 mg/L	0.000081	37.51%
QC value within limits for Ni		231.604	Recovery =	Not calculated			
Pb 220.353†	0.9	0.00018	mg/L	0.000785	0.00018 mg/L	0.000785	426.66%
QC value within limits for Pb		220.353	Recovery =	Not calculated			
Sb 206.836†	0.2	0.00021	mg/L	0.001297	0.00021 mg/L	0.001297	625.57%
QC value within limits for Sb		206.836	Recovery =	Not calculated			
Se 196.026†	0.3	0.00063	mg/L	0.005689	0.00063 mg/L	0.005689	908.08%
QC value within limits for Se		196.026	Recovery =	Not calculated			
Tl 190.801†	-2.5	-0.00420	mg/L	0.002477	-0.00420 mg/L	0.002477	58.93%
QC value within limits for Tl		190.801	Recovery =	Not calculated			
V 292.402†	16.9	0.00015	mg/L	0.000165	0.00015 mg/L	0.000165	108.40%
QC value within limits for V		292.402	Recovery =	Not calculated			
Zn 206.200†	12.5	0.00064	mg/L	0.000041	0.00064 mg/L	0.000041	6.39%
QC value within limits for Zn		206.200	Recovery =	Not calculated			
Cd 226.502†	3.7	0.00007	mg/L	0.000112	0.00007 mg/L	0.000112	152.70%
QC value within limits for Cd		226.502	Recovery =	Not calculated			
Ti 334.940†	73.6	0.00015	mg/L	0.000002	0.00015 mg/L	0.000002	1.49%
QC value within limits for Ti		334.940	Recovery =	Not calculated			
Ca 227.546†	-5.5	-0.03072	mg/L	0.081751	-0.03072 mg/L	0.081751	266.15%
QC value within limits for Ca		227.546	Recovery =	Not calculated			
Na 589.592†	-77.8	-0.01731	mg/L	0.014828	-0.01731 mg/L	0.014828	85.69%
QC value within limits for Na		589.592	Recovery =	Not calculated			
K 766.490†	-3.5	-0.00353	mg/L	0.044458	-0.00353 mg/L	0.044458	>999.9%
QC value within limits for K		766.490	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: MB-67889-PBW

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 8/30/2012 2:49:57 PM

Data Type: Reprocessed on 8/31/2012 8:25:55 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MB-67889-PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1756873.0	100.60	%	0.499			0.50%
Lu 261.542	1142954.9	100.7	%	0.62			0.62%
Ag 328.068†	124.6	0.00079	mg/L	0.000228	0.00079 mg/L	0.000228	28.83%

Al 308.215†	-66.1	-0.00354 mg/L	0.002594	-0.00354 mg/L	0.002594	73.25%
As 188.979†	-2.4	-0.00320 mg/L	0.002670	-0.00320 mg/L	0.002670	83.44%
Ba 233.527†	-2.8	-0.00004 mg/L	0.000051	-0.00004 mg/L	0.000051	141.85%
Be 313.107†	-2.7	0.00000 mg/L	0.000006	0.00000 mg/L	0.000006	628.87%
Co 228.616†	-4.9	-0.00015 mg/L	0.000180	-0.00015 mg/L	0.000180	120.06%
Cr 267.716†	-5.0	-0.00008 mg/L	0.000091	-0.00008 mg/L	0.000091	116.34%
Cu 324.752†	74.9	0.00038 mg/L	0.000105	0.00038 mg/L	0.000105	27.59%
Fe 273.955†	103.1	0.00464 mg/L	0.000819	0.00464 mg/L	0.000819	17.64%
Mg 279.077†	73.5	0.00459 mg/L	0.001241	0.00459 mg/L	0.001241	27.04%
Mn 257.610†	102.4	0.00019 mg/L	0.000010	0.00019 mg/L	0.000010	5.17%
Ni 231.604†	4.6	0.00017 mg/L	0.000154	0.00017 mg/L	0.000154	90.33%
Pb 220.353†	4.9	0.00103 mg/L	0.001805	0.00103 mg/L	0.001805	174.60%
Sb 206.836†	5.2	0.00507 mg/L	0.000735	0.00507 mg/L	0.000735	14.50%
Se 196.026†	4.3	0.00965 mg/L	0.006514	0.00965 mg/L	0.006514	67.50%
Tl 190.801†	-0.2	-0.00040 mg/L	0.003799	-0.00040 mg/L	0.003799	948.17%
V 292.402†	8.5	0.00008 mg/L	0.000548	0.00008 mg/L	0.000548	718.01%
Zn 206.200†	25.0	0.00128 mg/L	0.000033	0.00128 mg/L	0.000033	2.57%
Cd 226.502†	1.9	0.00004 mg/L	0.000135	0.00004 mg/L	0.000135	372.27%
Ti 334.940†	52.9	0.00011 mg/L	0.000078	0.00011 mg/L	0.000078	71.19%
Ca 227.546†	-13.7	-0.07667 mg/L	0.027140	-0.07667 mg/L	0.027140	35.40%
Na 589.592†	-123.7	-0.02751 mg/L	0.012571	-0.02751 mg/L	0.012571	45.69%
K 766.490†	-46.4	-0.04709 mg/L	0.033860	-0.04709 mg/L	0.033860	71.90%

Sequence No.: 13

Sample ID: LCS-67889~LCS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 95

Date Collected: 8/30/2012 2:53:38 PM

Data Type: Reprocessed on 8/31/2012 8:25:56 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS-67889~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1696418.3	97.142	%	0.7810				0.80%
Lu 261.542	1109007.8	97.71	%	0.834				0.85%
Ag 328.068†	182012.3	1.1593	mg/L	0.00895	1.1593	mg/L	0.00895	0.77%
Al 308.215†	172208.3	9.2586	mg/L	0.08841	9.2586	mg/L	0.08841	0.95%
As 188.979†	356.4	0.47856	mg/L	0.007808	0.47856	mg/L	0.007808	1.63%
Ba 233.527†	743746.7	9.5649	mg/L	0.01717	9.5649	mg/L	0.01717	0.18%
Be 313.107†	549731.9	0.23604	mg/L	0.000126	0.23604	mg/L	0.000126	0.05%
Co 228.616†	77026.4	2.3358	mg/L	0.02159	2.3358	mg/L	0.02159	0.92%
Cr 267.716†	59879.6	0.93252	mg/L	0.007117	0.93252	mg/L	0.007117	0.76%
Cu 324.752†	226865.7	1.1467	mg/L	0.01226	1.1467	mg/L	0.01226	1.07%
Fe 273.955†	104169.1	4.6912	mg/L	0.04348	4.6912	mg/L	0.04348	0.93%
Mg 279.077†	375687.6	23.447	mg/L	0.0276	23.447	mg/L	0.0276	0.12%
Mn 257.610†	1269933.0	2.3468	mg/L	0.00289	2.3468	mg/L	0.00289	0.12%
Ni 231.604†	63917.0	2.3522	mg/L	0.02020	2.3522	mg/L	0.02020	0.86%
Pb 220.353†	2223.4	0.47429	mg/L	0.008567	0.47429	mg/L	0.008567	1.81%
Sb 206.836†	528.2	0.50325	mg/L	0.008386	0.50325	mg/L	0.008386	1.67%
Se 196.026†	207.1	0.46777	mg/L	0.004491	0.46777	mg/L	0.004491	0.96%
Tl 190.801†	285.5	0.45154	mg/L	0.006645	0.45154	mg/L	0.006645	1.47%
V 292.402†	257199.3	2.3101	mg/L	0.01979	2.3101	mg/L	0.01979	0.86%
Zn 206.200†	45267.1	2.3130	mg/L	0.01979	2.3130	mg/L	0.01979	0.86%
Cd 226.502†	11923.0	0.23411	mg/L	0.002882	0.23411	mg/L	0.002882	1.23%
Ti 334.940†	267.2	0.00032	mg/L	0.000091	0.00032	mg/L	0.000091	28.47%
Ca 227.546†	4203.9	22.741	mg/L	0.2717	22.741	mg/L	0.2717	1.19%
Na 589.592†	104812.0	23.305	mg/L	0.4532	23.305	mg/L	0.4532	1.94%
K 766.490†	22569.2	22.904	mg/L	0.4261	22.904	mg/L	0.4261	1.86%

Sequence No.: 14

Sample ID: L1807-19A~DMW-2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 96

Date Collected: 8/30/2012 2:57:22 PM

Data Type: Reprocessed on 8/31/2012 8:25:56 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19A~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1743411.8	99.833	%	1.2545				1.26%
Lu 261.542	1140618.7	100.5	%	1.24				1.23%
Ag 328.068†	89.1	0.00052	mg/L	0.000640	0.00052	mg/L	0.000640	122.72%
Al 308.215†	6137.9	0.32754	mg/L	0.004662	0.32754	mg/L	0.004662	1.42%
As 188.979†	-3.2	-0.00367	mg/L	0.005382	-0.00367	mg/L	0.005382	146.83%
Ba 233.527†	1585.5	0.02038	mg/L	0.000324	0.02038	mg/L	0.000324	1.59%
Be 313.107†	51.5	0.00004	mg/L	0.000011	0.00004	mg/L	0.000011	25.58%
Co 228.616†	40.9	0.00117	mg/L	0.000130	0.00117	mg/L	0.000130	11.04%
Cr 267.716†	48.7	0.00073	mg/L	0.000121	0.00073	mg/L	0.000121	16.48%
Cu 324.752†	383.0	0.00208	mg/L	0.000419	0.00208	mg/L	0.000419	20.14%
Fe 273.955†	35424.1	1.5940	mg/L	0.01800	1.5940	mg/L	0.01800	1.13%
Mg 279.077†	29609.8	1.8481	mg/L	0.01931	1.8481	mg/L	0.01931	1.04%
Mn 257.610†	67217.5	0.12421	mg/L	0.001291	0.12421	mg/L	0.001291	1.04%
Ni 231.604†	45.3	0.00165	mg/L	0.000143	0.00165	mg/L	0.000143	8.65%
Pb 220.353†	14.8	0.00316	mg/L	0.000427	0.00316	mg/L	0.000427	13.53%
Sb 206.836†	1.6	0.00135	mg/L	0.002081	0.00135	mg/L	0.002081	154.34%
Se 196.026†	4.4	0.01058	mg/L	0.005165	0.01058	mg/L	0.005165	48.82%
Tl 190.801†	-0.0	0.00022	mg/L	0.004706	0.00022	mg/L	0.004706	>999.9%
V 292.402†	39.9	0.00039	mg/L	0.000282	0.00039	mg/L	0.000282	72.08%
Zn 206.200†	357.9	0.01839	mg/L	0.000651	0.01839	mg/L	0.000651	3.54%
Cd 226.502†	37.3	0.00058	mg/L	0.000090	0.00058	mg/L	0.000090	15.60%
Ti 334.940†	5772.0	0.01224	mg/L	0.000570	0.01224	mg/L	0.000570	4.65%
Ca 227.546†	2236.1	12.497	mg/L	0.1715	12.497	mg/L	0.1715	1.37%
Na 589.592†	109818.0	24.418	mg/L	0.3054	24.418	mg/L	0.3054	1.25%
K 766.490†	1421.5	1.4426	mg/L	0.02664	1.4426	mg/L	0.02664	1.85%

Sequence No.: 15

Sample ID: L1807-19ADUP~DMW-2D

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 97

Date Collected: 8/30/2012 3:01:04 PM

Data Type: Reprocessed on 8/31/2012 8:25:57 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19ADUP~DMW-2D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1755115.1	100.50	%	0.669				0.67%
Lu 261.542	1146537.5	101.0	%	0.71				0.70%
Ag 328.068†	-62.6	-0.00044	mg/L	0.000541	-0.00044	mg/L	0.000541	122.92%
Al 308.215†	5602.4	0.29881	mg/L	0.006693	0.29881	mg/L	0.006693	2.24%
As 188.979†	-0.1	0.00035	mg/L	0.001848	0.00035	mg/L	0.001848	532.42%
Ba 233.527†	1521.2	0.01956	mg/L	0.000115	0.01956	mg/L	0.000115	0.59%
Be 313.107†	-28.9	0.00001	mg/L	0.000046	0.00001	mg/L	0.000046	661.48%
Co 228.616†	36.6	0.00105	mg/L	0.000236	0.00105	mg/L	0.000236	22.54%
Cr 267.716†	29.6	0.00044	mg/L	0.000358	0.00044	mg/L	0.000358	82.12%
Cu 324.752†	286.1	0.00158	mg/L	0.000190	0.00158	mg/L	0.000190	12.00%
Fe 273.955†	33636.7	1.5136	mg/L	0.01771	1.5136	mg/L	0.01771	1.17%
Mg 279.077†	28481.2	1.7777	mg/L	0.01613	1.7777	mg/L	0.01613	0.91%
Mn 257.610†	64670.1	0.11951	mg/L	0.001269	0.11951	mg/L	0.001269	1.06%
Ni 231.604†	50.2	0.00183	mg/L	0.000315	0.00183	mg/L	0.000315	17.18%
Pb 220.353†	3.0	0.00065	mg/L	0.000510	0.00065	mg/L	0.000510	79.01%
Sb 206.836†	-0.4	-0.00064	mg/L	0.001178	-0.00064	mg/L	0.001178	184.83%
Se 196.026†	3.0	0.00737	mg/L	0.010383	0.00737	mg/L	0.010383	140.93%
Tl 190.801†	1.5	0.00283	mg/L	0.005436	0.00283	mg/L	0.005436	192.42%
V 292.402†	47.7	0.00046	mg/L	0.000599	0.00046	mg/L	0.000599	130.14%
Zn 206.200†	340.2	0.01748	mg/L	0.000071	0.01748	mg/L	0.000071	0.40%
Cd 226.502†	34.8	0.00054	mg/L	0.000122	0.00054	mg/L	0.000122	22.64%
Ti 334.940†	5027.5	0.01068	mg/L	0.000087	0.01068	mg/L	0.000087	0.82%
Ca 227.546†	2169.3	12.124	mg/L	0.0411	12.124	mg/L	0.0411	0.34%
Na 589.592†	105317.5	23.417	mg/L	0.1381	23.417	mg/L	0.1381	0.59%
K 766.490†	1264.5	1.2832	mg/L	0.06249	1.2832	mg/L	0.06249	4.87%

Sequence No.: 16

Sample ID: L1807-19AMS~DMW-2S

Analyst:

Logged In Analyst (Original) : mitOptima3

Autosampler Location: 98

Date Collected: 8/30/2012 3:04:46 PM

Data Type: Reprocessed on 8/31/2012 8:25:58 AM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1807-19AMS~DMW-2S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1705146.1	97.641	%	1.4244				1.46%
Lu 261.542	1114598.0	98.20	%	1.415				1.44%
Ag 328.068†	184776.7	1.1769	mg/L	0.01297	1.1769	mg/L	0.01297	1.10%
Al 308.215†	182851.8	9.8284	mg/L	0.10872	9.8284	mg/L	0.10872	1.11%
As 188.979†	361.3	0.48569	mg/L	0.011047	0.48569	mg/L	0.011047	2.27%
Ba 233.527†	754714.9	9.7060	mg/L	0.00951	9.7060	mg/L	0.00951	0.10%
Be 313.107†	554897.5	0.23827	mg/L	0.000298	0.23827	mg/L	0.000298	0.13%
Co 228.616†	78821.9	2.3902	mg/L	0.02743	2.3902	mg/L	0.02743	1.15%
Cr 267.716†	60968.7	0.94946	mg/L	0.012087	0.94946	mg/L	0.012087	1.27%
Cu 324.752†	232887.6	1.1772	mg/L	0.01253	1.1772	mg/L	0.01253	1.06%
Fe 273.955†	141204.2	6.3578	mg/L	0.07713	6.3578	mg/L	0.07713	1.21%
Mg 279.077†	409346.1	25.548	mg/L	0.0805	25.548	mg/L	0.0805	0.32%
Mn 257.610†	1351715.1	2.4979	mg/L	0.00443	2.4979	mg/L	0.00443	0.18%
Ni 231.604†	64916.4	2.3889	mg/L	0.02860	2.3889	mg/L	0.02860	1.20%
Pb 220.353†	2233.5	0.47649	mg/L	0.007577	0.47649	mg/L	0.007577	1.59%
Sb 206.836†	536.5	0.51092	mg/L	0.007204	0.51092	mg/L	0.007204	1.41%
Se 196.026†	212.8	0.48119	mg/L	0.008134	0.48119	mg/L	0.008134	1.69%
Tl 190.801†	286.4	0.45280	mg/L	0.006560	0.45280	mg/L	0.006560	1.45%
V 292.402†	262879.3	2.3611	mg/L	0.02898	2.3611	mg/L	0.02898	1.23%
Zn 206.200†	46525.6	2.3774	mg/L	0.03200	2.3774	mg/L	0.03200	1.35%
Cd 226.502†	12204.2	0.23948	mg/L	0.002861	0.23948	mg/L	0.002861	1.19%
Ti 334.940†	5667.0	0.01178	mg/L	0.000411	0.01178	mg/L	0.000411	3.48%
Ca 227.546†	6531.5	35.733	mg/L	0.5886	35.733	mg/L	0.5886	1.65%
Na 589.592†	215848.0	47.993	mg/L	0.7177	47.993	mg/L	0.7177	1.50%
K 766.490†	24268.8	24.628	mg/L	0.3420	24.628	mg/L	0.3420	1.39%

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Sequence No.: 17

Sample ID: L1807-19ASD~DMW-2

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 99

Date Collected: 8/30/2012 3:08:33 PM

Data Type: Reprocessed on 8/31/2012 8:25:58 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19ASD~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2074167.7	118.77	%	28.769				24.22%
Lu 261.542	1346016.4	118.6	%	27.83				23.47%
Ag 328.068†	-18.3	-0.00012	mg/L	0.001013	-0.00012	mg/L	0.001013	826.12%
Al 308.215†	216.4	0.01136	mg/L	0.076582	0.01136	mg/L	0.076582	674.28%
As 188.979†	1.1	0.00149	mg/L	0.002737	0.00149	mg/L	0.002737	183.84%
Ba 233.527†	207.9	0.00267	mg/L	0.002167	0.00267	mg/L	0.002167	81.08%
Be 313.107†	300.9	0.00013	mg/L	0.000135	0.00013	mg/L	0.000135	101.86%
Co 228.616†	8.1	0.00024	mg/L	0.000244	0.00024	mg/L	0.000244	103.17%
Cr 267.716†	-4.5	-0.00007	mg/L	0.000166	-0.00007	mg/L	0.000166	228.52%
Cu 324.752†	-697.8	-0.00350	mg/L	0.006627	-0.00350	mg/L	0.006627	189.14%
Fe 273.955†	4800.4	0.21601	mg/L	0.182727	0.21601	mg/L	0.182727	84.59%
Mg 279.077†	4149.1	0.25897	mg/L	0.201864	0.25897	mg/L	0.201864	77.95%
Mn 257.610†	9161.2	0.01693	mg/L	0.014332	0.01693	mg/L	0.014332	84.66%
Ni 231.604†	15.0	0.00055	mg/L	0.000308	0.00055	mg/L	0.000308	56.17%
Pb 220.353†	-0.3	-0.00005	mg/L	0.000607	-0.00005	mg/L	0.000607	>999.9%
Sb 206.836†	-7.7	-0.00759	mg/L	0.006597	-0.00759	mg/L	0.006597	86.94%
Se 196.026†	2.1	0.00474	mg/L	0.005704	0.00474	mg/L	0.005704	120.34%
Tl 190.801†	2.5	0.00416	mg/L	0.001477	0.00416	mg/L	0.001477	35.51%
V 292.402†	-14.4	-0.00012	mg/L	0.000170	-0.00012	mg/L	0.000170	137.42%
Zn 206.200†	38.4	0.00198	mg/L	0.002523	0.00198	mg/L	0.002523	127.73%
Cd 226.502†	4.4	0.00007	mg/L	0.000106	0.00007	mg/L	0.000106	160.49%
Ti 334.940†	788.8	0.00166	mg/L	0.001262	0.00166	mg/L	0.001262	75.87%
Ca 227.546†	219.1	1.2239	mg/L	1.50335	1.2239	mg/L	1.50335	122.83%
Na 589.592†	18865.3	4.1947	mg/L	0.85191	4.1947	mg/L	0.85191	20.31%
K 766.490†	158.9	0.16122	mg/L	0.176896	0.16122	mg/L	0.176896	109.72%

Sequence No.: 18
 Sample ID: L1807-19APDS~DMW-2
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 100
 Date Collected: 8/30/2012 3:12:19 PM
 Data Type: Reprocessed on 8/31/2012 8:25:59 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-19APDS~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2082825.3	119.27	%	34.262				28.73%
Lu 261.542	1353339.4	119.2	%	33.11				27.76%
Ag 328.068†	118275.1	0.75335	mg/L	0.648084	0.75335	mg/L	0.648084	86.03%
Al 308.215†	116144.1	6.2435	mg/L	5.44028	6.2435	mg/L	5.44028	87.14%
As 188.979†	193.0	0.26031	mg/L	0.233905	0.26031	mg/L	0.233905	89.86%
Ba 233.527†	489040.6	6.2893	mg/L	5.35826	6.2893	mg/L	5.35826	85.20%
Be 313.107†	359809.6	0.15450	mg/L	0.131593	0.15450	mg/L	0.131593	85.17%
Co 228.616†	50740.1	1.5387	mg/L	1.32381	1.5387	mg/L	1.32381	86.04%
Cr 267.716†	39075.4	0.60852	mg/L	0.523549	0.60852	mg/L	0.523549	86.04%
Cu 324.752†	148916.5	0.75277	mg/L	0.657023	0.75277	mg/L	0.657023	87.28%
Fe 273.955†	91120.6	4.1028	mg/L	3.52344	4.1028	mg/L	3.52344	85.88%
Mg 279.077†	265386.7	16.563	mg/L	14.1206	16.563	mg/L	14.1206	85.25%
Mn 257.610†	877205.1	1.6210	mg/L	1.38137	1.6210	mg/L	1.38137	85.22%
Ni 231.604†	41862.9	1.5406	mg/L	1.32470	1.5406	mg/L	1.32470	85.99%
Pb 220.353†	1199.4	0.25601	mg/L	0.231069	0.25601	mg/L	0.231069	90.26%
Sb 206.836†	269.4	0.25418	mg/L	0.241051	0.25418	mg/L	0.241051	94.83%
Se 196.026†	116.9	0.26494	mg/L	0.226060	0.26494	mg/L	0.226060	85.32%
Tl 190.801†	154.1	0.24140	mg/L	0.214610	0.24140	mg/L	0.214610	88.90%
V 292.402†	169206.4	1.5197	mg/L	1.30448	1.5197	mg/L	1.30448	85.84%
Zn 206.200†	29944.3	1.5301	mg/L	1.31664	1.5301	mg/L	1.31664	86.05%
Cd 226.502†	7651.5	0.15015	mg/L	0.129022	0.15015	mg/L	0.129022	85.93%
Ti 334.940†	3889.3	0.00803	mg/L	0.006693	0.00803	mg/L	0.006693	83.35%
Ca 227.546†	3526.9	19.211	mg/L	17.7736	19.211	mg/L	17.7736	92.52%
Na 589.592†	183243.1	40.744	mg/L	9.6806	40.744	mg/L	9.6806	23.76%
K 766.490†	20736.0	21.043	mg/L	5.1951	21.043	mg/L	5.1951	24.69%

Sequence No.: 19
 Sample ID: L1807-20A~DMW-3
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 101
 Date Collected: 8/30/2012 3:16:03 PM
 Data Type: Reprocessed on 8/31/2012 8:26:00 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-20A~DMW-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1753629.1	100.42	%	0.708				0.71%
Lu 261.542	1147802.8	101.1	%	0.79				0.78%
Ag 328.068†	39.3	0.00023	mg/L	0.000486	0.00023	mg/L	0.000486	215.44%
Al 308.215†	869.7	0.04447	mg/L	0.002956	0.04447	mg/L	0.002956	6.65%
As 188.979†	-1.4	-0.00146	mg/L	0.003406	-0.00146	mg/L	0.003406	233.22%
Ba 233.527†	2258.1	0.02903	mg/L	0.000242	0.02903	mg/L	0.000242	0.84%
Be 313.107†	67.2	0.00003	mg/L	0.000017	0.00003	mg/L	0.000017	54.69%
Co 228.616†	0.9	0.00002	mg/L	0.000054	0.00002	mg/L	0.000054	239.38%
Cr 267.716†	37.5	0.00058	mg/L	0.000081	0.00058	mg/L	0.000081	13.92%
Cu 324.752†	73.7	0.00038	mg/L	0.000137	0.00038	mg/L	0.000137	36.39%
Fe 273.955†	1122.2	0.05050	mg/L	0.002357	0.05050	mg/L	0.002357	4.67%
Mg 279.077†	35641.6	2.2246	mg/L	0.02589	2.2246	mg/L	0.02589	1.16%
Mn 257.610†	4304.3	0.00793	mg/L	0.000119	0.00793	mg/L	0.000119	1.50%
Ni 231.604†	25.2	0.00092	mg/L	0.000075	0.00092	mg/L	0.000075	8.14%
Pb 220.353†	-3.6	-0.00077	mg/L	0.001701	-0.00077	mg/L	0.001701	221.30%
Sb 206.836†	4.2	0.00393	mg/L	0.000997	0.00393	mg/L	0.000997	25.39%
Se 196.026†	2.3	0.00510	mg/L	0.001738	0.00510	mg/L	0.001738	34.10%
Tl 190.801†	0.6	0.00099	mg/L	0.004210	0.00099	mg/L	0.004210	425.92%
V 292.402†	-14.7	-0.00013	mg/L	0.000270	-0.00013	mg/L	0.000270	205.97%
Zn 206.200†	57.0	0.00292	mg/L	0.000199	0.00292	mg/L	0.000199	6.83%
Cd 226.502†	830.7	0.01626	mg/L	0.000076	0.01626	mg/L	0.000076	0.47%

Ti 334.940†	669.6	0.00154 mg/L	0.000125	0.00154 mg/L	0.000125	8.11%
Ca 227.546†	1979.2	11.072 mg/L	0.0926	11.072 mg/L	0.0926	0.84%
Na 589.592†	105380.2	23.431 mg/L	0.0473	23.431 mg/L	0.0473	0.20%
K 766.490†	2385.4	2.4207 mg/L	0.05719	2.4207 mg/L	0.05719	2.36%

Sequence No.: 20

Autosampler Location: 102

Sample ID: L1807-21A-DMW-9

Date Collected: 8/30/2012 3:19:45 PM

Analyst:

Data Type: Reprocessed on 8/31/2012 8:26:01 AM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-21A-DMW-9

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1738573.2	99.556 %		0.6167				0.62%
Lu 261.542	1136345.4	100.1 %		0.69				0.69%
Ag 328.068†	-86.3	-0.00058 mg/L		0.000604	-0.00058 mg/L		0.000604	103.97%
Al 308.215†	3087.2	0.16318 mg/L		0.001155	0.16318 mg/L		0.001155	0.71%
As 188.979†	-4.9	-0.00587 mg/L		0.002209	-0.00587 mg/L		0.002209	37.62%
Ba 233.527†	1385.2	0.01781 mg/L		0.000170	0.01781 mg/L		0.000170	0.96%
Be 313.107†	59.6	0.00003 mg/L		0.000020	0.00003 mg/L		0.000020	59.43%
Co 228.616†	5.1	0.00013 mg/L		0.000036	0.00013 mg/L		0.000036	27.12%
Cr 267.716†	532.0	0.00828 mg/L		0.000241	0.00828 mg/L		0.000241	2.92%
Cu 324.752†	472.2	0.00244 mg/L		0.000529	0.00244 mg/L		0.000529	21.70%
Fe 273.955†	12356.9	0.55604 mg/L		0.002317	0.55604 mg/L		0.002317	0.42%
Mg 279.077†	52927.0	3.3035 mg/L		0.01318	3.3035 mg/L		0.01318	0.40%
Mn 257.610†	3647.0	0.00671 mg/L		0.000057	0.00671 mg/L		0.000057	0.84%
Ni 231.604†	39.2	0.00143 mg/L		0.000213	0.00143 mg/L		0.000213	14.94%
Pb 220.353†	-1.3	-0.00026 mg/L		0.001234	-0.00026 mg/L		0.001234	480.79%
Sb 206.836†	0.9	0.00049 mg/L		0.002475	0.00049 mg/L		0.002475	508.38%
Se 196.026†	0.7	0.00176 mg/L		0.005576	0.00176 mg/L		0.005576	316.17%
Tl 190.801†	1.5	0.00262 mg/L		0.003707	0.00262 mg/L		0.003707	141.72%
V 292.402†	70.9	0.00067 mg/L		0.000670	0.00067 mg/L		0.000670	100.46%
Zn 206.200†	251.2	0.01286 mg/L		0.000199	0.01286 mg/L		0.000199	1.55%
Cd 226.502†	253.3	0.00489 mg/L		0.000134	0.00489 mg/L		0.000134	2.73%
Ti 334.940†	1896.5	0.00414 mg/L		0.000178	0.00414 mg/L		0.000178	4.30%
Ca 227.546†	2486.5	13.906 mg/L		0.1897	13.906 mg/L		0.1897	1.36%
Na 589.592†	118265.3	26.296 mg/L		0.3066	26.296 mg/L		0.3066	1.17%
K 766.490†	1397.3	1.4180 mg/L		0.09287	1.4180 mg/L		0.09287	6.55%

Sequence No.: 21

Autosampler Location: 3

Sample ID: CCV

Date Collected: 8/30/2012 3:23:27 PM

Analyst:

Data Type: Reprocessed on 8/31/2012 8:26:01 AM

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1700782.3	97.392 %		0.7947				0.82%
Lu 261.542	1111832.1	97.96 %		0.792				0.81%
Ag 328.068†	197973.8	1.2611 mg/L		0.02184	1.2611 mg/L		0.02184	1.73%
QC value within limits for Ag 328.068								Recovery = 100.89%
Al 308.215†	186915.5	10.048 mg/L		0.1900	10.048 mg/L		0.1900	1.89%
QC value within limits for Al 308.215								Recovery = 100.48%
As 188.979†	378.3	0.50825 mg/L		0.010433	0.50825 mg/L		0.010433	2.05%
QC value within limits for As 188.979								Recovery = 101.65%
Ba 233.527†	814709.4	10.478 mg/L		0.0368	10.478 mg/L		0.0368	0.35%
QC value within limits for Ba 233.527								Recovery = 104.78%
Be 313.107†	583726.9	0.25158 mg/L		0.000700	0.25158 mg/L		0.000700	0.28%
QC value within limits for Be 313.107								Recovery = 100.63%
Co 228.616†	86428.5	2.6198 mg/L		0.05002	2.6198 mg/L		0.05002	1.91%
QC value within limits for Co 228.616								Recovery = 104.79%
Cr 267.716†	64746.9	1.0083 mg/L		0.01890	1.0083 mg/L		0.01890	1.87%
QC value within limits for Cr 267.716								Recovery = 100.83%

Cu	324.752†	248250.5	1.2548 mg/L	0.02439	1.2548 mg/L	0.02439	1.94%
	QC value within limits for Cu	324.752	Recovery =	100.38%			
Fe	273.955†	114198.8	5.1429 mg/L	0.09849	5.1429 mg/L	0.09849	1.92%
	QC value within limits for Fe	273.955	Recovery =	102.86%			
Mg	279.077†	409688.2	25.569 mg/L	0.0702	25.569 mg/L	0.0702	0.27%
	QC value within limits for Mg	279.077	Recovery =	102.28%			
Mn	257.610†	1386672.8	2.5625 mg/L	0.00810	2.5625 mg/L	0.00810	0.32%
	QC value within limits for Mn	257.610	Recovery =	102.50%			
Ni	231.604†	70513.7	2.5946 mg/L	0.05125	2.5946 mg/L	0.05125	1.98%
	QC value within limits for Ni	231.604	Recovery =	103.78%			
Pb	220.353†	2386.0	0.50952 mg/L	0.007010	0.50952 mg/L	0.007010	1.38%
	QC value within limits for Pb	220.353	Recovery =	101.90%			
Sb	206.836†	596.1	0.56996 mg/L	0.005569	0.56996 mg/L	0.005569	0.98%
	QC value greater than the upper limit for Sb	206.836	Recovery =	113.99%			
Se	196.026†	223.4	0.50485 mg/L	0.013780	0.50485 mg/L	0.013780	2.73%
	QC value within limits for Se	196.026	Recovery =	100.97%			
Tl	190.801†	305.9	0.48307 mg/L	0.007271	0.48307 mg/L	0.007271	1.51%
	QC value within limits for Tl	190.801	Recovery =	96.61%			
V	292.402†	283976.6	2.5498 mg/L	0.04904	2.5498 mg/L	0.04904	1.92%
	QC value within limits for V	292.402	Recovery =	101.99%			
Zn	206.200†	50176.8	2.5642 mg/L	0.05263	2.5642 mg/L	0.05263	2.05%
	QC value within limits for Zn	206.200	Recovery =	102.57%			
Cd	226.502†	12723.6	0.24984 mg/L	0.005588	0.24984 mg/L	0.005588	2.24%
	QC value within limits for Cd	226.502	Recovery =	99.94%			
Ti	334.940†	244778.1	0.51138 mg/L	0.001959	0.51138 mg/L	0.001959	0.38%
	QC value within limits for Ti	334.940	Recovery =	Not calculated			
Ca	227.546†	4564.7	24.665 mg/L	0.1928	24.665 mg/L	0.1928	0.78%
	QC value within limits for Ca	227.546	Recovery =	98.66%			
Na	589.592†	114952.2	25.559 mg/L	0.5519	25.559 mg/L	0.5519	2.16%
	QC value within limits for Na	589.592	Recovery =	102.24%			
K	766.490†	24546.3	24.910 mg/L	0.5348	24.910 mg/L	0.5348	2.15%
	QC value within limits for K	766.490	Recovery =	99.64%			
QC Failed. Continue with analysis.							

Sequence No.: 22

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 3:27:10 PM

Data Type: Reprocessed on 8/31/2012 8:26:02 AM

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 360.073	1693159.8	96.955 %	1.5100			1.56%
Lu 261.542	1100075.5	96.92 %	1.353			1.40%
Ag 328.068†	33.5	0.00021 mg/L	0.000744	0.00021 mg/L	0.000744	349.46%
	QC value within limits for Ag	328.068	Recovery =	Not calculated		
Al 308.215†	28.5	0.00154 mg/L	0.001543	0.00154 mg/L	0.001543	100.19%
	QC value within limits for Al	308.215	Recovery =	Not calculated		
As 188.979†	-4.3	-0.00567 mg/L	0.001284	-0.00567 mg/L	0.001284	22.67%
	QC value within limits for As	188.979	Recovery =	Not calculated		
Ba 233.527†	32.5	0.00042 mg/L	0.000189	0.00042 mg/L	0.000189	45.23%
	QC value within limits for Ba	233.527	Recovery =	Not calculated		
Be 313.107†	72.3	0.00003 mg/L	0.000007	0.00003 mg/L	0.000007	22.60%
	QC value within limits for Be	313.107	Recovery =	Not calculated		
Co 228.616†	5.2	0.00016 mg/L	0.000192	0.00016 mg/L	0.000192	121.27%
	QC value within limits for Co	228.616	Recovery =	Not calculated		
Cr 267.716†	5.2	0.00008 mg/L	0.000108	0.00008 mg/L	0.000108	133.33%
	QC value within limits for Cr	267.716	Recovery =	Not calculated		
Cu 324.752†	112.9	0.00057 mg/L	0.000337	0.00057 mg/L	0.000337	59.09%
	QC value within limits for Cu	324.752	Recovery =	Not calculated		
Fe 273.955†	61.7	0.00278 mg/L	0.000505	0.00278 mg/L	0.000505	18.20%
	QC value within limits for Fe	273.955	Recovery =	Not calculated		
Mg 279.077†	75.5	0.00471 mg/L	0.000758	0.00471 mg/L	0.000758	16.09%
	QC value within limits for Mg	279.077	Recovery =	Not calculated		
Mn 257.610†	77.7	0.00014 mg/L	0.000039	0.00014 mg/L	0.000039	27.08%
	QC value within limits for Mn	257.610	Recovery =	Not calculated		
Ni 231.604†	5.3	0.00020 mg/L	0.000128	0.00020 mg/L	0.000128	65.55%

QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† -1.1 -0.00023 mg/L 0.001714 -0.00023 mg/L 0.001714 741.37%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 0.8 0.00083 mg/L 0.003641 0.00083 mg/L 0.003641 439.90%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 3.4 0.00749 mg/L 0.002860 0.00749 mg/L 0.002860 38.20%
QC value within limits for Se 196.026 Recovery = Not calculated
Tl 190.801† 0.6 0.00104 mg/L 0.003190 0.00104 mg/L 0.003190 305.63%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 16.2 0.00015 mg/L 0.000539 0.00015 mg/L 0.000539 370.05%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 206.200† 18.1 0.00092 mg/L 0.000381 0.00092 mg/L 0.000381 41.24%
QC value within limits for Zn 206.200 Recovery = Not calculated
Cd 226.502† 1.8 0.00004 mg/L 0.000089 0.00004 mg/L 0.000089 250.84%
QC value within limits for Cd 226.502 Recovery = Not calculated
Ti 334.940† 30.5 0.00006 mg/L 0.000065 0.00006 mg/L 0.000065 103.44%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† -8.2 -0.04601 mg/L 0.055382 -0.04601 mg/L 0.055382 120.38%
QC value within limits for Ca 227.546 Recovery = Not calculated
Na 589.592† 87.5 0.01944 mg/L 0.023339 0.01944 mg/L 0.023339 120.03%
QC value within limits for Na 589.592 Recovery = Not calculated
K 766.490† 77.7 0.07884 mg/L 0.087538 0.07884 mg/L 0.087538 111.04%
QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 23

Sample ID: L1807-22A-DMW-9B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 8/30/2012 3:30:52 PM

Data Type: Reprocessed on 8/31/2012 8:26:03 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-22A-DMW-9B

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1676332.8	95.992 %	%	1.2795			1.33%
Lu 261.542	1096085.3	96.57 %	%	1.209			1.25%
Ag 328.068†	-19.5	-0.00014 mg/L	mg/L	0.000322	-0.00014 mg/L	0.000322	226.00%
Al 308.215†	410.4	0.02014 mg/L	mg/L	0.003314	0.02014 mg/L	0.003314	16.45%
As 188.979†	0.7	0.00130 mg/L	mg/L	0.002410	0.00130 mg/L	0.002410	185.04%
Ba 233.527†	1724.9	0.02218 mg/L	mg/L	0.000186	0.02218 mg/L	0.000186	0.84%
Be 313.107†	-9.3	0.00000 mg/L	mg/L	0.000029	0.00000 mg/L	0.000029	797.22%
Co 228.616†	0.2	0.00001 mg/L	mg/L	0.000016	0.00001 mg/L	0.000016	290.22%
Cr 267.716†	52.5	0.00082 mg/L	mg/L	0.000294	0.00082 mg/L	0.000294	36.04%
Cu 324.752†	372.5	0.00188 mg/L	mg/L	0.000529	0.00188 mg/L	0.000529	28.09%
Fe 273.955†	877.3	0.03948 mg/L	mg/L	0.001032	0.03948 mg/L	0.001032	2.61%
Mg 279.077†	26854.3	1.6761 mg/L	mg/L	0.03155	1.6761 mg/L	0.03155	1.88%
Mn 257.610†	4954.7	0.00914 mg/L	mg/L	0.000245	0.00914 mg/L	0.000245	2.69%
Ni 231.604†	10.5	0.00038 mg/L	mg/L	0.000350	0.00038 mg/L	0.000350	92.26%
Pb 220.353†	-0.4	-0.00009 mg/L	mg/L	0.001368	-0.00009 mg/L	0.001368	>999.9%
Sb 206.836†	2.9	0.00271 mg/L	mg/L	0.005698	0.00271 mg/L	0.005698	210.59%
Se 196.026†	1.7	0.00376 mg/L	mg/L	0.005557	0.00376 mg/L	0.005557	147.80%
Tl 190.801†	2.4	0.00404 mg/L	mg/L	0.002831	0.00404 mg/L	0.002831	70.01%
V 292.402†	6.3	0.00006 mg/L	mg/L	0.000105	0.00006 mg/L	0.000105	180.76%
Zn 206.200†	56.4	0.00288 mg/L	mg/L	0.000147	0.00288 mg/L	0.000147	5.10%
Cd 226.502†	0.9	-0.00001 mg/L	mg/L	0.000175	-0.00001 mg/L	0.000175	>999.9%
Ti 334.940†	101.0	0.00034 mg/L	mg/L	0.000049	0.00034 mg/L	0.000049	14.66%
Ca 227.546†	1662.5	9.3007 mg/L	mg/L	0.08354	9.3007 mg/L	0.08354	0.90%
Na 589.592†	96406.4	21.436 mg/L	mg/L	0.3131	21.436 mg/L	0.3131	1.46%
K 766.490†	1772.1	1.7983 mg/L	mg/L	0.05664	1.7983 mg/L	0.05664	3.15%

Sequence No.: 24

Sample ID: L1807-23A-DMW-52

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 8/30/2012 3:34:35 PM

Data Type: Reprocessed on 8/31/2012 8:26:03 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-23A~DMW-52

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1673939.5	95.854	%	0.5016				0.52%
Lu 261.542	1093992.4	96.39	%	0.383				0.40%
Ag 328.068†	-5.5	-0.00008	mg/L	0.000484	-0.00008	mg/L	0.000484	607.86%
Al 308.215†	7020.2	0.37500	mg/L	0.002103	0.37500	mg/L	0.002103	0.56%
As 188.979†	-5.2	-0.00624	mg/L	0.000443	-0.00624	mg/L	0.000443	7.10%
Ba 233.527†	1598.2	0.02055	mg/L	0.000055	0.02055	mg/L	0.000055	0.27%
Be 313.107†	-67.3	0.00000	mg/L	0.000007	0.00000	mg/L	0.000007	145.86%
Co 228.616†	33.3	0.00094	mg/L	0.000308	0.00094	mg/L	0.000308	32.67%
Cr 267.716†	37.8	0.00056	mg/L	0.000018	0.00056	mg/L	0.000018	3.17%
Cu 324.752†	298.0	0.00165	mg/L	0.000193	0.00165	mg/L	0.000193	11.68%
Fe 273.955†	35076.4	1.5784	mg/L	0.01172	1.5784	mg/L	0.01172	0.74%
Mg 279.077†	29322.8	1.8302	mg/L	0.01564	1.8302	mg/L	0.01564	0.85%
Mn 257.610†	68368.7	0.12634	mg/L	0.000793	0.12634	mg/L	0.000793	0.63%
Ni 231.604†	49.5	0.00181	mg/L	0.000238	0.00181	mg/L	0.000238	13.18%
Pb 220.353†	10.8	0.00232	mg/L	0.001161	0.00232	mg/L	0.001161	49.95%
Sb 206.836†	0.8	0.00058	mg/L	0.001163	0.00058	mg/L	0.001163	202.17%
Se 196.026†	-2.8	-0.00566	mg/L	0.013811	-0.00566	mg/L	0.013811	244.05%
Tl 190.801†	2.1	0.00368	mg/L	0.005446	0.00368	mg/L	0.005446	147.98%
V 292.402†	45.0	0.00043	mg/L	0.000313	0.00043	mg/L	0.000313	71.95%
Zn 206.200†	345.5	0.01776	mg/L	0.000163	0.01776	mg/L	0.000163	0.92%
Cd 226.502†	31.2	0.00046	mg/L	0.000135	0.00046	mg/L	0.000135	29.19%
Ti 334.940†	6283.7	0.01331	mg/L	0.000336	0.01331	mg/L	0.000336	2.53%
Ca 227.546†	2255.2	12.604	mg/L	0.0235	12.604	mg/L	0.0235	0.19%
Na 589.592†	111328.8	24.754	mg/L	0.2433	24.754	mg/L	0.2433	0.98%
K 766.490†	1336.3	1.3561	mg/L	0.06805	1.3561	mg/L	0.06805	5.02%

Sequence No.: 25

Sample ID: L1807-24A~DMW-15B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 8/30/2012 3:38:17 PM

Data Type: Reprocessed on 8/31/2012 8:26:04 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-24A~DMW-15B

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1691354.5	96.852	%	0.8174				0.84%
Lu 261.542	1105602.9	97.41	%	0.839				0.86%
Ag 328.068†	-14.1	-0.00018	mg/L	0.000275	-0.00018	mg/L	0.000275	155.15%
Al 308.215†	713.2	0.03539	mg/L	0.002074	0.03539	mg/L	0.002074	5.86%
As 188.979†	-0.9	-0.00067	mg/L	0.000656	-0.00067	mg/L	0.000656	97.45%
Ba 233.527†	2523.1	0.03244	mg/L	0.000322	0.03244	mg/L	0.000322	0.99%
Be 313.107†	316.5	0.00014	mg/L	0.000014	0.00014	mg/L	0.000014	10.21%
Co 228.616†	50.2	0.00148	mg/L	0.000145	0.00148	mg/L	0.000145	9.79%
Cr 267.716†	19.7	0.00027	mg/L	0.000162	0.00027	mg/L	0.000162	60.26%
Cu 324.752†	138.4	0.00084	mg/L	0.000567	0.00084	mg/L	0.000567	67.73%
Fe 273.955†	33489.4	1.5070	mg/L	0.02982	1.5070	mg/L	0.02982	1.98%
Mg 279.077†	75293.8	4.6996	mg/L	0.08512	4.6996	mg/L	0.08512	1.81%
Mn 257.610†	102189.1	0.18882	mg/L	0.003231	0.18882	mg/L	0.003231	1.71%
Ni 231.604†	42.4	0.00154	mg/L	0.000509	0.00154	mg/L	0.000509	33.06%
Pb 220.353†	7.0	0.00146	mg/L	0.001201	0.00146	mg/L	0.001201	82.01%
Sb 206.836†	7.6	0.00718	mg/L	0.003465	0.00718	mg/L	0.003465	48.30%
Se 196.026†	1.8	0.00473	mg/L	0.012044	0.00473	mg/L	0.012044	254.55%
Tl 190.801†	-0.5	-0.00054	mg/L	0.001903	-0.00054	mg/L	0.001903	352.79%
V 292.402†	-34.5	-0.00026	mg/L	0.000475	-0.00026	mg/L	0.000475	179.98%
Zn 206.200†	233.9	0.01208	mg/L	0.000216	0.01208	mg/L	0.000216	1.78%
Cd 226.502†	6.1	-0.00002	mg/L	0.000080	-0.00002	mg/L	0.000080	333.53%
Ti 334.940†	495.6	0.00115	mg/L	0.000381	0.00115	mg/L	0.000381	32.97%
Ca 227.546†	2177.1	12.166	mg/L	0.1649	12.166	mg/L	0.1649	1.36%
Na 589.592†	183574.4	40.817	mg/L	0.2624	40.817	mg/L	0.2624	0.64%
K 766.490†	1449.4	1.4708	mg/L	0.04807	1.4708	mg/L	0.04807	3.27%

Sequence No.: 26

Sample ID: L1807-25A~DMW-15A

Autosampler Location: 106

Date Collected: 8/30/2012 3:42:06 PM

Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Data Type: Reprocessed on 8/31/2012 8:26:05 AM

Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-25A~DMW-15A

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1752964.7	100.38	%	0.510				0.51%
Lu 261.542	1143282.7	100.7	%	0.54				0.54%
Ag 328.068†	-150.9	-0.00103	mg/L	0.000423	-0.00103	mg/L	0.000423	40.94%
Al 308.215†	227.7	0.00908	mg/L	0.002158	0.00908	mg/L	0.002158	23.77%
As 188.979†	-0.2	0.00014	mg/L	0.002334	0.00014	mg/L	0.002334	>999.9%
Ba 233.527†	1235.6	0.01588	mg/L	0.000097	0.01588	mg/L	0.000097	0.61%
Be 313.107†	51.8	0.00002	mg/L	0.000009	0.00002	mg/L	0.000009	39.98%
Co 228.616†	1.1	0.00003	mg/L	0.000098	0.00003	mg/L	0.000098	306.53%
Cr 267.716†	40.3	0.00058	mg/L	0.000226	0.00058	mg/L	0.000226	39.13%
Cu 324.752†	11.6	0.00006	mg/L	0.000235	0.00006	mg/L	0.000235	384.90%
Fe 273.955†	545.4	0.02454	mg/L	0.000320	0.02454	mg/L	0.000320	1.30%
Mg 279.077†	39381.9	2.4581	mg/L	0.00458	2.4581	mg/L	0.00458	0.19%
Mn 257.610†	128560.0	0.23758	mg/L	0.000388	0.23758	mg/L	0.000388	0.16%
Ni 231.604†	14.7	0.00053	mg/L	0.000384	0.00053	mg/L	0.000384	72.25%
Pb 220.353†	2.6	0.00057	mg/L	0.000785	0.00057	mg/L	0.000785	138.39%
Sb 206.836†	3.6	0.00339	mg/L	0.001262	0.00339	mg/L	0.001262	37.24%
Se 196.026†	3.0	0.00680	mg/L	0.006497	0.00680	mg/L	0.006497	95.59%
Tl 190.801†	2.2	0.00378	mg/L	0.002039	0.00378	mg/L	0.002039	53.91%
V 292.402†	-17.5	-0.00015	mg/L	0.000832	-0.00015	mg/L	0.000832	538.97%
Zn 206.200†	74.2	0.00388	mg/L	0.000249	0.00388	mg/L	0.000249	6.42%
Cd 226.502†	859.6	0.01683	mg/L	0.000120	0.01683	mg/L	0.000120	0.71%
Ti 334.940†	-49.6	0.00008	mg/L	0.000017	0.00008	mg/L	0.000017	21.31%
Ca 227.546†	2415.6	13.513	mg/L	0.0869	13.513	mg/L	0.0869	0.64%
Na 589.592†	91880.0	20.429	mg/L	0.1233	20.429	mg/L	0.1233	0.60%
K 766.490†	2083.9	2.1148	mg/L	0.09273	2.1148	mg/L	0.09273	4.38%

Sequence No.: 27

Sample ID: L1807-26A~DMW-23B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 8/30/2012 3:45:48 PM

Data Type: Reprocessed on 8/31/2012 8:26:05 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-26A~DMW-23B

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1684237.1	96.444	%	1.8346				1.90%
Lu 261.542	1097675.3	96.71	%	1.816				1.88%
Ag 328.068†	-20.9	-0.00019	mg/L	0.000381	-0.00019	mg/L	0.000381	200.38%
Al 308.215†	1989.0	0.10309	mg/L	0.008110	0.10309	mg/L	0.008110	7.87%
As 188.979†	-2.0	-0.00186	mg/L	0.005290	-0.00186	mg/L	0.005290	284.01%
Ba 233.527†	2258.2	0.02903	mg/L	0.000544	0.02903	mg/L	0.000544	1.87%
Be 313.107†	-38.6	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	166.15%
Co 228.616†	17.9	0.00053	mg/L	0.000115	0.00053	mg/L	0.000115	21.62%
Cr 267.716†	689.6	0.01071	mg/L	0.000355	0.01071	mg/L	0.000355	3.32%
Cu 324.752†	798.2	0.00406	mg/L	0.000407	0.00406	mg/L	0.000407	10.04%
Fe 273.955†	6195.5	0.27879	mg/L	0.006627	0.27879	mg/L	0.006627	2.38%
Mg 279.077†	47263.6	2.9500	mg/L	0.05444	2.9500	mg/L	0.05444	1.85%
Mn 257.610†	74732.0	0.13809	mg/L	0.002465	0.13809	mg/L	0.002465	1.79%
Ni 231.604†	64.5	0.00236	mg/L	0.000290	0.00236	mg/L	0.000290	12.29%
Pb 220.353†	10.8	0.00230	mg/L	0.001437	0.00230	mg/L	0.001437	62.37%
Sb 206.836†	-0.7	-0.00113	mg/L	0.003177	-0.00113	mg/L	0.003177	280.31%
Se 196.026†	3.7	0.00833	mg/L	0.006110	0.00833	mg/L	0.006110	73.33%
Tl 190.801†	-0.7	-0.00095	mg/L	0.001280	-0.00095	mg/L	0.001280	135.23%
V 292.402†	77.7	0.00073	mg/L	0.000310	0.00073	mg/L	0.000310	42.76%
Zn 206.200†	346.0	0.01773	mg/L	0.000518	0.01773	mg/L	0.000518	2.92%
Cd 226.502†	3551.3	0.06961	mg/L	0.001284	0.06961	mg/L	0.001284	1.84%
Ti 334.940†	1172.2	0.00270	mg/L	0.000231	0.00270	mg/L	0.000231	8.54%
Ca 227.546†	3233.8	18.089	mg/L	0.3618	18.089	mg/L	0.3618	2.00%
Na 589.592†	67364.9	14.978	mg/L	0.3425	14.978	mg/L	0.3425	2.29%

K 766.490† 1734.9 1.7606 mg/L 0.05564 1.7606 mg/L 0.05564 3.16%

Sequence No.: 28

Sample ID: L1807-27A-DMW-13B

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 8/30/2012 3:49:30 PM

Data Type: Reprocessed on 8/31/2012 8:26:06 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-27A-DMW-13B

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1716688.2	98.302	%	0.9030				0.92%
Lu 261.542	1118643.4	98.56	%	0.861				0.87%
Ag 328.068†	-79.6	-0.00053	mg/L	0.000284	-0.00053	mg/L	0.000284	53.20%
Al 308.215†	406.0	0.01945	mg/L	0.002989	0.01945	mg/L	0.002989	15.37%
As 188.979†	-4.8	-0.00571	mg/L	0.001863	-0.00571	mg/L	0.001863	32.59%
Ba 233.527†	1795.7	0.02309	mg/L	0.000239	0.02309	mg/L	0.000239	1.04%
Be 313.107†	55.1	0.00002	mg/L	0.000014	0.00002	mg/L	0.000014	59.81%
Co 228.616†	8.8	0.00026	mg/L	0.000262	0.00026	mg/L	0.000262	98.73%
Cr 267.716†	1365.1	0.02124	mg/L	0.000774	0.02124	mg/L	0.000774	3.64%
Cu 324.752†	144.8	0.00073	mg/L	0.000554	0.00073	mg/L	0.000554	75.47%
Fe 273.955†	646.8	0.02911	mg/L	0.000607	0.02911	mg/L	0.000607	2.08%
Mg 279.077†	26079.6	1.6277	mg/L	0.02355	1.6277	mg/L	0.02355	1.45%
Mn 257.610†	29408.9	0.05434	mg/L	0.000907	0.05434	mg/L	0.000907	1.67%
Ni 231.604†	18.3	0.00067	mg/L	0.000117	0.00067	mg/L	0.000117	17.48%
Pb 220.353†	-1.0	-0.00021	mg/L	0.001644	-0.00021	mg/L	0.001644	769.18%
Sb 206.836†	2.8	0.00219	mg/L	0.001515	0.00219	mg/L	0.001515	69.01%
Se 196.026†	3.2	0.00722	mg/L	0.007418	0.00722	mg/L	0.007418	102.75%
Tl 190.801†	1.1	0.00181	mg/L	0.004554	0.00181	mg/L	0.004554	252.01%
V 292.402†	-22.1	-0.00015	mg/L	0.000216	-0.00015	mg/L	0.000216	144.22%
Zn 206.200†	58.0	0.00302	mg/L	0.000079	0.00302	mg/L	0.000079	2.63%
Cd 226.502†	80.5	0.00155	mg/L	0.000101	0.00155	mg/L	0.000101	6.52%
Ti 334.940†	80.7	0.00033	mg/L	0.000076	0.00033	mg/L	0.000076	23.40%
Ca 227.546†	2022.6	11.315	mg/L	0.1820	11.315	mg/L	0.1820	1.61%
Na 589.592†	41668.4	9.2649	mg/L	0.11351	9.2649	mg/L	0.11351	1.23%
K 766.490†	1315.7	1.3352	mg/L	0.04109	1.3352	mg/L	0.04109	3.08%

Sequence No.: 29

Sample ID: L1807-28A-DMW-23A

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 109

Date Collected: 8/30/2012 3:53:12 PM

Data Type: Reprocessed on 8/31/2012 8:26:07 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-28A-DMW-23A

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1664719.6	95.327	%	0.1747				0.18%
Lu 261.542	1087754.2	95.84	%	0.247				0.26%
Ag 328.068†	-24.4	-0.00044	mg/L	0.000209	-0.00044	mg/L	0.000209	47.60%
Al 308.215†	3135.2	0.16146	mg/L	0.002896	0.16146	mg/L	0.002896	1.79%
As 188.979†	-4.8	-0.00551	mg/L	0.004213	-0.00551	mg/L	0.004213	76.44%
Ba 233.527†	2177.7	0.02800	mg/L	0.000135	0.02800	mg/L	0.000135	0.48%
Be 313.107†	-31.8	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	186.90%
Co 228.616†	4.3	0.00008	mg/L	0.000060	0.00008	mg/L	0.000060	74.32%
Cr 267.716†	90.7	0.00118	mg/L	0.000406	0.00118	mg/L	0.000406	34.31%
Cu 324.752†	1283.2	0.00665	mg/L	0.000115	0.00665	mg/L	0.000115	1.73%
Fe 273.955†	41401.1	1.8630	mg/L	0.00311	1.8630	mg/L	0.00311	0.17%
Mg 279.077†	79377.5	4.9545	mg/L	0.00744	4.9545	mg/L	0.00744	0.15%
Mn 257.610†	602507.0	1.1135	mg/L	0.00253	1.1135	mg/L	0.00253	0.23%
Ni 231.604†	15.4	0.00054	mg/L	0.000340	0.00054	mg/L	0.000340	62.61%
Pb 220.353†	0.1	0.00006	mg/L	0.001407	0.00006	mg/L	0.001407	>999.9%
Sb 206.836†	0.6	0.00008	mg/L	0.002252	0.00008	mg/L	0.002252	>999.9%
Se 196.026†	3.3	0.00817	mg/L	0.001009	0.00817	mg/L	0.001009	12.34%
Tl 190.801†	0.1	0.00084	mg/L	0.002914	0.00084	mg/L	0.002914	348.24%
V 292.402†	119.7	0.00113	mg/L	0.000096	0.00113	mg/L	0.000096	8.48%

Zn 206.200†	59.3	0.00357 mg/L	0.000072	0.00357 mg/L	0.000072	2.02%
Cd 226.502†	1625.9	0.03169 mg/L	0.000169	0.03169 mg/L	0.000169	0.53%
Ti 334.940†	718.2	0.00186 mg/L	0.000094	0.00186 mg/L	0.000094	5.04%
Ca 227.546†	4767.9	26.656 mg/L	0.1513	26.656 mg/L	0.1513	0.57%
Na 589.592†	333146.0	74.074 mg/L	0.7566	74.074 mg/L	0.7566	1.02%
K 766.490†	5685.6	5.7698 mg/L	0.08575	5.7698 mg/L	0.08575	1.49%

Sequence No.: 30

Sample ID: L1808-01A-LMW-5F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 110

Date Collected: 8/30/2012 3:57:01 PM

Data Type: Reprocessed on 8/31/2012 8:26:07 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-01A-LMW-5F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1704378.6	97.597 %		0.2886				0.30%
Lu 261.542	1109683.4	97.77 %		0.261				0.27%
Ag 328.068†	-121.9	-0.00082 mg/L		0.000390	-0.00082 mg/L		0.000390	47.43%
Al 308.215†	2995.4	0.15723 mg/L		0.001604	0.15723 mg/L		0.001604	1.02%
As 188.979†	0.1	0.00082 mg/L		0.004270	0.00082 mg/L		0.004270	523.29%
Ba 233.527†	4694.6	0.06035 mg/L		0.000533	0.06035 mg/L		0.000533	0.88%
Be 313.107†	337.5	0.00014 mg/L		0.000030	0.00014 mg/L		0.000030	21.01%
Co 228.616†	0.4	0.00001 mg/L		0.000200	0.00001 mg/L		0.000200	>999.9%
Cr 267.716†	97.3	0.00150 mg/L		0.000164	0.00150 mg/L		0.000164	10.90%
Cu 324.752†	227.3	0.00115 mg/L		0.000314	0.00115 mg/L		0.000314	27.38%
Fe 273.955†	301.0	0.01354 mg/L		0.001158	0.01354 mg/L		0.001158	8.55%
Mg 279.077†	54299.6	3.3892 mg/L		0.02089	3.3892 mg/L		0.02089	0.62%
Mn 257.610†	36459.2	0.06735 mg/L		0.000309	0.06735 mg/L		0.000309	0.46%
Ni 231.604†	80.4	0.00295 mg/L		0.000121	0.00295 mg/L		0.000121	4.11%
Pb 220.353†	8.0	0.00173 mg/L		0.001208	0.00173 mg/L		0.001208	69.82%
Sb 206.836†	0.8	0.00050 mg/L		0.004122	0.00050 mg/L		0.004122	832.07%
Se 196.026†	1.5	0.00330 mg/L		0.015919	0.00330 mg/L		0.015919	482.18%
Tl 190.801†	1.5	0.00263 mg/L		0.004006	0.00263 mg/L		0.004006	152.31%
V 292.402†	-22.7	-0.00020 mg/L		0.000216	-0.00020 mg/L		0.000216	108.02%
Zn 206.200†	201.8	0.01032 mg/L		0.000199	0.01032 mg/L		0.000199	1.93%
Cd 226.502†	1.6	-0.00002 mg/L		0.000098	-0.00002 mg/L		0.000098	540.96%
Ti 334.940†	-204.2	-0.00018 mg/L		0.000127	-0.00018 mg/L		0.000127	71.99%
Ca 227.546†	3333.5	18.649 mg/L		0.0464	18.649 mg/L		0.0464	0.25%
Na 589.592†	85560.8	19.024 mg/L		0.2140	19.024 mg/L		0.2140	1.12%
K 766.490†	5357.0	5.4363 mg/L		0.15302	5.4363 mg/L		0.15302	2.81%

Sequence No.: 31

Sample ID: L1808-02A-LMW-55F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 8/30/2012 4:00:43 PM

Data Type: Reprocessed on 8/31/2012 8:26:08 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-02A-LMW-55F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1745531.4	99.954 %		1.1038				1.10%
Lu 261.542	1137007.4	100.2 %		1.11				1.11%
Ag 328.068†	-53.1	-0.00039 mg/L		0.000326	-0.00039 mg/L		0.000326	84.60%
Al 308.215†	3040.2	0.15974 mg/L		0.004970	0.15974 mg/L		0.004970	3.11%
As 188.979†	2.1	0.00342 mg/L		0.005187	0.00342 mg/L		0.005187	151.44%
Ba 233.527†	4910.6	0.06313 mg/L		0.000483	0.06313 mg/L		0.000483	0.77%
Be 313.107†	392.7	0.00017 mg/L		0.000022	0.00017 mg/L		0.000022	12.85%
Co 228.616†	4.5	0.00014 mg/L		0.000153	0.00014 mg/L		0.000153	111.72%
Cr 267.716†	76.5	0.00118 mg/L		0.000539	0.00118 mg/L		0.000539	45.81%
Cu 324.752†	174.1	0.00088 mg/L		0.000593	0.00088 mg/L		0.000593	67.38%
Fe 273.955†	461.5	0.02077 mg/L		0.000843	0.02077 mg/L		0.000843	4.06%
Mg 279.077†	53135.8	3.3165 mg/L		0.03297	3.3165 mg/L		0.03297	0.99%
Mn 257.610†	35997.7	0.06650 mg/L		0.000728	0.06650 mg/L		0.000728	1.09%
Ni 231.604†	65.5	0.00240 mg/L		0.000253	0.00240 mg/L		0.000253	10.56%

Pb 220.353†	2.4	0.00053 mg/L	0.001051	0.00053 mg/L	0.001051	198.71%
Sb 206.836†	0.4	0.00011 mg/L	0.000712	0.00011 mg/L	0.000712	619.63%
Se 196.026†	-0.3	-0.00063 mg/L	0.013999	-0.00063 mg/L	0.013999	>999.9%
Tl 190.801†	0.9	0.00163 mg/L	0.004990	0.00163 mg/L	0.004990	306.41%
V 292.402†	-33.8	-0.00030 mg/L	0.000221	-0.00030 mg/L	0.000221	73.93%
Zn 206.200†	185.4	0.00948 mg/L	0.000030	0.00948 mg/L	0.000030	0.32%
Cd 226.502†	0.4	-0.00004 mg/L	0.000174	-0.00004 mg/L	0.000174	441.40%
Ti 334.940†	-223.2	-0.00022 mg/L	0.000016	-0.00022 mg/L	0.000016	7.23%
Ca 227.546†	3244.6	18.152 mg/L	0.2346	18.152 mg/L	0.2346	1.29%
Na 589.592†	84445.5	18.776 mg/L	0.1830	18.776 mg/L	0.1830	0.97%
K 766.490†	5352.1	5.4314 mg/L	0.13909	5.4314 mg/L	0.13909	2.56%

Sequence No.: 32

Sample ID: L1808-03A-LMW-6F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 112

Date Collected: 8/30/2012 4:04:25 PM

Data Type: Reprocessed on 8/31/2012 8:26:09 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-03A-LMW-6F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1753078.6	100.39 %		0.617				0.61%
Lu 261.542	1141869.9	100.6 %		0.62				0.61%
Ag 328.068†	-170.0	-0.00111 mg/L	0.000482	-0.00111 mg/L	0.000482			43.29%
Al 308.215†	232.6	0.01078 mg/L	0.000286	0.01078 mg/L	0.000286			2.66%
As 188.979†	-0.3	-0.00008 mg/L	0.004011	-0.00008 mg/L	0.004011			>999.9%
Ba 233.527†	208.4	0.00268 mg/L	0.000083	0.00268 mg/L	0.000083			3.11%
Be 313.107†	61.4	0.00003 mg/L	0.000021	0.00003 mg/L	0.000021			78.59%
Co 228.616†	0.5	0.00001 mg/L	0.000214	0.00001 mg/L	0.000214			>999.9%
Cr 267.716†	11.2	0.00017 mg/L	0.000288	0.00017 mg/L	0.000288			166.02%
Cu 324.752†	115.6	0.00059 mg/L	0.000663	0.00059 mg/L	0.000663			112.84%
Fe 273.955†	883.5	0.03976 mg/L	0.002225	0.03976 mg/L	0.002225			5.60%
Mg 279.077†	50919.5	3.1782 mg/L	0.03718	3.1782 mg/L	0.03718			1.17%
Mn 257.610†	3814.4	0.00702 mg/L	0.000116	0.00702 mg/L	0.000116			1.65%
Ni 231.604†	55.4	0.00203 mg/L	0.000270	0.00203 mg/L	0.000270			13.34%
Pb 220.353†	2.7	0.00057 mg/L	0.002883	0.00057 mg/L	0.002883			504.05%
Sb 206.836†	-1.0	-0.00113 mg/L	0.001752	-0.00113 mg/L	0.001752			155.69%
Se 196.026†	3.0	0.00677 mg/L	0.002690	0.00677 mg/L	0.002690			39.74%
Tl 190.801†	1.9	0.00321 mg/L	0.003766	0.00321 mg/L	0.003766			117.16%
V 292.402†	24.8	0.00022 mg/L	0.000322	0.00022 mg/L	0.000322			143.75%
Zn 206.200†	155.4	0.00793 mg/L	0.000151	0.00793 mg/L	0.000151			1.91%
Cd 226.502†	-2.0	-0.00006 mg/L	0.000062	-0.00006 mg/L	0.000062			100.69%
Ti 334.940†	5.2	0.00008 mg/L	0.000063	0.00008 mg/L	0.000063			75.87%
Ca 227.546†	1384.7	7.7452 mg/L	0.05108	7.7452 mg/L	0.05108			0.66%
Na 589.592†	46529.9	10.346 mg/L	0.1680	10.346 mg/L	0.1680			1.62%
K 766.490†	543.5	0.55158 mg/L	0.045483	0.55158 mg/L	0.045483			8.25%

Sequence No.: 33

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 4:08:07 PM

Data Type: Reprocessed on 8/31/2012 8:26:09 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1677953.4	96.084 %		0.3354				0.35%
Lu 261.542	1094437.1	96.43 %		0.299				0.31%
Ag 328.068†	199879.6	1.2732 mg/L	0.00941	1.2732 mg/L	0.00941			0.74%
QC value within limits for Ag 328.068 Recovery = 101.86%								
Al 308.215†	189441.3	10.184 mg/L	0.0707	10.184 mg/L	0.0707			0.69%
QC value within limits for Al 308.215 Recovery = 101.84%								
As 188.979†	378.3	0.50834 mg/L	0.006656	0.50834 mg/L	0.006656			1.31%
QC value within limits for As 188.979 Recovery = 101.67%								
Ba 233.527†	818839.8	10.531 mg/L	0.0032	10.531 mg/L	0.0032			0.03%

QC value within limits for Ba	233.527	Recovery = 105.31%				
Be 313.107†	583577.7	0.25152 mg/L	0.000242	0.25152 mg/L	0.000242	0.10%
QC value within limits for Be	313.107	Recovery = 100.61%				
Co 228.616†	87489.2	2.6519 mg/L	0.01773	2.6519 mg/L	0.01773	0.67%
QC value within limits for Co	228.616	Recovery = 106.08%				
Cr 267.716†	65293.2	1.0168 mg/L	0.00810	1.0168 mg/L	0.00810	0.80%
QC value within limits for Cr	267.716	Recovery = 101.68%				
Cu 324.752†	251446.9	1.2709 mg/L	0.00798	1.2709 mg/L	0.00798	0.63%
QC value within limits for Cu	324.752	Recovery = 101.67%				
Fe 273.955†	115467.3	5.2000 mg/L	0.03971	5.2000 mg/L	0.03971	0.76%
QC value within limits for Fe	273.955	Recovery = 104.00%				
Mg 279.077†	411573.3	25.686 mg/L	0.0202	25.686 mg/L	0.0202	0.08%
QC value within limits for Mg	279.077	Recovery = 102.75%				
Mn 257.610†	1386700.4	2.5625 mg/L	0.00353	2.5625 mg/L	0.00353	0.14%
QC value within limits for Mn	257.610	Recovery = 102.50%				
Ni 231.604†	71274.4	2.6226 mg/L	0.02000	2.6226 mg/L	0.02000	0.76%
QC value within limits for Ni	231.604	Recovery = 104.90%				
Pb 220.353†	2393.9	0.51121 mg/L	0.001178	0.51121 mg/L	0.001178	0.23%
QC value within limits for Pb	220.353	Recovery = 102.24%				
Sb 206.836†	598.4	0.57209 mg/L	0.003080	0.57209 mg/L	0.003080	0.54%
QC value greater than the upper limit for Sb	206.836	Recovery = 114.42%				
Se 196.026†	228.0	0.51535 mg/L	0.012428	0.51535 mg/L	0.012428	2.41%
QC value within limits for Se	196.026	Recovery = 103.07%				
Tl 190.801†	308.0	0.48626 mg/L	0.006169	0.48626 mg/L	0.006169	1.27%
QC value within limits for Tl	190.801	Recovery = 97.25%				
V 292.402†	285796.7	2.5661 mg/L	0.01953	2.5661 mg/L	0.01953	0.76%
QC value within limits for V	292.402	Recovery = 102.65%				
Zn 206.200†	50889.4	2.6006 mg/L	0.02020	2.6006 mg/L	0.02020	0.78%
QC value within limits for Zn	206.200	Recovery = 104.02%				
Cd 226.502†	12864.2	0.25260 mg/L	0.001576	0.25260 mg/L	0.001576	0.62%
QC value within limits for Cd	226.502	Recovery = 101.04%				
Ti 334.940†	247263.6	0.51657 mg/L	0.001387	0.51657 mg/L	0.001387	0.27%
QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca 227.546†	4563.6	24.649 mg/L	0.1320	24.649 mg/L	0.1320	0.54%
QC value within limits for Ca	227.546	Recovery = 98.60%				
Na 589.592†	116389.3	25.879 mg/L	0.4947	25.879 mg/L	0.4947	1.91%
QC value within limits for Na	589.592	Recovery = 103.52%				
K 766.490†	25832.3	26.215 mg/L	0.5812	26.215 mg/L	0.5812	2.22%
QC value within limits for K	766.490	Recovery = 104.86%				
QC Failed. Continue with analysis.						

Sequence No.: 34

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 4:11:50 PM

Data Type: Reprocessed on 8/31/2012 8:26:10 AM

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 360.073	1735080.8	99.356 %	0.3536			0.36%
Lu 261.542	1124670.9	99.09 %	0.492			0.50%
Ag 328.068†	-22.9	-0.00015 mg/L	0.000590	-0.00015 mg/L	0.000590	405.52%
QC value within limits for Ag	328.068	Recovery = Not calculated				
Al 308.215†	128.1	0.00690 mg/L	0.002044	0.00690 mg/L	0.002044	29.62%
QC value within limits for Al	308.215	Recovery = Not calculated				
As 188.979†	-1.0	-0.00127 mg/L	0.003236	-0.00127 mg/L	0.003236	254.89%
QC value within limits for As	188.979	Recovery = Not calculated				
Ba 233.527†	34.0	0.00044 mg/L	0.000077	0.00044 mg/L	0.000077	17.61%
QC value within limits for Ba	233.527	Recovery = Not calculated				
Be 313.107†	120.1	0.00005 mg/L	0.000028	0.00005 mg/L	0.000028	53.68%
QC value within limits for Be	313.107	Recovery = Not calculated				
Co 228.616†	9.5	0.00029 mg/L	0.000072	0.00029 mg/L	0.000072	24.97%
QC value within limits for Co	228.616	Recovery = Not calculated				
Cr 267.716†	9.2	0.00014 mg/L	0.000107	0.00014 mg/L	0.000107	74.22%
QC value within limits for Cr	267.716	Recovery = Not calculated				
Cu 324.752†	9.6	0.00005 mg/L	0.000333	0.00005 mg/L	0.000333	682.34%
QC value within limits for Cu	324.752	Recovery = Not calculated				

Fe 273.955†	40.5	0.00182 mg/L	0.000194	0.00182 mg/L	0.000194	10.62%
QC value within limits for Fe 273.955	Recovery = Not calculated					
Mg 279.077†	44.4	0.00277 mg/L	0.003309	0.00277 mg/L	0.003309	119.33%
QC value within limits for Mg 279.077	Recovery = Not calculated					
Mn 257.610†	71.0	0.00013 mg/L	0.000052	0.00013 mg/L	0.000052	39.69%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Ni 231.604†	8.7	0.00032 mg/L	0.000219	0.00032 mg/L	0.000219	68.27%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	4.9	0.00104 mg/L	0.000549	0.00104 mg/L	0.000549	53.02%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	1.9	0.00191 mg/L	0.004198	0.00191 mg/L	0.004198	220.24%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	2.2	0.00492 mg/L	0.010868	0.00492 mg/L	0.010868	220.77%
QC value within limits for Se 196.026	Recovery = Not calculated					
Tl 190.801†	-0.7	-0.00123 mg/L	0.003178	-0.00123 mg/L	0.003178	257.35%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	13.4	0.00012 mg/L	0.000360	0.00012 mg/L	0.000360	299.09%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 206.200†	20.5	0.00104 mg/L	0.000094	0.00104 mg/L	0.000094	8.98%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Cd 226.502†	1.7	0.00003 mg/L	0.000093	0.00003 mg/L	0.000093	278.35%
QC value within limits for Cd 226.502	Recovery = Not calculated					
Ti 334.940†	68.1	0.00014 mg/L	0.000034	0.00014 mg/L	0.000034	23.75%
QC value within limits for Ti 334.940	Recovery = Not calculated					
Ca 227.546†	-6.8	-0.03811 mg/L	0.085025	-0.03811 mg/L	0.085025	223.10%
QC value within limits for Ca 227.546	Recovery = Not calculated					
Na 589.592†	17.2	0.00383 mg/L	0.006588	0.00383 mg/L	0.006588	172.00%
QC value within limits for Na 589.592	Recovery = Not calculated					
K 766.490†	-34.3	-0.03480 mg/L	0.021703	-0.03480 mg/L	0.021703	62.36%
QC value within limits for K 766.490	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 35

Sample ID: L1808-04A~LMW-18F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 8/30/2012 4:15:32 PM

Data Type: Reprocessed on 8/31/2012 8:26:11 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-04A~LMW-18F

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1703972.2	97.574	%	0.3911				0.40%
Lu 261.542	1110141.4	97.81	%	0.499				0.51%
Ag 328.068†	-76.0	-0.00063	mg/L	0.000594	-0.00063	mg/L	0.000594	93.87%
Al 308.215†	3130.1	0.16430	mg/L	0.007256	0.16430	mg/L	0.007256	4.42%
As 188.979†	-1.0	-0.00089	mg/L	0.002453	-0.00089	mg/L	0.002453	275.77%
Ba 233.527†	5039.3	0.06479	mg/L	0.000350	0.06479	mg/L	0.000350	0.54%
Be 313.107†	85.8	0.00005	mg/L	0.000018	0.00005	mg/L	0.000018	38.34%
Co 228.616†	6.8	0.00019	mg/L	0.000238	0.00019	mg/L	0.000238	127.11%
Cr 267.716†	205.7	0.00309	mg/L	0.000154	0.00309	mg/L	0.000154	4.98%
Cu 324.752†	249.0	0.00128	mg/L	0.000289	0.00128	mg/L	0.000289	22.49%
Fe 273.955†	6153.2	0.27688	mg/L	0.003471	0.27688	mg/L	0.003471	1.25%
Mg 279.077†	58534.0	3.6535	mg/L	0.01749	3.6535	mg/L	0.01749	0.48%
Mn 257.610†	291740.5	0.53916	mg/L	0.001130	0.53916	mg/L	0.001130	0.21%
Ni 231.604†	40.3	0.00146	mg/L	0.000343	0.00146	mg/L	0.000343	23.44%
Pb 220.353†	3.4	0.00078	mg/L	0.001062	0.00078	mg/L	0.001062	135.47%
Sb 206.836†	2.5	0.00212	mg/L	0.002424	0.00212	mg/L	0.002424	114.35%
Se 196.026†	-0.7	-0.00141	mg/L	0.004007	-0.00141	mg/L	0.004007	283.64%
Tl 190.801†	1.5	0.00271	mg/L	0.002232	0.00271	mg/L	0.002232	82.24%
V 292.402†	37.9	0.00035	mg/L	0.000380	0.00035	mg/L	0.000380	109.40%
Zn 206.200†	152.6	0.00802	mg/L	0.000128	0.00802	mg/L	0.000128	1.59%
Cd 226.502†	-4.4	-0.00015	mg/L	0.000115	-0.00015	mg/L	0.000115	77.95%
Ti 334.940†	2814.9	0.00608	mg/L	0.000380	0.00608	mg/L	0.000380	6.26%
Ca 227.546†	2808.1	15.706	mg/L	0.1133	15.706	mg/L	0.1133	0.72%
Na 589.592†	116910.2	25.995	mg/L	0.0994	25.995	mg/L	0.0994	0.38%
K 766.490†	8589.8	8.7171	mg/L	0.05344	8.7171	mg/L	0.05344	0.61%

Sequence No.: 36

Sample ID: L1808-05A-LMW-19F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 114

Date Collected: 8/30/2012 4:19:14 PM

Data Type: Reprocessed on 8/31/2012 8:26:11 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-05A-LMW-19F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1762946.6	100.95	%	0.598				0.59%
Lu 261.542	1147926.8	101.1	%	0.64				0.63%
Ag 328.068†	-83.7	-0.00057	mg/L	0.000401	-0.00057	mg/L	0.000401	70.06%
Al 308.215†	58.4	0.00091	mg/L	0.003884	0.00091	mg/L	0.003884	428.21%
As 188.979†	-3.3	-0.00394	mg/L	0.003429	-0.00394	mg/L	0.003429	87.06%
Ba 233.527†	740.5	0.00952	mg/L	0.000129	0.00952	mg/L	0.000129	1.36%
Be 313.107†	151.0	0.00006	mg/L	0.000010	0.00006	mg/L	0.000010	14.97%
Co 228.616†	-4.4	-0.00013	mg/L	0.000273	-0.00013	mg/L	0.000273	204.42%
Cr 267.716†	19.6	0.00030	mg/L	0.000383	0.00030	mg/L	0.000383	126.20%
Cu 324.752†	76.7	0.00039	mg/L	0.000531	0.00039	mg/L	0.000531	136.88%
Fe 273.955†	140.1	0.00630	mg/L	0.000510	0.00630	mg/L	0.000510	8.09%
Mg 279.077†	62875.8	3.9245	mg/L	0.02930	3.9245	mg/L	0.02930	0.75%
Mn 257.610†	1735.0	0.00317	mg/L	0.000058	0.00317	mg/L	0.000058	1.82%
Ni 231.604†	6.0	0.00020	mg/L	0.000376	0.00020	mg/L	0.000376	185.10%
Pb 220.353†	5.4	0.00114	mg/L	0.001069	0.00114	mg/L	0.001069	93.53%
Sb 206.836†	-1.0	-0.00117	mg/L	0.003478	-0.00117	mg/L	0.003478	298.51%
Se 196.026†	3.6	0.00810	mg/L	0.006801	0.00810	mg/L	0.006801	83.97%
Tl 190.801†	-1.0	-0.00156	mg/L	0.001522	-0.00156	mg/L	0.001522	97.47%
V 292.402†	-61.7	-0.00055	mg/L	0.000230	-0.00055	mg/L	0.000230	41.58%
Zn 206.200†	81.8	0.00417	mg/L	0.000103	0.00417	mg/L	0.000103	2.47%
Cd 226.502†	-0.8	-0.00004	mg/L	0.000062	-0.00004	mg/L	0.000062	148.24%
Ti 334.940†	-104.6	-0.00012	mg/L	0.000089	-0.00012	mg/L	0.000089	73.40%
Ca 227.546†	1798.5	10.061	mg/L	0.1254	10.061	mg/L	0.1254	1.25%
Na 589.592†	61627.2	13.703	mg/L	0.1661	13.703	mg/L	0.1661	1.21%
K 766.490†	854.2	0.86687	mg/L	0.106782	0.86687	mg/L	0.106782	12.32%

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Sequence No.: 37

Sample ID: L1808-06A-LMW-12F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 115

Date Collected: 8/30/2012 4:22:56 PM

Data Type: Reprocessed on 8/31/2012 8:26:12 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06A-LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1736391.0	99.431	%	0.4290				0.43%
Lu 261.542	1130851.7	99.63	%	0.486				0.49%
Ag 328.068†	-57.4	-0.00042	mg/L	0.000239	-0.00042	mg/L	0.000239	56.66%
Al 308.215†	647.5	0.02880	mg/L	0.006131	0.02880	mg/L	0.006131	21.29%
As 188.979†	-2.6	-0.00235	mg/L	0.002131	-0.00235	mg/L	0.002131	90.48%
Ba 233.527†	3747.1	0.04817	mg/L	0.000690	0.04817	mg/L	0.000690	1.43%
Be 313.107†	71.6	0.00003	mg/L	0.000015	0.00003	mg/L	0.000015	48.08%
Co 228.616†	0.9	0.00003	mg/L	0.000210	0.00003	mg/L	0.000210	819.45%
Cr 267.716†	-0.7	-0.00001	mg/L	0.000733	-0.00001	mg/L	0.000733	>999.9%
Cu 324.752†	329.6	0.00167	mg/L	0.000297	0.00167	mg/L	0.000297	17.81%
Fe 273.955†	867.3	0.03903	mg/L	0.000742	0.03903	mg/L	0.000742	1.90%
Mg 279.077†	89688.6	5.5980	mg/L	0.01253	5.5980	mg/L	0.01253	0.22%
Mn 257.610†	4487.8	0.00824	mg/L	0.000034	0.00824	mg/L	0.000034	0.42%
Ni 231.604†	55.4	0.00201	mg/L	0.000204	0.00201	mg/L	0.000204	10.15%
Pb 220.353†	7.2	0.00153	mg/L	0.000839	0.00153	mg/L	0.000839	54.82%
Sb 206.836†	0.2	-0.00022	mg/L	0.002068	-0.00022	mg/L	0.002068	920.86%
Se 196.026†	0.6	0.00137	mg/L	0.008055	0.00137	mg/L	0.008055	589.91%
Tl 190.801†	2.2	0.00387	mg/L	0.000217	0.00387	mg/L	0.000217	5.61%
V 292.402†	43.9	0.00039	mg/L	0.000494	0.00039	mg/L	0.000494	125.55%
Zn 206.200†	1095.5	0.05587	mg/L	0.000291	0.05587	mg/L	0.000291	0.52%
Cd 226.502†	477.1	0.00928	mg/L	0.000039	0.00928	mg/L	0.000039	0.42%
Ti 334.940†	380.3	0.00118	mg/L	0.000426	0.00118	mg/L	0.000426	36.13%

Ca 227.546†	5174.6	28.949 mg/L	0.2862	28.949 mg/L	0.2862	0.99%
Na 589.592†	73013.9	16.234 mg/L	0.0723	16.234 mg/L	0.0723	0.45%
K 766.490†	2924.3	2.9676 mg/L	0.04799	2.9676 mg/L	0.04799	1.62%

Sequence No.: 38

Sample ID: L1808-06ADUP~LMW-12FD

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 116

Date Collected: 8/30/2012 4:26:39 PM

Data Type: Reprocessed on 8/31/2012 8:26:13 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06ADUP~LMW-12FD

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1725302.4	98.796 %		0.6287			0.64%
Lu 261.542	1123657.5	99.00 %		0.566			0.57%
Ag 328.068†	-123.5	-0.00084 mg/L		0.000263	-0.00084 mg/L	0.000263	31.35%
Al 308.215†	703.3	0.03191 mg/L		0.002508	0.03191 mg/L	0.002508	7.86%
As 188.979†	-4.3	-0.00471 mg/L		0.002831	-0.00471 mg/L	0.002831	60.14%
Ba 233.527†	3672.4	0.04721 mg/L		0.000297	0.04721 mg/L	0.000297	0.63%
Be 313.107†	18.4	0.00001 mg/L		0.000008	0.00001 mg/L	0.000008	98.62%
Co 228.616†	0.6	0.00002 mg/L		0.000097	0.00002 mg/L	0.000097	592.12%
Cr 267.716†	36.8	0.00057 mg/L		0.000296	0.00057 mg/L	0.000296	51.85%
Cu 324.752†	327.6	0.00166 mg/L		0.000612	0.00166 mg/L	0.000612	36.90%
Fe 273.955†	772.0	0.03474 mg/L		0.001365	0.03474 mg/L	0.001365	3.93%
Mg 279.077†	88365.4	5.5155 mg/L		0.04076	5.5155 mg/L	0.04076	0.74%
Mn 257.610†	4626.7	0.00850 mg/L		0.000118	0.00850 mg/L	0.000118	1.38%
Ni 231.604†	62.0	0.00226 mg/L		0.000286	0.00226 mg/L	0.000286	12.69%
Pb 220.353†	5.5	0.00117 mg/L		0.000716	0.00117 mg/L	0.000716	60.92%
Sb 206.836†	-4.0	-0.00438 mg/L		0.003397	-0.00438 mg/L	0.003397	77.56%
Se 196.026†	3.2	0.00710 mg/L		0.004207	0.00710 mg/L	0.004207	59.22%
Tl 190.801†	0.0	0.00021 mg/L		0.002483	0.00021 mg/L	0.002483	>999.9%
V 292.402†	83.2	0.00075 mg/L		0.000517	0.00075 mg/L	0.000517	69.10%
Zn 206.200†	1078.0	0.05498 mg/L		0.000562	0.05498 mg/L	0.000562	1.02%
Cd 226.502†	469.8	0.00914 mg/L		0.000138	0.00914 mg/L	0.000138	1.51%
Ti 334.940†	175.1	0.00074 mg/L		0.000053	0.00074 mg/L	0.000053	7.09%
Ca 227.546†	5083.1	28.438 mg/L		0.2738	28.438 mg/L	0.2738	0.96%
Na 589.592†	71187.5	15.828 mg/L		0.1816	15.828 mg/L	0.1816	1.15%
K 766.490†	2909.1	2.9523 mg/L		0.08348	2.9523 mg/L	0.08348	2.83%

Sequence No.: 39

Sample ID: L1808-06AMS~LMW-12FS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 117

Date Collected: 8/30/2012 4:30:21 PM

Data Type: Reprocessed on 8/31/2012 8:26:13 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06AMS~LMW-12FS

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1708707.8	97.845 %		0.5519			0.56%
Lu 261.542	1112816.6	98.04 %		0.455			0.46%
Ag 328.068†	187801.3	1.1962 mg/L		0.00825	1.1962 mg/L	0.00825	0.69%
Al 308.215†	179711.4	9.6560 mg/L		0.07318	9.6560 mg/L	0.07318	0.76%
As 188.979†	376.4	0.50624 mg/L		0.000907	0.50624 mg/L	0.000907	0.18%
Ba 233.527†	770397.7	9.9077 mg/L		0.01938	9.9077 mg/L	0.01938	0.20%
Be 313.107†	567289.9	0.24358 mg/L		0.000206	0.24358 mg/L	0.000206	0.08%
Co 228.616†	79284.2	2.4043 mg/L		0.01560	2.4043 mg/L	0.01560	0.65%
Cr 267.716†	62084.5	0.96686 mg/L		0.006061	0.96686 mg/L	0.006061	0.63%
Cu 324.752†	237112.6	1.1984 mg/L		0.00897	1.1984 mg/L	0.00897	0.75%
Fe 273.955†	108946.6	4.9064 mg/L		0.03701	4.9064 mg/L	0.03701	0.75%
Mg 279.077†	476041.8	29.710 mg/L		0.0300	29.710 mg/L	0.0300	0.10%
Mn 257.610†	1312064.3	2.4246 mg/L		0.00031	2.4246 mg/L	0.00031	0.01%
Ni 231.604†	65651.7	2.4160 mg/L		0.01782	2.4160 mg/L	0.01782	0.74%
Pb 220.353†	2293.8	0.48932 mg/L		0.004294	0.48932 mg/L	0.004294	0.88%
Sb 206.836†	551.1	0.52475 mg/L		0.009224	0.52475 mg/L	0.009224	1.76%
Se 196.026†	220.3	0.49750 mg/L		0.010514	0.49750 mg/L	0.010514	2.11%

Tl 190.801†	293.8	0.46472 mg/L	0.006332	0.46472 mg/L	0.006332	1.36%
V 292.402†	267681.7	2.4042 mg/L	0.01648	2.4042 mg/L	0.01648	0.69%
Zn 206.200†	47812.4	2.4429 mg/L	0.01849	2.4429 mg/L	0.01849	0.76%
Cd 226.502†	12790.0	0.25104 mg/L	0.001988	0.25104 mg/L	0.001988	0.79%
Ti 334.940†	437.4	0.00105 mg/L	0.000011	0.00105 mg/L	0.000011	1.01%
Ca 227.546†	9540.4	52.572 mg/L	0.3745	52.572 mg/L	0.3745	0.71%
Na 589.592†	184530.3	41.030 mg/L	0.3839	41.030 mg/L	0.3839	0.94%
K 766.490†	27551.7	27.960 mg/L	0.2260	27.960 mg/L	0.2260	0.81%

Sequence No.: 40

Sample ID: L1808-06ASD~LMW-12F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 118

Date Collected: 8/30/2012 4:34:06 PM

Data Type: Reprocessed on 8/31/2012 8:26:14 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06ASD~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1802115.7	103.19	%	1.093				1.06%
Lu 261.542	1172748.9	103.3	%	1.07				1.04%
Ag 328.068†	-162.8	-0.00104 mg/L		0.000643	-0.00104 mg/L		0.000643	61.56%
Al 308.215†	139.7	0.00635 mg/L		0.001321	0.00635 mg/L		0.001321	20.79%
As 188.979†	0.2	0.00041 mg/L		0.001419	0.00041 mg/L		0.001419	345.02%
Ba 233.527†	767.8	0.00987 mg/L		0.000049	0.00987 mg/L		0.000049	0.49%
Be 313.107†	117.7	0.00005 mg/L		0.000021	0.00005 mg/L		0.000021	42.23%
Co 228.616†	4.0	0.00012 mg/L		0.000095	0.00012 mg/L		0.000095	78.93%
Cr 267.716†	33.6	0.00052 mg/L		0.000067	0.00052 mg/L		0.000067	12.89%
Cu 324.752†	-78.3	-0.00039 mg/L		0.000161	-0.00039 mg/L		0.000161	40.70%
Fe 273.955†	177.8	0.00800 mg/L		0.000334	0.00800 mg/L		0.000334	4.18%
Mg 279.077†	18190.8	1.1354 mg/L		0.00387	1.1354 mg/L		0.00387	0.34%
Mn 257.610†	937.0	0.00172 mg/L		0.000098	0.00172 mg/L		0.000098	5.69%
Ni 231.604†	26.1	0.00096 mg/L		0.000346	0.00096 mg/L		0.000346	36.23%
Pb 220.353†	2.9	0.00062 mg/L		0.000325	0.00062 mg/L		0.000325	52.32%
Sb 206.836†	-0.7	-0.00077 mg/L		0.002186	-0.00077 mg/L		0.002186	283.70%
Se 196.026†	2.8	0.00630 mg/L		0.008218	0.00630 mg/L		0.008218	130.49%
Tl 190.801†	1.2	0.00198 mg/L		0.000789	0.00198 mg/L		0.000789	39.90%
V 292.402†	19.8	0.00018 mg/L		0.000488	0.00018 mg/L		0.000488	272.72%
Zn 206.200†	224.3	0.01144 mg/L		0.000113	0.01144 mg/L		0.000113	0.99%
Cd 226.502†	94.1	0.00183 mg/L		0.000050	0.00183 mg/L		0.000050	2.75%
Ti 334.940†	9.4	0.00009 mg/L		0.000021	0.00009 mg/L		0.000021	22.85%
Ca 227.546†	993.1	5.5558 mg/L		0.02868	5.5558 mg/L		0.02868	0.52%
Na 589.592†	14279.8	3.1751 mg/L		0.04100	3.1751 mg/L		0.04100	1.29%
K 766.490†	589.2	0.59793 mg/L		0.018082	0.59793 mg/L		0.018082	3.02%

Sequence No.: 41

Sample ID: L1808-06APDS~LMW-12F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 119

Date Collected: 8/30/2012 4:37:48 PM

Data Type: Reprocessed on 8/31/2012 8:26:15 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06APDS~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1692770.4	96.933	%	0.4300				0.44%
Lu 261.542	1101526.4	97.05	%	0.343				0.35%
Ag 328.068†	183506.9	1.1689 mg/L		0.00223	1.1689 mg/L		0.00223	0.19%
Al 308.215†	175370.2	9.4227 mg/L		0.02434	9.4227 mg/L		0.02434	0.26%
As 188.979†	354.1	0.47665 mg/L		0.006535	0.47665 mg/L		0.006535	1.37%
Ba 233.527†	752448.9	9.6768 mg/L		0.02937	9.6768 mg/L		0.02937	0.30%
Be 313.107†	551854.0	0.23695 mg/L		0.000576	0.23695 mg/L		0.000576	0.24%
Co 228.616†	77608.9	2.3535 mg/L		0.00635	2.3535 mg/L		0.00635	0.27%
Cr 267.716†	60688.6	0.94513 mg/L		0.002078	0.94513 mg/L		0.002078	0.22%
Cu 324.752†	232279.8	1.1740 mg/L		0.00332	1.1740 mg/L		0.00332	0.28%
Fe 273.955†	106618.8	4.8015 mg/L		0.01516	4.8015 mg/L		0.01516	0.32%
Mg 279.077†	464202.5	28.972 mg/L		0.0901	28.972 mg/L		0.0901	0.31%

Mn 257.610†	1276563.2	2.3589 mg/L	0.00674	2.3589 mg/L	0.00674	0.29%
Ni 231.604†	64293.9	2.3660 mg/L	0.00444	2.3660 mg/L	0.00444	0.19%
Pb 220.353†	2180.5	0.46520 mg/L	0.002856	0.46520 mg/L	0.002856	0.61%
Sb 206.836†	506.9	0.48165 mg/L	0.003249	0.48165 mg/L	0.003249	0.67%
Se 196.026†	208.8	0.47163 mg/L	0.011432	0.47163 mg/L	0.011432	2.42%
Tl 190.801†	287.9	0.45537 mg/L	0.003566	0.45537 mg/L	0.003566	0.78%
V 292.402†	262609.5	2.3586 mg/L	0.00412	2.3586 mg/L	0.00412	0.17%
Zn 206.200†	46596.5	2.3808 mg/L	0.00954	2.3808 mg/L	0.00954	0.40%
Cd 226.502†	12084.9	0.23720 mg/L	0.000157	0.23720 mg/L	0.000157	0.07%
Ti 334.940†	413.9	0.00101 mg/L	0.000086	0.00101 mg/L	0.000086	8.59%
Ca 227.546†	9380.6	51.696 mg/L	0.1367	51.696 mg/L	0.1367	0.26%
Na 589.592†	180490.2	40.132 mg/L	0.3575	40.132 mg/L	0.3575	0.89%
K 766.490†	26862.0	27.260 mg/L	0.3006	27.260 mg/L	0.3006	1.10%

Sequence No.: 42

Sample ID: L1808-07A~LMW-14F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 120

Date Collected: 8/30/2012 4:41:33 PM

Data Type: Reprocessed on 8/31/2012 8:26:16 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-07A~LMW-14F

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1758529.1	100.70 %		0.539			0.54%
Lu 261.542	1142796.7	100.7 %		0.62			0.62%
Ag 328.068†	-127.0	-0.00087 mg/L		0.000347	-0.00087 mg/L	0.000347	39.78%
Al 308.215†	17771.2	0.95369 mg/L		0.007939	0.95369 mg/L	0.007939	0.83%
As 188.979†	-2.7	-0.00229 mg/L		0.006991	-0.00229 mg/L	0.006991	305.85%
Ba 233.527†	3369.3	0.04332 mg/L		0.000670	0.04332 mg/L	0.000670	1.55%
Be 313.107†	-41.3	0.00005 mg/L		0.000010	0.00005 mg/L	0.000010	18.71%
Co 228.616†	21.6	0.00054 mg/L		0.000186	0.00054 mg/L	0.000186	34.56%
Cr 267.716†	5666.8	0.08819 mg/L		0.001149	0.08819 mg/L	0.001149	1.30%
Cu 324.752†	1407.4	0.00722 mg/L		0.000235	0.00722 mg/L	0.000235	3.26%
Fe 273.955†	26129.9	1.1758 mg/L		0.00877	1.1758 mg/L	0.00877	0.75%
Mg 279.077†	39638.2	2.4739 mg/L		0.02083	2.4739 mg/L	0.02083	0.84%
Mn 257.610†	114408.0	0.21142 mg/L		0.001820	0.21142 mg/L	0.001820	0.86%
Ni 231.604†	167.6	0.00614 mg/L		0.000167	0.00614 mg/L	0.000167	2.73%
Pb 220.353†	61.6	0.01323 mg/L		0.001075	0.01323 mg/L	0.001075	8.12%
Sb 206.836†	5.9	0.00403 mg/L		0.005267	0.00403 mg/L	0.005267	130.86%
Se 196.026†	0.0	0.00066 mg/L		0.008494	0.00066 mg/L	0.008494	>999.9%
Tl 190.801†	-2.4	-0.00368 mg/L		0.000297	-0.00368 mg/L	0.000297	8.09%
V 292.402†	232.9	0.00227 mg/L		0.000208	0.00227 mg/L	0.000208	9.14%
Zn 206.200†	492.9	0.02547 mg/L		0.000430	0.02547 mg/L	0.000430	1.69%
Cd 226.502†	192.5	0.00366 mg/L		0.000087	0.00366 mg/L	0.000087	2.37%
Ti 334.940†	17959.5	0.03767 mg/L		0.001508	0.03767 mg/L	0.001508	4.00%
Ca 227.546†	1955.5	10.929 mg/L		0.0652	10.929 mg/L	0.0652	0.60%
Na 589.592†	69373.4	15.425 mg/L		0.1872	15.425 mg/L	0.1872	1.21%
K 766.490†	4111.6	4.1725 mg/L		0.12190	4.1725 mg/L	0.12190	2.92%

Sequence No.: 43

Sample ID: L1808-08A~LMW-21F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 121

Date Collected: 8/30/2012 4:45:15 PM

Data Type: Reprocessed on 8/31/2012 8:26:16 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-08A~LMW-21F

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1729621.5	99.043 %		2.2367			2.26%
Lu 261.542	1126495.2	99.25 %		2.223			2.24%
Ag 328.068†	-58.3	-0.00044 mg/L		0.000608	-0.00044 mg/L	0.000608	137.95%
Al 308.215†	225.0	0.00886 mg/L		0.003879	0.00886 mg/L	0.003879	43.78%
As 188.979†	-0.7	-0.00030 mg/L		0.005339	-0.00030 mg/L	0.005339	>999.9%
Ba 233.527†	6683.1	0.08592 mg/L		0.002516	0.08592 mg/L	0.002516	2.93%
Be 313.107†	77.1	0.00003 mg/L		0.000013	0.00003 mg/L	0.000013	39.27%

Co 228.616†	2.5	0.00008 mg/L	0.000118	0.00008 mg/L	0.000118	155.08%
Cr 267.716†	684.7	0.01065 mg/L	0.000506	0.01065 mg/L	0.000506	4.75%
Cu 324.752†	132.1	0.00067 mg/L	0.000883	0.00067 mg/L	0.000883	132.03%
Fe 273.955†	453.6	0.02041 mg/L	0.001736	0.02041 mg/L	0.001736	8.51%
Mg 279.077†	93236.4	5.8195 mg/L	0.18890	5.8195 mg/L	0.18890	3.25%
Mn 257.610†	30721.9	0.05672 mg/L	0.001883	0.05672 mg/L	0.001883	3.32%
Ni 231.604†	66.1	0.00241 mg/L	0.000182	0.00241 mg/L	0.000182	7.57%
Pb 220.353†	2.1	0.00044 mg/L	0.000930	0.00044 mg/L	0.000930	210.25%
Sb 206.836†	4.4	0.00383 mg/L	0.004972	0.00383 mg/L	0.004972	129.95%
Se 196.026†	-1.3	-0.00289 mg/L	0.016891	-0.00289 mg/L	0.016891	583.92%
Tl 190.801†	-1.8	-0.00276 mg/L	0.003922	-0.00276 mg/L	0.003922	142.24%
V 292.402†	-39.8	-0.00033 mg/L	0.000289	-0.00033 mg/L	0.000289	86.90%
Zn 206.200†	115.9	0.00595 mg/L	0.000366	0.00595 mg/L	0.000366	6.16%
Cd 226.502†	-2.0	-0.00008 mg/L	0.000069	-0.00008 mg/L	0.000069	89.86%
Ti 334.940†	-167.3	-0.00022 mg/L	0.000107	-0.00022 mg/L	0.000107	48.56%
Ca 227.546†	2530.5	14.155 mg/L	0.3479	14.155 mg/L	0.3479	2.46%
Na 589.592†	87254.4	19.401 mg/L	0.5037	19.401 mg/L	0.5037	2.60%
K 766.490†	6943.5	7.0464 mg/L	0.18162	7.0464 mg/L	0.18162	2.58%

Sequence No.: 44

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 4:48:58 PM

Data Type: Reprocessed on 8/31/2012 8:26:17 AM

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 360.073	1735591.6	99.385 %	0.2013			0.20%
Lu 261.542	1131918.9	99.73 %	0.176			0.18%
Ag 328.068†	195690.4	1.2465 mg/L	0.00202	1.2465 mg/L	0.00202	0.16%
QC value within limits for Ag	328.068	Recovery = 99.72%				
Al 308.215†	184670.1	9.9276 mg/L	0.01565	9.9276 mg/L	0.01565	0.16%
QC value within limits for Al	308.215	Recovery = 99.28%				
As 188.979†	372.2	0.50010 mg/L	0.008074	0.50010 mg/L	0.008074	1.61%
QC value within limits for As	188.979	Recovery = 100.02%				
Ba 233.527†	819260.1	10.536 mg/L	0.0583	10.536 mg/L	0.0583	0.55%
QC value within limits for Ba	233.527	Recovery = 105.36%				
Be 313.107†	583854.7	0.25164 mg/L	0.001229	0.25164 mg/L	0.001229	0.49%
QC value within limits for Be	313.107	Recovery = 100.66%				
Co 228.616†	85237.8	2.5837 mg/L	0.00685	2.5837 mg/L	0.00685	0.26%
QC value within limits for Co	228.616	Recovery = 103.35%				
Cr 267.716†	63956.8	0.99602 mg/L	0.001814	0.99602 mg/L	0.001814	0.18%
QC value within limits for Cr	267.716	Recovery = 99.60%				
Cu 324.752†	245868.7	1.2427 mg/L	0.00286	1.2427 mg/L	0.00286	0.23%
QC value within limits for Cu	324.752	Recovery = 99.42%				
Fe 273.955†	112662.4	5.0737 mg/L	0.01134	5.0737 mg/L	0.01134	0.22%
QC value within limits for Fe	273.955	Recovery = 101.47%				
Mg 279.077†	411136.2	25.659 mg/L	0.1320	25.659 mg/L	0.1320	0.51%
QC value within limits for Mg	279.077	Recovery = 102.64%				
Mn 257.610†	1385969.2	2.5612 mg/L	0.01148	2.5612 mg/L	0.01148	0.45%
QC value within limits for Mn	257.610	Recovery = 102.45%				
Ni 231.604†	69628.2	2.5620 mg/L	0.00548	2.5620 mg/L	0.00548	0.21%
QC value within limits for Ni	231.604	Recovery = 102.48%				
Pb 220.353†	2365.7	0.50518 mg/L	0.003011	0.50518 mg/L	0.003011	0.60%
QC value within limits for Pb	220.353	Recovery = 101.04%				
Sb 206.836†	595.5	0.56964 mg/L	0.007111	0.56964 mg/L	0.007111	1.25%
QC value greater than the upper limit for Sb	206.836	Recovery = 113.93%				
Se 196.026†	222.4	0.50265 mg/L	0.010550	0.50265 mg/L	0.010550	2.10%
QC value within limits for Se	196.026	Recovery = 100.53%				
Tl 190.801†	306.5	0.48433 mg/L	0.001506	0.48433 mg/L	0.001506	0.31%
QC value within limits for Tl	190.801	Recovery = 96.87%				
V 292.402†	280191.8	2.5158 mg/L	0.00589	2.5158 mg/L	0.00589	0.23%
QC value within limits for V	292.402	Recovery = 100.63%				
Zn 206.200†	49508.4	2.5301 mg/L	0.00602	2.5301 mg/L	0.00602	0.24%
QC value within limits for Zn	206.200	Recovery = 101.20%				
Cd 226.502†	12495.9	0.24537 mg/L	0.001211	0.24537 mg/L	0.001211	0.49%
QC value within limits for Cd	226.502	Recovery = 98.15%				

Ti 334.940† 247703.7 0.51749 mg/L 0.003920 0.51749 mg/L 0.003920 0.76%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 4521.6 24.435 mg/L 0.0570 24.435 mg/L 0.0570 0.23%
 QC value within limits for Ca 227.546 Recovery = 97.74%
 Na 589.592† 114242.1 25.401 mg/L 0.1979 25.401 mg/L 0.1979 0.78%
 QC value within limits for Na 589.592 Recovery = 101.61%
 K 766.490† 25103.0 25.475 mg/L 0.2340 25.475 mg/L 0.2340 0.92%
 QC value within limits for K 766.490 Recovery = 101.90%
 QC Failed. Continue with analysis.

Sequence No.: 45

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 4:52:41 PM

Data Type: Reprocessed on 8/31/2012 8:26:18 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1789314.6	102.46 %		0.205			0.20%
Lu 261.542	1160222.2	102.2 %		0.22			0.22%
Ag 328.068†	62.8	0.00040 mg/L		0.000489	0.00040 mg/L	0.000489	122.78%
QC value within limits for Ag 328.068							
Al 308.215†	90.6	0.00487 mg/L		0.001538	0.00487 mg/L	0.001538	31.58%
QC value within limits for Al 308.215							
As 188.979†	-0.4	-0.00046 mg/L		0.002262	-0.00046 mg/L	0.002262	487.10%
QC value within limits for As 188.979							
Ba 233.527†	48.4	0.00062 mg/L		0.000030	0.00062 mg/L	0.000030	4.79%
QC value within limits for Ba 233.527							
Be 313.107†	85.7	0.00004 mg/L		0.000025	0.00004 mg/L	0.000025	68.20%
QC value within limits for Be 313.107							
Co 228.616†	6.5	0.00020 mg/L		0.000156	0.00020 mg/L	0.000156	79.77%
QC value within limits for Co 228.616							
Cr 267.716†	-6.1	-0.00010 mg/L		0.000449	-0.00010 mg/L	0.000449	469.02%
QC value within limits for Cr 267.716							
Cu 324.752†	-67.0	-0.00034 mg/L		0.000359	-0.00034 mg/L	0.000359	106.02%
QC value within limits for Cu 324.752							
Fe 273.955†	55.1	0.00248 mg/L		0.001084	0.00248 mg/L	0.001084	43.71%
QC value within limits for Fe 273.955							
Mg 279.077†	110.1	0.00688 mg/L		0.001450	0.00688 mg/L	0.001450	21.08%
QC value within limits for Mg 279.077							
Mn 257.610†	88.3	0.00016 mg/L		0.000066	0.00016 mg/L	0.000066	40.43%
QC value within limits for Mn 257.610							
Ni 231.604†	10.4	0.00038 mg/L		0.000186	0.00038 mg/L	0.000186	48.73%
QC value within limits for Ni 231.604							
Pb 220.353†	-4.4	-0.00094 mg/L		0.001854	-0.00094 mg/L	0.001854	196.63%
QC value within limits for Pb 220.353							
Sb 206.836†	1.8	0.00180 mg/L		0.001725	0.00180 mg/L	0.001725	95.61%
QC value within limits for Sb 206.836							
Se 196.026†	0.5	0.00106 mg/L		0.008053	0.00106 mg/L	0.008053	762.23%
QC value within limits for Se 196.026							
Tl 190.801†	-0.5	-0.00083 mg/L		0.003049	-0.00083 mg/L	0.003049	365.90%
QC value within limits for Tl 190.801							
V 292.402†	-28.2	-0.00025 mg/L		0.000068	-0.00025 mg/L	0.000068	26.81%
QC value within limits for V 292.402							
Zn 206.200†	17.8	0.00091 mg/L		0.000028	0.00091 mg/L	0.000028	3.09%
QC value within limits for Zn 206.200							
Cd 226.502†	-4.1	-0.00008 mg/L		0.000089	-0.00008 mg/L	0.000089	109.27%
QC value within limits for Cd 226.502							
Ti 334.940†	51.4	0.00011 mg/L		0.000071	0.00011 mg/L	0.000071	65.33%
QC value within limits for Ti 334.940							
Ca 227.546†	5.3	0.02954 mg/L		0.036660	0.02954 mg/L	0.036660	124.11%
QC value within limits for Ca 227.546							
Na 589.592†	-12.7	-0.00282 mg/L		0.010423	-0.00282 mg/L	0.010423	369.29%
QC value within limits for Na 589.592							
K 766.490†	1.7	0.00168 mg/L		0.031655	0.00168 mg/L	0.031655	>999.9%
QC value within limits for K 766.490							

All analyte(s) passed QC.

Sequence No.: 46
 Sample ID: MB-67911~PBW
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 122
 Date Collected: 8/30/2012 4:56:23 PM
 Data Type: Reprocessed on 8/31/2012 8:26:18 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: MB-67911~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1840859.7	105.41	%	0.940				0.89%
Lu 261.542	1194913.0	105.3	%	1.00				0.95%
Ag 328.068†	-109.5	-0.00070	mg/L	0.000094	-0.00070	mg/L	0.000094	13.51%
Al 308.215†	-49.6	-0.00266	mg/L	0.002397	-0.00266	mg/L	0.002397	90.10%
As 188.979†	-1.2	-0.00163	mg/L	0.000497	-0.00163	mg/L	0.000497	30.43%
Ba 233.527†	5.9	0.00007	mg/L	0.000086	0.00007	mg/L	0.000086	115.42%
Be 313.107†	16.7	0.00001	mg/L	0.000014	0.00001	mg/L	0.000014	189.84%
Co 228.616†	-0.2	-0.00001	mg/L	0.000293	-0.00001	mg/L	0.000293	>999.9%
Cr 267.716†	-8.9	-0.00014	mg/L	0.000068	-0.00014	mg/L	0.000068	48.87%
Cu 324.752†	-63.4	-0.00032	mg/L	0.000360	-0.00032	mg/L	0.000360	112.62%
Fe 273.955†	28.2	0.00127	mg/L	0.000278	0.00127	mg/L	0.000278	21.92%
Mg 279.077†	86.6	0.00541	mg/L	0.002102	0.00541	mg/L	0.002102	38.89%
Mn 257.610†	-8.1	-0.00002	mg/L	0.000020	-0.00002	mg/L	0.000020	130.27%
Ni 231.604†	12.8	0.00047	mg/L	0.000146	0.00047	mg/L	0.000146	31.01%
Pb 220.353†	-1.5	-0.00032	mg/L	0.001170	-0.00032	mg/L	0.001170	365.17%
Sb 206.836†	0.1	0.00007	mg/L	0.005027	0.00007	mg/L	0.005027	>999.9%
Se 196.026†	0.1	0.00027	mg/L	0.009078	0.00027	mg/L	0.009078	>999.9%
Tl 190.801†	-0.7	-0.00123	mg/L	0.005367	-0.00123	mg/L	0.005367	436.42%
V 292.402†	-45.0	-0.00040	mg/L	0.000107	-0.00040	mg/L	0.000107	26.53%
Zn 206.200†	5.7	0.00029	mg/L	0.000184	0.00029	mg/L	0.000184	63.12%
Cd 226.502†	0.9	0.00002	mg/L	0.000065	0.00002	mg/L	0.000065	364.68%
Ti 334.940†	1.1	0.00000	mg/L	0.000041	0.00000	mg/L	0.000041	>999.9%
Ca 227.546†	-7.2	-0.04031	mg/L	0.060287	-0.04031	mg/L	0.060287	149.55%
Na 589.592†	75.1	0.01669	mg/L	0.016559	0.01669	mg/L	0.016559	99.19%
K 766.490†	-13.3	-0.01347	mg/L	0.031621	-0.01347	mg/L	0.031621	234.71%

Sequence No.: 47
 Sample ID: LCS-67911~LCS
 Analyst:
 Logged In Analyst (Original) : mitOptima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 123
 Date Collected: 8/30/2012 5:00:06 PM
 Data Type: Reprocessed on 8/31/2012 8:26:19 AM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: LCS-67911~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1725512.1	98.808	%	0.7133				0.72%
Lu 261.542	1125374.7	99.15	%	0.700				0.71%
Ag 328.068†	147516.4	0.94024	mg/L	0.004920	0.94024	mg/L	0.004920	0.52%
Al 308.215†	170678.3	9.1763	mg/L	0.07666	9.1763	mg/L	0.07666	0.84%
As 188.979†	356.9	0.47910	mg/L	0.002793	0.47910	mg/L	0.002793	0.58%
Ba 233.527†	743118.3	9.5568	mg/L	0.10144	9.5568	mg/L	0.10144	1.06%
Be 313.107†	540092.2	0.23190	mg/L	0.002538	0.23190	mg/L	0.002538	1.09%
Co 228.616†	76037.3	2.3058	mg/L	0.02025	2.3058	mg/L	0.02025	0.88%
Cr 267.716†	58897.5	0.91722	mg/L	0.007994	0.91722	mg/L	0.007994	0.87%
Cu 324.752†	221862.0	1.1214	mg/L	0.00973	1.1214	mg/L	0.00973	0.87%
Fe 273.955†	102592.8	4.6202	mg/L	0.04049	4.6202	mg/L	0.04049	0.88%
Mg 279.077†	373944.8	23.338	mg/L	0.2824	23.338	mg/L	0.2824	1.21%
Mn 257.610†	1252447.2	2.3144	mg/L	0.02682	2.3144	mg/L	0.02682	1.16%
Ni 231.604†	62900.4	2.3147	mg/L	0.01960	2.3147	mg/L	0.01960	0.85%
Pb 220.353†	2205.7	0.47053	mg/L	0.005283	0.47053	mg/L	0.005283	1.12%
Sb 206.836†	528.1	0.50345	mg/L	0.011551	0.50345	mg/L	0.011551	2.29%
Se 196.026†	212.1	0.47890	mg/L	0.003598	0.47890	mg/L	0.003598	0.75%
Tl 190.801†	292.1	0.46295	mg/L	0.006753	0.46295	mg/L	0.006753	1.46%
V 292.402†	252940.5	2.2718	mg/L	0.01807	2.2718	mg/L	0.01807	0.80%
Zn 206.200†	45137.9	2.3063	mg/L	0.01814	2.3063	mg/L	0.01814	0.79%

Cd 226.502†	11785.6	0.23141 mg/L	0.001687	0.23141 mg/L	0.001687	0.73%
Ti 334.940†	286.2	0.00035 mg/L	0.000026	0.00035 mg/L	0.000026	7.40%
Ca 227.546†	4135.7	22.370 mg/L	0.1732	22.370 mg/L	0.1732	0.77%
Na 589.592†	103816.3	23.083 mg/L	0.1405	23.083 mg/L	0.1405	0.61%
K 766.490†	22853.5	23.192 mg/L	0.1210	23.192 mg/L	0.1210	0.52%

Sequence No.: 48

Sample ID: L1808-09A-LMW-20F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 124

Date Collected: 8/30/2012 5:03:51 PM

Data Type: Reprocessed on 8/31/2012 8:26:20 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-09A-LMW-20F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1746377.7	100.00 %		0.661				0.66%
Lu 261.542	1137501.2	100.2 %		0.62				0.62%
Ag 328.068†	-31.6	-0.00029 mg/L		0.000337	-0.00029 mg/L		0.000337	116.09%
Al 308.215†	79.8	0.00037 mg/L		0.002749	0.00037 mg/L		0.002749	734.03%
As 188.979†	1.8	0.00295 mg/L		0.004957	0.00295 mg/L		0.004957	168.18%
Ba 233.527†	3113.0	0.04002 mg/L		0.000701	0.04002 mg/L		0.000701	1.75%
Be 313.107†	150.8	0.00006 mg/L		0.000009	0.00006 mg/L		0.000009	13.41%
Co 228.616†	9.8	0.00030 mg/L		0.000211	0.00030 mg/L		0.000211	70.65%
Cr 267.716†	58.2	0.00091 mg/L		0.000241	0.00091 mg/L		0.000241	26.59%
Cu 324.752†	63.3	0.00032 mg/L		0.000345	0.00032 mg/L		0.000345	107.60%
Fe 273.955†	213.9	0.00963 mg/L		0.000365	0.00963 mg/L		0.000365	3.79%
Mg 279.077†	142040.8	8.8657 mg/L		0.18679	8.8657 mg/L		0.18679	2.11%
Mn 257.610†	3001.4	0.00546 mg/L		0.000088	0.00546 mg/L		0.000088	1.61%
Ni 231.604†	29.4	0.00104 mg/L		0.000213	0.00104 mg/L		0.000213	20.41%
Pb 220.353†	3.1	0.00065 mg/L		0.001439	0.00065 mg/L		0.001439	220.70%
Sb 206.836†	-2.9	-0.00322 mg/L		0.002907	-0.00322 mg/L		0.002907	90.22%
Se 196.026†	-0.7	-0.00153 mg/L		0.006068	-0.00153 mg/L		0.006068	397.38%
Tl 190.801†	-1.2	-0.00177 mg/L		0.003025	-0.00177 mg/L		0.003025	171.09%
V 292.402†	17.9	0.00016 mg/L		0.000800	0.00016 mg/L		0.000800	489.06%
Zn 206.200†	54.8	0.00280 mg/L		0.000252	0.00280 mg/L		0.000252	9.01%
Cd 226.502†	26.6	0.00048 mg/L		0.000065	0.00048 mg/L		0.000065	13.71%
Ti 334.940†	-170.5	-0.00023 mg/L		0.000165	-0.00023 mg/L		0.000165	70.64%
Ca 227.546†	3023.4	16.911 mg/L		0.1988	16.911 mg/L		0.1988	1.18%
Na 589.592†	96157.1	21.380 mg/L		0.3605	21.380 mg/L		0.3605	1.69%
K 766.490†	1680.1	1.7050 mg/L		0.10092	1.7050 mg/L		0.10092	5.92%

Sequence No.: 49

Sample ID: L1808-10A-LMW-10F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 125

Date Collected: 8/30/2012 5:07:34 PM

Data Type: Reprocessed on 8/31/2012 8:26:20 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-10A-LMW-10F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1714519.0	98.178 %		0.8364				0.85%
Lu 261.542	1114960.6	98.23 %		0.831				0.85%
Ag 328.068†	-101.5	-0.00068 mg/L		0.000247	-0.00068 mg/L		0.000247	36.21%
Al 308.215†	253.5	0.00832 mg/L		0.003681	0.00832 mg/L		0.003681	44.24%
As 188.979†	-1.6	0.00015 mg/L		0.003891	0.00015 mg/L		0.003891	>999.9%
Ba 233.527†	2189.3	0.02815 mg/L		0.000192	0.02815 mg/L		0.000192	0.68%
Be 313.107†	42.7	0.00002 mg/L		0.000036	0.00002 mg/L		0.000036	209.41%
Co 228.616†	14.4	0.00044 mg/L		0.000162	0.00044 mg/L		0.000162	37.05%
Cr 267.716†	9932.4	0.15464 mg/L		0.000601	0.15464 mg/L		0.000601	0.39%
Cu 324.752†	121.0	0.00061 mg/L		0.000082	0.00061 mg/L		0.000082	13.42%
Fe 273.955†	235.3	0.01059 mg/L		0.002236	0.01059 mg/L		0.002236	21.12%
Mg 279.077†	58530.4	3.6529 mg/L		0.01686	3.6529 mg/L		0.01686	0.46%
Mn 257.610†	727.2	0.00131 mg/L		0.000090	0.00131 mg/L		0.000090	6.89%
Ni 231.604†	95.3	0.00349 mg/L		0.000340	0.00349 mg/L		0.000340	9.74%
Pb 220.353†	-5.6	-0.00119 mg/L		0.001704	-0.00119 mg/L		0.001704	143.28%

Sb 206.836†	0.4	-0.00276 mg/L	0.002251	-0.00276 mg/L	0.002251	81.66%
Se 196.026†	4.9	0.01110 mg/L	0.011327	0.01110 mg/L	0.011327	102.02%
Tl 190.801†	-1.7	-0.00267 mg/L	0.001893	-0.00267 mg/L	0.001893	70.98%
V 292.402†	-28.0	0.00010 mg/L	0.000486	0.00010 mg/L	0.000486	466.44%
Zn 206.200†	30.7	0.00185 mg/L	0.000185	0.00185 mg/L	0.000185	10.00%
Cd 226.502†	1783.6	0.03493 mg/L	0.000190	0.03493 mg/L	0.000190	0.54%
Ti 334.940†	-283.4	-0.00025 mg/L	0.000114	-0.00025 mg/L	0.000114	46.27%
Ca 227.546†	4644.6	25.984 mg/L	0.0790	25.984 mg/L	0.0790	0.30%
Na 589.592†	67146.0	14.930 mg/L	0.2852	14.930 mg/L	0.2852	1.91%
K 766.490†	4696.0	4.7656 mg/L	0.07209	4.7656 mg/L	0.07209	1.51%

Sequence No.: 50

Sample ID: L1808-11A-LMW-16F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 126

Date Collected: 8/30/2012 5:11:17 PM

Data Type: Reprocessed on 8/31/2012 8:26:21 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-11A-LMW-16F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1694134.4	97.011 %		0.4049				0.42%
Lu 261.542	1098316.9	96.77 %		0.393				0.41%
Ag 328.068†	-121.3	-0.00094 mg/L		0.000719	-0.00094 mg/L		0.000719	76.28%
Al 308.215†	6046.5	0.32190 mg/L		0.003860	0.32190 mg/L		0.003860	1.20%
As 188.979†	-3.4	-0.00423 mg/L		0.002833	-0.00423 mg/L		0.002833	67.04%
Ba 233.527†	26372.4	0.33904 mg/L		0.001081	0.33904 mg/L		0.001081	0.32%
Be 313.107†	1688.8	0.00072 mg/L		0.000015	0.00072 mg/L		0.000015	2.07%
Co 228.616†	-7.4	-0.00022 mg/L		0.000439	-0.00022 mg/L		0.000439	195.86%
Cr 267.716†	154.9	0.00228 mg/L		0.000319	0.00228 mg/L		0.000319	13.97%
Cu 324.752†	12475.9	0.06300 mg/L		0.000266	0.06300 mg/L		0.000266	0.42%
Fe 273.955†	62.3	0.00280 mg/L		0.000550	0.00280 mg/L		0.000550	19.62%
Mg 279.077†	59013.2	3.6834 mg/L		0.01247	3.6834 mg/L		0.01247	0.34%
Mn 257.610†	342124.5	0.63228 mg/L		0.002729	0.63228 mg/L		0.002729	0.43%
Ni 231.604†	325.4	0.01196 mg/L		0.000033	0.01196 mg/L		0.000033	0.28%
Pb 220.353†	2.6	0.00061 mg/L		0.001075	0.00061 mg/L		0.001075	176.86%
Sb 206.836†	2.0	0.00169 mg/L		0.001177	0.00169 mg/L		0.001177	69.74%
Se 196.026†	1.0	0.00231 mg/L		0.000674	0.00231 mg/L		0.000674	288.51%
Tl 190.801†	0.2	0.00072 mg/L		0.002028	0.00072 mg/L		0.002028	281.15%
V 292.402†	-76.6	-0.00070 mg/L		0.000359	-0.00070 mg/L		0.000359	51.25%
Zn 206.200†	645.9	0.03322 mg/L		0.000354	0.03322 mg/L		0.000354	1.06%
Cd 226.502†	221.2	0.00431 mg/L		0.000092	0.00431 mg/L		0.000092	2.12%
Ti 334.940†	-177.4	-0.00024 mg/L		0.000111	-0.00024 mg/L		0.000111	45.55%
Ca 227.546†	2086.6	11.670 mg/L		0.0617	11.670 mg/L		0.0617	0.53%
Na 589.592†	60887.0	13.538 mg/L		0.0561	13.538 mg/L		0.0561	0.41%
K 766.490†	5774.1	5.8596 mg/L		0.07980	5.8596 mg/L		0.07980	1.36%

Sequence No.: 51

Sample ID: L1808-12A-LMW-2F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 127

Date Collected: 8/30/2012 5:15:00 PM

Data Type: Reprocessed on 8/31/2012 8:26:22 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-12A-LMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1695811.4	97.107 %		0.7862				0.81%
Lu 261.542	1101399.6	97.04 %		0.838				0.86%
Ag 328.068†	-100.5	-0.00068 mg/L		0.000580	-0.00068 mg/L		0.000580	85.64%
Al 308.215†	426.0	0.01846 mg/L		0.004170	0.01846 mg/L		0.004170	22.59%
As 188.979†	-4.9	-0.00555 mg/L		0.004355	-0.00555 mg/L		0.004355	78.52%
Ba 233.527†	2483.3	0.03193 mg/L		0.000123	0.03193 mg/L		0.000123	0.39%
Be 313.107†	50.3	0.00002 mg/L		0.000049	0.00002 mg/L		0.000049	229.82%
Co 228.616†	-2.8	-0.00009 mg/L		0.000025	-0.00009 mg/L		0.000025	28.79%
Cr 267.716†	771.0	0.01200 mg/L		0.000367	0.01200 mg/L		0.000367	3.05%
Cu 324.752†	832.6	0.00421 mg/L		0.000418	0.00421 mg/L		0.000418	9.94%

Fe 273.955†	340.5	0.01532 mg/L	0.000416	0.01532 mg/L	0.000416	2.72%
Mg 279.077†	61971.4	3.8680 mg/L	0.10651	3.8680 mg/L	0.10651	2.75%
Mn 257.610†	906.0	0.00164 mg/L	0.000024	0.00164 mg/L	0.000024	1.48%
Ni 231.604†	88.9	0.00325 mg/L	0.000248	0.00325 mg/L	0.000248	7.62%
Pb 220.353†	-3.3	-0.00070 mg/L	0.001581	-0.00070 mg/L	0.001581	225.31%
Sb 206.836†	-1.5	-0.00201 mg/L	0.000898	-0.00201 mg/L	0.000898	44.72%
Se 196.026†	2.3	0.00521 mg/L	0.005957	0.00521 mg/L	0.005957	114.33%
Tl 190.801†	-0.6	-0.00085 mg/L	0.002932	-0.00085 mg/L	0.002932	343.23%
V 292.402†	-20.8	-0.00016 mg/L	0.000543	-0.00016 mg/L	0.000543	339.51%
Zn 206.200†	511.4	0.02610 mg/L	0.000062	0.02610 mg/L	0.000062	0.24%
Cd 226.502†	138.1	0.00265 mg/L	0.000108	0.00265 mg/L	0.000108	4.08%
Ti 334.940†	-66.1	0.00015 mg/L	0.000083	0.00015 mg/L	0.000083	54.93%
Ca 227.546†	3846.1	21.517 mg/L	0.1613	21.517 mg/L	0.1613	0.75%
Na 589.592†	103151.6	22.936 mg/L	0.1527	22.936 mg/L	0.1527	0.67%
K 766.490†	1638.4	1.6626 mg/L	0.01879	1.6626 mg/L	0.01879	1.13%

Sequence No.: 52

Sample ID: L1808-13A-LMW-3F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 128

Date Collected: 8/30/2012 5:18:43 PM

Data Type: Reprocessed on 8/31/2012 8:26:22 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-13A-LMW-3F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1720174.0	98.502	%	0.3464				0.35%
Lu 261.542	1120944.0	98.76	%	0.381				0.39%
Ag 328.068†	-96.9	-0.00067 mg/L		0.000729	-0.00067 mg/L		0.000729	109.05%
Al 308.215†	755.5	0.03456 mg/L		0.002223	0.03456 mg/L		0.002223	6.43%
As 188.979†	0.1	0.00210 mg/L		0.001819	0.00210 mg/L		0.001819	86.81%
Ba 233.527†	2170.8	0.02791 mg/L		0.000120	0.02791 mg/L		0.000120	0.43%
Be 313.107†	5.0	0.00001 mg/L		0.000024	0.00001 mg/L		0.000024	465.05%
Co 228.616†	8.1	0.00024 mg/L		0.000132	0.00024 mg/L		0.000132	55.09%
Cr 267.716†	6598.1	0.10273 mg/L		0.001919	0.10273 mg/L		0.001919	1.87%
Cu 324.752†	1283.2	0.00648 mg/L		0.000175	0.00648 mg/L		0.000175	2.71%
Fe 273.955†	1008.3	0.04537 mg/L		0.004144	0.04537 mg/L		0.004144	9.13%
Mg 279.077†	83005.3	5.1806 mg/L		0.09286	5.1806 mg/L		0.09286	1.79%
Mn 257.610†	2370.5	0.00433 mg/L		0.000068	0.00433 mg/L		0.000068	1.57%
Ni 231.604†	93.8	0.00343 mg/L		0.000235	0.00343 mg/L		0.000235	6.87%
Pb 220.353†	2.3	0.00050 mg/L		0.000382	0.00050 mg/L		0.000382	76.42%
Sb 206.836†	-3.0	-0.00526 mg/L		0.004049	-0.00526 mg/L		0.004049	77.02%
Se 196.026†	2.0	0.00445 mg/L		0.002299	0.00445 mg/L		0.002299	51.64%
Tl 190.801†	2.4	0.00405 mg/L		0.003395	0.00405 mg/L		0.003395	83.86%
V 292.402†	-35.0	-0.00008 mg/L		0.000423	-0.00008 mg/L		0.000423	517.67%
Zn 206.200†	375.1	0.01933 mg/L		0.000028	0.01933 mg/L		0.000028	0.14%
Cd 226.502†	147.2	0.00281 mg/L		0.000102	0.00281 mg/L		0.000102	3.65%
Ti 334.940†	769.2	0.00199 mg/L		0.001827	0.00199 mg/L		0.001827	91.78%
Ca 227.546†	5251.6	29.380 mg/L		0.3529	29.380 mg/L		0.3529	1.20%
Na 589.592†	139479.3	31.013 mg/L		0.3629	31.013 mg/L		0.3629	1.17%
K 766.490†	2440.7	2.4769 mg/L		0.06589	2.4769 mg/L		0.06589	2.66%

Sequence No.: 53

Sample ID: L1808-14A-LMW-4F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 129

Date Collected: 8/30/2012 5:22:26 PM

Data Type: Reprocessed on 8/31/2012 8:26:23 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-14A-LMW-4F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1733946.5	99.291	%	0.8100				0.82%
Lu 261.542	1128366.6	99.41	%	0.844				0.85%
Ag 328.068†	-129.7	-0.00085 mg/L		0.000193	-0.00085 mg/L		0.000193	22.70%
Al 308.215†	21070.3	1.1298 mg/L		0.01699	1.1298 mg/L		0.01699	1.50%
As 188.979†	-0.8	0.00022 mg/L		0.001800	0.00022 mg/L		0.001800	825.92%

Ba 233.527†	1679.3	0.02159 mg/L	0.000344	0.02159 mg/L	0.000344	1.59%
Be 313.107†	-159.5	0.00001 mg/L	0.000018	0.00001 mg/L	0.000018	165.47%
Co 228.616†	23.1	0.00057 mg/L	0.000148	0.00057 mg/L	0.000148	25.76%
Cr 267.716†	3767.6	0.05866 mg/L	0.000762	0.05866 mg/L	0.000762	1.30%
Cu 324.752†	11653.3	0.05895 mg/L	0.000240	0.05895 mg/L	0.000240	0.41%
Fe 273.955†	24704.3	1.1117 mg/L	0.00981	1.1117 mg/L	0.00981	0.88%
Mg 279.077†	46030.0	2.8729 mg/L	0.01927	2.8729 mg/L	0.01927	0.67%
Mn 257.610†	7781.0	0.01435 mg/L	0.000070	0.01435 mg/L	0.000070	0.49%
Ni 231.604†	429.4	0.01577 mg/L	0.000086	0.01577 mg/L	0.000086	0.55%
Pb 220.353†	45.4	0.00979 mg/L	0.002107	0.00979 mg/L	0.002107	21.53%
Sb 206.836†	0.1	-0.00132 mg/L	0.001837	-0.00132 mg/L	0.001837	138.67%
Se 196.026†	4.9	0.01144 mg/L	0.010385	0.01144 mg/L	0.010385	90.78%
Tl 190.801†	2.9	0.00494 mg/L	0.002639	0.00494 mg/L	0.002639	53.41%
V 292.402†	345.6	0.00319 mg/L	0.000504	0.00319 mg/L	0.000504	15.81%
Zn 206.200†	4303.4	0.21965 mg/L	0.003160	0.21965 mg/L	0.003160	1.44%
Cd 226.502†	1395.6	0.02725 mg/L	0.000628	0.02725 mg/L	0.000628	2.30%
Ti 334.940†	20646.1	0.04342 mg/L	0.001309	0.04342 mg/L	0.001309	3.01%
Ca 227.546†	3500.7	19.575 mg/L	0.3126	19.575 mg/L	0.3126	1.60%
Na 589.592†	64764.0	14.400 mg/L	0.0401	14.400 mg/L	0.0401	0.28%
K 766.490†	2425.7	2.4616 mg/L	0.13299	2.4616 mg/L	0.13299	5.40%

Sequence No.: 54

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 5:26:09 PM

Data Type: Reprocessed on 8/31/2012 8:26:24 AM

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 360.073	1695085.9	97.065 %	1.5899			1.64%
Lu 261.542	1105466.3	97.40 %	1.722			1.77%
Ag 328.068†	201474.9	1.2834 mg/L	0.02390	1.2834 mg/L	0.02390	1.86%
QC value within limits for Ag 328.068		Recovery = 102.67%				
Al 308.215†	190932.5	10.265 mg/L	0.1800	10.265 mg/L	0.1800	1.75%
QC value within limits for Al 308.215		Recovery = 102.65%				
As 188.979†	381.1	0.51200 mg/L	0.011985	0.51200 mg/L	0.011985	2.34%
QC value within limits for As 188.979		Recovery = 102.40%				
Ba 233.527†	829415.3	10.667 mg/L	0.0332	10.667 mg/L	0.0332	0.31%
QC value within limits for Ba 233.527		Recovery = 106.67%				
Be 313.107†	591066.0	0.25475 mg/L	0.000678	0.25475 mg/L	0.000678	0.27%
QC value within limits for Be 313.107		Recovery = 101.90%				
Co 228.616†	88266.6	2.6755 mg/L	0.04723	2.6755 mg/L	0.04723	1.77%
QC value within limits for Co 228.616		Recovery = 107.02%				
Cr 267.716†	65902.0	1.0263 mg/L	0.01982	1.0263 mg/L	0.01982	1.93%
QC value within limits for Cr 267.716		Recovery = 102.63%				
Cu 324.752†	253907.0	1.2833 mg/L	0.02444	1.2833 mg/L	0.02444	1.90%
QC value within limits for Cu 324.752		Recovery = 102.67%				
Fe 273.955†	116556.0	5.2491 mg/L	0.09041	5.2491 mg/L	0.09041	1.72%
QC value within limits for Fe 273.955		Recovery = 104.98%				
Mg 279.077†	417403.6	26.050 mg/L	0.0757	26.050 mg/L	0.0757	0.29%
QC value within limits for Mg 279.077		Recovery = 104.20%				
Mn 257.610†	1402128.3	2.5910 mg/L	0.00920	2.5910 mg/L	0.00920	0.36%
QC value within limits for Mn 257.610		Recovery = 103.64%				
Ni 231.604†	72044.7	2.6510 mg/L	0.04502	2.6510 mg/L	0.04502	1.70%
QC value within limits for Ni 231.604		Recovery = 106.04%				
Pb 220.353†	2411.7	0.51502 mg/L	0.008809	0.51502 mg/L	0.008809	1.71%
QC value within limits for Pb 220.353		Recovery = 103.00%				
Sb 206.836†	608.5	0.58191 mg/L	0.007697	0.58191 mg/L	0.007697	1.32%
QC value greater than the upper limit for Sb 206.836		Recovery = 116.38%				
Se 196.026†	222.2	0.50245 mg/L	0.004413	0.50245 mg/L	0.004413	0.88%
QC value within limits for Se 196.026		Recovery = 100.49%				
Tl 190.801†	311.5	0.49190 mg/L	0.010361	0.49190 mg/L	0.010361	2.11%
QC value within limits for Tl 190.801		Recovery = 98.38%				
V 292.402†	288653.0	2.5918 mg/L	0.04925	2.5918 mg/L	0.04925	1.90%
QC value within limits for V 292.402		Recovery = 103.67%				
Zn 206.200†	51500.6	2.6318 mg/L	0.04493	2.6318 mg/L	0.04493	1.71%
QC value within limits for Zn 206.200		Recovery = 105.27%				

Cd 226.502† 12977.8 0.25483 mg/L 0.004754 0.25483 mg/L 0.004754 1.87%
 QC value within limits for Cd 226.502 Recovery = 101.93%
 Ti 334.940† 251295.9 0.52499 mg/L 0.001578 0.52499 mg/L 0.001578 0.30%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 4578.7 24.725 mg/L 0.4648 24.725 mg/L 0.4648 1.88%
 QC value within limits for Ca 227.546 Recovery = 98.90%
 Na 589.592† 117222.4 26.064 mg/L 0.3934 26.064 mg/L 0.3934 1.51%
 QC value within limits for Na 589.592 Recovery = 104.26%
 K 766.490† 25916.3 26.300 mg/L 0.3175 26.300 mg/L 0.3175 1.21%
 QC value within limits for K 766.490 Recovery = 105.20%
 QC Failed. Continue with analysis.

Sequence No.: 55

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 5:29:51 PM

Data Type: Reprocessed on 8/31/2012 8:26:24 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1727748.9	98.936 %		1.1822			1.19%
Lu 261.542	1119659.6	98.65 %		1.131			1.15%
Ag 328.068†	47.0	0.00030 mg/L		0.000148	0.00030 mg/L	0.000148	49.57%
QC value within limits for Ag 328.068			Recovery =	Not calculated			
Al 308.215†	211.5	0.01138 mg/L		0.002381	0.01138 mg/L	0.002381	20.92%
QC value within limits for Al 308.215			Recovery =	Not calculated			
As 188.979†	-1.2	-0.00160 mg/L		0.005624	-0.00160 mg/L	0.005624	350.88%
QC value within limits for As 188.979			Recovery =	Not calculated			
Ba 233.527†	48.4	0.00062 mg/L		0.000105	0.00062 mg/L	0.000105	16.94%
QC value within limits for Ba 233.527			Recovery =	Not calculated			
Be 313.107†	35.6	0.00002 mg/L		0.000034	0.00002 mg/L	0.000034	216.47%
QC value within limits for Be 313.107			Recovery =	Not calculated			
Co 228.616†	9.8	0.00030 mg/L		0.000270	0.00030 mg/L	0.000270	91.01%
QC value within limits for Co 228.616			Recovery =	Not calculated			
Cr 267.716†	1.5	0.00002 mg/L		0.000600	0.00002 mg/L	0.000600	>999.9%
QC value within limits for Cr 267.716			Recovery =	Not calculated			
Cu 324.752†	45.8	0.00023 mg/L		0.000250	0.00023 mg/L	0.000250	107.75%
QC value within limits for Cu 324.752			Recovery =	Not calculated			
Fe 273.955†	49.2	0.00222 mg/L		0.001072	0.00222 mg/L	0.001072	48.39%
QC value within limits for Fe 273.955			Recovery =	Not calculated			
Mg 279.077†	79.2	0.00494 mg/L		0.006118	0.00494 mg/L	0.006118	123.74%
QC value within limits for Mg 279.077			Recovery =	Not calculated			
Mn 257.610†	125.9	0.00023 mg/L		0.000002	0.00023 mg/L	0.000002	0.89%
QC value within limits for Mn 257.610			Recovery =	Not calculated			
Ni 231.604†	14.2	0.00052 mg/L		0.000066	0.00052 mg/L	0.000066	12.63%
QC value within limits for Ni 231.604			Recovery =	Not calculated			
Pb 220.353†	4.1	0.00088 mg/L		0.001266	0.00088 mg/L	0.001266	143.83%
QC value within limits for Pb 220.353			Recovery =	Not calculated			
Sb 206.836†	2.1	0.00203 mg/L		0.002858	0.00203 mg/L	0.002858	140.92%
QC value within limits for Sb 206.836			Recovery =	Not calculated			
Se 196.026†	1.7	0.00387 mg/L		0.006330	0.00387 mg/L	0.006330	163.77%
QC value within limits for Se 196.026			Recovery =	Not calculated			
Tl 190.801†	-1.0	-0.00168 mg/L		0.003060	-0.00168 mg/L	0.003060	182.27%
QC value within limits for Tl 190.801			Recovery =	Not calculated			
V 292.402†	29.0	0.00026 mg/L		0.000230	0.00026 mg/L	0.000230	88.65%
QC value within limits for V 292.402			Recovery =	Not calculated			
Zn 206.200†	20.4	0.00104 mg/L		0.000418	0.00104 mg/L	0.000418	40.21%
QC value within limits for Zn 206.200			Recovery =	Not calculated			
Cd 226.502†	-5.0	-0.00010 mg/L		0.000057	-0.00010 mg/L	0.000057	57.27%
QC value within limits for Cd 226.502			Recovery =	Not calculated			
Ti 334.940†	97.2	0.00020 mg/L		0.000040	0.00020 mg/L	0.000040	19.50%
QC value within limits for Ti 334.940			Recovery =	Not calculated			
Ca 227.546†	-1.4	-0.00788 mg/L		0.023352	-0.00788 mg/L	0.023352	296.33%
QC value within limits for Ca 227.546			Recovery =	Not calculated			
Na 589.592†	10.9	0.00242 mg/L		0.027422	0.00242 mg/L	0.027422	>999.9%
QC value within limits for Na 589.592			Recovery =	Not calculated			
K 766.490†	51.5	0.05227 mg/L		0.079531	0.05227 mg/L	0.079531	152.16%

QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 56
Sample ID: L1808-15A-DMW-2F
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 130
Date Collected: 8/30/2012 5:33:33 PM
Data Type: Reprocessed on 8/31/2012 8:26:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-15A-DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1742541.6	99.783	%	1.0856				1.09%
Lu 261.542	1134149.5	99.92	%	1.094				1.10%
Ag 328.068†	-96.5	-0.00065	mg/L	0.000165	-0.00065	mg/L	0.000165	25.15%
Al 308.215†	292.9	0.01305	mg/L	0.001547	0.01305	mg/L	0.001547	11.85%
As 188.979†	-2.1	-0.00223	mg/L	0.004415	-0.00223	mg/L	0.004415	198.36%
Ba 233.527†	1433.8	0.01843	mg/L	0.000132	0.01843	mg/L	0.000132	0.72%
Be 313.107†	74.9	0.00003	mg/L	0.000012	0.00003	mg/L	0.000012	35.57%
Co 228.616†	34.0	0.00100	mg/L	0.000206	0.00100	mg/L	0.000206	20.48%
Cr 267.716†	23.6	0.00034	mg/L	0.000153	0.00034	mg/L	0.000153	44.43%
Cu 324.752†	-43.6	-0.00012	mg/L	0.000593	-0.00012	mg/L	0.000593	484.84%
Fe 273.955†	23581.7	1.0611	mg/L	0.01590	1.0611	mg/L	0.01590	1.50%
Mg 279.077†	28659.1	1.7888	mg/L	0.03021	1.7888	mg/L	0.03021	1.69%
Mn 257.610†	62185.7	0.11491	mg/L	0.001838	0.11491	mg/L	0.001838	1.60%
Ni 231.604†	34.8	0.00127	mg/L	0.000251	0.00127	mg/L	0.000251	19.76%
Pb 220.353†	-5.2	-0.00113	mg/L	0.001509	-0.00113	mg/L	0.001509	133.72%
Sb 206.836†	-4.0	-0.00414	mg/L	0.004442	-0.00414	mg/L	0.004442	107.38%
Se 196.026†	-0.8	-0.00141	mg/L	0.015497	-0.00141	mg/L	0.015497	>999.9%
Tl 190.801†	1.3	0.00231	mg/L	0.004864	0.00231	mg/L	0.004864	210.39%
V 292.402†	56.9	0.00054	mg/L	0.000079	0.00054	mg/L	0.000079	14.57%
Zn 206.200†	99.5	0.00518	mg/L	0.000062	0.00518	mg/L	0.000062	1.20%
Cd 226.502†	21.7	0.00031	mg/L	0.000041	0.00031	mg/L	0.000041	13.14%
Ti 334.940†	120.9	0.00043	mg/L	0.000105	0.00043	mg/L	0.000105	24.59%
Ca 227.546†	2205.4	12.330	mg/L	0.1202	12.330	mg/L	0.1202	0.97%
Na 589.592†	105845.3	23.534	mg/L	0.0906	23.534	mg/L	0.0906	0.38%
K 766.490†	1410.3	1.4312	mg/L	0.07610	1.4312	mg/L	0.07610	5.32%

Sequence No.: 57
Sample ID: L1808-15ADUP-DMW-2FD
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 131
Date Collected: 8/30/2012 5:37:16 PM
Data Type: Reprocessed on 8/31/2012 8:26:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-15ADUP-DMW-2FD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1715123.8	98.213	%	0.9423				0.96%
Lu 261.542	1116291.0	98.35	%	0.954				0.97%
Ag 328.068†	-150.9	-0.00100	mg/L	0.000431	-0.00100	mg/L	0.000431	43.00%
Al 308.215†	345.2	0.01583	mg/L	0.001879	0.01583	mg/L	0.001879	11.88%
As 188.979†	-1.4	-0.00138	mg/L	0.004638	-0.00138	mg/L	0.004638	335.06%
Ba 233.527†	1452.4	0.01867	mg/L	0.000107	0.01867	mg/L	0.000107	0.57%
Be 313.107†	13.8	0.00001	mg/L	0.000004	0.00001	mg/L	0.000004	66.77%
Co 228.616†	35.0	0.00104	mg/L	0.000172	0.00104	mg/L	0.000172	16.62%
Cr 267.716†	30.0	0.00044	mg/L	0.000077	0.00044	mg/L	0.000077	17.48%
Cu 324.752†	116.2	0.00069	mg/L	0.000381	0.00069	mg/L	0.000381	55.43%
Fe 273.955†	24131.0	1.0859	mg/L	0.01110	1.0859	mg/L	0.01110	1.02%
Mg 279.077†	29208.8	1.8231	mg/L	0.01669	1.8231	mg/L	0.01669	0.92%
Mn 257.610†	63522.1	0.11738	mg/L	0.001173	0.11738	mg/L	0.001173	1.00%
Ni 231.604†	38.4	0.00140	mg/L	0.000087	0.00140	mg/L	0.000087	6.18%
Pb 220.353†	-1.9	-0.00042	mg/L	0.002366	-0.00042	mg/L	0.002366	567.39%
Sb 206.836†	-1.0	-0.00118	mg/L	0.004049	-0.00118	mg/L	0.004049	342.77%
Se 196.026†	4.1	0.00966	mg/L	0.015160	0.00966	mg/L	0.015160	156.93%
Tl 190.801†	-1.0	-0.00141	mg/L	0.001688	-0.00141	mg/L	0.001688	119.90%

V 292.402†	-41.7	-0.00034 mg/L	0.000406	-0.00034 mg/L	0.000406	119.44%
Zn 206.200†	99.1	0.00516 mg/L	0.000201	0.00516 mg/L	0.000201	3.89%
Cd 226.502†	23.4	0.00035 mg/L	0.000105	0.00035 mg/L	0.000105	30.46%
Ti 334.940†	66.5	0.00032 mg/L	0.000097	0.00032 mg/L	0.000097	30.68%
Ca 227.546†	2241.2	12.530 mg/L	0.2110	12.530 mg/L	0.2110	1.68%
Na 589.592†	107868.3	23.984 mg/L	0.2066	23.984 mg/L	0.2066	0.86%
K 766.490†	1447.1	1.4685 mg/L	0.05719	1.4685 mg/L	0.05719	3.89%

Sequence No.: 58

Sample ID: L1808-15AMS~DMW-2FS

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 132

Date Collected: 8/30/2012 5:40:59 PM

Data Type: Reprocessed on 8/31/2012 8:26:26 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-15AMS~DMW-2FS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1684497.2	96.459 %		0.7629				0.79%
Lu 261.542	1097137.0	96.66 %		0.713				0.74%
Ag 328.068†	139361.0	0.88852 mg/L		0.030751	0.88852 mg/L		0.030751	3.46%
Al 308.215†	174864.2	9.3987 mg/L		0.06597	9.3987 mg/L		0.06597	0.70%
As 188.979†	357.9	0.48107 mg/L		0.004885	0.48107 mg/L		0.004885	1.02%
Ba 233.527†	748508.0	9.6261 mg/L		0.12424	9.6261 mg/L		0.12424	1.29%
Be 313.107†	541114.5	0.23234 mg/L		0.003528	0.23234 mg/L		0.003528	1.52%
Co 228.616†	77046.6	2.3364 mg/L		0.01733	2.3364 mg/L		0.01733	0.74%
Cr 267.716†	60060.2	0.93532 mg/L		0.005678	0.93532 mg/L		0.005678	0.61%
Cu 324.752†	227184.2	1.1484 mg/L		0.00638	1.1484 mg/L		0.00638	0.56%
Fe 273.955†	128070.8	5.7668 mg/L		0.03292	5.7668 mg/L		0.03292	0.57%
Mg 279.077†	401486.9	25.057 mg/L		0.3498	25.057 mg/L		0.3498	1.40%
Mn 257.610†	1320216.3	2.4397 mg/L		0.03438	2.4397 mg/L		0.03438	1.41%
Ni 231.604†	63599.5	2.3405 mg/L		0.01814	2.3405 mg/L		0.01814	0.77%
Pb 220.353†	2205.4	0.47047 mg/L		0.000408	0.47047 mg/L		0.000408	0.09%
Sb 206.836†	529.4	0.50414 mg/L		0.006130	0.50414 mg/L		0.006130	1.22%
Se 196.026†	209.1	0.47266 mg/L		0.015679	0.47266 mg/L		0.015679	3.32%
Tl 190.801†	287.3	0.45480 mg/L		0.008280	0.45480 mg/L		0.008280	1.82%
V 292.402†	259128.0	2.3274 mg/L		0.01571	2.3274 mg/L		0.01571	0.68%
Zn 206.200†	45640.1	2.3321 mg/L		0.01679	2.3321 mg/L		0.01679	0.72%
Cd 226.502†	11883.1	0.23321 mg/L		0.001937	0.23321 mg/L		0.001937	0.83%
Ti 334.940†	249.0	0.00047 mg/L		0.000150	0.00047 mg/L		0.000150	32.30%
Ca 227.546†	6507.9	35.623 mg/L		0.1458	35.623 mg/L		0.1458	0.41%
Na 589.592†	215380.9	47.889 mg/L		0.6796	47.889 mg/L		0.6796	1.42%
K 766.490†	24781.8	25.149 mg/L		0.3893	25.149 mg/L		0.3893	1.55%

Sequence No.: 59

Sample ID: L1808-15ASD~DMW-2F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 133

Date Collected: 8/30/2012 5:44:44 PM

Data Type: Reprocessed on 8/31/2012 8:26:27 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-15ASD~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1751180.3	100.28 %		0.446				0.44%
Lu 261.542	1137507.8	100.2 %		0.42				0.42%
Ag 328.068†	36.8	0.00023 mg/L		0.001040	0.00023 mg/L		0.001040	461.07%
Al 308.215†	181.5	0.00923 mg/L		0.001344	0.00923 mg/L		0.001344	14.56%
As 188.979†	-0.6	-0.00064 mg/L		0.004750	-0.00064 mg/L		0.004750	744.46%
Ba 233.527†	320.8	0.00412 mg/L		0.000112	0.00412 mg/L		0.000112	2.71%
Be 313.107†	23.0	0.00001 mg/L		0.000023	0.00001 mg/L		0.000023	232.87%
Co 228.616†	8.3	0.00025 mg/L		0.000092	0.00025 mg/L		0.000092	37.29%
Cr 267.716†	6.1	0.00009 mg/L		0.000216	0.00009 mg/L		0.000216	237.62%
Cu 324.752†	-23.3	-0.00010 mg/L		0.000336	-0.00010 mg/L		0.000336	343.99%
Fe 273.955†	4858.3	0.21861 mg/L		0.001718	0.21861 mg/L		0.001718	0.79%
Mg 279.077†	5924.4	0.36978 mg/L		0.009323	0.36978 mg/L		0.009323	2.52%
Mn 257.610†	12840.5	0.02373 mg/L		0.000311	0.02373 mg/L		0.000311	1.31%

Ni 231.604†	10.6	0.00039 mg/L	0.000128	0.00039 mg/L	0.000128	33.06%
Pb 220.353†	1.4	0.00029 mg/L	0.000860	0.00029 mg/L	0.000860	295.09%
Sb 206.836†	-0.5	-0.00051 mg/L	0.004966	-0.00051 mg/L	0.004966	975.64%
Se 196.026†	1.4	0.00320 mg/L	0.004247	0.00320 mg/L	0.004247	132.64%
Tl 190.801†	-1.1	-0.00180 mg/L	0.002054	-0.00180 mg/L	0.002054	114.31%
V 292.402†	32.8	0.00030 mg/L	0.000320	0.00030 mg/L	0.000320	106.25%
Zn 206.200†	41.0	0.00211 mg/L	0.000323	0.00211 mg/L	0.000323	15.34%
Cd 226.502†	2.3	0.00002 mg/L	0.000194	0.00002 mg/L	0.000194	879.07%
Ti 334.940†	-24.7	-0.00002 mg/L	0.000043	-0.00002 mg/L	0.000043	251.65%
Ca 227.546†	436.2	2.4383 mg/L	0.03367	2.4383 mg/L	0.03367	1.38%
Na 589.592†	21064.2	4.6836 mg/L	0.01761	4.6836 mg/L	0.01761	0.38%
K 766.490†	250.7	0.25441 mg/L	0.101920	0.25441 mg/L	0.101920	40.06%

Sequence No.: 60

Sample ID: L1808-15APDS~DMW-2F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 134

Date Collected: 8/30/2012 5:48:27 PM

Data Type: Reprocessed on 8/31/2012 8:26:28 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-15APDS~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1743555.2	99.841	%	0.5841				0.59%
Lu 261.542	1136630.5	100.1	%	0.67				0.67%
Ag 328.068†	171049.1	1.0897	mg/L	0.01043	1.0897	mg/L	0.01043	0.96%
Al 308.215†	174540.1	9.3813	mg/L	0.08130	9.3813	mg/L	0.08130	0.87%
As 188.979†	355.3	0.47768	mg/L	0.002163	0.47768	mg/L	0.002163	0.45%
Ba 233.527†	757028.3	9.7357	mg/L	0.01863	9.7357	mg/L	0.01863	0.19%
Be 313.107†	549442.1	0.23591	mg/L	0.000162	0.23591	mg/L	0.000162	0.07%
Co 228.616†	77864.7	2.3612	mg/L	0.02270	2.3612	mg/L	0.02270	0.96%
Cr 267.716†	60307.6	0.93917	mg/L	0.009809	0.93917	mg/L	0.009809	1.04%
Cu 324.752†	227237.4	1.1486	mg/L	0.01180	1.1486	mg/L	0.01180	1.03%
Fe 273.955†	128485.5	5.7855	mg/L	0.05866	5.7855	mg/L	0.05866	1.01%
Mg 279.077†	407759.7	25.449	mg/L	0.0274	25.449	mg/L	0.0274	0.11%
Mn 257.610†	1336543.3	2.4698	mg/L	0.00446	2.4698	mg/L	0.00446	0.18%
Ni 231.604†	64274.0	2.3653	mg/L	0.02460	2.3653	mg/L	0.02460	1.04%
Pb 220.353†	2172.5	0.46347	mg/L	0.003465	0.46347	mg/L	0.003465	0.75%
Sb 206.836†	486.4	0.46178	mg/L	0.007289	0.46178	mg/L	0.007289	1.58%
Se 196.026†	206.4	0.46655	mg/L	0.004533	0.46655	mg/L	0.004533	0.97%
Tl 190.801†	286.7	0.45347	mg/L	0.006639	0.45347	mg/L	0.006639	1.46%
V 292.402†	260677.5	2.3413	mg/L	0.02073	2.3413	mg/L	0.02073	0.89%
Zn 206.200†	46319.6	2.3668	mg/L	0.02834	2.3668	mg/L	0.02834	1.20%
Cd 226.502†	11728.0	0.23017	mg/L	0.001709	0.23017	mg/L	0.001709	0.74%
Ti 334.940†	305.9	0.00057	mg/L	0.000053	0.00057	mg/L	0.000053	9.22%
Ca 227.546†	6449.0	35.285	mg/L	0.2175	35.285	mg/L	0.2175	0.62%
Na 589.592†	215601.2	47.938	mg/L	0.8137	47.938	mg/L	0.8137	1.70%
K 766.490†	25025.6	25.396	mg/L	0.3781	25.396	mg/L	0.3781	1.49%

Sequence No.: 61

Sample ID: L1808-16A~DMW-52F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 135

Date Collected: 8/30/2012 5:52:12 PM

Data Type: Reprocessed on 8/31/2012 8:26:28 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-16A~DMW-52F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1753175.7	100.39	%	0.999				1.00%
Lu 261.542	1142041.1	100.6	%	0.96				0.95%
Ag 328.068†	241.7	0.00149	mg/L	0.001105	0.00149	mg/L	0.001105	74.03%
Al 308.215†	381.7	0.01788	mg/L	0.003694	0.01788	mg/L	0.003694	20.66%
As 188.979†	1.5	0.00250	mg/L	0.001665	0.00250	mg/L	0.001665	66.50%
Ba 233.527†	1444.3	0.01857	mg/L	0.000468	0.01857	mg/L	0.000468	2.52%
Be 313.107†	77.6	0.00003	mg/L	0.000015	0.00003	mg/L	0.000015	44.12%
Co 228.616†	35.8	0.00106	mg/L	0.000195	0.00106	mg/L	0.000195	18.37%

Cr 267.716†	3.8	0.00004 mg/L	0.000083	0.00004 mg/L	0.000083	235.20%
Cu 324.752†	60.3	0.00040 mg/L	0.000500	0.00040 mg/L	0.000500	126.04%
Fe 273.955†	22132.0	0.99590 mg/L	0.008986	0.99590 mg/L	0.008986	0.90%
Mg 279.077†	28707.3	1.7918 mg/L	0.01396	1.7918 mg/L	0.01396	0.78%
Mn 257.610†	62452.2	0.11541 mg/L	0.000936	0.11541 mg/L	0.000936	0.81%
Ni 231.604†	32.5	0.00119 mg/L	0.000086	0.00119 mg/L	0.000086	7.22%
Pb 220.353†	1.3	0.00027 mg/L	0.000620	0.00027 mg/L	0.000620	225.44%
Sb 206.836†	3.5	0.00320 mg/L	0.001299	0.00320 mg/L	0.001299	40.61%
Se 196.026†	2.3	0.00545 mg/L	0.008024	0.00545 mg/L	0.008024	147.28%
Tl 190.801†	1.2	0.00211 mg/L	0.002776	0.00211 mg/L	0.002776	131.63%
V 292.402†	47.5	0.00046 mg/L	0.000195	0.00046 mg/L	0.000195	42.66%
Zn 206.200†	108.1	0.00561 mg/L	0.000349	0.00561 mg/L	0.000349	6.22%
Cd 226.502†	17.6	0.00024 mg/L	0.000161	0.00024 mg/L	0.000161	67.53%
Ti 334.940†	182.9	0.00055 mg/L	0.000287	0.00055 mg/L	0.000287	51.96%
Ca 227.546†	2164.9	12.103 mg/L	0.2256	12.103 mg/L	0.2256	1.86%
Na 589.592†	105882.9	23.543 mg/L	0.1494	23.543 mg/L	0.1494	0.63%
K 766.490†	1318.2	1.3378 mg/L	0.04721	1.3378 mg/L	0.04721	3.53%

Sequence No.: 62

Sample ID: L1808-17A-DMW-3F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 136

Date Collected: 8/30/2012 5:55:55 PM

Data Type: Reprocessed on 8/31/2012 8:26:29 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-17A-DMW-3F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1745957.3	99.978	%	1.1800				1.18%
Lu 261.542	1137033.5	100.2	%	1.20				1.19%
Ag 328.068†	55.0	0.00033 mg/L		0.000241	0.00033 mg/L		0.000241	73.94%
Al 308.215†	169.0	0.00685 mg/L		0.002839	0.00685 mg/L		0.002839	41.42%
As 188.979†	-1.8	-0.00195 mg/L		0.002246	-0.00195 mg/L		0.002246	115.43%
Ba 233.527†	2180.2	0.02803 mg/L		0.000347	0.02803 mg/L		0.000347	1.24%
Be 313.107†	17.5	0.00001 mg/L		0.000011	0.00001 mg/L		0.000011	150.27%
Co 228.616†	-3.5	-0.00011 mg/L		0.000155	-0.00011 mg/L		0.000155	144.56%
Cr 267.716†	57.9	0.00090 mg/L		0.000162	0.00090 mg/L		0.000162	17.92%
Cu 324.752†	47.5	0.00024 mg/L		0.000171	0.00024 mg/L		0.000171	70.91%
Fe 273.955†	236.0	0.01062 mg/L		0.000522	0.01062 mg/L		0.000522	4.91%
Mg 279.077†	34918.0	2.1795 mg/L		0.03305	2.1795 mg/L		0.03305	1.52%
Mn 257.610†	1364.0	0.00250 mg/L		0.000060	0.00250 mg/L		0.000060	2.40%
Ni 231.604†	16.6	0.00060 mg/L		0.000152	0.00060 mg/L		0.000152	25.28%
Pb 220.353†	-1.2	-0.00026 mg/L		0.000454	-0.00026 mg/L		0.000454	177.13%
Sb 206.836†	-0.7	-0.00082 mg/L		0.004346	-0.00082 mg/L		0.004346	527.81%
Se 196.026†	-1.1	-0.00236 mg/L		0.003231	-0.00236 mg/L		0.003231	137.03%
Tl 190.801†	-0.9	-0.00143 mg/L		0.005713	-0.00143 mg/L		0.005713	399.56%
V 292.402†	-19.1	-0.00017 mg/L		0.000269	-0.00017 mg/L		0.000269	158.71%
Zn 206.200†	139.4	0.00711 mg/L		0.000054	0.00711 mg/L		0.000054	0.76%
Cd 226.502†	771.4	0.01511 mg/L		0.000253	0.01511 mg/L		0.000253	1.68%
Ti 334.940†	-37.2	0.00006 mg/L		0.000004	0.00006 mg/L		0.000004	5.91%
Ca 227.546†	1910.3	10.687 mg/L		0.1905	10.687 mg/L		0.1905	1.78%
Na 589.592†	103270.5	22.962 mg/L		0.3404	22.962 mg/L		0.3404	1.48%
K 766.490†	2369.1	2.4042 mg/L		0.04033	2.4042 mg/L		0.04033	1.68%

Sequence No.: 63

Sample ID: L1808-18A-DMW-9BF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 137

Date Collected: 8/30/2012 5:59:38 PM

Data Type: Reprocessed on 8/31/2012 8:26:30 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-18A-DMW-9BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1767680.0	101.22	%	1.238				1.22%
Lu 261.542	1151954.5	101.5	%	1.26				1.24%
Ag 328.068†	-41.1	-0.00028 mg/L		0.000711	-0.00028 mg/L		0.000711	256.90%

Al 308.215†	87.8	0.00300 mg/L	0.005834	0.00300 mg/L	0.005834	194.61%
As 188.979†	1.5	0.00227 mg/L	0.001956	0.00227 mg/L	0.001956	86.02%
Ba 233.527†	1639.4	0.02108 mg/L	0.000310	0.02108 mg/L	0.000310	1.47%
Be 313.107†	71.7	0.00003 mg/L	0.000021	0.00003 mg/L	0.000021	68.12%
Co 228.616†	-4.7	-0.00014 mg/L	0.000091	-0.00014 mg/L	0.000091	64.87%
Cr 267.716†	11.1	0.00017 mg/L	0.000248	0.00017 mg/L	0.000248	144.22%
Cu 324.752†	-9.3	-0.00005 mg/L	0.000061	-0.00005 mg/L	0.000061	129.96%
Fe 273.955†	55.4	0.00249 mg/L	0.000346	0.00249 mg/L	0.000346	13.88%
Mg 279.077†	23741.1	1.4818 mg/L	0.01164	1.4818 mg/L	0.01164	0.79%
Mn 257.610†	1350.8	0.00248 mg/L	0.000028	0.00248 mg/L	0.000028	1.13%
Ni 231.604†	8.5	0.00031 mg/L	0.000284	0.00031 mg/L	0.000284	91.57%
Pb 220.353†	-1.2	-0.00026 mg/L	0.000080	-0.00026 mg/L	0.000080	30.58%
Sb 206.836†	-0.7	-0.00081 mg/L	0.003348	-0.00081 mg/L	0.003348	413.03%
Se 196.026†	0.5	0.00101 mg/L	0.000999	0.00101 mg/L	0.000999	98.73%
Tl 190.801†	-4.3	-0.00706 mg/L	0.005096	-0.00706 mg/L	0.005096	72.20%
V 292.402†	-5.6	-0.00005 mg/L	0.000526	-0.00005 mg/L	0.000526	>999.9%
Zn 206.200†	29.1	0.00148 mg/L	0.000141	0.00148 mg/L	0.000141	9.54%
Cd 226.502†	-9.3	-0.00020 mg/L	0.000135	-0.00020 mg/L	0.000135	65.90%
Ti 334.940†	-124.3	-0.00015 mg/L	0.000071	-0.00015 mg/L	0.000071	48.81%
Ca 227.546†	1488.1	8.3254 mg/L	0.17393	8.3254 mg/L	0.17393	2.09%
Na 589.592†	88445.2	19.666 mg/L	0.1623	19.666 mg/L	0.1623	0.83%
K 766.490†	1766.6	1.7928 mg/L	0.04618	1.7928 mg/L	0.04618	2.58%

Sequence No.: 64

Sample ID: L1808-19A-DMW-9F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 138

Date Collected: 8/30/2012 6:03:21 PM

Data Type: Reprocessed on 8/31/2012 8:26:30 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-19A-DMW-9F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1733675.7	99.275	%	0.5005				0.50%
Lu 261.542	1130451.6	99.60	%	0.342				0.34%
Ag 328.068†	-49.5	-0.00035	mg/L	0.000375	-0.00035	mg/L	0.000375	107.91%
Al 308.215†	150.1	0.00518	mg/L	0.001508	0.00518	mg/L	0.001508	29.11%
As 188.979†	-1.9	-0.00203	mg/L	0.003697	-0.00203	mg/L	0.003697	181.76%
Ba 233.527†	1322.5	0.01700	mg/L	0.000161	0.01700	mg/L	0.000161	0.95%
Be 313.107†	68.3	0.00003	mg/L	0.000021	0.00003	mg/L	0.000021	72.32%
Co 228.616†	2.4	0.00007	mg/L	0.000061	0.00007	mg/L	0.000061	86.20%
Cr 267.716†	259.3	0.00404	mg/L	0.000234	0.00404	mg/L	0.000234	5.80%
Cu 324.752†	314.2	0.00159	mg/L	0.000317	0.00159	mg/L	0.000317	19.97%
Fe 273.955†	467.6	0.02104	mg/L	0.000471	0.02104	mg/L	0.000471	2.24%
Mg 279.077†	51570.9	3.2189	mg/L	0.02674	3.2189	mg/L	0.02674	0.83%
Mn 257.610†	695.1	0.00125	mg/L	0.000051	0.00125	mg/L	0.000051	4.06%
Ni 231.604†	63.4	0.00232	mg/L	0.000418	0.00232	mg/L	0.000418	18.04%
Pb 220.353†	2.7	0.00058	mg/L	0.000677	0.00058	mg/L	0.000677	116.42%
Sb 206.836†	-1.7	-0.00192	mg/L	0.003515	-0.00192	mg/L	0.003515	183.24%
Se 196.026†	-1.6	-0.00367	mg/L	0.011201	-0.00367	mg/L	0.011201	305.07%
Tl 190.801†	0.8	0.00144	mg/L	0.004025	0.00144	mg/L	0.004025	279.86%
V 292.402†	-33.2	-0.00029	mg/L	0.000353	-0.00029	mg/L	0.000353	122.46%
Zn 206.200†	230.9	0.01179	mg/L	0.000070	0.01179	mg/L	0.000070	0.60%
Cd 226.502†	226.2	0.00440	mg/L	0.000159	0.00440	mg/L	0.000159	3.62%
Ti 334.940†	-76.9	0.00001	mg/L	0.000024	0.00001	mg/L	0.000024	249.33%
Ca 227.546†	2449.1	13.701	mg/L	0.1194	13.701	mg/L	0.1194	0.87%
Na 589.592†	116672.2	25.942	mg/L	0.3068	25.942	mg/L	0.3068	1.18%
K 766.490†	1367.8	1.3881	mg/L	0.15351	1.3881	mg/L	0.15351	11.06%

Sequence No.: 65

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 6:07:04 PM

Data Type: Reprocessed on 8/31/2012 8:26:31 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1694492.7	97.031	%	0.2920				0.30%
Lu 261.542	1105586.6	97.41	%	0.413				0.42%
Ag 328.068†	200332.9	1.2761	mg/L	0.01249	1.2761	mg/L	0.01249	0.98%
QC value within limits for Ag 328.068 Recovery = 102.09%								
Al 308.215†	187960.4	10.105	mg/L	0.0926	10.105	mg/L	0.0926	0.92%
QC value within limits for Al 308.215 Recovery = 101.05%								
As 188.979†	379.6	0.50983	mg/L	0.003014	0.50983	mg/L	0.003014	0.59%
QC value within limits for As 188.979 Recovery = 101.97%								
Ba 233.527†	819655.2	10.541	mg/L	0.0968	10.541	mg/L	0.0968	0.92%
QC value within limits for Ba 233.527 Recovery = 105.41%								
Be 313.107†	584557.1	0.25194	mg/L	0.002415	0.25194	mg/L	0.002415	0.96%
QC value within limits for Be 313.107 Recovery = 100.78%								
Co 228.616†	85862.3	2.6026	mg/L	0.03023	2.6026	mg/L	0.03023	1.16%
QC value within limits for Co 228.616 Recovery = 104.10%								
Cr 267.716†	64299.8	1.0014	mg/L	0.01297	1.0014	mg/L	0.01297	1.29%
QC value within limits for Cr 267.716 Recovery = 100.14%								
Cu 324.752†	254268.7	1.2851	mg/L	0.01395	1.2851	mg/L	0.01395	1.09%
QC value within limits for Cu 324.752 Recovery = 102.81%								
Fe 273.955†	113105.1	5.0938	mg/L	0.07024	5.0938	mg/L	0.07024	1.38%
QC value within limits for Fe 273.955 Recovery = 101.88%								
Mg 279.077†	411654.9	25.692	mg/L	0.2677	25.692	mg/L	0.2677	1.04%
QC value within limits for Mg 279.077 Recovery = 102.77%								
Mn 257.610†	1389249.9	2.5672	mg/L	0.02363	2.5672	mg/L	0.02363	0.92%
QC value within limits for Mn 257.610 Recovery = 102.69%								
Ni 231.604†	69953.7	2.5740	mg/L	0.03282	2.5740	mg/L	0.03282	1.27%
QC value within limits for Ni 231.604 Recovery = 102.96%								
Pb 220.353†	2335.6	0.49880	mg/L	0.004591	0.49880	mg/L	0.004591	0.92%
QC value within limits for Pb 220.353 Recovery = 99.76%								
Sb 206.836†	604.4	0.57833	mg/L	0.002573	0.57833	mg/L	0.002573	0.44%
QC value greater than the upper limit for Sb 206.836 Recovery = 115.67%								
Se 196.026†	221.6	0.50091	mg/L	0.006871	0.50091	mg/L	0.006871	1.37%
QC value within limits for Se 196.026 Recovery = 100.18%								
Tl 190.801†	307.0	0.48492	mg/L	0.004533	0.48492	mg/L	0.004533	0.93%
QC value within limits for Tl 190.801 Recovery = 96.98%								
V 292.402†	287196.5	2.5787	mg/L	0.02763	2.5787	mg/L	0.02763	1.07%
QC value within limits for V 292.402 Recovery = 103.15%								
Zn 206.200†	50018.1	2.5561	mg/L	0.03102	2.5561	mg/L	0.03102	1.21%
QC value within limits for Zn 206.200 Recovery = 102.24%								
Cd 226.502†	12681.3	0.24901	mg/L	0.002330	0.24901	mg/L	0.002330	0.94%
QC value within limits for Cd 226.502 Recovery = 99.60%								
Ti 334.940†	247115.9	0.51626	mg/L	0.005888	0.51626	mg/L	0.005888	1.14%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4592.2	24.824	mg/L	0.2570	24.824	mg/L	0.2570	1.04%
QC value within limits for Ca 227.546 Recovery = 99.29%								
Na 589.592†	114678.6	25.499	mg/L	0.2014	25.499	mg/L	0.2014	0.79%
QC value within limits for Na 589.592 Recovery = 101.99%								
K 766.490†	24862.1	25.230	mg/L	0.1802	25.230	mg/L	0.1802	0.71%
QC value within limits for K 766.490 Recovery = 100.92%								
QC Failed. Continue with analysis.								

Sequence No.: 66

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 6:10:47 PM

Data Type: Reprocessed on 8/31/2012 8:26:32 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1782740.3	102.08	%	1.046				1.02%
Lu 261.542	1155902.0	101.8	%	1.01				0.99%
Ag 328.068†	90.6	0.00057	mg/L	0.000113	0.00057	mg/L	0.000113	19.75%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	40.3	0.00218	mg/L	0.003838	0.00218	mg/L	0.003838	175.94%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.1	0.00011	mg/L	0.003355	0.00011	mg/L	0.003355	>999.9%

QC value within limits for As 188.979 Recovery = Not calculated
Ba 233.527† 41.5 0.00053 mg/L 0.000141 0.00053 mg/L 0.000141 26.39%
QC value within limits for Ba 233.527 Recovery = Not calculated
Be 313.107† 81.4 0.00004 mg/L 0.000029 0.00004 mg/L 0.000029 82.38%
QC value within limits for Be 313.107 Recovery = Not calculated
Co 228.616† 2.1 0.00006 mg/L 0.000153 0.00006 mg/L 0.000153 245.73%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 13.4 0.00021 mg/L 0.000106 0.00021 mg/L 0.000106 50.93%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† 46.7 0.00024 mg/L 0.000240 0.00024 mg/L 0.000240 101.65%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 273.955† 52.4 0.00236 mg/L 0.000193 0.00236 mg/L 0.000193 8.19%
QC value within limits for Fe 273.955 Recovery = Not calculated
Mg 279.077† 124.9 0.00780 mg/L 0.002469 0.00780 mg/L 0.002469 31.67%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† 73.5 0.00014 mg/L 0.000013 0.00014 mg/L 0.000013 9.68%
QC value within limits for Mn 257.610 Recovery = Not calculated
Ni 231.604† 15.3 0.00056 mg/L 0.000126 0.00056 mg/L 0.000126 22.48%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 3.8 0.00080 mg/L 0.000283 0.00080 mg/L 0.000283 35.30%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -0.7 -0.00071 mg/L 0.003133 -0.00071 mg/L 0.003133 443.89%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 3.1 0.00693 mg/L 0.016223 0.00693 mg/L 0.016223 234.14%
QC value within limits for Se 196.026 Recovery = Not calculated
Tl 190.801† -0.8 -0.00135 mg/L 0.003551 -0.00135 mg/L 0.003551 263.52%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† -22.2 -0.00020 mg/L 0.000229 -0.00020 mg/L 0.000229 115.10%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 206.200† 19.4 0.00099 mg/L 0.000235 0.00099 mg/L 0.000235 23.77%
QC value within limits for Zn 206.200 Recovery = Not calculated
Cd 226.502† -0.2 0.00000 mg/L 0.000084 0.00000 mg/L 0.000084 >999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated
Ti 334.940† 27.9 0.00006 mg/L 0.000037 0.00006 mg/L 0.000037 64.37%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† -10.6 -0.05910 mg/L 0.041307 -0.05910 mg/L 0.041307 69.89%
QC value within limits for Ca 227.546 Recovery = Not calculated
Na 589.592† 24.2 0.00539 mg/L 0.008095 0.00539 mg/L 0.008095 150.20%
QC value within limits for Na 589.592 Recovery = Not calculated
K 766.490† -43.7 -0.04431 mg/L 0.081447 -0.04431 mg/L 0.081447 183.83%
QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 67

Sample ID: L1808-20A-DMW-15BF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 139

Date Collected: 8/30/2012 6:14:29 PM

Data Type: Reprocessed on 8/31/2012 8:26:33 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-20A-DMW-15BF

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1773901.8	101.58 %		0.746			0.73%
Lu 261.542	1161014.8	102.3 %		0.83			0.82%
Ag 328.068†	-48.0	-0.00039 mg/L		0.000778	-0.00039 mg/L	0.000778	200.96%
Al 308.215†	123.2	0.00380 mg/L		0.001155	0.00380 mg/L	0.001155	30.37%
As 188.979†	3.0	0.00431 mg/L		0.003014	0.00431 mg/L	0.003014	69.97%
Ba 233.527†	2289.7	0.02944 mg/L		0.000300	0.02944 mg/L	0.000300	1.02%
Be 313.107†	196.1	0.00008 mg/L		0.000016	0.00008 mg/L	0.000016	19.17%
Co 228.616†	44.8	0.00136 mg/L		0.000135	0.00136 mg/L	0.000135	9.98%
Cr 267.716†	14.9	0.00020 mg/L		0.000303	0.00020 mg/L	0.000303	154.13%
Cu 324.752†	3588.7	0.01813 mg/L		0.000692	0.01813 mg/L	0.000692	3.82%
Fe 273.955†	1074.8	0.04836 mg/L		0.000860	0.04836 mg/L	0.000860	1.78%
Mg 279.077†	72005.0	4.4943 mg/L		0.07269	4.4943 mg/L	0.07269	1.62%
Mn 257.610†	94427.2	0.17448 mg/L		0.002643	0.17448 mg/L	0.002643	1.51%
Ni 231.604†	74.8	0.00273 mg/L		0.000049	0.00273 mg/L	0.000049	1.79%
Pb 220.353†	5.4	0.00115 mg/L		0.000379	0.00115 mg/L	0.000379	32.96%
Sb 206.836†	-1.6	-0.00177 mg/L		0.002505	-0.00177 mg/L	0.002505	141.69%

Se 196.026†	-1.8	-0.00402 mg/L	0.006624	-0.00402 mg/L	0.006624	164.90%
Tl 190.801†	0.3	0.00073 mg/L	0.003461	0.00073 mg/L	0.003461	476.60%
V 292.402†	11.0	0.00009 mg/L	0.000266	0.00009 mg/L	0.000266	280.42%
Zn 206.200†	463.8	0.02373 mg/L	0.000235	0.02373 mg/L	0.000235	0.99%
Cd 226.502†	2.4	0.00001 mg/L	0.000055	0.00001 mg/L	0.000055	391.95%
Ti 334.940†	-54.8	0.00000 mg/L	0.000051	0.00000 mg/L	0.000051	>999.9%
Ca 227.546†	2061.7	11.532 mg/L	0.1519	11.532 mg/L	0.1519	1.32%
Na 589.592†	175851.5	39.100 mg/L	0.9297	39.100 mg/L	0.9297	2.38%
K 766.490†	1484.8	1.5068 mg/L	0.06187	1.5068 mg/L	0.06187	4.11%

Sequence No.: 68

Sample ID: L1808-21A-DMW-15AF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 140

Date Collected: 8/30/2012 6:18:19 PM

Data Type: Reprocessed on 8/31/2012 8:26:33 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-21A-DMW-15AF

Mean Corrected		Calib.	Sample					
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1750403.6	100.23	%	0.201				0.20%
Lu 261.542	1141697.1	100.6	%	0.19				0.19%
Ag 328.068†	-89.2	-0.00060	mg/L	0.000362	-0.00060	mg/L	0.000362	60.37%
Al 308.215†	58.1	0.00028	mg/L	0.000696	0.00028	mg/L	0.000696	252.32%
As 188.979†	-0.2	0.00022	mg/L	0.004035	0.00022	mg/L	0.004035	>999.9%
Ba 233.527†	1165.0	0.01498	mg/L	0.000050	0.01498	mg/L	0.000050	0.34%
Be 313.107†	31.4	0.00001	mg/L	0.000040	0.00001	mg/L	0.000040	306.80%
Co 228.616†	3.5	0.00011	mg/L	0.000125	0.00011	mg/L	0.000125	116.09%
Cr 267.716†	74.7	0.00115	mg/L	0.000922	0.00115	mg/L	0.000922	79.90%
Cu 324.752†	73.4	0.00037	mg/L	0.000334	0.00037	mg/L	0.000334	89.86%
Fe 273.955†	152.7	0.00687	mg/L	0.000344	0.00687	mg/L	0.000344	5.01%
Mg 279.077†	39134.3	2.4426	mg/L	0.02556	2.4426	mg/L	0.02556	1.05%
Mn 257.610†	22260.0	0.04112	mg/L	0.000475	0.04112	mg/L	0.000475	1.16%
Ni 231.604†	29.4	0.00107	mg/L	0.000373	0.00107	mg/L	0.000373	34.89%
Pb 220.353†	-2.5	-0.00054	mg/L	0.000832	-0.00054	mg/L	0.000832	155.40%
Sb 206.836†	-0.0	-0.00025	mg/L	0.002271	-0.00025	mg/L	0.002271	906.00%
Se 196.026†	-1.0	-0.00230	mg/L	0.012355	-0.00230	mg/L	0.012355	536.84%
Tl 190.801†	2.5	0.00419	mg/L	0.004893	0.00419	mg/L	0.004893	116.92%
V 292.402†	-14.7	-0.00013	mg/L	0.000138	-0.00013	mg/L	0.000138	106.82%
Zn 206.200†	31.8	0.00164	mg/L	0.000135	0.00164	mg/L	0.000135	8.25%
Cd 226.502†	498.6	0.00975	mg/L	0.000177	0.00975	mg/L	0.000177	1.82%
Ti 334.940†	-123.5	-0.00008	mg/L	0.000071	-0.00008	mg/L	0.000071	90.41%
Ca 227.546†	2400.2	13.428	mg/L	0.1144	13.428	mg/L	0.1144	0.85%
Na 589.592†	91601.6	20.367	mg/L	0.3081	20.367	mg/L	0.3081	1.51%
K 766.490†	2197.7	2.2303	mg/L	0.05122	2.2303	mg/L	0.05122	2.30%

Sequence No.: 69

Sample ID: L1808-22A-DMW-23BF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 141

Date Collected: 8/30/2012 6:22:02 PM

Data Type: Reprocessed on 8/31/2012 8:26:34 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-22A-DMW-23BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1799164.6	103.03	%	1.409				1.37%
Lu 261.542	1173159.6	103.4	%	1.47				1.42%
Ag 328.068†	0.7	-0.00005	mg/L	0.000330	-0.00005	mg/L	0.000330	619.44%
Al 308.215†	49.8	-0.00118	mg/L	0.003278	-0.00118	mg/L	0.003278	278.58%
As 188.979†	0.7	0.00154	mg/L	0.001295	0.00154	mg/L	0.001295	84.15%
Ba 233.527†	2084.8	0.02680	mg/L	0.000385	0.02680	mg/L	0.000385	1.44%
Be 313.107†	20.1	0.00001	mg/L	0.000027	0.00001	mg/L	0.000027	342.09%
Co 228.616†	20.8	0.00063	mg/L	0.000085	0.00063	mg/L	0.000085	13.47%
Cr 267.716†	505.9	0.00785	mg/L	0.000340	0.00785	mg/L	0.000340	4.33%
Cu 324.752†	-17.6	-0.00008	mg/L	0.000414	-0.00008	mg/L	0.000414	531.90%
Fe 273.955†	2603.7	0.11716	mg/L	0.003225	0.11716	mg/L	0.003225	2.75%

Mg 279.077†	46608.2	2.9091 mg/L	0.08059	2.9091 mg/L	0.08059	2.77%
Mn 257.610†	72859.9	0.13463 mg/L	0.003583	0.13463 mg/L	0.003583	2.66%
Ni 231.604†	36.5	0.00133 mg/L	0.000209	0.00133 mg/L	0.000209	15.72%
Pb 220.353†	2.1	0.00046 mg/L	0.000144	0.00046 mg/L	0.000144	31.06%
Sb 206.836†	-1.9	-0.00231 mg/L	0.003672	-0.00231 mg/L	0.003672	159.27%
Se 196.026†	0.4	0.00103 mg/L	0.004242	0.00103 mg/L	0.004242	411.99%
Tl 190.801†	1.5	0.00266 mg/L	0.001872	0.00266 mg/L	0.001872	70.33%
V 292.402†	-17.5	-0.00013 mg/L	0.000242	-0.00013 mg/L	0.000242	178.99%
Zn 206.200†	87.2	0.00452 mg/L	0.000296	0.00452 mg/L	0.000296	6.55%
Cd 226.502†	1688.9	0.03308 mg/L	0.000421	0.03308 mg/L	0.000421	1.27%
Ti 334.940†	-154.2	-0.00008 mg/L	0.000024	-0.00008 mg/L	0.000024	30.00%
Ca 227.546†	3158.5	17.669 mg/L	0.3120	17.669 mg/L	0.3120	1.77%
Na 589.592†	66075.0	14.692 mg/L	0.1655	14.692 mg/L	0.1655	1.13%
K 766.490†	1793.6	1.8202 mg/L	0.04847	1.8202 mg/L	0.04847	2.66%

Sequence No.: 70

Sample ID: L1808-23A-DMW-13BF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 142

Date Collected: 8/30/2012 6:25:45 PM

Data Type: Reprocessed on 8/31/2012 8:26:34 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-23A-DMW-13BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1770997.0	101.41	%	0.415				0.41%
Lu 261.542	1153111.3	101.6	%	0.36				0.35%
Ag 328.068†	-97.9	-0.00064	mg/L	0.000611	-0.00064	mg/L	0.000611	95.27%
Al 308.215†	16.2	-0.00134	mg/L	0.001182	-0.00134	mg/L	0.001182	88.39%
As 188.979†	-1.2	-0.00100	mg/L	0.003755	-0.00100	mg/L	0.003755	373.88%
Ba 233.527†	1738.6	0.02235	mg/L	0.000101	0.02235	mg/L	0.000101	0.45%
Be 313.107†	39.7	0.00002	mg/L	0.000023	0.00002	mg/L	0.000023	135.97%
Co 228.616†	8.2	0.00025	mg/L	0.000179	0.00025	mg/L	0.000179	72.25%
Cr 267.716†	1372.2	0.02136	mg/L	0.000536	0.02136	mg/L	0.000536	2.51%
Cu 324.752†	60.8	0.00031	mg/L	0.000199	0.00031	mg/L	0.000199	64.70%
Fe 273.955†	158.1	0.00711	mg/L	0.000570	0.00711	mg/L	0.000570	8.01%
Mg 279.077†	24793.1	1.5474	mg/L	0.02321	1.5474	mg/L	0.02321	1.50%
Mn 257.610†	10654.8	0.01968	mg/L	0.000316	0.01968	mg/L	0.000316	1.61%
Ni 231.604†	11.6	0.00042	mg/L	0.000395	0.00042	mg/L	0.000395	93.73%
Pb 220.353†	1.3	0.00027	mg/L	0.000817	0.00027	mg/L	0.000817	298.06%
Sb 206.836†	0.3	-0.00021	mg/L	0.003804	-0.00021	mg/L	0.003804	>999.9%
Se 196.026†	1.5	0.00345	mg/L	0.005898	0.00345	mg/L	0.005898	170.76%
Tl 190.801†	-1.3	-0.00212	mg/L	0.002419	-0.00212	mg/L	0.002419	114.35%
V 292.402†	-12.9	-0.00007	mg/L	0.000374	-0.00007	mg/L	0.000374	559.95%
Zn 206.200†	40.5	0.00211	mg/L	0.000224	0.00211	mg/L	0.000224	10.63%
Cd 226.502†	59.2	0.00113	mg/L	0.000066	0.00113	mg/L	0.000066	5.80%
Ti 334.940†	-74.8	-0.00001	mg/L	0.000028	-0.00001	mg/L	0.000028	296.16%
Ca 227.546†	1896.9	10.612	mg/L	0.0627	10.612	mg/L	0.0627	0.59%
Na 589.592†	40260.1	8.9517	mg/L	0.12179	8.9517	mg/L	0.12179	1.36%
K 766.490†	1339.5	1.3593	mg/L	0.02520	1.3593	mg/L	0.02520	1.85%

Sequence No.: 71

Sample ID: L1808-24A-DMW-23AF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 143

Date Collected: 8/30/2012 6:29:28 PM

Data Type: Reprocessed on 8/31/2012 8:26:35 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-24A-DMW-23AF

Mean Data: 11000 L in 1000 L								
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1703470.9	97.546	%	0.4501				0.46%
Lu 261.542	1113979.0	98.15	%	0.499				0.51%
Ag 328.068†	-1.5	-0.00031	mg/L	0.000358	-0.00031	mg/L	0.000358	117.34%
Al 308.215†	529.7	0.02122	mg/L	0.001210	0.02122	mg/L	0.001210	5.70%
As 188.979†	-4.9	-0.00570	mg/L	0.004839	-0.00570	mg/L	0.004839	84.91%
Ba 233.527†	2126.7	0.02734	mg/L	0.000196	0.02734	mg/L	0.000196	0.72%

Be 313.107†	-25.2	-0.00001 mg/L	0.000023	-0.00001 mg/L	0.000023	205.13%
Co 228.616†	10.3	0.00030 mg/L	0.000091	0.00030 mg/L	0.000091	30.65%
Cr 267.716†	269.9	0.00396 mg/L	0.000449	0.00396 mg/L	0.000449	11.34%
Cu 324.752†	402.5	0.00209 mg/L	0.000552	0.00209 mg/L	0.000552	26.42%
Fe 273.955†	13370.4	0.60165 mg/L	0.009983	0.60165 mg/L	0.009983	1.66%
Mg 279.077†	76146.0	4.7528 mg/L	0.08191	4.7528 mg/L	0.08191	1.72%
Mn 257.610†	632393.1	1.1687 mg/L	0.00319	1.1687 mg/L	0.00319	0.27%
Ni 231.604†	54.2	0.00198 mg/L	0.000382	0.00198 mg/L	0.000382	19.35%
Pb 220.353†	0.6	0.00019 mg/L	0.001000	0.00019 mg/L	0.001000	522.42%
Sb 206.836†	-0.5	-0.00094 mg/L	0.002970	-0.00094 mg/L	0.002970	316.46%
Se 196.026†	2.9	0.00665 mg/L	0.002097	0.00665 mg/L	0.002097	31.53%
Tl 190.801†	-0.9	-0.00093 mg/L	0.004873	-0.00093 mg/L	0.004873	524.02%
V 292.402†	21.4	0.00022 mg/L	0.000413	0.00022 mg/L	0.000413	188.29%
Zn 206.200†	104.9	0.00585 mg/L	0.000248	0.00585 mg/L	0.000248	4.24%
Cd 226.502†	175.9	0.00334 mg/L	0.000075	0.00334 mg/L	0.000075	2.23%
Ti 334.940†	-139.9	0.00006 mg/L	0.000053	0.00006 mg/L	0.000053	83.19%
Ca 227.546†	4727.8	26.441 mg/L	0.2917	26.441 mg/L	0.2917	1.10%
Na 589.592†	330192.9	73.418 mg/L	1.0692	73.418 mg/L	1.0692	1.46%
K 766.490†	5707.1	5.7917 mg/L	0.20087	5.7917 mg/L	0.20087	3.47%

Sequence No.: 72

Sample ID: L1808-25A-DMW-13AF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 144

Date Collected: 8/30/2012 6:33:12 PM

Data Type: Reprocessed on 8/31/2012 8:26:36 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-25A-DMW-13AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1793531.4	102.70	%	1.003				0.98%
Lu 261.542	1173398.1	103.4	%	0.97				0.93%
Ag 328.068†	51.9	-0.00041 mg/L		0.000174	-0.00041 mg/L		0.000174	42.46%
Al 308.215†	501.4	0.02011 mg/L		0.003323	0.02011 mg/L		0.003323	16.53%
As 188.979†	-0.7	-0.00129 mg/L		0.001436	-0.00129 mg/L		0.001436	111.53%
Ba 233.527†	2443.3	0.03141 mg/L		0.000435	0.03141 mg/L		0.000435	1.39%
Be 313.107†	52.8	0.00002 mg/L		0.000028	0.00002 mg/L		0.000028	119.06%
Co 228.616†	500.0	0.01513 mg/L		0.000209	0.01513 mg/L		0.000209	1.38%
Cr 267.716†	165.2	0.00187 mg/L		0.000465	0.00187 mg/L		0.000465	24.86%
Cu 324.752†	386.7	0.00210 mg/L		0.000863	0.00210 mg/L		0.000863	41.07%
Fe 273.955†	35164.2	1.5823 mg/L		0.01719	1.5823 mg/L		0.01719	1.09%
Mg 279.077†	15387.2	0.96041 mg/L		0.006494	0.96041 mg/L		0.006494	0.68%
Mn 257.610†	1855234.5	3.4288 mg/L		0.06387	3.4288 mg/L		0.06387	1.86%
Ni 231.604†	73.2	0.00269 mg/L		0.000011	0.00269 mg/L		0.000011	0.42%
Pb 220.353†	-0.4	0.00010 mg/L		0.000158	0.00010 mg/L		0.000158	154.68%
Sb 206.836†	-5.0	-0.00519 mg/L		0.003280	-0.00519 mg/L		0.003280	63.24%
Se 196.026†	0.7	0.00225 mg/L		0.005529	0.00225 mg/L		0.005529	245.86%
Tl 190.801†	0.7	0.00251 mg/L		0.001605	0.00251 mg/L		0.001605	63.87%
V 292.402†	-41.2	-0.00032 mg/L		0.000244	-0.00032 mg/L		0.000244	77.20%
Zn 206.200†	57.4	0.00439 mg/L		0.000192	0.00439 mg/L		0.000192	4.38%
Cd 226.502†	3289.5	0.06440 mg/L		0.000604	0.06440 mg/L		0.000604	0.94%
Ti 334.940†	164.9	0.00046 mg/L		0.000053	0.00046 mg/L		0.000053	11.53%
Ca 227.546†	1399.8	7.8021 mg/L		0.06700	7.8021 mg/L		0.06700	0.86%
Na 589.592†	211021.5	46.920 mg/L		0.4510	46.920 mg/L		0.4510	0.96%
K 766.490†	2111.2	2.1425 mg/L		0.04967	2.1425 mg/L		0.04967	2.32%

Sequence No.: 73

Sample ID: L1808-26A-DMW-22BF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 145

Date Collected: 8/30/2012 6:37:02 PM

Data Type: Reprocessed on 8/31/2012 8:26:36 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-26A-DMW-22BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1713667.4	98.129	%	1.5801				1.61%

Lu 261.542	1117056.9	98.42 %	1.526			1.55%
Ag 328.068†	-18.8	-0.00031 mg/L	0.000557	-0.00031 mg/L	0.000557	177.61%
Al 308.215†	128.3	0.00112 mg/L	0.000389	0.00112 mg/L	0.000389	34.76%
As 188.979†	0.6	0.00146 mg/L	0.003593	0.00146 mg/L	0.003593	245.52%
Ba 233.527†	3146.8	0.04046 mg/L	0.000673	0.04046 mg/L	0.000673	1.66%
Be 313.107†	-74.4	-0.00003 mg/L	0.000015	-0.00003 mg/L	0.000015	45.87%
Co 228.616†	7.6	0.00023 mg/L	0.000144	0.00023 mg/L	0.000144	62.68%
Cr 267.716†	50.6	0.00064 mg/L	0.000262	0.00064 mg/L	0.000262	40.99%
Cu 324.752†	209.3	0.00106 mg/L	0.000264	0.00106 mg/L	0.000264	25.00%
Fe 273.955†	99.3	0.00447 mg/L	0.000352	0.00447 mg/L	0.000352	7.88%
Mg 279.077†	63267.7	3.9489 mg/L	0.04190	3.9489 mg/L	0.04190	1.06%
Mn 257.610†	393067.3	0.72643 mg/L	0.010569	0.72643 mg/L	0.010569	1.45%
Ni 231.604†	15.2	0.00054 mg/L	0.000429	0.00054 mg/L	0.000429	78.71%
Pb 220.353†	-2.3	-0.00044 mg/L	0.001249	-0.00044 mg/L	0.001249	285.28%
Sb 206.836†	-3.6	-0.00392 mg/L	0.004331	-0.00392 mg/L	0.004331	110.58%
Se 196.026†	2.0	0.00451 mg/L	0.002849	0.00451 mg/L	0.002849	63.17%
Tl 190.801†	-1.2	-0.00164 mg/L	0.002128	-0.00164 mg/L	0.002128	129.84%
V 292.402†	-8.4	-0.00007 mg/L	0.000416	-0.00007 mg/L	0.000416	566.35%
Zn 206.200†	57.7	0.00323 mg/L	0.000236	0.00323 mg/L	0.000236	7.29%
Cd 226.502†	8.7	0.00011 mg/L	0.000044	0.00011 mg/L	0.000044	39.39%
Ti 334.940†	-236.1	-0.00019 mg/L	0.000089	-0.00019 mg/L	0.000089	47.67%
Ca 227.546†	4025.5	22.518 mg/L	0.4699	22.518 mg/L	0.4699	2.09%
Na 589.592†	85575.8	19.028 mg/L	0.3829	19.028 mg/L	0.3829	2.01%
K 766.490†	4206.5	4.2688 mg/L	0.13993	4.2688 mg/L	0.13993	3.28%

Sequence No.: 74

Sample ID: L1808-27A-DMW-22AF

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 146

Date Collected: 8/30/2012 6:40:46 PM

Data Type: Reprocessed on 8/31/2012 8:26:37 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-27A-DMW-22AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1703756.6	97.562 %	%	1.9211				1.97%
Lu 261.542	1113637.0	98.12 %	%	2.028				2.07%
Ag 328.068†	-48.6	-0.00045 mg/L	mg/L	0.000819	-0.00045 mg/L	mg/L	0.000819	183.98%
Al 308.215†	208.8	0.00476 mg/L	mg/L	0.003444	0.00476 mg/L	mg/L	0.003444	72.42%
As 188.979†	-2.6	-0.00225 mg/L	mg/L	0.002303	-0.00225 mg/L	mg/L	0.002303	102.28%
Ba 233.527†	2938.6	0.03778 mg/L	mg/L	0.000909	0.03778 mg/L	mg/L	0.000909	2.41%
Be 313.107†	13.0	0.00000 mg/L	mg/L	0.000042	0.00000 mg/L	mg/L	0.000042	922.32%
Co 228.616†	13.0	0.00033 mg/L	mg/L	0.000177	0.00033 mg/L	mg/L	0.000177	53.88%
Cr 267.716†	115.6	0.00171 mg/L	mg/L	0.000552	0.00171 mg/L	mg/L	0.000552	32.29%
Cu 324.752†	124.3	0.00088 mg/L	mg/L	0.000049	0.00088 mg/L	mg/L	0.000049	5.57%
Fe 273.955†	59738.5	2.6881 mg/L	mg/L	0.06469	2.6881 mg/L	mg/L	0.06469	2.41%
Mg 279.077†	67486.2	4.2123 mg/L	mg/L	0.11575	4.2123 mg/L	mg/L	0.11575	2.75%
Mn 257.610†	239757.6	0.44308 mg/L	mg/L	0.006771	0.44308 mg/L	mg/L	0.006771	1.53%
Ni 231.604†	14.9	0.00053 mg/L	mg/L	0.000163	0.00053 mg/L	mg/L	0.000163	30.64%
Pb 220.353†	-5.4	-0.00117 mg/L	mg/L	0.001992	-0.00117 mg/L	mg/L	0.001992	169.97%
Sb 206.836†	-5.5	-0.00594 mg/L	mg/L	0.001715	-0.00594 mg/L	mg/L	0.001715	28.88%
Se 196.026†	-0.3	0.00044 mg/L	mg/L	0.018384	0.00044 mg/L	mg/L	0.018384	>999.9%
Tl 190.801†	0.5	0.00139 mg/L	mg/L	0.000989	0.00139 mg/L	mg/L	0.000989	70.97%
V 292.402†	-34.1	-0.00022 mg/L	mg/L	0.000597	-0.00022 mg/L	mg/L	0.000597	273.46%
Zn 206.200†	310.1	0.01613 mg/L	mg/L	0.000389	0.01613 mg/L	mg/L	0.000389	2.41%
Cd 226.502†	12.5	-0.00003 mg/L	mg/L	0.000083	-0.00003 mg/L	mg/L	0.000083	277.28%
Ti 334.940†	-256.3	-0.00014 mg/L	mg/L	0.000013	-0.00014 mg/L	mg/L	0.000013	9.43%
Ca 227.546†	5049.5	28.228 mg/L	mg/L	0.8033	28.228 mg/L	mg/L	0.8033	2.85%
Na 589.592†	274238.6	60.976 mg/L	mg/L	0.7694	60.976 mg/L	mg/L	0.7694	1.26%
K 766.490†	2998.6	3.0430 mg/L	mg/L	0.10811	3.0430 mg/L	mg/L	0.10811	3.55%

Sequence No.: 75

Sample ID: L1808-28A-DMW-18F

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 147

Date Collected: 8/30/2012 6:44:36 PM

Data Type: Reprocessed on 8/31/2012 8:26:38 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-28A~DMW-18F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1688881.3	96.710	%	0.5083				0.53%
Lu 261.542	1101423.6	97.04	%	0.621				0.64%
Ag 328.068†	-39.5	-0.00028	mg/L	0.000542	-0.00028	mg/L	0.000542	193.22%
Al 308.215†	98.8	0.00232	mg/L	0.001104	0.00232	mg/L	0.001104	47.57%
As 188.979†	-3.4	-0.00399	mg/L	0.001854	-0.00399	mg/L	0.001854	46.44%
Ba 233.527†	1324.0	0.01702	mg/L	0.000080	0.01702	mg/L	0.000080	0.47%
Be 313.107†	-4.1	0.00000	mg/L	0.000011	0.00000	mg/L	0.000011	454.43%
Co 228.616†	-2.2	-0.00007	mg/L	0.000122	-0.00007	mg/L	0.000122	187.65%
Cr 267.716†	-4.9	-0.00008	mg/L	0.000300	-0.00008	mg/L	0.000300	367.94%
Cu 324.752†	226.1	0.00114	mg/L	0.000061	0.00114	mg/L	0.000061	5.32%
Fe 273.955†	45.9	0.00207	mg/L	0.000275	0.00207	mg/L	0.000275	13.31%
Mg 279.077†	38565.4	2.4071	mg/L	0.02337	2.4071	mg/L	0.02337	0.97%
Mn 257.610†	12673.7	0.02340	mg/L	0.000155	0.02340	mg/L	0.000155	0.66%
Ni 231.604†	16.6	0.00060	mg/L	0.000373	0.00060	mg/L	0.000373	62.25%
Pb 220.353†	-2.9	-0.00061	mg/L	0.001191	-0.00061	mg/L	0.001191	194.02%
Sb 206.836†	-3.2	-0.00339	mg/L	0.002733	-0.00339	mg/L	0.002733	80.65%
Se 196.026†	-1.4	-0.00314	mg/L	0.002798	-0.00314	mg/L	0.002798	89.11%
Tl 190.801†	-0.1	-0.00016	mg/L	0.003521	-0.00016	mg/L	0.003521	>999.9%
V 292.402†	-45.0	-0.00040	mg/L	0.000084	-0.00040	mg/L	0.000084	20.82%
Zn 206.200†	85.0	0.00435	mg/L	0.000197	0.00435	mg/L	0.000197	4.53%
Cd 226.502†	3.1	0.00002	mg/L	0.000050	0.00002	mg/L	0.000050	216.88%
Ti 334.940†	-164.6	-0.00015	mg/L	0.000106	-0.00015	mg/L	0.000106	71.44%
Ca 227.546†	2558.7	14.315	mg/L	0.1557	14.315	mg/L	0.1557	1.09%
Na 589.592†	84212.0	18.724	mg/L	0.0604	18.724	mg/L	0.0604	0.32%
K 766.490†	2371.6	2.4068	mg/L	0.03971	2.4068	mg/L	0.03971	1.65%

Sequence No.: 76

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/30/2012 6:48:19 PM

Data Type: Reprocessed on 8/31/2012 8:26:39 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1624970.2	93.050	%	0.5019				0.54%
Lu 261.542	1060894.0	93.47	%	0.646				0.69%
Ag 328.068†	203796.0	1.2981	mg/L	0.00199	1.2981	mg/L	0.00199	0.15%
QC value within limits for Ag 328.068 Recovery = 103.85%								
Al 308.215†	191801.9	10.311	mg/L	0.0197	10.311	mg/L	0.0197	0.19%
QC value within limits for Al 308.215 Recovery = 103.11%								
As 188.979†	382.1	0.51338	mg/L	0.003794	0.51338	mg/L	0.003794	0.74%
QC value within limits for As 188.979 Recovery = 102.68%								
Ba 233.527†	832972.1	10.712	mg/L	0.0169	10.712	mg/L	0.0169	0.16%
QC value within limits for Ba 233.527 Recovery = 107.12%								
Be 313.107†	594897.7	0.25640	mg/L	0.000625	0.25640	mg/L	0.000625	0.24%
QC value within limits for Be 313.107 Recovery = 102.56%								
Co 228.616†	87645.0	2.6566	mg/L	0.02024	2.6566	mg/L	0.02024	0.76%
QC value within limits for Co 228.616 Recovery = 106.27%								
Cr 267.716†	65528.9	1.0205	mg/L	0.00971	1.0205	mg/L	0.00971	0.95%
QC value within limits for Cr 267.716 Recovery = 102.05%								
Cu 324.752†	259469.8	1.3114	mg/L	0.00367	1.3114	mg/L	0.00367	0.28%
QC value within limits for Cu 324.752 Recovery = 104.91%								
Fe 273.955†	115457.2	5.1997	mg/L	0.04386	5.1997	mg/L	0.04386	0.84%
QC value within limits for Fe 273.955 Recovery = 103.99%								
Mg 279.077†	417209.6	26.038	mg/L	0.0746	26.038	mg/L	0.0746	0.29%
QC value within limits for Mg 279.077 Recovery = 104.15%								
Mn 257.610†	1415630.9	2.6160	mg/L	0.00536	2.6160	mg/L	0.00536	0.20%
QC value within limits for Mn 257.610 Recovery = 104.64%								
Ni 231.604†	71267.7	2.6224	mg/L	0.02186	2.6224	mg/L	0.02186	0.83%
QC value within limits for Ni 231.604 Recovery = 104.89%								
Pb 220.353†	2391.1	0.51063	mg/L	0.003937	0.51063	mg/L	0.003937	0.77%
QC value within limits for Pb 220.353 Recovery = 102.13%								
Sb 206.836†	621.3	0.59464	mg/L	0.006157	0.59464	mg/L	0.006157	1.04%

QC value greater than the upper limit for Sb 206.836 Recovery = 118.93%

Se 196.026† 228.3 0.51598 mg/L 0.011768 0.51598 mg/L 0.011768 2.28%

QC value within limits for Se 196.026 Recovery = 103.20%

Tl 190.801† 313.4 0.49496 mg/L 0.007107 0.49496 mg/L 0.007107 1.44%

QC value within limits for Tl 190.801 Recovery = 98.99%

V 292.402† 291734.9 2.6194 mg/L 0.00433 2.6194 mg/L 0.00433 0.17%

QC value within limits for V 292.402 Recovery = 104.78%

Zn 206.200† 51095.9 2.6112 mg/L 0.02340 2.6112 mg/L 0.02340 0.90%

QC value within limits for Zn 206.200 Recovery = 104.45%

Cd 226.502† 12925.0 0.25379 mg/L 0.002060 0.25379 mg/L 0.002060 0.81%

QC value within limits for Cd 226.502 Recovery = 101.52%

Ti 334.940† 251210.8 0.52482 mg/L 0.001722 0.52482 mg/L 0.001722 0.33%

QC value within limits for Ti 334.940 Recovery = Not calculated

Ca 227.546† 4697.3 25.394 mg/L 0.3403 25.394 mg/L 0.3403 1.34%

QC value within limits for Ca 227.546 Recovery = 101.58%

Na 589.592† 117820.3 26.197 mg/L 0.3582 26.197 mg/L 0.3582 1.37%

QC value within limits for Na 589.592 Recovery = 104.79%

K 766.490† 25652.6 26.033 mg/L 0.2316 26.033 mg/L 0.2316 0.89%

QC value within limits for K 766.490 Recovery = 104.13%

QC Failed. Continue with analysis.

Sequence No.: 77

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : mitOptima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/30/2012 6:52:02 PM

Data Type: Reprocessed on 8/31/2012 8:26:39 AM

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 360.073	1689863.0	96.766 %	0.9286			0.96%
Lu 261.542	1096708.9	96.63 %	1.028			1.06%
Ag 328.068†	124.2	0.00079 mg/L	0.000559	0.00079 mg/L	0.000559	70.95%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 308.215†	101.1	0.00545 mg/L	0.007337	0.00545 mg/L	0.007337	134.70%
QC value within limits for Al 308.215						Recovery = Not calculated
As 188.979†	-2.2	-0.00291 mg/L	0.000931	-0.00291 mg/L	0.000931	32.00%
QC value within limits for As 188.979						Recovery = Not calculated
Ba 233.527†	37.2	0.00048 mg/L	0.000203	0.00048 mg/L	0.000203	42.58%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 313.107†	86.8	0.00004 mg/L	0.000003	0.00004 mg/L	0.000003	8.93%
QC value within limits for Be 313.107						Recovery = Not calculated
Co 228.616†	4.2	0.00013 mg/L	0.000228	0.00013 mg/L	0.000228	180.74%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	0.5	0.00001 mg/L	0.000077	0.00001 mg/L	0.000077	>999.9%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 324.752†	41.9	0.00021 mg/L	0.000226	0.00021 mg/L	0.000226	106.80%
QC value within limits for Cu 324.752						Recovery = Not calculated
Fe 273.955†	40.8	0.00183 mg/L	0.000900	0.00183 mg/L	0.000900	49.09%
QC value within limits for Fe 273.955						Recovery = Not calculated
Mg 279.077†	-3.5	-0.00022 mg/L	0.001121	-0.00022 mg/L	0.001121	509.30%
QC value within limits for Mg 279.077						Recovery = Not calculated
Mn 257.610†	63.2	0.00012 mg/L	0.000080	0.00012 mg/L	0.000080	68.61%
QC value within limits for Mn 257.610						Recovery = Not calculated
Ni 231.604†	10.8	0.00040 mg/L	0.000337	0.00040 mg/L	0.000337	84.81%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	-1.5	-0.00032 mg/L	0.000678	-0.00032 mg/L	0.000678	211.10%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	2.4	0.00240 mg/L	0.003705	0.00240 mg/L	0.003705	154.23%
QC value within limits for Sb 206.836						Recovery = Not calculated
Se 196.026†	3.1	0.00701 mg/L	0.013783	0.00701 mg/L	0.013783	196.54%
QC value within limits for Se 196.026						Recovery = Not calculated
Tl 190.801†	-0.3	-0.00056 mg/L	0.004947	-0.00056 mg/L	0.004947	887.37%
QC value within limits for Tl 190.801						Recovery = Not calculated
V 292.402†	-23.8	-0.00021 mg/L	0.000338	-0.00021 mg/L	0.000338	158.11%
QC value within limits for V 292.402						Recovery = Not calculated
Zn 206.200†	16.4	0.00084 mg/L	0.000226	0.00084 mg/L	0.000226	27.08%
QC value within limits for Zn 206.200						Recovery = Not calculated

Cd 226.502†	-12.1	-0.00024 mg/L	0.000061	-0.00024 mg/L	0.000061	25.86%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Ti 334.940†	92.1	0.00019 mg/L	0.000082	0.00019 mg/L	0.000082	42.82%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	-5.6	-0.03117 mg/L	0.051609	-0.03117 mg/L	0.051609	165.58%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Na 589.592†	82.8	0.01841 mg/L	0.004173	0.01841 mg/L	0.004173	22.66%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	117.7	0.11940 mg/L	0.054045	0.11940 mg/L	0.054045	45.26%
QC value within limits for K 766.490 Recovery = Not calculated						

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 8/31/2012 8:50:09 AM

Plasma On Time: 8/31/2012 8:12:42 AM

Logged In Analyst: mitOptima3

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N3102302 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0830B.sif

Batch ID: Null

Results Data Set: B12083101

Results Library: C:\pe\Administrator\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: S0

Date Collected: 8/31/2012 8:50:26 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1742458.8	18674.49	1.07%	100.00	%
Lu 261.542	1118733.9	13409.91	1.20%	100.0	%
Al 308.215†	2624.9	90.82	3.46%	[0.00]	mg/L
Co 228.616†	-22.4	3.22	14.34%	[0.00]	mg/L
Cr 267.716†	45.6	1.94	4.26%	[0.00]	mg/L
Cu 324.752†	3459.8	57.66	1.67%	[0.00]	mg/L
Fe 273.955†	-154.6	6.03	3.90%	[0.00]	mg/L
Mg 279.077†	-927.2	31.33	3.38%	[0.00]	mg/L
Mn 257.610†	-251.7	22.98	9.13%	[0.00]	mg/L
Ni 231.604†	-25.4	12.16	47.85%	[0.00]	mg/L
Sb 206.836†	28.3	7.36	26.02%	[0.00]	mg/L
Tl 190.801†	-8.1	0.92	11.36%	[0.00]	mg/L
V 292.402†	-56.5	25.73	45.57%	[0.00]	mg/L
Ti 334.940†	-138.7	39.94	28.80%	[0.00]	mg/L
Ca 227.546†	150.3	11.93	7.94%	[0.00]	mg/L

=====
Sequence No.: 2

Autosampler Location: 9

Sample ID: S1

Date Collected: 8/31/2012 8:53:56 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1649856.3	15383.94	0.93%	94.686	%
Lu 261.542	1067604.5	11314.18	1.06%	95.43	%
Al 308.215†	386057.9	1038.19	0.27%	[20]	mg/L
Co 228.616†	166814.1	367.35	0.22%	[5]	mg/L
Cr 267.716†	132633.0	511.84	0.39%	[2]	mg/L
Cu 324.752†	525662.5	1203.37	0.23%	[2.5]	mg/L
Fe 273.955†	226395.2	871.24	0.38%	[10]	mg/L
Mg 279.077†	817312.0	1806.48	0.22%	[50]	mg/L
Mn 257.610†	2723553.7	9193.84	0.34%	[5]	mg/L
Ni 231.604†	138431.0	362.21	0.26%	[5]	mg/L
Sb 206.836†	1103.0	19.38	1.76%	[1]	mg/L
Tl 190.801†	647.8	9.17	1.42%	[1]	mg/L
V 292.402†	578011.4	1889.32	0.33%	[5]	mg/L
Ti 334.940†	523874.6	2109.80	0.40%	[1]	mg/L
Ca 227.546†	9227.6	137.36	1.49%	[50]	mg/L

=====
Sequence No.: 3

Autosampler Location: 10

Sample ID: S2

Date Collected: 8/31/2012 8:57:23 AM

Analyst:

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1685860.2	28980.02	1.72%	96.752	%
Lu 261.542	1090686.4	19065.09	1.75%	97.49	%
Al 308.215†	188063.0	3926.37	2.09%	[10]	mg/L
Co 228.616†	83666.6	1579.87	1.89%	[2.5]	mg/L
Cr 267.716†	65965.3	1089.53	1.65%	[1]	mg/L
Cu 324.752†	253359.0	5105.81	2.02%	[1.25]	mg/L
Fe 273.955†	112824.8	2292.77	2.03%	[5]	mg/L
Mg 279.077†	407004.1	10858.36	2.67%	[25]	mg/L
Mn 257.610†	1367730.1	36947.91	2.70%	[2.5]	mg/L
Ni 231.604†	69482.8	1176.66	1.69%	[2.5]	mg/L
Sb 206.836†	552.9	13.66	2.47%	[0.5]	mg/L
Tl 190.801†	328.6	6.53	1.99%	[0.5]	mg/L
V 292.402†	282689.9	5120.56	1.81%	[2.5]	mg/L
Ti 334.940†	258535.1	7361.65	2.85%	[0.5]	mg/L
Ca 227.546†	4488.5	126.25	2.81%	[25]	mg/L

=====

Sequence No.: 4
Sample ID: S3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 8/31/2012 9:00:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1742032.6	3126.27	0.18%	99.976	%
Lu 261.542	1122536.1	1557.46	0.14%	100.3	%
Al 308.215†	3751.2	72.71	1.94%	[0.2]	mg/L
Co 228.616†	1728.1	3.81	0.22%	[0.05]	mg/L
Cr 267.716†	1394.4	14.54	1.04%	[0.02]	mg/L
Cu 324.752†	5235.7	33.63	0.64%	[0.025]	mg/L
Fe 273.955†	2424.1	75.61	3.12%	[0.1]	mg/L
Mg 279.077†	8681.8	97.64	1.12%	[0.5]	mg/L
Mn 257.610†	29326.9	406.20	1.39%	[0.05]	mg/L
Ni 231.604†	1428.6	5.98	0.42%	[0.05]	mg/L
Sb 206.836†	23.4	1.54	6.57%	[0.01]	mg/L
Tl 190.801†	7.7	1.62	20.97%	[0.01]	mg/L
V 292.402†	5844.5	81.98	1.40%	[0.05]	mg/L
Ti 334.940†	5424.0	116.68	2.15%	[0.01]	mg/L
Ca 227.546†	103.3	2.73	2.64%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	157500	0.00000	0.999981	
Al 308.215	3	Lin Thru 0	0.0	19200	0.00000	0.999946	
As 188.979	3	Lin Thru 0	0.0	757.8	0.00000	0.999995	
Ba 233.527	3	Lin Thru 0	0.0	77780	0.00000	0.999943	
Be 313.107	3	Lin Thru 0	0.0	2330000	0.00000	0.999997	
Co 228.616	3	Lin Thru 0	0.0	33380	0.00000	0.999999	
Cr 267.716	3	Lin Thru 0	0.0	66250	0.00000	0.999998	
Cu 324.752	3	Lin Thru 0	0.0	208700	0.00000	0.999895	
Fe 273.955	3	Lin Thru 0	0.0	22620	0.00000	0.999999	
Mg 279.077	3	Lin Thru 0	0.0	16330	0.00000	0.999999	
Mn 257.610	3	Lin Thru 0	0.0	545200	0.00000	0.999998	
Ni 231.604	3	Lin Thru 0	0.0	27710	0.00000	0.999999	
Pb 220.353	3	Lin Thru 0	0.0	4702	0.00000	0.999988	
Sb 206.836	3	Lin Thru 0	0.0	1104	0.00000	0.999949	
Se 196.026	3	Lin Thru 0	0.0	447.6	0.00000	0.999981	
Tl 190.801	3	Lin Thru 0	0.0	649.7	0.00000	0.999982	
V 292.402	3	Lin Thru 0	0.0	115100	0.00000	0.999961	

Zn 206.200	3	Lin Thru 0	0.0	19610	0.00000	0.999995
Cd 226.502	3	Lin Thru 0	0.0	50970	0.00000	0.999998
Ti 334.940	3	Lin Thru 0	0.0	522500	0.00000	0.999986
Ca 227.546	3	Lin Thru 0	0.0	183.6	0.00000	0.999940
Na 589.592	3	Lin Thru 0	0.0	4497	0.00000	1.000000
K 766.490	3	Lin Thru 0	0.0	985.4	0.00000	1.000000

Sequence No.: 5

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 9:04:26 AM

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 360.073	1691780.5	97.092 %	0.2488			0.26%
Lu 261.542	1095984.6	97.97 %	0.289			0.30%
Al 308.215†	182386.1	9.4874 mg/L	0.02053	9.4874 mg/L	0.02053	0.22%
QC value within limits for Al 308.215 Recovery = 94.87%						
Co 228.616†	83416.0	2.4971 mg/L	0.00561	2.4971 mg/L	0.00561	0.22%
QC value within limits for Co 228.616 Recovery = 99.88%						
Cr 267.716†	63033.0	0.95173 mg/L	0.002067	0.95173 mg/L	0.002067	0.22%
QC value within limits for Cr 267.716 Recovery = 95.17%						
Cu 324.752†	246105.8	1.1801 mg/L	0.00195	1.1801 mg/L	0.00195	0.16%
QC value within limits for Cu 324.752 Recovery = 94.41%						
Fe 273.955†	110384.9	4.8829 mg/L	0.01090	4.8829 mg/L	0.01090	0.22%
QC value within limits for Fe 273.955 Recovery = 97.66%						
Mg 279.077†	401083.6	24.554 mg/L	0.0503	24.554 mg/L	0.0503	0.21%
QC value within limits for Mg 279.077 Recovery = 98.22%						
Mn 257.610†	1337656.3	2.4532 mg/L	0.00296	2.4532 mg/L	0.00296	0.12%
QC value within limits for Mn 257.610 Recovery = 98.13%						
Ni 231.604†	68359.7	2.4667 mg/L	0.00546	2.4667 mg/L	0.00546	0.22%
QC value within limits for Ni 231.604 Recovery = 98.67%						
Sb 206.836†	560.9	0.49255 mg/L	0.005179	0.49255 mg/L	0.005179	1.05%
QC value within limits for Sb 206.836 Recovery = 98.51%						
Tl 190.801†	315.9	0.46315 mg/L	0.004291	0.46315 mg/L	0.004291	0.93%
QC value within limits for Tl 190.801 Recovery = 92.63%						
V 292.402†	275662.5	2.3963 mg/L	0.00588	2.3963 mg/L	0.00588	0.25%
QC value within limits for V 292.402 Recovery = 95.85%						
Ti 334.940†	249839.5	0.47789 mg/L	0.000407	0.47789 mg/L	0.000407	0.09%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	4416.3	23.227 mg/L	0.1345	23.227 mg/L	0.1345	0.58%
QC value within limits for Ca 227.546 Recovery = 92.91%						
All analyte(s) passed QC.						

Sequence No.: 6

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 9:07:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1771835.2	101.69 %	0.617			0.61%
Lu 261.542	1139411.0	101.8 %	0.67			0.66%
Al 308.215†	-81.7	-0.00427 mg/L	0.001743	-0.00427 mg/L	0.001743	40.82%
QC value within limits for Al 308.215 Recovery = Not calculated						
Co 228.616†	17.7	0.00053 mg/L	0.000055	0.00053 mg/L	0.000055	10.40%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-4.9	-0.00007 mg/L	0.000124	-0.00007 mg/L	0.000124	168.04%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	45.2	0.00022 mg/L	0.000149	0.00022 mg/L	0.000149	68.63%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 273.955†	27.8	0.00123 mg/L	0.000062	0.00123 mg/L	0.000062	5.04%
QC value within limits for Fe 273.955 Recovery = Not calculated						

Mg 279.077† 58.4 0.00358 mg/L 0.004083 0.00358 mg/L 0.004083 114.16%
 QC value within limits for Mg 279.077 Recovery = Not calculated
 Mn 257.610† 58.0 0.00011 mg/L 0.000080 0.00011 mg/L 0.000080 75.14%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Ni 231.604† 9.6 0.00035 mg/L 0.000242 0.00035 mg/L 0.000242 69.67%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Sb 206.836† 9.8 0.00891 mg/L 0.004253 0.00891 mg/L 0.004253 47.73%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Tl 190.801† -0.3 -0.00044 mg/L 0.001423 -0.00044 mg/L 0.001423 325.30%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 43.8 0.00038 mg/L 0.000288 0.00038 mg/L 0.000288 75.61%
 QC value within limits for V 292.402 Recovery = Not calculated
 Ti 334.940† 107.7 0.00021 mg/L 0.000061 0.00021 mg/L 0.000061 29.65%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 12.9 0.07017 mg/L 0.023685 0.07017 mg/L 0.023685 33.75%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 7

Sample ID: LLICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 8/31/2012 9:11:28 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1754722.7	100.70 %		1.308			1.30%
Lu 261.542	1130901.5	101.1 %		1.32			1.30%
Al 308.215†	3541.8	0.18417 mg/L		0.003115	0.18417 mg/L	0.003115	1.69%
QC value within limits for Al 308.215				92.08%			
Co 228.616†	1680.1	0.05027 mg/L		0.000560	0.05027 mg/L	0.000560	1.11%
QC value within limits for Co 228.616				100.55%			
Cr 267.716†	1289.2	0.01947 mg/L		0.000529	0.01947 mg/L	0.000529	2.72%
QC value within limits for Cr 267.716				97.33%			
Cu 324.752†	5928.9	0.02843 mg/L		0.000414	0.02843 mg/L	0.000414	1.46%
QC value within limits for Cu 324.752				94.78%			
Fe 273.955†	4388.2	0.19404 mg/L		0.004757	0.19404 mg/L	0.004757	2.45%
QC value within limits for Fe 273.955				97.02%			
Mg 279.077†	8372.9	0.51259 mg/L		0.010820	0.51259 mg/L	0.010820	2.11%
QC value within limits for Mg 279.077				102.52%			
Mn 257.610†	27519.4	0.05047 mg/L		0.000875	0.05047 mg/L	0.000875	1.73%
QC value within limits for Mn 257.610				100.94%			
Ni 231.604†	1401.8	0.05057 mg/L		0.000706	0.05057 mg/L	0.000706	1.40%
QC value within limits for Ni 231.604				101.14%			
Sb 206.836†	25.1	0.02246 mg/L		0.003315	0.02246 mg/L	0.003315	14.76%
QC value within limits for Sb 206.836				112.30%			
Tl 190.801†	14.2	0.02140 mg/L		0.002425	0.02140 mg/L	0.002425	11.33%
QC value within limits for Tl 190.801				107.00%			
V 292.402†	5559.4	0.04832 mg/L		0.000689	0.04832 mg/L	0.000689	1.43%
QC value within limits for V 292.402				96.64%			
Ti 334.940†	9603.4	0.01838 mg/L		0.000294	0.01838 mg/L	0.000294	1.60%
QC value within limits for Ti 334.940				91.88%			
Ca 227.546†	134.6	0.71567 mg/L		0.069035	0.71567 mg/L	0.069035	9.65%
QC value within limits for Ca 227.546				89.46%			

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICSEA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 8/31/2012 9:14:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSEA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2792198.3	160.24 %		7.179			4.48%

Internal Standard Check greater than the upper limit for Y 360.073. Recovery = 160.2%

Lu 261.542	1808515.8	161.7 %	7.44			4.60%
Internal Standard Check greater than the upper limit for Lu 261.542. Recovery = 161.7%						
Al 308.215†	-1696.2	-0.08827 mg/L	0.003968	-0.08827 mg/L	0.003968	4.50%
QC value less than the lower limit for Al 308.215 Recovery = -0.02%						
Co 228.616†	8.4	0.00025 mg/L	0.000104	0.00025 mg/L	0.000104	41.44%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-18.0	-0.00027 mg/L	0.000017	-0.00027 mg/L	0.000017	6.39%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2241.6	-0.01074 mg/L	0.000554	-0.01074 mg/L	0.000554	5.16%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 273.955†	71.5	0.00316 mg/L	0.000109	0.00316 mg/L	0.000109	3.44%
QC value less than the lower limit for Fe 273.955 Recovery = 0.00%						
Mg 279.077†	423.8	0.02595 mg/L	0.003883	0.02595 mg/L	0.003883	14.96%
QC value less than the lower limit for Mg 279.077 Recovery = 0.01%						
Mn 257.610†	123.6	0.00023 mg/L	0.000005	0.00023 mg/L	0.000005	2.22%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Ni 231.604†	3.2	0.00011 mg/L	0.000110	0.00011 mg/L	0.000110	98.07%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Sb 206.836†	-10.6	-0.00961 mg/L	0.001873	-0.00961 mg/L	0.001873	19.48%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Tl 190.801†	3.5	0.00537 mg/L	0.002684	0.00537 mg/L	0.002684	50.02%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	36.0	0.00032 mg/L	0.000216	0.00032 mg/L	0.000216	68.41%
QC value within limits for V 292.402 Recovery = Not calculated						
Ti 334.940†	115.3	0.00021 mg/L	0.000006	0.00021 mg/L	0.000006	2.73%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	-61.6	-0.33595 mg/L	0.055725	-0.33595 mg/L	0.055725	16.59%
QC value less than the lower limit for Ca 227.546 Recovery = -0.07%						

Internal Standard Check failed. Continue with analysis.

QC Failed. Continue with analysis.

User canceled analysis.

=====
Analysis Begun

Start Time: 8/31/2012 9:18:19 AM

Plasma On Time: 8/31/2012 8:12:42 AM

Logged In Analyst: mitOptima3

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N3102302 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0830B.sif

Batch ID: Null

Results Data Set: B12083101

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 5

Sample ID: ICSA

Date Collected: 8/31/2012 9:18:19 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1527445.7	87.660 %	0.4641			0.53%
Lu 261.542	985458.0	88.09 %	0.421			0.48%
Al 308.215†	9854008.6	513.00 mg/L	7.544	513.00 mg/L	7.544	1.47%
QC value within limits for Al 308.215 Recovery = 102.60%						
Co 228.616†	141.2	-0.00014 mg/L	0.000301	-0.00014 mg/L	0.000301	217.35%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	204.5	0.00308 mg/L	0.000226	0.00308 mg/L	0.000226	7.32%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2705.2	0.00383 mg/L	0.000398	0.00383 mg/L	0.000398	10.39%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 273.955†	4117589.7	181.99 mg/L	0.749	181.99 mg/L	0.749	0.41%
QC value within limits for Fe 273.955 Recovery = 91.00%						
Mg 279.077†	7963137.2	487.55 mg/L	7.874	487.55 mg/L	7.874	1.62%
QC value within limits for Mg 279.077 Recovery = 97.51%						
Mn 257.610†	-128.2	-0.00511 mg/L	0.000207	-0.00511 mg/L	0.000207	4.05%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Ni 231.604†	-20.9	-0.00283 mg/L	0.000071	-0.00283 mg/L	0.000071	2.53%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Sb 206.836†	55.4	-0.00542 mg/L	0.002169	-0.00542 mg/L	0.002169	40.05%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Tl 190.801†	-17.4	0.00769 mg/L	0.002934	0.00769 mg/L	0.002934	38.14%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-1607.5	-0.00834 mg/L	0.000377	-0.00834 mg/L	0.000377	4.52%
QC value within limits for V 292.402 Recovery = Not calculated						
Ti 334.940†	-6113.5	-0.01174 mg/L	0.000059	-0.01174 mg/L	0.000059	0.51%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	96689.6	525.07 mg/L	1.999	525.07 mg/L	1.999	0.38%
QC value within limits for Ca 227.546 Recovery = 105.01%						
All analyte(s) passed QC.						

=====
Sequence No.: 2

Autosampler Location: 6

Sample ID: ICSAB

Date Collected: 8/31/2012 9:21:56 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1523349.3	87.425 %	1.1382			1.30%
Lu 261.542	982929.4	87.86 %	1.173			1.33%
Al 308.215†	9695844.3	504.76 mg/L	6.658	504.76 mg/L	6.658	1.32%
QC value within limits for Al 308.215 Recovery = 100.95%						
Co 228.616†	15520.1	0.46047 mg/L	0.004902	0.46047 mg/L	0.004902	1.06%
QC value within limits for Co 228.616 Recovery = 92.09%						

Cr	267.716†	32213.1	0.48631 mg/L	0.000437	0.48631 mg/L	0.000437	0.09%
	QC value within limits for Cr	267.716	Recovery = 97.26%				
Cu	324.752†	104858.0	0.51896 mg/L	0.000981	0.51896 mg/L	0.000981	0.19%
	QC value within limits for Cu	324.752	Recovery = 103.79%				
Fe	273.955†	4048282.5	178.93 mg/L	0.389	178.93 mg/L	0.389	0.22%
	QC value within limits for Fe	273.955	Recovery = 89.47%				
Mg	279.077†	7821516.9	478.87 mg/L	6.436	478.87 mg/L	6.436	1.34%
	QC value within limits for Mg	279.077	Recovery = 95.77%				
Mn	257.610†	263976.2	0.47936 mg/L	0.001113	0.47936 mg/L	0.001113	0.23%
	QC value within limits for Mn	257.610	Recovery = 95.87%				
Ni	231.604†	24828.2	0.89401 mg/L	0.009759	0.89401 mg/L	0.009759	1.09%
	QC value within limits for Ni	231.604	Recovery = 89.40%				
Sb	206.836†	731.8	0.59992 mg/L	0.010335	0.59992 mg/L	0.010335	1.72%
	QC value within limits for Sb	206.836	Recovery = 99.99%				
Tl	190.801†	46.8	0.10124 mg/L	0.005065	0.10124 mg/L	0.005065	5.00%
	QC value within limits for Tl	190.801	Recovery = 101.24%				
V	292.402†	54867.4	0.48318 mg/L	0.001174	0.48318 mg/L	0.001174	0.24%
	QC value within limits for V	292.402	Recovery = 96.64%				
Ti	334.940†	-5929.9	-0.01149 mg/L	0.000259	-0.01149 mg/L	0.000259	2.25%
	QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca	227.546†	94731.8	514.27 mg/L	1.318	514.27 mg/L	1.318	0.26%
	QC value within limits for Ca	227.546	Recovery = 102.85%				

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 9:25:29 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1724970.3	98.996 %		0.9606			0.97%
Lu 261.542	1116702.2	99.82 %		0.941			0.94%
Al 308.215†	177872.6	9.2527 mg/L		0.27011	9.2527 mg/L	0.27011	2.92%
	QC value within limits for Al	308.215	Recovery = 92.53%				
Co 228.616†	81316.3	2.4343 mg/L		0.07206	2.4343 mg/L	0.07206	2.96%
	QC value within limits for Co	228.616	Recovery = 97.37%				
Cr 267.716†	61394.5	0.92699 mg/L		0.027964	0.92699 mg/L	0.027964	3.02%
	QC value within limits for Cr	267.716	Recovery = 92.70%				
Cu 324.752†	239174.3	1.1469 mg/L		0.03193	1.1469 mg/L	0.03193	2.78%
	QC value within limits for Cu	324.752	Recovery = 91.75%				
Fe 273.955†	108362.5	4.7934 mg/L		0.13875	4.7934 mg/L	0.13875	2.89%
	QC value within limits for Fe	273.955	Recovery = 95.87%				
Mg 279.077†	387389.6	23.716 mg/L		0.0714	23.716 mg/L	0.0714	0.30%
	QC value within limits for Mg	279.077	Recovery = 94.86%				
Mn 257.610†	1293308.0	2.3719 mg/L		0.00239	2.3719 mg/L	0.00239	0.10%
	QC value within limits for Mn	257.610	Recovery = 94.87%				
Ni 231.604†	66493.2	2.3993 mg/L		0.07208	2.3993 mg/L	0.07208	3.00%
	QC value within limits for Ni	231.604	Recovery = 95.97%				
Sb 206.836†	535.4	0.46982 mg/L		0.003722	0.46982 mg/L	0.003722	0.79%
	QC value within limits for Sb	206.836	Recovery = 93.96%				
Tl 190.801†	299.2	0.43805 mg/L		0.003666	0.43805 mg/L	0.003666	0.84%
	QC value less than the lower limit for Tl	190.801	Recovery = 87.61%				
V 292.402†	268454.9	2.3337 mg/L		0.07037	2.3337 mg/L	0.07037	3.02%
	QC value within limits for V	292.402	Recovery = 93.35%				
Ti 334.940†	235658.7	0.45076 mg/L		0.012977	0.45076 mg/L	0.012977	2.88%
	QC value within limits for Ti	334.940	Recovery = Not calculated				
Ca 227.546†	4262.0	22.408 mg/L		0.2104	22.408 mg/L	0.2104	0.94%
	QC value within limits for Ca	227.546	Recovery = 89.63%				

QC Failed. Continue with analysis.

Sequence No.: 4

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 9:29:00 AM

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 360.073	1794664.5	103.00	%	0.263			0.25%
Lu 261.542	1154517.2	103.2	%	0.28			0.27%
Al 308.215†	-92.3	-0.00482	mg/L	0.003166	-0.00482 mg/L	0.003166	65.70%
QC value within limits for Al 308.215 Recovery = Not calculated							
Co 228.616†	19.6	0.00059	mg/L	0.000205	0.00059 mg/L	0.000205	34.86%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	21.4	0.00032	mg/L	0.000235	0.00032 mg/L	0.000235	72.72%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-5.2	-0.00002	mg/L	0.000102	-0.00002 mg/L	0.000102	419.35%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	89.0	0.00393	mg/L	0.000236	0.00393 mg/L	0.000236	6.00%
QC value within limits for Fe 273.955 Recovery = Not calculated							
Mg 279.077†	65.5	0.00401	mg/L	0.002190	0.00401 mg/L	0.002190	54.63%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	70.4	0.00013	mg/L	0.000060	0.00013 mg/L	0.000060	46.08%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	8.1	0.00029	mg/L	0.000298	0.00029 mg/L	0.000298	101.55%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Sb 206.836†	7.2	0.00654	mg/L	0.001133	0.00654 mg/L	0.001133	17.32%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Tl 190.801†	-0.8	-0.00121	mg/L	0.002883	-0.00121 mg/L	0.002883	237.61%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	35.6	0.00031	mg/L	0.000195	0.00031 mg/L	0.000195	62.79%
QC value within limits for V 292.402 Recovery = Not calculated							
Ti 334.940†	88.6	0.00017	mg/L	0.000061	0.00017 mg/L	0.000061	35.52%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Ca 227.546†	9.2	0.04966	mg/L	0.018048	0.04966 mg/L	0.018048	36.34%
QC value within limits for Ca 227.546 Recovery = Not calculated							

All analyte(s) passed QC.

=====

Sequence No.: 5
 Sample ID: MB-67889-PBW
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 94
 Date Collected: 8/31/2012 9:32:30 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: MB-67889-PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1778978.1	102.10	%	0.461			0.45%
Lu 261.542	1145924.4	102.4	%	0.53			0.52%
Al 308.215†	-31.3	-0.00164	mg/L	0.001790	-0.00164 mg/L	0.001790	109.06%
Co 228.616†	4.0	0.00012	mg/L	0.000035	0.00012 mg/L	0.000035	29.89%
Cr 267.716†	14.8	0.00022	mg/L	0.000521	0.00022 mg/L	0.000521	233.01%
Cu 324.752†	153.1	0.00073	mg/L	0.000356	0.00073 mg/L	0.000356	48.50%
Fe 273.955†	128.0	0.00566	mg/L	0.000412	0.00566 mg/L	0.000412	7.28%
Mg 279.077†	146.4	0.00897	mg/L	0.002089	0.00897 mg/L	0.002089	23.30%
Mn 257.610†	105.5	0.00019	mg/L	0.000025	0.00019 mg/L	0.000025	12.90%
Ni 231.604†	4.1	0.00015	mg/L	0.000312	0.00015 mg/L	0.000312	209.34%
Sb 206.836†	10.2	0.00924	mg/L	0.000689	0.00924 mg/L	0.000689	7.45%
Tl 190.801†	-1.4	-0.00223	mg/L	0.002592	-0.00223 mg/L	0.002592	116.34%
V 292.402†	-22.7	-0.00020	mg/L	0.000157	-0.00020 mg/L	0.000157	79.85%
Ti 334.940†	112.7	0.00022	mg/L	0.000052	0.00022 mg/L	0.000052	24.21%
Ca 227.546†	10.3	0.05586	mg/L	0.043500	0.05586 mg/L	0.043500	77.88%

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Sequence No.: 6
 Sample ID: LCS-67889-LCS
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 95
 Date Collected: 8/31/2012 9:36:02 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: LCS-67889-LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1732114.9	99.406	%	0.9382				0.94%
Lu 261.542	1121816.4	100.3	%	0.90				0.90%
Al 308.215†	167150.8	8.6957	mg/L	0.10903	8.6957	mg/L	0.10903	1.25%
Co 228.616†	74184.7	2.2217	mg/L	0.02669	2.2217	mg/L	0.02669	1.20%
Cr 267.716†	58313.3	0.88047	mg/L	0.009804	0.88047	mg/L	0.009804	1.11%
Cu 324.752†	225193.7	1.0798	mg/L	0.01247	1.0798	mg/L	0.01247	1.15%
Fe 273.955†	100515.4	4.4463	mg/L	0.05384	4.4463	mg/L	0.05384	1.21%
Mg 279.077†	361884.0	22.154	mg/L	0.1105	22.154	mg/L	0.1105	0.50%
Mn 257.610†	1208315.9	2.2160	mg/L	0.01240	2.2160	mg/L	0.01240	0.56%
Ni 231.604†	61788.1	2.2298	mg/L	0.02584	2.2298	mg/L	0.02584	1.16%
Sb 206.836†	520.5	0.45601	mg/L	0.008239	0.45601	mg/L	0.008239	1.81%
Tl 190.801†	287.5	0.42178	mg/L	0.006426	0.42178	mg/L	0.006426	1.52%
V 292.402†	250083.0	2.1746	mg/L	0.02143	2.1746	mg/L	0.02143	0.99%
Ti 334.940†	306.1	0.00035	mg/L	0.000105	0.00035	mg/L	0.000105	29.79%
Ca 227.546†	4007.4	21.091	mg/L	0.2480	21.091	mg/L	0.2480	1.18%

Sequence No.: 7

Sample ID: L1807-19A~DMW-2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 96

Date Collected: 8/31/2012 9:39:37 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19A~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1717550.9	98.571	%	3.0492				3.09%
Lu 261.542	1110152.9	99.23	%	3.115				3.14%
Al 308.215†	5766.1	0.29764	mg/L	0.006820	0.29764	mg/L	0.006820	2.29%
Co 228.616†	47.6	0.00136	mg/L	0.000048	0.00136	mg/L	0.000048	3.50%
Cr 267.716†	64.7	0.00095	mg/L	0.000210	0.00095	mg/L	0.000210	22.02%
Cu 324.752†	473.6	0.00241	mg/L	0.000440	0.00241	mg/L	0.000440	18.25%
Fe 273.955†	34387.2	1.5199	mg/L	0.01893	1.5199	mg/L	0.01893	1.25%
Mg 279.077†	28753.0	1.7604	mg/L	0.02658	1.7604	mg/L	0.02658	1.51%
Mn 257.610†	64651.2	0.11857	mg/L	0.001596	0.11857	mg/L	0.001596	1.35%
Ni 231.604†	33.5	0.00120	mg/L	0.000611	0.00120	mg/L	0.000611	51.03%
Sb 206.836†	9.1	0.00797	mg/L	0.003142	0.00797	mg/L	0.003142	39.44%
Tl 190.801†	-2.2	-0.00311	mg/L	0.001720	-0.00311	mg/L	0.001720	55.29%
V 292.402†	76.1	0.00069	mg/L	0.000579	0.00069	mg/L	0.000579	83.38%
Ti 334.940†	5617.4	0.01092	mg/L	0.000202	0.01092	mg/L	0.000202	1.85%
Ca 227.546†	2166.9	11.791	mg/L	0.3593	11.791	mg/L	0.3593	3.05%

Sequence No.: 8

Sample ID: L1807-19ADUP~DMW-2D

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 97

Date Collected: 8/31/2012 9:43:08 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-19ADUP~DMW-2D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1661999.7	95.382	%	2.1733				2.28%
Lu 261.542	1073941.9	96.00	%	2.331				2.43%
Al 308.215†	5818.4	0.30032	mg/L	0.013052	0.30032	mg/L	0.013052	4.35%
Co 228.616†	47.6	0.00136	mg/L	0.000154	0.00136	mg/L	0.000154	11.31%
Cr 267.716†	43.2	0.00063	mg/L	0.000113	0.00063	mg/L	0.000113	17.99%
Cu 324.752†	547.5	0.00276	mg/L	0.000702	0.00276	mg/L	0.000702	25.38%
Fe 273.955†	34759.4	1.5363	mg/L	0.09317	1.5363	mg/L	0.09317	6.06%
Mg 279.077†	28730.0	1.7590	mg/L	0.06270	1.7590	mg/L	0.06270	3.56%
Mn 257.610†	64887.5	0.11900	mg/L	0.004112	0.11900	mg/L	0.004112	3.46%
Ni 231.604†	42.4	0.00152	mg/L	0.000249	0.00152	mg/L	0.000249	16.42%
Sb 206.836†	7.2	0.00625	mg/L	0.003302	0.00625	mg/L	0.003302	52.84%
Tl 190.801†	-1.1	-0.00150	mg/L	0.001010	-0.00150	mg/L	0.001010	67.21%
V 292.402†	70.8	0.00065	mg/L	0.000588	0.00065	mg/L	0.000588	90.64%
Ti 334.940†	5583.8	0.01086	mg/L	0.000544	0.01086	mg/L	0.000544	5.01%
Ca 227.546†	2208.5	12.018	mg/L	0.2877	12.018	mg/L	0.2877	2.39%

Sequence No.: 9
 Sample ID: L1807-19AMS~DMW-2S
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 98
 Date Collected: 8/31/2012 9:46:39 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-19AMS~DMW-2S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1647279.9	94.538	%	0.8607				0.91%
Lu 261.542	1065476.3	95.24	%	0.912				0.96%
Al 308.215†	180174.0	9.3706	mg/L	0.04801	9.3706	mg/L	0.04801	0.51%
Co 228.616†	76517.9	2.2915	mg/L	0.01049	2.2915	mg/L	0.01049	0.46%
Cr 267.716†	60145.1	0.90810	mg/L	0.005380	0.90810	mg/L	0.005380	0.59%
Cu 324.752†	234802.6	1.1260	mg/L	0.00529	1.1260	mg/L	0.00529	0.47%
Fe 273.955†	137650.1	6.0878	mg/L	0.02510	6.0878	mg/L	0.02510	0.41%
Mg 279.077†	405883.5	24.848	mg/L	0.1014	24.848	mg/L	0.1014	0.41%
Mn 257.610†	1332867.9	2.4444	mg/L	0.00995	2.4444	mg/L	0.00995	0.41%
Ni 231.604†	63360.2	2.2865	mg/L	0.00915	2.2865	mg/L	0.00915	0.40%
Sb 206.836†	540.2	0.47315	mg/L	0.007211	0.47315	mg/L	0.007211	1.52%
Tl 190.801†	295.3	0.43340	mg/L	0.005521	0.43340	mg/L	0.005521	1.27%
V 292.402†	259649.8	2.2578	mg/L	0.01154	2.2578	mg/L	0.01154	0.51%
Ti 334.940†	5878.3	0.01119	mg/L	0.000399	0.01119	mg/L	0.000399	3.57%
Ca 227.546†	6505.8	34.666	mg/L	0.2781	34.666	mg/L	0.2781	0.80%

Sequence No.: 10
 Sample ID: L1807-19ASD~DMW-2
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 99
 Date Collected: 8/31/2012 9:50:12 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1807-19ASD~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1672143.3	95.965	%	0.7287				0.76%
Lu 261.542	1079264.9	96.47	%	0.744				0.77%
Al 308.215†	1305.6	0.06742	mg/L	0.003324	0.06742	mg/L	0.003324	4.93%
Co 228.616†	18.3	0.00053	mg/L	0.000043	0.00053	mg/L	0.000043	8.04%
Cr 267.716†	14.9	0.00022	mg/L	0.000110	0.00022	mg/L	0.000110	49.87%
Cu 324.752†	294.2	0.00144	mg/L	0.000250	0.00144	mg/L	0.000250	17.38%
Fe 273.955†	7461.9	0.32981	mg/L	0.001371	0.32981	mg/L	0.001371	0.42%
Mg 279.077†	6274.5	0.38416	mg/L	0.005949	0.38416	mg/L	0.005949	1.55%
Mn 257.610†	14046.6	0.02576	mg/L	0.000047	0.02576	mg/L	0.000047	0.18%
Ni 231.604†	12.8	0.00046	mg/L	0.000067	0.00046	mg/L	0.000067	14.57%
Sb 206.836†	2.0	0.00177	mg/L	0.002342	0.00177	mg/L	0.002342	132.12%
Tl 190.801†	-1.6	-0.00240	mg/L	0.001909	-0.00240	mg/L	0.001909	79.54%
V 292.402†	67.3	0.00059	mg/L	0.000779	0.00059	mg/L	0.000779	131.65%
Ti 334.940†	1188.5	0.00231	mg/L	0.000059	0.00231	mg/L	0.000059	2.55%
Ca 227.546†	471.0	2.5630	mg/L	0.01866	2.5630	mg/L	0.01866	0.73%

Sequence No.: 11
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 8/31/2012 9:53:44 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1640020.7	94.121	%	1.9175				2.04%
Lu 261.542	1062583.6	94.98	%	2.004				2.11%
Al 308.215†	184848.7	9.6155	mg/L	0.39920	9.6155	mg/L	0.39920	4.15%
QC value within limits for Al 308.215 Recovery = 96.16%								
Co 228.616†	84551.3	2.5311	mg/L	0.10540	2.5311	mg/L	0.10540	4.16%

QC value within limits for Co 228.616 Recovery = 101.24%
 Cr 267.716† 63901.2 0.96485 mg/L 0.042009 0.96485 mg/L 0.042009 4.35%
 QC value within limits for Cr 267.716 Recovery = 96.48%
 Cu 324.752† 248940.9 1.1937 mg/L 0.04922 1.1937 mg/L 0.04922 4.12%
 QC value within limits for Cu 324.752 Recovery = 95.50%
 Fe 273.955† 111951.6 4.9522 mg/L 0.21441 4.9522 mg/L 0.21441 4.33%
 QC value within limits for Fe 273.955 Recovery = 99.04%
 Mg 279.077† 400913.9 24.544 mg/L 0.4536 24.544 mg/L 0.4536 1.85%
 QC value within limits for Mg 279.077 Recovery = 98.17%
 Mn 257.610† 1347373.8 2.4710 mg/L 0.04847 2.4710 mg/L 0.04847 1.96%
 QC value within limits for Mn 257.610 Recovery = 98.84%
 Ni 231.604† 69195.3 2.4968 mg/L 0.10691 2.4968 mg/L 0.10691 4.28%
 QC value within limits for Ni 231.604 Recovery = 99.87%
 Sb 206.836† 568.4 0.49904 mg/L 0.017399 0.49904 mg/L 0.017399 3.49%
 QC value within limits for Sb 206.836 Recovery = 99.81%
 Tl 190.801† 311.8 0.45657 mg/L 0.009864 0.45657 mg/L 0.009864 2.16%
 QC value within limits for Tl 190.801 Recovery = 91.31%
 V 292.402† 280012.3 2.4342 mg/L 0.10486 2.4342 mg/L 0.10486 4.31%
 QC value within limits for V 292.402 Recovery = 97.37%
 Ti 334.940† 243993.5 0.46671 mg/L 0.020121 0.46671 mg/L 0.020121 4.31%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 4462.6 23.469 mg/L 0.5237 23.469 mg/L 0.5237 2.23%
 QC value within limits for Ca 227.546 Recovery = 93.87%
 All analyte(s) passed QC.

Sequence No.: 12

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 9:57:15 AM

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 360.073	1682491.1	96.558 %	1.4166			1.47%
Lu 261.542	1082686.7	96.78 %	1.433			1.48%
Al 308.215†	-106.1	-0.00553 mg/L	0.001123	-0.00553 mg/L	0.001123	20.30%
QC value within limits for Al 308.215						Not calculated
Co 228.616†	12.7	0.00038 mg/L	0.000159	0.00038 mg/L	0.000159	41.55%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	0.6	0.00001 mg/L	0.000023	0.00001 mg/L	0.000023	231.39%
QC value within limits for Cr 267.716						Not calculated
Cu 324.752†	263.5	0.00126 mg/L	0.000419	0.00126 mg/L	0.000419	33.22%
QC value within limits for Cu 324.752						Not calculated
Fe 273.955†	38.4	0.00170 mg/L	0.000629	0.00170 mg/L	0.000629	37.01%
QC value within limits for Fe 273.955						Not calculated
Mg 279.077†	67.2	0.00411 mg/L	0.004392	0.00411 mg/L	0.004392	106.77%
QC value within limits for Mg 279.077						Not calculated
Mn 257.610†	83.8	0.00015 mg/L	0.000037	0.00015 mg/L	0.000037	23.90%
QC value within limits for Mn 257.610						Not calculated
Ni 231.604†	-2.5	-0.00009 mg/L	0.000454	-0.00009 mg/L	0.000454	497.69%
QC value within limits for Ni 231.604						Not calculated
Sb 206.836†	6.8	0.00618 mg/L	0.003836	0.00618 mg/L	0.003836	62.09%
QC value within limits for Sb 206.836						Not calculated
Tl 190.801†	0.6	0.00085 mg/L	0.002064	0.00085 mg/L	0.002064	241.48%
QC value within limits for Tl 190.801						Not calculated
V 292.402†	68.0	0.00059 mg/L	0.000429	0.00059 mg/L	0.000429	72.72%
QC value within limits for V 292.402						Not calculated
Ti 334.940†	80.0	0.00015 mg/L	0.000113	0.00015 mg/L	0.000113	73.81%
QC value within limits for Ti 334.940						Not calculated
Ca 227.546†	4.6	0.02486 mg/L	0.054107	0.02486 mg/L	0.054107	217.63%
QC value within limits for Ca 227.546						Not calculated

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: L1807-19APDS~DMW-2

Analyst:

Initial Sample Wt:

Autosampler Location: 100

Date Collected: 8/31/2012 10:00:45 AM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-19APDS~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1638640.9	94.042	%	0.7779				0.83%
Lu 261.542	1061540.5	94.89	%	0.740				0.78%
Al 308.215†	178420.2	9.2795	mg/L	0.15552	9.2795	mg/L	0.15552	1.68%
Co 228.616†	76355.0	2.2867	mg/L	0.03767	2.2867	mg/L	0.03767	1.65%
Cr 267.716†	59605.3	0.89995	mg/L	0.014989	0.89995	mg/L	0.014989	1.67%
Cu 324.752†	232214.3	1.1136	mg/L	0.01982	1.1136	mg/L	0.01982	1.78%
Fe 273.955†	137485.5	6.0805	mg/L	0.09727	6.0805	mg/L	0.09727	1.60%
Mg 279.077†	400161.4	24.498	mg/L	0.1059	24.498	mg/L	0.1059	0.43%
Mn 257.610†	1315488.5	2.4125	mg/L	0.00922	2.4125	mg/L	0.00922	0.38%
Ni 231.604†	63232.2	2.2819	mg/L	0.03914	2.2819	mg/L	0.03914	1.72%
Sb 206.836†	505.7	0.44203	mg/L	0.007282	0.44203	mg/L	0.007282	1.65%
Tl 190.801†	286.6	0.42000	mg/L	0.003058	0.42000	mg/L	0.003058	0.73%
V 292.402†	257625.8	2.2402	mg/L	0.03732	2.2402	mg/L	0.03732	1.67%
Ti 334.940†	6477.5	0.01234	mg/L	0.000533	0.01234	mg/L	0.000533	4.32%
Ca 227.546†	6419.4	34.197	mg/L	0.2972	34.197	mg/L	0.2972	0.87%

Sequence No.: 14

Sample ID: L1807-20A~DMW-3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 8/31/2012 10:04:18 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-20A~DMW-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1696747.1	97.377	%	1.3397				1.38%
Lu 261.542	1097017.2	98.06	%	1.449				1.48%
Al 308.215†	812.8	0.04010	mg/L	0.002895	0.04010	mg/L	0.002895	7.22%
Co 228.616†	20.5	0.00061	mg/L	0.000132	0.00061	mg/L	0.000132	21.67%
Cr 267.716†	34.6	0.00052	mg/L	0.000124	0.00052	mg/L	0.000124	23.88%
Cu 324.752†	362.1	0.00174	mg/L	0.000373	0.00174	mg/L	0.000373	21.46%
Fe 273.955†	1162.3	0.05137	mg/L	0.002045	0.05137	mg/L	0.002045	3.98%
Mg 279.077†	35267.0	2.1592	mg/L	0.03359	2.1592	mg/L	0.03359	1.56%
Mn 257.610†	4273.4	0.00782	mg/L	0.000099	0.00782	mg/L	0.000099	1.27%
Ni 231.604†	16.6	0.00059	mg/L	0.000259	0.00059	mg/L	0.000259	44.04%
Sb 206.836†	12.0	0.01071	mg/L	0.005465	0.01071	mg/L	0.005465	51.03%
Tl 190.801†	-0.4	-0.00058	mg/L	0.003021	-0.00058	mg/L	0.003021	521.05%
V 292.402†	150.3	0.00131	mg/L	0.000288	0.00131	mg/L	0.000288	22.06%
Ti 334.940†	753.6	0.00158	mg/L	0.000255	0.00158	mg/L	0.000255	16.13%
Ca 227.546†	1944.0	10.589	mg/L	0.1789	10.589	mg/L	0.1789	1.69%

Sequence No.: 15

Sample ID: L1807-21A~DMW-9

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 102

Date Collected: 8/31/2012 10:07:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-21A~DMW-9

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1673527.1	96.044	%	1.3369				1.39%
Lu 261.542	1082052.5	96.72	%	1.223				1.26%
Al 308.215†	2959.9	0.15126	mg/L	0.003158	0.15126	mg/L	0.003158	2.09%
Co 228.616†	16.4	0.00047	mg/L	0.000132	0.00047	mg/L	0.000132	28.14%
Cr 267.716†	529.7	0.00800	mg/L	0.000131	0.00800	mg/L	0.000131	1.64%
Cu 324.752†	710.2	0.00345	mg/L	0.000100	0.00345	mg/L	0.000100	2.89%
Fe 273.955†	12257.1	0.54176	mg/L	0.005917	0.54176	mg/L	0.005917	1.09%
Mg 279.077†	52590.5	3.2199	mg/L	0.03254	3.2199	mg/L	0.03254	1.01%
Mn 257.610†	3615.2	0.00660	mg/L	0.000025	0.00660	mg/L	0.000025	0.38%
Ni 231.604†	27.9	0.00099	mg/L	0.000239	0.00099	mg/L	0.000239	24.18%
Sb 206.836†	10.9	0.00950	mg/L	0.006750	0.00950	mg/L	0.006750	71.06%

Tl 190.801†	0.0	0.00019 mg/L	0.001966	0.00019 mg/L	0.001966	>999.9%
V 292.402†	122.6	0.00109 mg/L	0.000298	0.00109 mg/L	0.000298	27.21%
Ti 334.940†	1870.7	0.00375 mg/L	0.000136	0.00375 mg/L	0.000136	3.64%
Ca 227.546†	2481.1	13.511 mg/L	0.1395	13.511 mg/L	0.1395	1.03%

Sequence No.: 16

Autosampler Location: 103

Sample ID: L1807-22A-DMW-9B

Date Collected: 8/31/2012 10:11:22 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-22A-DMW-9B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1698878.6	97.499 %		1.2458				1.28%
Lu 261.542	1097546.2	98.11 %		1.299				1.32%
Al 308.215†	148.4	0.00589 mg/L		0.004728	0.00589 mg/L		0.004728	80.20%
Co 228.616†	10.6	0.00032 mg/L		0.000322	0.00032 mg/L		0.000322	101.95%
Cr 267.716†	16.2	0.00024 mg/L		0.000168	0.00024 mg/L		0.000168	69.34%
Cu 324.752†	258.2	0.00124 mg/L		0.000198	0.00124 mg/L		0.000198	15.92%
Fe 273.955†	933.8	0.04128 mg/L		0.002410	0.04128 mg/L		0.002410	5.84%
Mg 279.077†	25740.0	1.5759 mg/L		0.02282	1.5759 mg/L		0.02282	1.45%
Mn 257.610†	4649.8	0.00851 mg/L		0.000051	0.00851 mg/L		0.000051	0.60%
Ni 231.604†	1.3	0.00004 mg/L		0.000211	0.00004 mg/L		0.000211	541.07%
Sb 206.836†	7.0	0.00622 mg/L		0.002139	0.00622 mg/L		0.002139	34.40%
Tl 190.801†	0.9	0.00145 mg/L		0.002979	0.00145 mg/L		0.002979	205.82%
V 292.402†	19.6	0.00017 mg/L		0.000355	0.00017 mg/L		0.000355	206.66%
Ti 334.940†	108.2	0.00033 mg/L		0.000101	0.00033 mg/L		0.000101	31.05%
Ca 227.546†	1611.5	8.7784 mg/L		0.18740	8.7784 mg/L		0.18740	2.13%

Sequence No.: 17

Autosampler Location: 104

Sample ID: L1807-23A-DMW-52

Date Collected: 8/31/2012 10:14:54 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-23A-DMW-52

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1718220.8	98.609 %		0.2101				0.21%
Lu 261.542	1112117.0	99.41 %		0.352				0.35%
Al 308.215†	6534.1	0.33763 mg/L		0.002776	0.33763 mg/L		0.002776	0.82%
Co 228.616†	49.0	0.00139 mg/L		0.000024	0.00139 mg/L		0.000024	1.71%
Cr 267.716†	75.4	0.00111 mg/L		0.000184	0.00111 mg/L		0.000184	16.51%
Cu 324.752†	244.6	0.00131 mg/L		0.000486	0.00131 mg/L		0.000486	37.15%
Fe 273.955†	33742.5	1.4914 mg/L		0.01557	1.4914 mg/L		0.01557	1.04%
Mg 279.077†	28258.0	1.7301 mg/L		0.02233	1.7301 mg/L		0.02233	1.29%
Mn 257.610†	65311.9	0.11978 mg/L		0.001347	0.11978 mg/L		0.001347	1.12%
Ni 231.604†	33.8	0.00120 mg/L		0.000396	0.00120 mg/L		0.000396	33.01%
Sb 206.836†	4.9	0.00422 mg/L		0.001146	0.00422 mg/L		0.001146	27.20%
Tl 190.801†	1.4	0.00237 mg/L		0.001142	0.00237 mg/L		0.001142	48.25%
V 292.402†	51.0	0.00047 mg/L		0.000397	0.00047 mg/L		0.000397	84.84%
Ti 334.940†	8633.2	0.01669 mg/L		0.007845	0.01669 mg/L		0.007845	47.01%
Ca 227.546†	2159.5	11.751 mg/L		0.1449	11.751 mg/L		0.1449	1.23%

Sequence No.: 18

Autosampler Location: 105

Sample ID: L1807-24A-DMW-15B

Date Collected: 8/31/2012 10:18:26 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: L1807-24A-DMW-15B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1686016.1	96.761 %		1.4333				1.48%

Lu 261.542	1093108.0	97.71 %	1.454			1.49%
Al 308.215†	734.7	0.03535 mg/L	0.007667	0.03535 mg/L	0.007667	21.69%
Co 228.616†	55.1	0.00161 mg/L	0.000190	0.00161 mg/L	0.000190	11.76%
Cr 267.716†	22.4	0.00030 mg/L	0.000118	0.00030 mg/L	0.000118	39.11%
Cu 324.752†	233.4	0.00125 mg/L	0.000481	0.00125 mg/L	0.000481	38.41%
Fe 273.955†	33149.3	1.4652 mg/L	0.01229	1.4652 mg/L	0.01229	0.84%
Mg 279.077†	74590.5	4.5668 mg/L	0.04332	4.5668 mg/L	0.04332	0.95%
Mn 257.610†	100003.7	0.18338 mg/L	0.001398	0.18338 mg/L	0.001398	0.76%
Ni 231.604†	33.8	0.00120 mg/L	0.000491	0.00120 mg/L	0.000491	40.86%
Sb 206.836†	7.3	0.00629 mg/L	0.001661	0.00629 mg/L	0.001661	26.40%
Tl 190.801†	-1.7	-0.00232 mg/L	0.003794	-0.00232 mg/L	0.003794	163.89%
V 292.402†	4.3	0.00008 mg/L	0.000090	0.00008 mg/L	0.000090	109.60%
Ti 334.940†	438.9	0.00096 mg/L	0.000194	0.00096 mg/L	0.000194	20.26%
Ca 227.546†	2176.0	11.840 mg/L	0.2665	11.840 mg/L	0.2665	2.25%

Sequence No.: 19

Sample ID: L1807-25A-DMW-15A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 106

Date Collected: 8/31/2012 10:21:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-25A-DMW-15A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1700380.5	97.585 %		0.8075				0.83%
Lu 261.542	1099413.5	98.27 %		0.772				0.79%
Al 308.215†	126.9	0.00344 mg/L		0.002740	0.00344 mg/L		0.002740	79.68%
Co 228.616†	4.6	0.00014 mg/L		0.000030	0.00014 mg/L		0.000030	22.08%
Cr 267.716†	58.3	0.00083 mg/L		0.000132	0.00083 mg/L		0.000132	15.86%
Cu 324.752†	209.2	0.00100 mg/L		0.000336	0.00100 mg/L		0.000336	33.48%
Fe 273.955†	582.9	0.02577 mg/L		0.000351	0.02577 mg/L		0.000351	1.36%
Mg 279.077†	39631.5	2.4265 mg/L		0.00741	2.4265 mg/L		0.00741	0.31%
Mn 257.610†	128848.5	0.23631 mg/L		0.000757	0.23631 mg/L		0.000757	0.32%
Ni 231.604†	6.8	0.00023 mg/L		0.000138	0.00023 mg/L		0.000138	58.85%
Sb 206.836†	7.0	0.00611 mg/L		0.001928	0.00611 mg/L		0.001928	31.58%
Tl 190.801†	1.9	0.00307 mg/L		0.004386	0.00307 mg/L		0.004386	142.99%
V 292.402†	32.7	0.00029 mg/L		0.000580	0.00029 mg/L		0.000580	202.35%
Ti 334.940†	67.7	0.00031 mg/L		0.000064	0.00031 mg/L		0.000064	20.56%
Ca 227.546†	2480.9	13.514 mg/L		0.1268	13.514 mg/L		0.1268	0.94%

Sequence No.: 20

Sample ID: L1807-26A-DMW-23B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 8/31/2012 10:25:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-26A-DMW-23B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1679208.3	96.370 %		0.4523				0.47%
Lu 261.542	1084295.7	96.92 %		0.344				0.35%
Al 308.215†	1783.1	0.08906 mg/L		0.004742	0.08906 mg/L		0.004742	5.32%
Co 228.616†	30.8	0.00091 mg/L		0.000056	0.00091 mg/L		0.000056	6.19%
Cr 267.716†	667.3	0.01005 mg/L		0.000345	0.01005 mg/L		0.000345	3.44%
Cu 324.752†	896.9	0.00432 mg/L		0.000336	0.00432 mg/L		0.000336	7.78%
Fe 273.955†	6145.8	0.27164 mg/L		0.003306	0.27164 mg/L		0.003306	1.22%
Mg 279.077†	46343.5	2.8374 mg/L		0.03307	2.8374 mg/L		0.03307	1.17%
Mn 257.610†	72620.6	0.13317 mg/L		0.001385	0.13317 mg/L		0.001385	1.04%
Ni 231.604†	45.2	0.00162 mg/L		0.000155	0.00162 mg/L		0.000155	9.57%
Sb 206.836†	5.0	0.00414 mg/L		0.001376	0.00414 mg/L		0.001376	33.26%
Tl 190.801†	1.3	0.00207 mg/L		0.002015	0.00207 mg/L		0.002015	97.48%
V 292.402†	175.6	0.00155 mg/L		0.000467	0.00155 mg/L		0.000467	30.10%
Ti 334.940†	1204.4	0.00254 mg/L		0.000061	0.00254 mg/L		0.000061	2.41%
Ca 227.546†	3191.2	17.381 mg/L		0.1914	17.381 mg/L		0.1914	1.10%

Sequence No.: 21

Autosampler Location: 3

Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Date Collected: 8/31/2012 10:29:02 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1635461.0	93.859 %	1.7466			1.86%
Lu 261.542	1057890.8	94.56 %	1.764			1.87%
Al 308.215†	188126.3	9.7861 mg/L	0.30541	9.7861 mg/L	0.30541	3.12%
QC value within limits for Al 308.215 Recovery = 97.86%						
Co 228.616†	86036.0	2.5755 mg/L	0.07883	2.5755 mg/L	0.07883	3.06%
QC value within limits for Co 228.616 Recovery = 103.02%						
Cr 267.716†	64863.9	0.97938 mg/L	0.029121	0.97938 mg/L	0.029121	2.97%
QC value within limits for Cr 267.716 Recovery = 97.94%						
Cu 324.752†	253925.3	1.2176 mg/L	0.03778	1.2176 mg/L	0.03778	3.10%
QC value within limits for Cu 324.752 Recovery = 97.41%						
Fe 273.955†	113830.7	5.0353 mg/L	0.15987	5.0353 mg/L	0.15987	3.18%
QC value within limits for Fe 273.955 Recovery = 100.71%						
Mg 279.077†	405000.9	24.794 mg/L	0.4986	24.794 mg/L	0.4986	2.01%
QC value within limits for Mg 279.077 Recovery = 99.18%						
Mn 257.610†	1360008.2	2.4942 mg/L	0.04940	2.4942 mg/L	0.04940	1.98%
QC value within limits for Mn 257.610 Recovery = 99.77%						
Ni 231.604†	70254.5	2.5350 mg/L	0.07912	2.5350 mg/L	0.07912	3.12%
QC value within limits for Ni 231.604 Recovery = 101.40%						
Sb 206.836†	583.1	0.51217 mg/L	0.016062	0.51217 mg/L	0.016062	3.14%
QC value within limits for Sb 206.836 Recovery = 102.43%						
Tl 190.801†	311.2	0.45518 mg/L	0.012047	0.45518 mg/L	0.012047	2.65%
QC value within limits for Tl 190.801 Recovery = 91.04%						
V 292.402†	283984.6	2.4687 mg/L	0.07619	2.4687 mg/L	0.07619	3.09%
QC value within limits for V 292.402 Recovery = 98.75%						
Ti 334.940†	253162.0	0.48425 mg/L	0.010411	0.48425 mg/L	0.010411	2.15%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	4523.0	23.783 mg/L	0.4947	23.783 mg/L	0.4947	2.08%
QC value within limits for Ca 227.546 Recovery = 95.13%						

All analyte(s) passed QC.

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Sequence No.: 22
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 8/31/2012 10:32:33 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	1739301.9	99.819 %	1.9251			1.93%
Lu 261.542	1118759.0	100.0 %	2.06			2.06%
Al 308.215†	-111.7	-0.00584 mg/L	0.004565	-0.00584 mg/L	0.004565	78.17%
QC value within limits for Al 308.215 Recovery = Not calculated						
Co 228.616†	17.4	0.00052 mg/L	0.000190	0.00052 mg/L	0.000190	36.43%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	20.4	0.00031 mg/L	0.000088	0.00031 mg/L	0.000088	28.46%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	30.0	0.00014 mg/L	0.000271	0.00014 mg/L	0.000271	188.27%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 273.955†	43.5	0.00192 mg/L	0.000538	0.00192 mg/L	0.000538	27.98%
QC value within limits for Fe 273.955 Recovery = Not calculated						
Mg 279.077†	62.0	0.00379 mg/L	0.005550	0.00379 mg/L	0.005550	146.32%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	111.8	0.00021 mg/L	0.000033	0.00021 mg/L	0.000033	16.28%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Ni 231.604†	4.9	0.00018 mg/L	0.000145	0.00018 mg/L	0.000145	82.49%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Sb 206.836†	7.4	0.00674 mg/L	0.002241	0.00674 mg/L	0.002241	33.25%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Tl 190.801†	0.5	0.00075 mg/L	0.003182	0.00075 mg/L	0.003182	425.49%

QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† 43.5 0.00038 mg/L 0.000299 0.00038 mg/L 0.000299 78.93%
 QC value within limits for V 292.402 Recovery = Not calculated
 Ti 334.940† 135.4 0.00026 mg/L 0.000139 0.00026 mg/L 0.000139 53.21%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 20.9 0.11385 mg/L 0.048365 0.11385 mg/L 0.048365 42.48%
 QC value within limits for Ca 227.546 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 23

Sample ID: L1807-27A-DMW-13B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 8/31/2012 10:36:03 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-27A-DMW-13B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1661263.5	95.340	%	1.3965				1.46%
Lu 261.542	1070996.6	95.73	%	1.322				1.38%
Al 308.215†	312.3	0.01389	mg/L	0.002530	0.01389	mg/L	0.002530	18.21%
Co 228.616†	20.6	0.00062	mg/L	0.000065	0.00062	mg/L	0.000065	10.53%
Cr 267.716†	1419.7	0.02142	mg/L	0.000228	0.02142	mg/L	0.000228	1.06%
Cu 324.752†	357.1	0.00171	mg/L	0.000466	0.00171	mg/L	0.000466	27.22%
Fe 273.955†	686.4	0.03034	mg/L	0.000899	0.03034	mg/L	0.000899	2.96%
Mg 279.077†	26528.0	1.6241	mg/L	0.02222	1.6241	mg/L	0.02222	1.37%
Mn 257.610†	29500.3	0.05409	mg/L	0.000749	0.05409	mg/L	0.000749	1.38%
Ni 231.604†	7.9	0.00028	mg/L	0.000149	0.00028	mg/L	0.000149	53.92%
Sb 206.836†	8.7	0.00732	mg/L	0.003376	0.00732	mg/L	0.003376	46.10%
Tl 190.801†	-0.3	-0.00045	mg/L	0.004123	-0.00045	mg/L	0.004123	911.56%
V 292.402†	15.4	0.00018	mg/L	0.000255	0.00018	mg/L	0.000255	139.62%
Ti 334.940†	154.7	0.00045	mg/L	0.000173	0.00045	mg/L	0.000173	38.47%
Ca 227.546†	2043.8	11.133	mg/L	0.2454	11.133	mg/L	0.2454	2.20%

Sequence No.: 24

Sample ID: L1807-28A-DMW-23A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 109

Date Collected: 8/31/2012 10:39:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1807-28A-DMW-23A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1652663.9	94.847	%	0.8655				0.91%
Lu 261.542	1071083.4	95.74	%	0.954				1.00%
Al 308.215†	3081.7	0.15338	mg/L	0.002038	0.15338	mg/L	0.002038	1.33%
Co 228.616†	21.0	0.00058	mg/L	0.000203	0.00058	mg/L	0.000203	34.84%
Cr 267.716†	85.6	0.00107	mg/L	0.000317	0.00107	mg/L	0.000317	29.56%
Cu 324.752†	1414.3	0.00694	mg/L	0.000130	0.00694	mg/L	0.000130	1.88%
Fe 273.955†	40990.1	1.8117	mg/L	0.01411	1.8117	mg/L	0.01411	0.78%
Mg 279.077†	78444.8	4.8028	mg/L	0.03327	4.8028	mg/L	0.03327	0.69%
Mn 257.610†	587713.9	1.0779	mg/L	0.00167	1.0779	mg/L	0.00167	0.15%
Ni 231.604†	13.4	0.00046	mg/L	0.000262	0.00046	mg/L	0.000262	56.88%
Sb 206.836†	7.2	0.00599	mg/L	0.004428	0.00599	mg/L	0.004428	73.98%
Tl 190.801†	1.7	0.00337	mg/L	0.002996	0.00337	mg/L	0.002996	88.81%
V 292.402†	181.6	0.00163	mg/L	0.000242	0.00163	mg/L	0.000242	14.83%
Ti 334.940†	835.7	0.00195	mg/L	0.000084	0.00195	mg/L	0.000084	4.32%
Ca 227.546†	4796.3	26.109	mg/L	0.1280	26.109	mg/L	0.1280	0.49%

Sequence No.: 25

Sample ID: L1808-01A-LMW-5F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 110

Date Collected: 8/31/2012 10:43:07 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-01A~LMW-5F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1705916.8	97.903	%	0.6479				0.66%
Lu 261.542	1098761.5	98.21	%	0.643				0.65%
Al 308.215†	2849.3	0.14466	mg/L	0.002974	0.14466	mg/L	0.002974	2.06%
Co 228.616†	12.2	0.00036	mg/L	0.000086	0.00036	mg/L	0.000086	23.69%
Cr 267.716†	99.4	0.00149	mg/L	0.000158	0.00149	mg/L	0.000158	10.65%
Cu 324.752†	317.2	0.00152	mg/L	0.000270	0.00152	mg/L	0.000270	17.75%
Fe 273.955†	449.0	0.01985	mg/L	0.000388	0.01985	mg/L	0.000388	1.96%
Mg 279.077†	52643.5	3.2231	mg/L	0.04380	3.2231	mg/L	0.04380	1.36%
Mn 257.610†	34993.1	0.06415	mg/L	0.000960	0.06415	mg/L	0.000960	1.50%
Ni 231.604†	78.4	0.00282	mg/L	0.000470	0.00282	mg/L	0.000470	16.68%
Sb 206.836†	6.2	0.00534	mg/L	0.001872	0.00534	mg/L	0.001872	35.03%
Tl 190.801†	-3.2	-0.00481	mg/L	0.002112	-0.00481	mg/L	0.002112	43.88%
V 292.402†	21.4	0.00019	mg/L	0.000148	0.00019	mg/L	0.000148	77.92%
Ti 334.940†	-91.6	0.00006	mg/L	0.000024	0.00006	mg/L	0.000024	40.94%
Ca 227.546†	3190.5	17.379	mg/L	0.1458	17.379	mg/L	0.1458	0.84%

Sequence No.: 26

Sample ID: L1808-02A~LMW-55F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 8/31/2012 10:46:39 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-02A~LMW-55F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1704515.4	97.822	%	1.0865				1.11%
Lu 261.542	1098521.5	98.19	%	0.957				0.97%
Al 308.215†	2999.5	0.15244	mg/L	0.004321	0.15244	mg/L	0.004321	2.83%
Co 228.616†	9.7	0.00029	mg/L	0.000085	0.00029	mg/L	0.000085	29.88%
Cr 267.716†	109.3	0.00164	mg/L	0.000255	0.00164	mg/L	0.000255	15.58%
Cu 324.752†	324.8	0.00158	mg/L	0.000258	0.00158	mg/L	0.000258	16.34%
Fe 273.955†	5782.4	0.25558	mg/L	0.003155	0.25558	mg/L	0.003155	1.23%
Mg 279.077†	52236.2	3.1982	mg/L	0.02972	3.1982	mg/L	0.02972	0.93%
Mn 257.610†	35175.1	0.06449	mg/L	0.000587	0.06449	mg/L	0.000587	0.91%
Ni 231.604†	67.5	0.00243	mg/L	0.000275	0.00243	mg/L	0.000275	11.33%
Sb 206.836†	4.7	0.00400	mg/L	0.002756	0.00400	mg/L	0.002756	68.88%
Tl 190.801†	-2.5	-0.00378	mg/L	0.003814	-0.00378	mg/L	0.003814	100.97%
V 292.402†	41.5	0.00037	mg/L	0.000160	0.00037	mg/L	0.000160	43.03%
Ti 334.940†	-135.4	-0.00002	mg/L	0.000014	-0.00002	mg/L	0.000014	61.89%
Ca 227.546†	3230.4	17.595	mg/L	0.1931	17.595	mg/L	0.1931	1.10%

Sequence No.: 27

Sample ID: L1808-03A~LMW-6F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 112

Date Collected: 8/31/2012 10:50:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-03A~LMW-6F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1719174.6	98.664	%	0.5172				0.52%
Lu 261.542	1108912.7	99.12	%	0.410				0.41%
Al 308.215†	171.7	0.00726	mg/L	0.003413	0.00726	mg/L	0.003413	47.02%
Co 228.616†	18.8	0.00056	mg/L	0.000231	0.00056	mg/L	0.000231	41.18%
Cr 267.716†	25.4	0.00038	mg/L	0.000127	0.00038	mg/L	0.000127	33.31%
Cu 324.752†	275.0	0.00132	mg/L	0.000481	0.00132	mg/L	0.000481	36.41%
Fe 273.955†	839.9	0.03712	mg/L	0.001072	0.03712	mg/L	0.001072	2.89%
Mg 279.077†	49627.2	3.0384	mg/L	0.02544	3.0384	mg/L	0.02544	0.84%
Mn 257.610†	3760.2	0.00687	mg/L	0.000070	0.00687	mg/L	0.000070	1.02%
Ni 231.604†	41.3	0.00148	mg/L	0.000357	0.00148	mg/L	0.000357	24.12%
Sb 206.836†	4.1	0.00361	mg/L	0.003391	0.00361	mg/L	0.003391	93.92%
Tl 190.801†	-1.1	-0.00164	mg/L	0.002256	-0.00164	mg/L	0.002256	137.81%
V 292.402†	38.5	0.00034	mg/L	0.000387	0.00034	mg/L	0.000387	115.18%
Ti 334.940†	29.7	0.00013	mg/L	0.000060	0.00013	mg/L	0.000060	46.66%

Ca 227.546† 1376.3 7.4961 mg/L 0.05742 7.4961 mg/L 0.05742 0.77%

Sequence No.: 28

Sample ID: L1808-04A-LMW-18F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 8/31/2012 10:53:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-04A-LMW-18F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1724687.8	98.980 %		1.2540				1.27%
Lu 261.542	1114046.5	99.58 %		1.209				1.21%
Al 308.215†	2581.3	0.13051 mg/L		0.007872	0.13051 mg/L		0.007872	6.03%
Co 228.616†	16.5	0.00048 mg/L		0.000218	0.00048 mg/L		0.000218	45.62%
Cr 267.716†	201.6	0.00294 mg/L		0.000599	0.00294 mg/L		0.000599	20.39%
Cu 324.752†	315.8	0.00154 mg/L		0.000345	0.00154 mg/L		0.000345	22.42%
Fe 273.955†	5837.6	0.25802 mg/L		0.002760	0.25802 mg/L		0.002760	1.07%
Mg 279.077†	56296.9	3.4468 mg/L		0.01612	3.4468 mg/L		0.01612	0.47%
Mn 257.610†	281150.1	0.51566 mg/L		0.005722	0.51566 mg/L		0.005722	1.11%
Ni 231.604†	35.4	0.00126 mg/L		0.000325	0.00126 mg/L		0.000325	25.76%
Sb 206.836†	2.6	0.00210 mg/L		0.004007	0.00210 mg/L		0.004007	190.76%
Tl 190.801†	-2.8	-0.00399 mg/L		0.002429	-0.00399 mg/L		0.002429	60.82%
V 292.402†	64.9	0.00057 mg/L		0.000391	0.00057 mg/L		0.000391	68.35%
Ti 334.940†	2336.4	0.00466 mg/L		0.000265	0.00466 mg/L		0.000265	5.69%
Ca 227.546†	2696.5	14.684 mg/L		0.2270	14.684 mg/L		0.2270	1.55%

Sequence No.: 29

Sample ID: L1808-05A-LMW-19F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 114

Date Collected: 8/31/2012 10:57:15 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-05A-LMW-19F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1697050.0	97.394 %		0.6820				0.70%
Lu 261.542	1095695.7	97.94 %		0.606				0.62%
Al 308.215†	-39.7	-0.00433 mg/L		0.002714	-0.00433 mg/L		0.002714	62.73%
Co 228.616†	7.0	0.00021 mg/L		0.000228	0.00021 mg/L		0.000228	108.74%
Cr 267.716†	12.2	0.00018 mg/L		0.000581	0.00018 mg/L		0.000581	316.48%
Cu 324.752†	287.3	0.00138 mg/L		0.000183	0.00138 mg/L		0.000183	13.31%
Fe 273.955†	178.0	0.00787 mg/L		0.000289	0.00787 mg/L		0.000289	3.67%
Mg 279.077†	64920.4	3.9748 mg/L		0.02142	3.9748 mg/L		0.02142	0.54%
Mn 257.610†	1820.5	0.00330 mg/L		0.000027	0.00330 mg/L		0.000027	0.82%
Ni 231.604†	14.9	0.00052 mg/L		0.000247	0.00052 mg/L		0.000247	47.51%
Sb 206.836†	5.4	0.00470 mg/L		0.003699	0.00470 mg/L		0.003699	78.66%
Tl 190.801†	-0.4	-0.00044 mg/L		0.001202	-0.00044 mg/L		0.001202	273.76%
V 292.402†	-11.6	-0.00010 mg/L		0.000199	-0.00010 mg/L		0.000199	199.08%
Ti 334.940†	-47.0	0.00001 mg/L		0.000043	0.00001 mg/L		0.000043	538.98%
Ca 227.546†	1863.6	10.151 mg/L		0.0886	10.151 mg/L		0.0886	0.87%

Sequence No.: 30

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 11:00:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1696760.7	97.377 %		1.3845				1.42%
Lu 261.542	1097607.5	98.11 %		1.413				1.44%
Al 308.215†	181414.6	9.4369 mg/L		0.24253	9.4369 mg/L		0.24253	2.57%

QC value within limits for Al 308.215 Recovery = 94.37%

Co	228.616†	83155.3	2.4893 mg/L	0.06576	2.4893 mg/L	0.06576	2.64%
	QC value within limits for Co	228.616	Recovery =	99.57%			
Cr	267.716†	62672.3	0.94629 mg/L	0.022521	0.94629 mg/L	0.022521	2.38%
	QC value within limits for Cr	267.716	Recovery =	94.63%			
Cu	324.752†	244599.7	1.1729 mg/L	0.03060	1.1729 mg/L	0.03060	2.61%
	QC value within limits for Cu	324.752	Recovery =	93.83%			
Fe	273.955†	110011.4	4.8664 mg/L	0.11855	4.8664 mg/L	0.11855	2.44%
	QC value within limits for Fe	273.955	Recovery =	97.33%			
Mg	279.077†	393925.1	24.116 mg/L	0.0652	24.116 mg/L	0.0652	0.27%
	QC value within limits for Mg	279.077	Recovery =	96.46%			
Mn	257.610†	1318444.1	2.4180 mg/L	0.00769	2.4180 mg/L	0.00769	0.32%
	QC value within limits for Mn	257.610	Recovery =	96.72%			
Ni	231.604†	67970.4	2.4526 mg/L	0.06327	2.4526 mg/L	0.06327	2.58%
	QC value within limits for Ni	231.604	Recovery =	98.10%			
Sb	206.836†	571.7	0.50237 mg/L	0.007687	0.50237 mg/L	0.007687	1.53%
	QC value within limits for Sb	206.836	Recovery =	100.47%			
Tl	190.801†	308.4	0.45171 mg/L	0.004104	0.45171 mg/L	0.004104	0.91%
	QC value within limits for Tl	190.801	Recovery =	90.34%			
V	292.402†	274375.4	2.3852 mg/L	0.05839	2.3852 mg/L	0.05839	2.45%
	QC value within limits for V	292.402	Recovery =	95.41%			
Ti	334.940†	245609.2	0.46980 mg/L	0.002115	0.46980 mg/L	0.002115	0.45%
	QC value within limits for Ti	334.940	Recovery =	Not calculated			
Ca	227.546†	4386.0	23.065 mg/L	0.3939	23.065 mg/L	0.3939	1.71%
	QC value within limits for Ca	227.546	Recovery =	92.26%			

All analyte(s) passed QC.

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 11:04:19 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1676992.1	96.243	%	1.1044				1.15%
Lu 261.542	1077232.9	96.29	%	1.112				1.15%
Al 308.215†	-12.7	-0.00069	mg/L	0.003524	-0.00069	mg/L	0.003524	509.25%
	QC value within limits for Al	308.215	Recovery =	Not calculated				
Co 228.616†	13.7	0.00041	mg/L	0.000091	0.00041	mg/L	0.000091	22.30%
	QC value within limits for Co	228.616	Recovery =	Not calculated				
Cr 267.716†	6.2	0.00009	mg/L	0.000051	0.00009	mg/L	0.000051	54.40%
	QC value within limits for Cr	267.716	Recovery =	Not calculated				
Cu 324.752†	178.5	0.00086	mg/L	0.000050	0.00086	mg/L	0.000050	5.80%
	QC value within limits for Cu	324.752	Recovery =	Not calculated				
Fe 273.955†	33.6	0.00149	mg/L	0.000794	0.00149	mg/L	0.000794	53.41%
	QC value within limits for Fe	273.955	Recovery =	Not calculated				
Mg 279.077†	-9.0	-0.00055	mg/L	0.004072	-0.00055	mg/L	0.004072	739.42%
	QC value within limits for Mg	279.077	Recovery =	Not calculated				
Mn 257.610†	79.9	0.00015	mg/L	0.000074	0.00015	mg/L	0.000074	50.43%
	QC value within limits for Mn	257.610	Recovery =	Not calculated				
Ni 231.604†	4.0	0.00015	mg/L	0.000107	0.00015	mg/L	0.000107	72.95%
	QC value within limits for Ni	231.604	Recovery =	Not calculated				
Sb 206.836†	5.5	0.00497	mg/L	0.001506	0.00497	mg/L	0.001506	30.30%
	QC value within limits for Sb	206.836	Recovery =	Not calculated				
Tl 190.801†	-1.2	-0.00185	mg/L	0.001687	-0.00185	mg/L	0.001687	91.22%
	QC value within limits for Tl	190.801	Recovery =	Not calculated				
V 292.402†	37.8	0.00033	mg/L	0.000548	0.00033	mg/L	0.000548	166.90%
	QC value within limits for V	292.402	Recovery =	Not calculated				
Ti 334.940†	149.3	0.00029	mg/L	0.000118	0.00029	mg/L	0.000118	40.92%
	QC value within limits for Ti	334.940	Recovery =	Not calculated				
Ca 227.546†	29.4	0.15989	mg/L	0.056614	0.15989	mg/L	0.056614	35.41%
	QC value within limits for Ca	227.546	Recovery =	Not calculated				

All analyte(s) passed QC.

Sequence No.: 32

Sample ID: L1808-06A-LMW-12F

Analyst:

Autosampler Location: 115

Date Collected: 8/31/2012 11:07:52 AM

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-06A~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1681758.0	96.516	%	0.6607				0.68%
Lu 261.542	1084871.8	96.97	%	0.718				0.74%
Al 308.215†	708.2	0.03094	mg/L	0.002624	0.03094	mg/L	0.002624	8.48%
Co 228.616†	15.5	0.00046	mg/L	0.000229	0.00046	mg/L	0.000229	49.69%
Cr 267.716†	39.6	0.00060	mg/L	0.000293	0.00060	mg/L	0.000293	49.19%
Cu 324.752†	540.1	0.00259	mg/L	0.000091	0.00259	mg/L	0.000091	3.52%
Fe 273.955†	967.9	0.04278	mg/L	0.002217	0.04278	mg/L	0.002217	5.18%
Mg 279.077†	90175.2	5.5210	mg/L	0.05853	5.5210	mg/L	0.05853	1.06%
Mn 257.610†	4503.9	0.00821	mg/L	0.000115	0.00821	mg/L	0.000115	1.40%
Ni 231.604†	46.8	0.00166	mg/L	0.000063	0.00166	mg/L	0.000063	3.80%
Sb 206.836†	7.1	0.00605	mg/L	0.003468	0.00605	mg/L	0.003468	57.36%
Tl 190.801†	-0.6	-0.00082	mg/L	0.004141	-0.00082	mg/L	0.004141	503.19%
V 292.402†	103.6	0.00090	mg/L	0.000408	0.00090	mg/L	0.000408	45.25%
Ti 334.940†	297.4	0.00095	mg/L	0.000113	0.00095	mg/L	0.000113	11.95%
Ca 227.546†	5215.9	28.413	mg/L	0.2478	28.413	mg/L	0.2478	0.87%

Sequence No.: 33

Sample ID: L1808-06ADUP~LMW-12FD

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 116

Date Collected: 8/31/2012 11:11:24 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06ADUP~LMW-12FD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1678216.5	96.313	%	0.8609				0.89%
Lu 261.542	1081639.1	96.68	%	0.954				0.99%
Al 308.215†	668.7	0.02895	mg/L	0.002418	0.02895	mg/L	0.002418	8.35%
Co 228.616†	3.8	0.00011	mg/L	0.000097	0.00011	mg/L	0.000097	86.20%
Cr 267.716†	34.4	0.00052	mg/L	0.000303	0.00052	mg/L	0.000303	58.46%
Cu 324.752†	476.3	0.00229	mg/L	0.000268	0.00229	mg/L	0.000268	11.72%
Fe 273.955†	844.2	0.03732	mg/L	0.002535	0.03732	mg/L	0.002535	6.79%
Mg 279.077†	88938.4	5.4453	mg/L	0.06474	5.4453	mg/L	0.06474	1.19%
Mn 257.610†	4607.3	0.00840	mg/L	0.000091	0.00840	mg/L	0.000091	1.09%
Ni 231.604†	44.9	0.00160	mg/L	0.000329	0.00160	mg/L	0.000329	20.59%
Sb 206.836†	5.8	0.00482	mg/L	0.002735	0.00482	mg/L	0.002735	56.78%
Tl 190.801†	-1.5	-0.00223	mg/L	0.004098	-0.00223	mg/L	0.004098	184.09%
V 292.402†	120.1	0.00104	mg/L	0.000282	0.00104	mg/L	0.000282	26.96%
Ti 334.940†	258.2	0.00087	mg/L	0.000083	0.00087	mg/L	0.000083	9.57%
Ca 227.546†	5165.2	28.137	mg/L	0.1810	28.137	mg/L	0.1810	0.64%

Sequence No.: 34

Sample ID: L1808-06AMS~LMW-12FS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 117

Date Collected: 8/31/2012 11:14:56 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06AMS~LMW-12FS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1654578.6	94.957	%	0.4951				0.52%
Lu 261.542	1067346.9	95.41	%	0.457				0.48%
Al 308.215†	176795.1	9.1916	mg/L	0.05775	9.1916	mg/L	0.05775	0.63%
Co 228.616†	77133.1	2.3100	mg/L	0.01604	2.3100	mg/L	0.01604	0.69%
Cr 267.716†	60967.2	0.92053	mg/L	0.006117	0.92053	mg/L	0.006117	0.66%
Cu 324.752†	237083.6	1.1368	mg/L	0.00682	1.1368	mg/L	0.00682	0.60%
Fe 273.955†	106235.2	4.6993	mg/L	0.03040	4.6993	mg/L	0.03040	0.65%
Mg 279.077†	466887.8	28.583	mg/L	0.0852	28.583	mg/L	0.0852	0.30%
Mn 257.610†	1282286.8	2.3516	mg/L	0.00187	2.3516	mg/L	0.00187	0.08%
Ni 231.604†	63880.0	2.3052	mg/L	0.01406	2.3052	mg/L	0.01406	0.61%

Sb 206.836†	545.9	0.47794 mg/L	0.001210	0.47794 mg/L	0.001210	0.25%
Tl 190.801†	297.3	0.43604 mg/L	0.001844	0.43604 mg/L	0.001844	0.42%
V 292.402†	263169.6	2.2884 mg/L	0.01468	2.2884 mg/L	0.01468	0.64%
Ti 334.940†	518.0	0.00112 mg/L	0.000031	0.00112 mg/L	0.000031	2.79%
Ca 227.546†	9360.2	50.220 mg/L	0.2305	50.220 mg/L	0.2305	0.46%

Sequence No.: 35

Sample ID: L1808-06ASD~LMW-12F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 118

Date Collected: 8/31/2012 11:18:29 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06ASD~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1690783.5	97.034	%	1.4212				1.46%
Lu 261.542	1088215.2	97.27	%	1.374				1.41%
Al 308.215†	135.1	0.00585	mg/L	0.004241	0.00585	mg/L	0.004241	72.52%
Co 228.616†	8.5	0.00026	mg/L	0.000093	0.00026	mg/L	0.000093	36.55%
Cr 267.716†	13.6	0.00021	mg/L	0.000098	0.00021	mg/L	0.000098	47.80%
Cu 324.752†	291.0	0.00140	mg/L	0.000235	0.00140	mg/L	0.000235	16.87%
Fe 273.955†	237.0	0.01048	mg/L	0.000924	0.01048	mg/L	0.000924	8.83%
Mg 279.077†	18789.7	1.1504	mg/L	0.02225	1.1504	mg/L	0.02225	1.93%
Mn 257.610†	1027.6	0.00187	mg/L	0.000063	0.00187	mg/L	0.000063	3.38%
Ni 231.604†	14.4	0.00051	mg/L	0.000111	0.00051	mg/L	0.000111	21.51%
Sb 206.836†	2.5	0.00215	mg/L	0.001526	0.00215	mg/L	0.001526	70.84%
Tl 190.801†	-0.5	-0.00073	mg/L	0.005265	-0.00073	mg/L	0.005265	720.74%
V 292.402†	56.3	0.00049	mg/L	0.000283	0.00049	mg/L	0.000283	57.86%
Ti 334.940†	88.4	0.00024	mg/L	0.000092	0.00024	mg/L	0.000092	37.63%
Ca 227.546†	1040.3	5.6666	mg/L	0.05638	5.6666	mg/L	0.05638	0.99%

Sequence No.: 36

Sample ID: L1808-06APDS~LMW-12F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 119

Date Collected: 8/31/2012 11:22:01 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-06APDS~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1660535.5	95.298	%	0.5424				0.57%
Lu 261.542	1070637.8	95.70	%	0.527				0.55%
Al 308.215†	171968.2	8.9406	mg/L	0.12694	8.9406	mg/L	0.12694	1.42%
Co 228.616†	75411.6	2.2585	mg/L	0.03671	2.2585	mg/L	0.03671	1.63%
Cr 267.716†	59427.3	0.89729	mg/L	0.011244	0.89729	mg/L	0.011244	1.25%
Cu 324.752†	230802.2	1.1067	mg/L	0.01477	1.1067	mg/L	0.01477	1.33%
Fe 273.955†	103783.5	4.5908	mg/L	0.06742	4.5908	mg/L	0.06742	1.47%
Mg 279.077†	450263.5	27.565	mg/L	0.2628	27.565	mg/L	0.2628	0.95%
Mn 257.610†	1233258.0	2.2617	mg/L	0.02321	2.2617	mg/L	0.02321	1.03%
Ni 231.604†	62494.3	2.2552	mg/L	0.03287	2.2552	mg/L	0.03287	1.46%
Sb 206.836†	505.4	0.44167	mg/L	0.003074	0.44167	mg/L	0.003074	0.70%
Tl 190.801†	290.5	0.42598	mg/L	0.002977	0.42598	mg/L	0.002977	0.70%
V 292.402†	257370.3	2.2380	mg/L	0.02786	2.2380	mg/L	0.02786	1.24%
Ti 334.940†	547.4	0.00119	mg/L	0.000043	0.00119	mg/L	0.000043	3.65%
Ca 227.546†	9192.3	49.323	mg/L	0.2333	49.323	mg/L	0.2333	0.47%

Sequence No.: 37

Sample ID: L1808-07A~LMW-14F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 120

Date Collected: 8/31/2012 11:25:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-07A~LMW-14F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
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Y 360.073	1699627.0	97.542 %	0.5769			0.59%
Lu 261.542	1095785.1	97.95 %	0.598			0.61%
Al 308.215†	17751.6	0.92172 mg/L	0.021969	0.92172 mg/L	0.021969	2.38%
Co 228.616†	28.2	0.00074 mg/L	0.000036	0.00074 mg/L	0.000036	4.84%
Cr 267.716†	5741.6	0.08663 mg/L	0.001044	0.08663 mg/L	0.001044	1.21%
Cu 324.752†	1657.3	0.00805 mg/L	0.000238	0.00805 mg/L	0.000238	2.96%
Fe 273.955†	26317.3	1.1632 mg/L	0.02270	1.1632 mg/L	0.02270	1.95%
Mg 279.077†	39975.9	2.4473 mg/L	0.04688	2.4473 mg/L	0.04688	1.92%
Mn 257.610†	114554.5	0.21009 mg/L	0.003565	0.21009 mg/L	0.003565	1.70%
Ni 231.604†	157.8	0.00566 mg/L	0.000138	0.00566 mg/L	0.000138	2.44%
Sb 206.836†	12.1	0.00917 mg/L	0.003617	0.00917 mg/L	0.003617	39.43%
Tl 190.801†	1.5	0.00253 mg/L	0.003941	0.00253 mg/L	0.003941	155.81%
V 292.402†	257.2	0.00242 mg/L	0.000222	0.00242 mg/L	0.000222	9.20%
Ti 334.940†	18064.3	0.03470 mg/L	0.000229	0.03470 mg/L	0.000229	0.66%
Ca 227.546†	2004.2	10.907 mg/L	0.1941	10.907 mg/L	0.1941	1.78%

Sequence No.: 38

Sample ID: L1808-08A-LMW-21F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 121

Date Collected: 8/31/2012 11:29:06 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-08A-LMW-21F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1702335.9	97.697 %		0.9413				0.96%
Lu 261.542	1100069.7	98.33 %		0.934				0.95%
Al 308.215†	108.9	0.00255 mg/L		0.000921	0.00255 mg/L		0.000921	36.10%
Co 228.616†	11.5	0.00034 mg/L		0.000110	0.00034 mg/L		0.000110	32.06%
Cr 267.716†	624.9	0.00942 mg/L		0.000185	0.00942 mg/L		0.000185	1.97%
Cu 324.752†	270.8	0.00130 mg/L		0.000235	0.00130 mg/L		0.000235	18.10%
Fe 273.955†	493.5	0.02181 mg/L		0.000495	0.02181 mg/L		0.000495	2.27%
Mg 279.077†	92363.8	5.6550 mg/L		0.04306	5.6550 mg/L		0.04306	0.76%
Mn 257.610†	30043.7	0.05505 mg/L		0.000366	0.05505 mg/L		0.000366	0.67%
Ni 231.604†	48.5	0.00173 mg/L		0.000373	0.00173 mg/L		0.000373	21.64%
Sb 206.836†	13.6	0.01186 mg/L		0.000990	0.01186 mg/L		0.000990	8.35%
Tl 190.801†	-0.7	-0.00096 mg/L		0.002249	-0.00096 mg/L		0.002249	233.43%
V 292.402†	2.4	0.00004 mg/L		0.000257	0.00004 mg/L		0.000257	603.63%
Ti 334.940†	-45.6	0.00004 mg/L		0.000032	0.00004 mg/L		0.000032	87.11%
Ca 227.546†	2491.3	13.569 mg/L		0.1403	13.569 mg/L		0.1403	1.03%

Sequence No.: 39

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 11:32:38 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1661001.3	95.325 %		0.5666				0.59%
Lu 261.542	1073058.8	95.92 %		0.645				0.67%
Al 308.215†	182712.8	9.5044 mg/L		0.04065	9.5044 mg/L		0.04065	0.43%
QC value within limits for Al 308.215 Recovery = 95.04%								
Co 228.616†	83448.3	2.4981 mg/L		0.01134	2.4981 mg/L		0.01134	0.45%
QC value within limits for Co 228.616 Recovery = 99.92%								
Cr 267.716†	63118.6	0.95303 mg/L		0.004359	0.95303 mg/L		0.004359	0.46%
QC value within limits for Cr 267.716 Recovery = 95.30%								
Cu 324.752†	246925.2	1.1840 mg/L		0.00520	1.1840 mg/L		0.00520	0.44%
QC value within limits for Cu 324.752 Recovery = 94.72%								
Fe 273.955†	110474.6	4.8869 mg/L		0.02558	4.8869 mg/L		0.02558	0.52%
QC value within limits for Fe 273.955 Recovery = 97.74%								
Mg 279.077†	397843.1	24.356 mg/L		0.2484	24.356 mg/L		0.2484	1.02%
QC value within limits for Mg 279.077 Recovery = 97.42%								
Mn 257.610†	1333717.5	2.4460 mg/L		0.02458	2.4460 mg/L		0.02458	1.00%
QC value within limits for Mn 257.610 Recovery = 97.84%								
Ni 231.604†	68246.9	2.4626 mg/L		0.01106	2.4626 mg/L		0.01106	0.45%

QC value within limits for Ni 231.604 Recovery = 98.50%
 Sb 206.836† 581.7 0.51132 mg/L 0.004115 0.51132 mg/L 0.004115 0.80%
 QC value within limits for Sb 206.836 Recovery = 102.26%
 Tl 190.801† 310.1 0.45428 mg/L 0.013523 0.45428 mg/L 0.013523 2.98%
 QC value within limits for Tl 190.801 Recovery = 90.86%
 V 292.402† 276743.2 2.4057 mg/L 0.01073 2.4057 mg/L 0.01073 0.45%
 QC value within limits for V 292.402 Recovery = 96.23%
 Ti 334.940† 249167.2 0.47661 mg/L 0.004484 0.47661 mg/L 0.004484 0.94%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 4441.3 23.363 mg/L 0.2805 23.363 mg/L 0.2805 1.20%
 QC value within limits for Ca 227.546 Recovery = 93.45%
 All analyte(s) passed QC.

Sequence No.: 40

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 11:36:10 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1706603.2	97.942 %		1.4366			1.47%
Lu 261.542	1096482.7	98.01 %		1.440			1.47%
Al 308.215†	-46.3	-0.00242 mg/L		0.003973	-0.00242 mg/L	0.003973	163.91%
QC value within limits for Al 308.215							
Co 228.616†	15.1	0.00045 mg/L		0.000352	0.00045 mg/L	0.000352	77.78%
QC value within limits for Co 228.616							
Cr 267.716†	-2.0	-0.00003 mg/L		0.000019	-0.00003 mg/L	0.000019	61.45%
QC value within limits for Cr 267.716							
Cu 324.752†	131.1	0.00063 mg/L		0.000135	0.00063 mg/L	0.000135	21.46%
QC value within limits for Cu 324.752							
Fe 273.955†	43.4	0.00192 mg/L		0.000221	0.00192 mg/L	0.000221	11.54%
QC value within limits for Fe 273.955							
Mg 279.077†	83.1	0.00509 mg/L		0.002829	0.00509 mg/L	0.002829	55.63%
QC value within limits for Mg 279.077							
Mn 257.610†	91.3	0.00017 mg/L		0.000034	0.00017 mg/L	0.000034	20.57%
QC value within limits for Mn 257.610							
Ni 231.604†	0.4	0.00002 mg/L		0.000155	0.00002 mg/L	0.000155	985.98%
QC value within limits for Ni 231.604							
Sb 206.836†	5.9	0.00535 mg/L		0.003164	0.00535 mg/L	0.003164	59.13%
QC value within limits for Sb 206.836							
Tl 190.801†	-0.9	-0.00145 mg/L		0.006622	-0.00145 mg/L	0.006622	457.58%
QC value within limits for Tl 190.801							
V 292.402†	21.0	0.00018 mg/L		0.000313	0.00018 mg/L	0.000313	172.04%
QC value within limits for V 292.402							
Ti 334.940†	72.6	0.00014 mg/L		0.000064	0.00014 mg/L	0.000064	45.49%
QC value within limits for Ti 334.940							
Ca 227.546†	13.1	0.07105 mg/L		0.024740	0.07105 mg/L	0.024740	34.82%
QC value within limits for Ca 227.546							

All analyte(s) passed QC.

Sequence No.: 41

Sample ID: MB-67911~PBW

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 122

Date Collected: 8/31/2012 11:39:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MB-67911~PBW

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1763996.6	101.24 %		1.708			1.69%
Lu 261.542	1135726.3	101.5 %		1.71			1.69%
Al 308.215†	-126.1	-0.00657 mg/L		0.003694	-0.00657 mg/L	0.003694	56.23%
Co 228.616†	8.1	0.00024 mg/L		0.000100	0.00024 mg/L	0.000100	41.19%
Cr 267.716†	7.7	0.00012 mg/L		0.000105	0.00012 mg/L	0.000105	90.58%
Cu 324.752†	14.6	0.00007 mg/L		0.000444	0.00007 mg/L	0.000444	632.50%

Fe 273.955†	56.0	0.00248 mg/L	0.000713	0.00248 mg/L	0.000713	28.77%
Mg 279.077†	67.2	0.00411 mg/L	0.003009	0.00411 mg/L	0.003009	73.17%
Mn 257.610†	38.9	0.00007 mg/L	0.000013	0.00007 mg/L	0.000013	17.57%
Ni 231.604†	2.6	0.00009 mg/L	0.000234	0.00009 mg/L	0.000234	249.51%
Sb 206.836†	3.1	0.00282 mg/L	0.001988	0.00282 mg/L	0.001988	70.40%
Tl 190.801†	-1.5	-0.00231 mg/L	0.003698	-0.00231 mg/L	0.003698	159.84%
V 292.402†	7.8	0.00007 mg/L	0.000133	0.00007 mg/L	0.000133	195.21%
Ti 334.940†	114.7	0.00022 mg/L	0.000082	0.00022 mg/L	0.000082	37.04%
Ca 227.546†	3.3	0.01798 mg/L	0.055569	0.01798 mg/L	0.055569	309.11%

Sequence No.: 42

Sample ID: LCS-67911~LCS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 123

Date Collected: 8/31/2012 11:43:15 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS-67911~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1679876.9	96.408	%	0.6664				0.69%
Lu 261.542	1086421.3	97.11	%	0.524				0.54%
Al 308.215†	173384.3	9.0200	mg/L	0.08115	9.0200	mg/L	0.08115	0.90%
Co 228.616†	76492.0	2.2908	mg/L	0.02199	2.2908	mg/L	0.02199	0.96%
Cr 267.716†	59844.5	0.90358	mg/L	0.008416	0.90358	mg/L	0.008416	0.93%
Cu 324.752†	227513.0	1.0910	mg/L	0.00994	1.0910	mg/L	0.00994	0.91%
Fe 273.955†	103266.8	4.5680	mg/L	0.04112	4.5680	mg/L	0.04112	0.90%
Mg 279.077†	373343.1	22.856	mg/L	0.2093	22.856	mg/L	0.2093	0.92%
Mn 257.610†	1247585.6	2.2880	mg/L	0.02328	2.2880	mg/L	0.02328	1.02%
Ni 231.604†	63294.3	2.2841	mg/L	0.02136	2.2841	mg/L	0.02136	0.94%
Sb 206.836†	534.5	0.46835	mg/L	0.002662	0.46835	mg/L	0.002662	0.57%
Tl 190.801†	298.7	0.43844	mg/L	0.002406	0.43844	mg/L	0.002406	0.55%
V 292.402†	256943.5	2.2343	mg/L	0.01932	2.2343	mg/L	0.01932	0.86%
Ti 334.940†	359.1	0.00045	mg/L	0.000189	0.00045	mg/L	0.000189	42.04%
Ca 227.546†	4154.7	21.871	mg/L	0.0353	21.871	mg/L	0.0353	0.16%

Sequence No.: 43

Sample ID: L1808-09A~LMW-20F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 124

Date Collected: 8/31/2012 11:46:48 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-09A~LMW-20F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1656340.5	95.058	%	0.3884				0.41%
Lu 261.542	1071350.2	95.76	%	0.398				0.42%
Al 308.215†	46.5	-0.00160	mg/L	0.004169	-0.00160	mg/L	0.004169	259.80%
Co 228.616†	16.0	0.00048	mg/L	0.000298	0.00048	mg/L	0.000298	61.93%
Cr 267.716†	91.8	0.00138	mg/L	0.000642	0.00138	mg/L	0.000642	46.38%
Cu 324.752†	359.6	0.00172	mg/L	0.000394	0.00172	mg/L	0.000394	22.83%
Fe 273.955†	259.1	0.01145	mg/L	0.000656	0.01145	mg/L	0.000656	5.73%
Mg 279.077†	146730.9	8.9836	mg/L	0.03944	8.9836	mg/L	0.03944	0.44%
Mn 257.610†	3109.8	0.00561	mg/L	0.000168	0.00561	mg/L	0.000168	2.99%
Ni 231.604†	17.8	0.00061	mg/L	0.000119	0.00061	mg/L	0.000119	19.61%
Sb 206.836†	3.7	0.00300	mg/L	0.003170	0.00300	mg/L	0.003170	105.55%
Tl 190.801†	1.4	0.00231	mg/L	0.004181	0.00231	mg/L	0.004181	181.35%
V 292.402†	53.1	0.00046	mg/L	0.000482	0.00046	mg/L	0.000482	103.60%
Ti 334.940†	-171.3	-0.00020	mg/L	0.000070	-0.00020	mg/L	0.000070	34.89%
Ca 227.546†	3198.4	17.420	mg/L	0.0774	17.420	mg/L	0.0774	0.44%

Sequence No.: 44

Sample ID: L1808-10A~LMW-10F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 125

Date Collected: 8/31/2012 11:50:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-10A~LMW-10F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1672588.7	95.990	%	0.7504				0.78%
Lu 261.542	1079376.0	96.48	%	0.800				0.83%
Al 308.215†	100.4	-0.00009	mg/L	0.001661	-0.00009	mg/L	0.001661	>999.9%
Co 228.616†	23.6	0.00071	mg/L	0.000070	0.00071	mg/L	0.000070	9.90%
Cr 267.716†	10144.2	0.15313	mg/L	0.002051	0.15313	mg/L	0.002051	1.34%
Cu 324.752†	350.0	0.00168	mg/L	0.000279	0.00168	mg/L	0.000279	16.62%
Fe 273.955†	250.2	0.01106	mg/L	0.000743	0.01106	mg/L	0.000743	6.72%
Mg 279.077†	59593.7	3.6483	mg/L	0.04405	3.6483	mg/L	0.04405	1.21%
Mn 257.610†	702.4	0.00125	mg/L	0.000044	0.00125	mg/L	0.000044	3.51%
Ni 231.604†	82.5	0.00296	mg/L	0.000184	0.00296	mg/L	0.000184	6.22%
Sb 206.836†	6.5	0.00273	mg/L	0.001396	0.00273	mg/L	0.001396	51.10%
Tl 190.801†	0.3	0.00054	mg/L	0.001588	0.00054	mg/L	0.001588	296.68%
V 292.402†	-48.5	-0.00007	mg/L	0.000573	-0.00007	mg/L	0.000573	814.12%
Ti 334.940†	-221.6	-0.00008	mg/L	0.000157	-0.00008	mg/L	0.000157	202.68%
Ca 227.546†	4770.3	25.986	mg/L	0.1074	25.986	mg/L	0.1074	0.41%

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Sequence No.: 45
Sample ID: L1808-11A~LMW-16F
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 126
Date Collected: 8/31/2012 11:53:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-11A~LMW-16F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1697159.7	97.400	%	0.1395				0.14%
Lu 261.542	1093839.6	97.77	%	0.164				0.17%
Al 308.215†	5764.8	0.29680	mg/L	0.006303	0.29680	mg/L	0.006303	2.12%
Co 228.616†	4.4	0.00013	mg/L	0.000118	0.00013	mg/L	0.000118	89.70%
Cr 267.716†	163.9	0.00235	mg/L	0.001145	0.00235	mg/L	0.001145	48.78%
Cu 324.752†	12464.6	0.05971	mg/L	0.000844	0.05971	mg/L	0.000844	1.41%
Fe 273.955†	87.9	0.00389	mg/L	0.000269	0.00389	mg/L	0.000269	6.93%
Mg 279.077†	58398.4	3.5755	mg/L	0.05083	3.5755	mg/L	0.05083	1.42%
Mn 257.610†	336835.2	0.61779	mg/L	0.001315	0.61779	mg/L	0.001315	0.21%
Ni 231.604†	312.7	0.01127	mg/L	0.000353	0.01127	mg/L	0.000353	3.13%
Sb 206.836†	2.4	0.00193	mg/L	0.003624	0.00193	mg/L	0.003624	188.17%
Tl 190.801†	-2.1	-0.00297	mg/L	0.003616	-0.00297	mg/L	0.003616	121.80%
V 292.402†	38.6	0.00032	mg/L	0.000191	0.00032	mg/L	0.000191	59.21%
Ti 334.940†	-66.0	0.00000	mg/L	0.000093	0.00000	mg/L	0.000093	>999.9%
Ca 227.546†	2068.3	11.263	mg/L	0.0456	11.263	mg/L	0.0456	0.41%

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Sequence No.: 46
Sample ID: L1808-12A~LMW-2F
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 127
Date Collected: 8/31/2012 11:57:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-12A~LMW-2F

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	1709814.3	98.127	%	1.2855				1.31%
Lu 261.542	1103610.7	98.65	%	1.340				1.36%
Al 308.215†	132.2	0.00269	mg/L	0.001842	0.00269	mg/L	0.001842	68.44%
Co 228.616†	9.2	0.00027	mg/L	0.000289	0.00027	mg/L	0.000289	105.65%
Cr 267.716†	797.2	0.01203	mg/L	0.000380	0.01203	mg/L	0.000380	3.16%
Cu 324.752†	816.2	0.00391	mg/L	0.000397	0.00391	mg/L	0.000397	10.14%
Fe 273.955†	362.8	0.01603	mg/L	0.000197	0.01603	mg/L	0.000197	1.23%
Mg 279.077†	59495.0	3.6426	mg/L	0.06562	3.6426	mg/L	0.06562	1.80%
Mn 257.610†	903.5	0.00162	mg/L	0.000048	0.00162	mg/L	0.000048	2.98%
Ni 231.604†	68.8	0.00247	mg/L	0.000343	0.00247	mg/L	0.000343	13.92%
Sb 206.836†	-0.1	-0.00059	mg/L	0.001501	-0.00059	mg/L	0.001501	255.59%
Tl 190.801†	0.8	0.00129	mg/L	0.001781	0.00129	mg/L	0.001781	138.17%
V 292.402†	31.8	0.00030	mg/L	0.000347	0.00030	mg/L	0.000347	114.44%

Ti 334.940†	-28.5	0.00022 mg/L	0.000029	0.00022 mg/L	0.000029	13.59%
Ca 227.546†	3706.4	20.190 mg/L	0.2675	20.190 mg/L	0.2675	1.33%

Sequence No.: 47

Sample ID: L1808-13A~LMW-3F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 128

Date Collected: 8/31/2012 12:00:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-13A~LMW-3F

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
Y 360.073	1679842.4	96.406	%	0.8788			0.91%
Lu 261.542	1087104.6	97.17	%	1.002			1.03%
Al 308.215†	507.5	0.02060	mg/L	0.002257	0.02060	mg/L	10.95%
Co 228.616†	20.6	0.00061	mg/L	0.000103	0.00061	mg/L	16.86%
Cr 267.716†	6563.7	0.09908	mg/L	0.001427	0.09908	mg/L	1.44%
Cu 324.752†	1393.6	0.00668	mg/L	0.000507	0.00668	mg/L	7.59%
Fe 273.955†	983.2	0.04346	mg/L	0.002247	0.04346	mg/L	5.17%
Mg 279.077†	81903.2	5.0143	mg/L	0.05812	5.0143	mg/L	1.16%
Mn 257.610†	2369.1	0.00430	mg/L	0.000070	0.00430	mg/L	1.62%
Ni 231.604†	95.3	0.00342	mg/L	0.000259	0.00342	mg/L	7.58%
Sb 206.836†	4.4	0.00175	mg/L	0.003675	0.00175	mg/L	210.41%
Tl 190.801†	1.1	0.00179	mg/L	0.003753	0.00179	mg/L	210.15%
V 292.402†	37.3	0.00055	mg/L	0.000410	0.00055	mg/L	74.76%
Ti 334.940†	362.0	0.00106	mg/L	0.000144	0.00106	mg/L	13.62%
Ca 227.546†	5150.7	28.057	mg/L	0.1985	28.057	mg/L	0.71%

Sequence No.: 48

Sample ID: L1808-14A~LMW-4F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 129

Date Collected: 8/31/2012 12:04:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-14A~LMW-4F

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
Y 360.073	1694876.8	97.269	%	1.7149			1.76%
Lu 261.542	1094566.1	97.84	%	1.825			1.87%
Al 308.215†	18502.2	0.95952	mg/L	0.024271	0.95952	mg/L	2.53%
Co 228.616†	38.6	0.00105	mg/L	0.000244	0.00105	mg/L	23.24%
Cr 267.716†	3673.1	0.05544	mg/L	0.001294	0.05544	mg/L	2.33%
Cu 324.752†	11689.8	0.05610	mg/L	0.001485	0.05610	mg/L	2.65%
Fe 273.955†	23644.3	1.0451	mg/L	0.02942	1.0451	mg/L	2.82%
Mg 279.077†	44791.3	2.7422	mg/L	0.06286	2.7422	mg/L	2.29%
Mn 257.610†	7571.0	0.01386	mg/L	0.000430	0.01386	mg/L	3.10%
Ni 231.604†	417.6	0.01504	mg/L	0.000120	0.01504	mg/L	0.80%
Sb 206.836†	6.4	0.00452	mg/L	0.002358	0.00452	mg/L	52.14%
Tl 190.801†	-0.6	-0.00080	mg/L	0.004108	-0.00080	mg/L	516.58%
V 292.402†	388.2	0.00347	mg/L	0.000475	0.00347	mg/L	13.70%
Ti 334.940†	17922.7	0.03456	mg/L	0.000664	0.03456	mg/L	1.92%
Ca 227.546†	3477.8	18.936	mg/L	0.3666	18.936	mg/L	1.94%

Sequence No.: 49

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 8/31/2012 12:08:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
Y 360.073	1688506.0	96.904	%	1.5443			1.59%
Lu 261.542	1094345.5	97.82	%	1.626			1.66%
Al 308.215†	176229.5	9.1671	mg/L	0.25736	9.1671	mg/L	2.81%

QC value within limits for Al 308.215 Recovery = 91.67%
 Co 228.616† 80734.6 2.4169 mg/L 0.06729 2.4169 mg/L 0.06729 2.78%
 QC value within limits for Co 228.616 Recovery = 96.67%
 Cr 267.716† 60975.0 0.92066 mg/L 0.027164 0.92066 mg/L 0.027164 2.95%
 QC value within limits for Cr 267.716 Recovery = 92.07%
 Cu 324.752† 237491.4 1.1388 mg/L 0.03335 1.1388 mg/L 0.03335 2.93%
 QC value within limits for Cu 324.752 Recovery = 91.11%
 Fe 273.955† 106945.4 4.7307 mg/L 0.13229 4.7307 mg/L 0.13229 2.80%
 QC value within limits for Fe 273.955 Recovery = 94.61%
 Mg 279.077† 385385.2 23.593 mg/L 0.7644 23.593 mg/L 0.7644 3.24%
 QC value within limits for Mg 279.077 Recovery = 94.37%
 Mn 257.610† 1296136.2 2.3771 mg/L 0.07297 2.3771 mg/L 0.07297 3.07%
 QC value within limits for Mn 257.610 Recovery = 95.08%
 Ni 231.604† 66117.8 2.3858 mg/L 0.06774 2.3858 mg/L 0.06774 2.84%
 QC value within limits for Ni 231.604 Recovery = 95.43%
 Sb 206.836† 572.7 0.50373 mg/L 0.012547 0.50373 mg/L 0.012547 2.49%
 QC value within limits for Sb 206.836 Recovery = 100.75%
 Tl 190.801† 297.9 0.43616 mg/L 0.006868 0.43616 mg/L 0.006868 1.57%
 QC value less than the lower limit for Tl 190.801 Recovery = 87.23%
 V 292.402† 267485.3 2.3253 mg/L 0.06455 2.3253 mg/L 0.06455 2.78%
 QC value within limits for V 292.402 Recovery = 93.01%
 Ti 334.940† 232644.7 0.44500 mg/L 0.013360 0.44500 mg/L 0.013360 3.00%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Ca 227.546† 4315.5 22.705 mg/L 0.5112 22.705 mg/L 0.5112 2.25%
 QC value within limits for Ca 227.546 Recovery = 90.82%
 QC Failed. Continue with analysis.

Sequence No.: 50

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 8/31/2012 12:11:33 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 360.073	1764959.5	101.29 %	1.293			1.28%
Lu 261.542	1136118.6	101.6 %	1.38			1.36%
Al 308.215†	-226.7	-0.01182 mg/L	0.007652	-0.01182 mg/L	0.007652	64.71%
QC value within limits for Al 308.215						
Co 228.616†	11.1	0.00033 mg/L	0.000086	0.00033 mg/L	0.000086	25.84%
QC value within limits for Co 228.616						
Cr 267.716†	9.0	0.00014 mg/L	0.000342	0.00014 mg/L	0.000342	251.63%
QC value within limits for Cr 267.716						
Cu 324.752†	41.1	0.00020 mg/L	0.000079	0.00020 mg/L	0.000079	39.98%
QC value within limits for Cu 324.752						
Fe 273.955†	48.3	0.00214 mg/L	0.000968	0.00214 mg/L	0.000968	45.31%
QC value within limits for Fe 273.955						
Mg 279.077†	17.2	0.00105 mg/L	0.003345	0.00105 mg/L	0.003345	317.79%
QC value within limits for Mg 279.077						
Mn 257.610†	96.5	0.00018 mg/L	0.000054	0.00018 mg/L	0.000054	30.66%
QC value within limits for Mn 257.610						
Ni 231.604†	7.9	0.00028 mg/L	0.000304	0.00028 mg/L	0.000304	107.05%
QC value within limits for Ni 231.604						
Sb 206.836†	1.4	0.00126 mg/L	0.003569	0.00126 mg/L	0.003569	282.97%
QC value within limits for Sb 206.836						
Tl 190.801†	0.9	0.00139 mg/L	0.001578	0.00139 mg/L	0.001578	113.85%
QC value within limits for Tl 190.801						
V 292.402†	70.8	0.00062 mg/L	0.000146	0.00062 mg/L	0.000146	23.72%
QC value within limits for V 292.402						
Ti 334.940†	88.5	0.00017 mg/L	0.000068	0.00017 mg/L	0.000068	39.72%
QC value within limits for Ti 334.940						
Ca 227.546†	16.8	0.09137 mg/L	0.051609	0.09137 mg/L	0.051609	56.49%
QC value within limits for Ca 227.546						

All analyte(s) passed QC.

Sequence No.: 51

Sample ID: L1808-15A-DMW-2F

Autosampler Location: 130

Date Collected: 8/31/2012 12:15:03 PM

Analyst:
Initial Sample Wt:
Dilution:

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

Mean Data: L1808-15A~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1724288.5	98.957	%	1.6248				1.64%
Lu 261.542	1118719.3	100.00	%	1.615				1.61%
Al 308.215†	142.7	0.00477	mg/L	0.003241	0.00477	mg/L	0.003241	67.94%
Co 228.616†	46.6	0.00137	mg/L	0.000159	0.00137	mg/L	0.000159	11.62%
Cr 267.716†	22.7	0.00032	mg/L	0.000296	0.00032	mg/L	0.000296	92.75%
Cu 324.752†	224.5	0.00117	mg/L	0.000709	0.00117	mg/L	0.000709	60.34%
Fe 273.955†	24264.1	1.0725	mg/L	0.02082	1.0725	mg/L	0.02082	1.94%
Mg 279.077†	29380.9	1.7989	mg/L	0.03597	1.7989	mg/L	0.03597	2.00%
Mn 257.610†	63434.6	0.11634	mg/L	0.002410	0.11634	mg/L	0.002410	2.07%
Ni 231.604†	22.8	0.00082	mg/L	0.000124	0.00082	mg/L	0.000124	15.17%
Sb 206.836†	1.6	0.00121	mg/L	0.005061	0.00121	mg/L	0.005061	417.67%
Tl 190.801†	-1.7	-0.00248	mg/L	0.002098	-0.00248	mg/L	0.002098	84.75%
V 292.402†	30.2	0.00030	mg/L	0.000515	0.00030	mg/L	0.000515	174.31%
Ti 334.940†	182.3	0.00052	mg/L	0.000088	0.00052	mg/L	0.000088	17.04%
Ca 227.546†	2216.4	12.065	mg/L	0.1973	12.065	mg/L	0.1973	1.64%

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Sequence No.: 52
Sample ID: L1808-15ADUP~DMW-2FD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 131
Date Collected: 8/31/2012 12:18:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-15ADUP~DMW-2FD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1713033.1	98.311	%	1.0597				1.08%
Lu 261.542	1108109.0	99.05	%	1.091				1.10%
Al 308.215†	176.8	0.00652	mg/L	0.003694	0.00652	mg/L	0.003694	56.62%
Co 228.616†	53.0	0.00156	mg/L	0.000122	0.00156	mg/L	0.000122	7.84%
Cr 267.716†	11.2	0.00015	mg/L	0.000130	0.00015	mg/L	0.000130	89.22%
Cu 324.752†	211.1	0.00111	mg/L	0.000515	0.00111	mg/L	0.000515	46.31%
Fe 273.955†	24385.5	1.0778	mg/L	0.02110	1.0778	mg/L	0.02110	1.96%
Mg 279.077†	29561.2	1.8099	mg/L	0.03249	1.8099	mg/L	0.03249	1.80%
Mn 257.610†	63616.4	0.11667	mg/L	0.002114	0.11667	mg/L	0.002114	1.81%
Ni 231.604†	22.4	0.00080	mg/L	0.000198	0.00080	mg/L	0.000198	24.65%
Sb 206.836†	1.7	0.00136	mg/L	0.003151	0.00136	mg/L	0.003151	232.24%
Tl 190.801†	-2.5	-0.00358	mg/L	0.001205	-0.00358	mg/L	0.001205	33.65%
V 292.402†	54.5	0.00051	mg/L	0.000328	0.00051	mg/L	0.000328	64.79%
Ti 334.940†	148.7	0.00046	mg/L	0.000077	0.00046	mg/L	0.000077	16.87%
Ca 227.546†	2236.1	12.172	mg/L	0.1757	12.172	mg/L	0.1757	1.44%

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Sequence No.: 53
Sample ID: L1808-15AMS~DMW-2FS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 132
Date Collected: 8/31/2012 12:22:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-15AMS~DMW-2FS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1717924.7	98.592	%	0.6260				0.63%
Lu 261.542	1113882.9	99.57	%	0.644				0.65%
Al 308.215†	169721.6	8.8269	mg/L	0.24865	8.8269	mg/L	0.24865	2.82%
Co 228.616†	74748.2	2.2386	mg/L	0.06232	2.2386	mg/L	0.06232	2.78%
Cr 267.716†	58384.6	0.88153	mg/L	0.025693	0.88153	mg/L	0.025693	2.91%
Cu 324.752†	222391.4	1.0665	mg/L	0.02929	1.0665	mg/L	0.02929	2.75%
Fe 273.955†	124252.5	5.4955	mg/L	0.15986	5.4955	mg/L	0.15986	2.91%
Mg 279.077†	387528.6	23.724	mg/L	0.4120	23.724	mg/L	0.4120	1.74%
Mn 257.610†	1263042.6	2.3164	mg/L	0.03842	2.3164	mg/L	0.03842	1.66%

Ni 231.604†	61643.6	2.2246 mg/L	0.06103	2.2246 mg/L	0.06103	2.74%
Sb 206.836†	519.2	0.45461 mg/L	0.002187	0.45461 mg/L	0.002187	0.48%
Tl 190.801†	284.9	0.41782 mg/L	0.009145	0.41782 mg/L	0.009145	2.19%
V 292.402†	251762.8	2.1892 mg/L	0.06099	2.1892 mg/L	0.06099	2.79%
Ti 334.940†	352.3	0.00062 mg/L	0.000109	0.00062 mg/L	0.000109	17.61%
Ca 227.546†	6285.4	33.488 mg/L	0.3706	33.488 mg/L	0.3706	1.11%

Sequence No.: 54

Sample ID: L1808-15ASD~DMW-2F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 133

Date Collected: 8/31/2012 12:25:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-15ASD~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1736924.0	99.682 %		1.5127				1.52%
Lu 261.542	1122199.1	100.3 %		1.59				1.58%
Al 308.215†	-131.3	-0.00736 mg/L		0.001139	-0.00736 mg/L		0.001139	15.49%
Co 228.616†	17.2	0.00051 mg/L		0.000103	0.00051 mg/L		0.000103	20.14%
Cr 267.716†	-3.6	-0.00006 mg/L		0.000437	-0.00006 mg/L		0.000437	742.75%
Cu 324.752†	141.8	0.00070 mg/L		0.000360	0.00070 mg/L		0.000360	51.45%
Fe 273.955†	4860.4	0.21483 mg/L		0.003767	0.21483 mg/L		0.003767	1.75%
Mg 279.077†	5809.4	0.35569 mg/L		0.001918	0.35569 mg/L		0.001918	0.54%
Mn 257.610†	12629.4	0.02316 mg/L		0.000225	0.02316 mg/L		0.000225	0.97%
Ni 231.604†	9.7	0.00035 mg/L		0.000661	0.00035 mg/L		0.000661	190.22%
Sb 206.836†	3.0	0.00270 mg/L		0.004754	0.00270 mg/L		0.004754	175.91%
Tl 190.801†	0.3	0.00047 mg/L		0.002954	0.00047 mg/L		0.002954	632.43%
V 292.402†	23.0	0.00021 mg/L		0.000317	0.00021 mg/L		0.000317	154.10%
Ti 334.940†	67.8	0.00016 mg/L		0.000037	0.00016 mg/L		0.000037	22.49%
Ca 227.546†	432.1	2.3518 mg/L		0.05610	2.3518 mg/L		0.05610	2.39%

Sequence No.: 55

Sample ID: L1808-15APDS~DMW-2F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 134

Date Collected: 8/31/2012 12:29:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-15APDS~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1643165.9	94.302 %		1.1215				1.19%
Lu 261.542	1064636.3	95.16 %		1.141				1.20%
Al 308.215†	177838.1	9.2490 mg/L		0.19133	9.2490 mg/L		0.19133	2.07%
Co 228.616†	78495.0	2.3508 mg/L		0.04814	2.3508 mg/L		0.04814	2.05%
Cr 267.716†	61200.4	0.92404 mg/L		0.018251	0.92404 mg/L		0.018251	1.98%
Cu 324.752†	233380.8	1.1192 mg/L		0.02205	1.1192 mg/L		0.02205	1.97%
Fe 273.955†	129806.7	5.7412 mg/L		0.12140	5.7412 mg/L		0.12140	2.11%
Mg 279.077†	407270.1	24.933 mg/L		0.1884	24.933 mg/L		0.1884	0.76%
Mn 257.610†	1338320.6	2.4544 mg/L		0.02169	2.4544 mg/L		0.02169	0.88%
Ni 231.604†	64724.6	2.3357 mg/L		0.04700	2.3357 mg/L		0.04700	2.01%
Sb 206.836†	496.7	0.43349 mg/L		0.008431	0.43349 mg/L		0.008431	1.94%
Tl 190.801†	289.8	0.42422 mg/L		0.002377	0.42422 mg/L		0.002377	0.56%
V 292.402†	265024.0	2.3046 mg/L		0.04570	2.3046 mg/L		0.04570	1.98%
Ti 334.940†	397.6	0.00070 mg/L		0.000071	0.00070 mg/L		0.000071	10.10%
Ca 227.546†	6532.3	34.795 mg/L		0.3684	34.795 mg/L		0.3684	1.06%

Sequence No.: 56

Sample ID: L1808-16A~DMW-52F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 135

Date Collected: 8/31/2012 12:32:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-16A~DMW-52F

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1703112.5	97.742 %	1.3557			1.39%
Lu 261.542	1103145.0	98.61 %	1.462			1.48%
Al 308.215†	191.0	0.00730 mg/L	0.005630	0.00730 mg/L	0.005630	77.07%
Co 228.616†	49.6	0.00146 mg/L	0.000079	0.00146 mg/L	0.000079	5.42%
Cr 267.716†	27.8	0.00040 mg/L	0.000482	0.00040 mg/L	0.000482	121.89%
Cu 324.752†	297.5	0.00152 mg/L	0.000508	0.00152 mg/L	0.000508	33.52%
Fe 273.955†	22360.4	0.98832 mg/L	0.031091	0.98832 mg/L	0.031091	3.15%
Mg 279.077†	28974.3	1.7740 mg/L	0.05244	1.7740 mg/L	0.05244	2.96%
Mn 257.610†	62933.6	0.11542 mg/L	0.003250	0.11542 mg/L	0.003250	2.82%
Ni 231.604†	30.2	0.00108 mg/L	0.000285	0.00108 mg/L	0.000285	26.28%
Sb 206.836†	8.1	0.00712 mg/L	0.005241	0.00712 mg/L	0.005241	73.57%
Tl 190.801†	-1.9	-0.00269 mg/L	0.002601	-0.00269 mg/L	0.002601	96.81%
V 292.402†	62.3	0.00057 mg/L	0.000088	0.00057 mg/L	0.000088	15.42%
Ti 334.940†	138.9	0.00043 mg/L	0.000040	0.00043 mg/L	0.000040	9.30%
Ca 227.546†	2200.9	11.981 mg/L	0.1757	11.981 mg/L	0.1757	1.47%

Sequence No.: 57

Sample ID: L1808-17A-DMW-3F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 136

Date Collected: 8/31/2012 12:36:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-17A-DMW-3F

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1719977.4	98.710 %		0.6928			0.70%
Lu 261.542	1114570.3	99.63 %		0.750			0.75%
Al 308.215†	53.7	0.00065 mg/L		0.001677	0.00065 mg/L	0.001677	259.73%
Co 228.616†	5.5	0.00016 mg/L		0.000180	0.00016 mg/L	0.000180	109.14%
Cr 267.716†	25.0	0.00038 mg/L		0.000036	0.00038 mg/L	0.000036	9.54%
Cu 324.752†	179.3	0.00086 mg/L		0.000620	0.00086 mg/L	0.000620	72.11%
Fe 273.955†	242.5	0.01072 mg/L		0.000249	0.01072 mg/L	0.000249	2.32%
Mg 279.077†	33743.1	2.0659 mg/L		0.01925	2.0659 mg/L	0.01925	0.93%
Mn 257.610†	1347.6	0.00245 mg/L		0.000026	0.00245 mg/L	0.000026	1.07%
Ni 231.604†	7.2	0.00025 mg/L		0.000362	0.00025 mg/L	0.000362	143.36%
Sb 206.836†	4.2	0.00367 mg/L		0.005144	0.00367 mg/L	0.005144	140.06%
Tl 190.801†	-0.6	-0.00094 mg/L		0.001210	-0.00094 mg/L	0.001210	129.06%
V 292.402†	41.8	0.00036 mg/L		0.000385	0.00036 mg/L	0.000385	105.73%
Ti 334.940†	-6.0	0.00012 mg/L		0.000030	0.00012 mg/L	0.000030	24.32%
Ca 227.546†	1888.3	10.286 mg/L		0.0384	10.286 mg/L	0.0384	0.37%

Sequence No.: 58

Sample ID: L1808-18A-DMW-9BF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 137

Date Collected: 8/31/2012 12:39:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-18A-DMW-9BF

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	1689444.3	96.957 %		0.4510			0.47%
Lu 261.542	1094409.0	97.83 %		0.407			0.42%
Al 308.215†	-31.0	-0.00335 mg/L		0.002815	-0.00335 mg/L	0.002815	83.91%
Co 228.616†	9.0	0.00027 mg/L		0.000172	0.00027 mg/L	0.000172	64.15%
Cr 267.716†	35.4	0.00053 mg/L		0.000237	0.00053 mg/L	0.000237	44.49%
Cu 324.752†	324.7	0.00156 mg/L		0.000463	0.00156 mg/L	0.000463	29.79%
Fe 273.955†	68.7	0.00304 mg/L		0.000354	0.00304 mg/L	0.000354	11.68%
Mg 279.077†	24213.6	1.4825 mg/L		0.01233	1.4825 mg/L	0.01233	0.83%
Mn 257.610†	1380.3	0.00252 mg/L		0.000072	0.00252 mg/L	0.000072	2.85%
Ni 231.604†	9.2	0.00033 mg/L		0.000125	0.00033 mg/L	0.000125	38.19%
Sb 206.836†	3.6	0.00311 mg/L		0.003365	0.00311 mg/L	0.003365	108.26%
Tl 190.801†	-1.0	-0.00147 mg/L		0.002290	-0.00147 mg/L	0.002290	155.69%
V 292.402†	36.5	0.00032 mg/L		0.000179	0.00032 mg/L	0.000179	56.26%
Ti 334.940†	-17.6	0.00008 mg/L		0.000093	0.00008 mg/L	0.000093	116.30%
Ca 227.546†	1539.1	8.3842 mg/L		0.03725	8.3842 mg/L	0.03725	0.44%

Sequence No.: 59
 Sample ID: L1808-19A-DMW-9F
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 138
 Date Collected: 8/31/2012 12:43:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: L1808-19A-DMW-9F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1727252.4	99.127	%	1.4234				1.44%
Lu 261.542	1120193.0	100.1	%	1.50				1.50%
Al 308.215†	-22.1	-0.00391	mg/L	0.005920	-0.00391	mg/L	0.005920	151.58%
Co 228.616†	12.0	0.00036	mg/L	0.000066	0.00036	mg/L	0.000066	18.25%
Cr 267.716†	240.3	0.00363	mg/L	0.000243	0.00363	mg/L	0.000243	6.70%
Cu 324.752†	425.7	0.00204	mg/L	0.000553	0.00204	mg/L	0.000553	27.11%
Fe 273.955†	488.7	0.02160	mg/L	0.000614	0.02160	mg/L	0.000614	2.84%
Mg 279.077†	50261.4	3.0773	mg/L	0.06580	3.0773	mg/L	0.06580	2.14%
Mn 257.610†	670.5	0.00120	mg/L	0.000068	0.00120	mg/L	0.000068	5.65%
Ni 231.604†	49.1	0.00176	mg/L	0.000329	0.00176	mg/L	0.000329	18.72%
Sb 206.836†	4.2	0.00355	mg/L	0.003024	0.00355	mg/L	0.003024	85.09%
Tl 190.801†	-0.2	-0.00026	mg/L	0.002435	-0.00026	mg/L	0.002435	927.80%
V 292.402†	26.6	0.00024	mg/L	0.000301	0.00024	mg/L	0.000301	125.60%
Ti 334.940†	-59.0	0.00005	mg/L	0.000122	0.00005	mg/L	0.000122	249.08%
Ca 227.546†	2390.7	13.023	mg/L	0.2141	13.023	mg/L	0.2141	1.64%

Sequence No.: 60
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 8/31/2012 12:47:01 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1676419.0	96.210	%	0.5990				0.62%
Lu 261.542	1087791.0	97.23	%	0.687				0.71%
Al 308.215†	179477.1	9.3360	mg/L	0.12640	9.3360	mg/L	0.12640	1.35%
QC value within limits for Al 308.215 Recovery = 93.36%								
Co 228.616†	82501.2	2.4698	mg/L	0.03142	2.4698	mg/L	0.03142	1.27%
QC value within limits for Co 228.616 Recovery = 98.79%								
Cr 267.716†	62125.5	0.93803	mg/L	0.014779	0.93803	mg/L	0.014779	1.58%
QC value within limits for Cr 267.716 Recovery = 93.80%								
Cu 324.752†	240372.2	1.1526	mg/L	0.01627	1.1526	mg/L	0.01627	1.41%
QC value within limits for Cu 324.752 Recovery = 92.21%								
Fe 273.955†	109227.1	4.8317	mg/L	0.06356	4.8317	mg/L	0.06356	1.32%
QC value within limits for Fe 273.955 Recovery = 96.63%								
Mg 279.077†	395351.0	24.203	mg/L	0.3176	24.203	mg/L	0.3176	1.31%
QC value within limits for Mg 279.077 Recovery = 96.81%								
Mn 257.610†	1326280.5	2.4323	mg/L	0.02915	2.4323	mg/L	0.02915	1.20%
QC value within limits for Mn 257.610 Recovery = 97.29%								
Ni 231.604†	67469.1	2.4345	mg/L	0.03663	2.4345	mg/L	0.03663	1.50%
QC value within limits for Ni 231.604 Recovery = 97.38%								
Sb 206.836†	577.4	0.50762	mg/L	0.009790	0.50762	mg/L	0.009790	1.93%
QC value within limits for Sb 206.836 Recovery = 101.52%								
Tl 190.801†	301.7	0.44160	mg/L	0.001002	0.44160	mg/L	0.001002	0.23%
QC value less than the lower limit for Tl 190.801 Recovery = 88.32%								
V 292.402†	271892.4	2.3636	mg/L	0.03402	2.3636	mg/L	0.03402	1.44%
QC value within limits for V 292.402 Recovery = 94.54%								
Ti 334.940†	235543.8	0.45054	mg/L	0.007198	0.45054	mg/L	0.007198	1.60%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4352.2	22.888	mg/L	0.1965	22.888	mg/L	0.1965	0.86%
QC value within limits for Ca 227.546 Recovery = 91.55%								
QC Failed. Continue with analysis.								

Sequence No.: 61
 Sample ID: CCB

Autosampler Location: 4
 Date Collected: 8/31/2012 12:50:32 PM

Analyst:
Initial Sample Wt:
Dilution:

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

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1737662.0	99.725 %		1.0773				1.08%
Lu 261.542	1119319.7	100.1 %		1.06				1.06%
Al 308.215†	-182.5	-0.00951 mg/L		0.003163	-0.00951 mg/L		0.003163	33.28%
QC value within limits for Al 308.215 Recovery = Not calculated								
Co 228.616†	9.6	0.00029 mg/L		0.000189	0.00029 mg/L		0.000189	65.84%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	5.5	0.00008 mg/L		0.000171	0.00008 mg/L		0.000171	203.82%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	86.6	0.00042 mg/L		0.000343	0.00042 mg/L		0.000343	82.52%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	34.2	0.00151 mg/L		0.000958	0.00151 mg/L		0.000958	63.38%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	73.5	0.00450 mg/L		0.003395	0.00450 mg/L		0.003395	75.41%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	58.0	0.00011 mg/L		0.000014	0.00011 mg/L		0.000014	13.29%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	3.2	0.00011 mg/L		0.000397	0.00011 mg/L		0.000397	347.37%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Sb 206.836†	4.7	0.00429 mg/L		0.002910	0.00429 mg/L		0.002910	67.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Tl 190.801†	1.1	0.00170 mg/L		0.001652	0.00170 mg/L		0.001652	97.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	23.2	0.00020 mg/L		0.000133	0.00020 mg/L		0.000133	66.11%
QC value within limits for V 292.402 Recovery = Not calculated								
Ti 334.940†	112.3	0.00021 mg/L		0.000064	0.00021 mg/L		0.000064	29.96%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	1.5	0.00780 mg/L		0.011468	0.00780 mg/L		0.011468	146.95%
QC value within limits for Ca 227.546 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 62
Sample ID: L1808-20A~DMW-15BF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 139
Date Collected: 8/31/2012 12:54:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-20A~DMW-15BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1704923.4	97.846 %		0.2259				0.23%
Lu 261.542	1107248.7	98.97 %		0.269				0.27%
Al 308.215†	-1.3	-0.00287 mg/L		0.002260	-0.00287 mg/L		0.002260	78.71%
Co 228.616†	49.6	0.00149 mg/L		0.000230	0.00149 mg/L		0.000230	15.46%
Cr 267.716†	6.2	0.00006 mg/L		0.000377	0.00006 mg/L		0.000377	656.59%
Cu 324.752†	7257.8	0.03477 mg/L		0.000486	0.03477 mg/L		0.000486	1.40%
Fe 273.955†	1159.2	0.05123 mg/L		0.002114	0.05123 mg/L		0.002114	4.13%
Mg 279.077†	73005.3	4.4698 mg/L		0.03501	4.4698 mg/L		0.03501	0.78%
Mn 257.610†	95697.1	0.17548 mg/L		0.001277	0.17548 mg/L		0.001277	0.73%
Ni 231.604†	57.0	0.00204 mg/L		0.000245	0.00204 mg/L		0.000245	12.02%
Sb 206.836†	5.9	0.00508 mg/L		0.001994	0.00508 mg/L		0.001994	39.23%
Tl 190.801†	-0.3	-0.00027 mg/L		0.001971	-0.00027 mg/L		0.001971	743.69%
V 292.402†	5.0	0.00003 mg/L		0.000543	0.00003 mg/L		0.000543	>999.9%
Ti 334.940†	-49.4	0.00002 mg/L		0.000030	0.00002 mg/L		0.000030	192.64%
Ca 227.546†	2094.6	11.407 mg/L		0.0704	11.407 mg/L		0.0704	0.62%

Sequence No.: 63
Sample ID: L1808-21A~DMW-15AF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 140
Date Collected: 8/31/2012 12:57:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1808-21A-DMW-15AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1713117.5	98.316	%	0.0987				0.10%
Lu 261.542	1110175.8	99.24	%	0.170				0.17%
Al 308.215†	-93.7	-0.00766	mg/L	0.003620	-0.00766	mg/L	0.003620	47.28%
Co 228.616†	16.7	0.00050	mg/L	0.000103	0.00050	mg/L	0.000103	20.46%
Cr 267.716†	66.0	0.00099	mg/L	0.000294	0.00099	mg/L	0.000294	29.73%
Cu 324.752†	203.5	0.00098	mg/L	0.000394	0.00098	mg/L	0.000394	40.40%
Fe 273.955†	184.8	0.00817	mg/L	0.000712	0.00817	mg/L	0.000712	8.72%
Mg 279.077†	39292.8	2.4057	mg/L	0.01204	2.4057	mg/L	0.01204	0.50%
Mn 257.610†	22274.3	0.04083	mg/L	0.000172	0.04083	mg/L	0.000172	0.42%
Ni 231.604†	13.4	0.00047	mg/L	0.000470	0.00047	mg/L	0.000470	99.25%
Sb 206.836†	1.8	0.00139	mg/L	0.003971	0.00139	mg/L	0.003971	284.74%
Tl 190.801†	2.0	0.00313	mg/L	0.005309	0.00313	mg/L	0.005309	169.81%
V 292.402†	39.1	0.00034	mg/L	0.000312	0.00034	mg/L	0.000312	91.13%
Ti 334.940†	-109.3	-0.00003	mg/L	0.000047	-0.00003	mg/L	0.000047	137.52%
Ca 227.546†	2398.4	13.065	mg/L	0.0598	13.065	mg/L	0.0598	0.46%

Sequence No.: 64

Sample ID: L1808-22A-DMW-23BF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 141

Date Collected: 8/31/2012 1:01:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-22A-DMW-23BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1729616.8	99.263	%	1.6937				1.71%
Lu 261.542	1119606.3	100.1	%	1.73				1.73%
Al 308.215†	29.4	-0.00225	mg/L	0.005155	-0.00225	mg/L	0.005155	229.61%
Co 228.616†	23.0	0.00069	mg/L	0.000015	0.00069	mg/L	0.000015	2.19%
Cr 267.716†	526.8	0.00792	mg/L	0.000266	0.00792	mg/L	0.000266	3.36%
Cu 324.752†	257.8	0.00125	mg/L	0.000712	0.00125	mg/L	0.000712	57.20%
Fe 273.955†	2595.0	0.11470	mg/L	0.000782	0.11470	mg/L	0.000782	0.68%
Mg 279.077†	46164.5	2.8264	mg/L	0.02830	2.8264	mg/L	0.02830	1.00%
Mn 257.610†	71911.6	0.13187	mg/L	0.001245	0.13187	mg/L	0.001245	0.94%
Ni 231.604†	27.0	0.00096	mg/L	0.000177	0.00096	mg/L	0.000177	18.37%
Sb 206.836†	-1.4	-0.00162	mg/L	0.002467	-0.00162	mg/L	0.002467	151.87%
Tl 190.801†	-0.4	-0.00052	mg/L	0.002695	-0.00052	mg/L	0.002695	522.11%
V 292.402†	37.4	0.00035	mg/L	0.000078	0.00035	mg/L	0.000078	22.57%
Ti 334.940†	-87.7	0.00007	mg/L	0.000071	0.00007	mg/L	0.000071	101.76%
Ca 227.546†	3180.3	17.323	mg/L	0.3990	17.323	mg/L	0.3990	2.30%

Sequence No.: 65

Sample ID: L1808-23A-DMW-13BF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 142

Date Collected: 8/31/2012 1:04:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-23A-DMW-13BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1736447.4	99.655	%	0.6851				0.69%
Lu 261.542	1122874.9	100.4	%	0.74				0.74%
Al 308.215†	-97.3	-0.00721	mg/L	0.003885	-0.00721	mg/L	0.003885	53.86%
Co 228.616†	11.7	0.00035	mg/L	0.000164	0.00035	mg/L	0.000164	46.95%
Cr 267.716†	1377.6	0.02079	mg/L	0.000576	0.02079	mg/L	0.000576	2.77%
Cu 324.752†	190.9	0.00092	mg/L	0.000593	0.00092	mg/L	0.000593	64.81%
Fe 273.955†	199.4	0.00881	mg/L	0.000331	0.00881	mg/L	0.000331	3.76%
Mg 279.077†	24523.8	1.5014	mg/L	0.01614	1.5014	mg/L	0.01614	1.08%
Mn 257.610†	10533.6	0.01931	mg/L	0.000179	0.01931	mg/L	0.000179	0.93%
Ni 231.604†	6.2	0.00022	mg/L	0.000093	0.00022	mg/L	0.000093	43.08%
Sb 206.836†	3.7	0.00287	mg/L	0.001561	0.00287	mg/L	0.001561	54.34%
Tl 190.801†	0.5	0.00089	mg/L	0.003186	0.00089	mg/L	0.003186	359.75%

V 292.402†	22.0	0.00024 mg/L	0.000101	0.00024 mg/L	0.000101	42.38%
Ti 334.940†	-85.9	-0.00002 mg/L	0.000056	-0.00002 mg/L	0.000056	254.74%
Ca 227.546†	1893.3	10.314 mg/L	0.0733	10.314 mg/L	0.0733	0.71%

Sequence No.: 66

Sample ID: L1808-24A-DMW-23AF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 143

Date Collected: 8/31/2012 1:08:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-24A-DMW-23AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1682135.9	96.538	%	0.7815				0.81%
Lu 261.542	1092403.0	97.65	%	0.700				0.72%
Al 308.215†	391.7	0.01363	mg/L	0.003219	0.01363	mg/L	0.003219	23.62%
Co 228.616†	16.3	0.00048	mg/L	0.000213	0.00048	mg/L	0.000213	44.81%
Cr 267.716†	136.6	0.00183	mg/L	0.000408	0.00183	mg/L	0.000408	22.26%
Cu 324.752†	428.9	0.00211	mg/L	0.000537	0.00211	mg/L	0.000537	25.49%
Fe 273.955†	12597.9	0.55682	mg/L	0.019945	0.55682	mg/L	0.019945	3.58%
Mg 279.077†	72315.8	4.4276	mg/L	0.17458	4.4276	mg/L	0.17458	3.94%
Mn 257.610†	609010.0	1.1170	mg/L	0.00531	1.1170	mg/L	0.00531	0.48%
Ni 231.604†	33.0	0.00117	mg/L	0.000065	0.00117	mg/L	0.000065	5.58%
Sb 206.836†	-0.3	-0.00071	mg/L	0.006058	-0.00071	mg/L	0.006058	854.06%
Tl 190.801†	0.7	0.00159	mg/L	0.002953	0.00159	mg/L	0.002953	185.72%
V 292.402†	52.6	0.00048	mg/L	0.000268	0.00048	mg/L	0.000268	56.09%
Ti 334.940†	-69.4	0.00019	mg/L	0.000112	0.00019	mg/L	0.000112	57.88%
Ca 227.546†	4460.3	24.289	mg/L	0.3162	24.289	mg/L	0.3162	1.30%

Sequence No.: 67

Sample ID: L1808-25A-DMW-13AF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 144

Date Collected: 8/31/2012 1:11:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-25A-DMW-13AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1671004.5	95.899	%	1.1373				1.19%
Lu 261.542	1084560.1	96.95	%	1.045				1.08%
Al 308.215†	375.2	0.01258	mg/L	0.002385	0.01258	mg/L	0.002385	18.95%
Co 228.616†	528.1	0.01578	mg/L	0.000195	0.01578	mg/L	0.000195	1.23%
Cr 267.716†	173.5	0.00191	mg/L	0.000315	0.00191	mg/L	0.000315	16.46%
Cu 324.752†	701.8	0.00351	mg/L	0.000263	0.00351	mg/L	0.000263	7.48%
Fe 273.955†	35877.3	1.5858	mg/L	0.02950	1.5858	mg/L	0.02950	1.86%
Mg 279.077†	15735.0	0.96337	mg/L	0.018739	0.96337	mg/L	0.018739	1.95%
Mn 257.610†	1888682.9	3.4643	mg/L	0.01974	3.4643	mg/L	0.01974	0.57%
Ni 231.604†	61.8	0.00222	mg/L	0.000089	0.00222	mg/L	0.000089	3.99%
Sb 206.836†	3.7	0.00313	mg/L	0.002817	0.00313	mg/L	0.002817	89.95%
Tl 190.801†	1.3	0.00326	mg/L	0.004671	0.00326	mg/L	0.004671	143.09%
V 292.402†	-58.2	-0.00045	mg/L	0.000509	-0.00045	mg/L	0.000509	112.52%
Ti 334.940†	196.9	0.00049	mg/L	0.000068	0.00049	mg/L	0.000068	13.86%
Ca 227.546†	1459.1	7.9187	mg/L	0.08754	7.9187	mg/L	0.08754	1.11%

Sequence No.: 68

Sample ID: L1808-26A-DMW-22BF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 145

Date Collected: 8/31/2012 1:15:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-26A-DMW-22BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1704832.5	97.841	%	1.7058				1.74%
Lu 261.542	1103773.2	98.66	%	1.780				1.80%

Al 308.215†	-120.0	-0.01173 mg/L	0.006432	-0.01173 mg/L	0.006432	54.82%
Co 228.616†	18.4	0.00055 mg/L	0.000079	0.00055 mg/L	0.000079	14.30%
Cr 267.716†	49.1	0.00060 mg/L	0.000845	0.00060 mg/L	0.000845	140.91%
Cu 324.752†	197.5	0.00095 mg/L	0.000209	0.00095 mg/L	0.000209	22.12%
Fe 273.955†	139.7	0.00618 mg/L	0.000535	0.00618 mg/L	0.000535	8.67%
Mg 279.077†	61880.0	3.7886 mg/L	0.07739	3.7886 mg/L	0.07739	2.04%
Mn 257.610†	376494.6	0.69054 mg/L	0.016978	0.69054 mg/L	0.016978	2.46%
Ni 231.604†	7.9	0.00027 mg/L	0.000379	0.00027 mg/L	0.000379	141.32%
Sb 206.836†	1.7	0.00124 mg/L	0.003853	0.00124 mg/L	0.003853	309.95%
Tl 190.801†	0.1	0.00054 mg/L	0.002834	0.00054 mg/L	0.002834	520.08%
V 292.402†	22.6	0.00020 mg/L	0.000241	0.00020 mg/L	0.000241	120.97%
Ti 334.940†	-227.4	-0.00015 mg/L	0.000029	-0.00015 mg/L	0.000029	19.88%
Ca 227.546†	3916.3	21.331 mg/L	0.4077	21.331 mg/L	0.4077	1.91%

Sequence No.: 69

Sample ID: L1808-27A~DMW-22AF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 146

Date Collected: 8/31/2012 1:18:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-27A~DMW-22AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1644781.4	94.394 %		1.3569				1.44%
Lu 261.542	1066783.3	95.36 %		1.479				1.55%
Al 308.215†	112.4	-0.00061 mg/L		0.002032	-0.00061 mg/L		0.002032	334.97%
Co 228.616†	26.2	0.00072 mg/L		0.000161	0.00072 mg/L		0.000161	22.28%
Cr 267.716†	126.2	0.00181 mg/L		0.000491	0.00181 mg/L		0.000491	27.08%
Cu 324.752†	292.5	0.00165 mg/L		0.000199	0.00165 mg/L		0.000199	12.10%
Fe 273.955†	60655.8	2.6810 mg/L		0.02702	2.6810 mg/L		0.02702	1.01%
Mg 279.077†	68346.9	4.1846 mg/L		0.03761	4.1846 mg/L		0.03761	0.90%
Mn 257.610†	242225.8	0.44425 mg/L		0.001527	0.44425 mg/L		0.001527	0.34%
Ni 231.604†	4.9	0.00016 mg/L		0.000373	0.00016 mg/L		0.000373	235.95%
Sb 206.836†	1.1	0.00048 mg/L		0.002710	0.00048 mg/L		0.002710	562.89%
Tl 190.801†	-0.4	0.00000 mg/L		0.004892	0.00000 mg/L		0.004892	>999.9%
V 292.402†	2.8	0.00011 mg/L		0.000432	0.00011 mg/L		0.000432	389.38%
Ti 334.940†	-187.6	0.00004 mg/L		0.000062	0.00004 mg/L		0.000062	171.16%
Ca 227.546†	5165.1	28.115 mg/L		0.3176	28.115 mg/L		0.3176	1.13%

Sequence No.: 70

Sample ID: L1808-28A~DMW-18F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 147

Date Collected: 8/31/2012 1:22:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: L1808-28A~DMW-18F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1678368.7	96.322 %		1.7118				1.78%
Lu 261.542	1086397.6	97.11 %		1.777				1.83%
Al 308.215†	-57.0	-0.00586 mg/L		0.004324	-0.00586 mg/L		0.004324	73.75%
Co 228.616†	3.0	0.00009 mg/L		0.000221	0.00009 mg/L		0.000221	246.57%
Cr 267.716†	18.0	0.00027 mg/L		0.000111	0.00027 mg/L		0.000111	41.40%
Cu 324.752†	346.1	0.00166 mg/L		0.000360	0.00166 mg/L		0.000360	21.68%
Fe 273.955†	853.2	0.03771 mg/L		0.001319	0.03771 mg/L		0.001319	3.50%
Mg 279.077†	37622.1	2.3034 mg/L		0.04231	2.3034 mg/L		0.04231	1.84%
Mn 257.610†	12502.7	0.02291 mg/L		0.000522	0.02291 mg/L		0.000522	2.28%
Ni 231.604†	9.3	0.00033 mg/L		0.000296	0.00033 mg/L		0.000296	90.79%
Sb 206.836†	4.8	0.00418 mg/L		0.002056	0.00418 mg/L		0.002056	49.18%
Tl 190.801†	-0.0	0.00004 mg/L		0.002049	0.00004 mg/L		0.002049	>999.9%
V 292.402†	20.9	0.00018 mg/L		0.000226	0.00018 mg/L		0.000226	123.80%
Ti 334.940†	-54.0	0.00009 mg/L		0.000089	0.00009 mg/L		0.000089	101.90%
Ca 227.546†	2542.5	13.850 mg/L		0.3457	13.850 mg/L		0.3457	2.50%

Sequence No.: 71

Sample ID: CCV

Autosampler Location: 3

Date Collected: 8/31/2012 1:26:00 PM

Analyst:
Initial Sample Wt:
Dilution:

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 360.073	1684069.7	96.649 %	1.3456			1.39%
Lu 261.542	1091843.4	97.60 %	1.432			1.47%
Al 308.215†	176094.2	9.1601 mg/L	0.24570	9.1601 mg/L	0.24570	2.68%
QC value within limits for Al 308.215		Recovery = 91.60%				
Co 228.616†	80665.9	2.4148 mg/L	0.06214	2.4148 mg/L	0.06214	2.57%
QC value within limits for Co 228.616		Recovery = 96.59%				
Cr 267.716†	61008.5	0.92116 mg/L	0.023946	0.92116 mg/L	0.023946	2.60%
QC value within limits for Cr 267.716		Recovery = 92.12%				
Cu 324.752†	236942.1	1.1362 mg/L	0.03214	1.1362 mg/L	0.03214	2.83%
QC value within limits for Cu 324.752		Recovery = 90.89%				
Fe 273.955†	106862.7	4.7271 mg/L	0.12329	4.7271 mg/L	0.12329	2.61%
QC value within limits for Fe 273.955		Recovery = 94.54%				
Mg 279.077†	385528.7	23.602 mg/L	0.8179	23.602 mg/L	0.8179	3.47%
QC value within limits for Mg 279.077		Recovery = 94.41%				
Mn 257.610†	1297154.5	2.3789 mg/L	0.08118	2.3789 mg/L	0.08118	3.41%
QC value within limits for Mn 257.610		Recovery = 95.16%				
Ni 231.604†	65953.7	2.3798 mg/L	0.05831	2.3798 mg/L	0.05831	2.45%
QC value within limits for Ni 231.604		Recovery = 95.19%				
Sb 206.836†	563.1	0.49496 mg/L	0.010763	0.49496 mg/L	0.010763	2.17%
QC value within limits for Sb 206.836		Recovery = 98.99%				
Tl 190.801†	294.8	0.43137 mg/L	0.009675	0.43137 mg/L	0.009675	2.24%
QC value less than the lower limit for Tl 190.801		Recovery = 86.27%				
V 292.402†	267471.8	2.3252 mg/L	0.05880	2.3252 mg/L	0.05880	2.53%
QC value within limits for V 292.402		Recovery = 93.01%				
Ti 334.940†	231755.2	0.44330 mg/L	0.011791	0.44330 mg/L	0.011791	2.66%
QC value within limits for Ti 334.940		Recovery = Not calculated				
Ca 227.546†	4285.7	22.543 mg/L	0.4014	22.543 mg/L	0.4014	1.78%
QC value within limits for Ca 227.546		Recovery = 90.17%				
QC Failed. Continue with analysis.						

=====

Sequence No.: 72
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/31/2012 1:29:31 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 360.073	1696156.9	97.343 %	0.6470			0.66%
Lu 261.542	1092462.2	97.65 %	0.737			0.75%
Al 308.215†	-91.3	-0.00477 mg/L	0.001362	-0.00477 mg/L	0.001362	28.58%
QC value within limits for Al 308.215		Recovery = Not calculated				
Co 228.616†	12.9	0.00039 mg/L	0.000088	0.00039 mg/L	0.000088	22.82%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	0.3	0.00000 mg/L	0.000222	0.00000 mg/L	0.000222	>999.9%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	141.1	0.00068 mg/L	0.000249	0.00068 mg/L	0.000249	36.86%
QC value within limits for Cu 324.752		Recovery = Not calculated				
Fe 273.955†	31.7	0.00140 mg/L	0.000441	0.00140 mg/L	0.000441	31.52%
QC value within limits for Fe 273.955		Recovery = Not calculated				
Mg 279.077†	38.8	0.00238 mg/L	0.002417	0.00238 mg/L	0.002417	101.65%
QC value within limits for Mg 279.077		Recovery = Not calculated				
Mn 257.610†	73.0	0.00013 mg/L	0.000051	0.00013 mg/L	0.000051	37.93%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Ni 231.604†	3.0	0.00011 mg/L	0.000248	0.00011 mg/L	0.000248	230.54%
QC value within limits for Ni 231.604		Recovery = Not calculated				
Sb 206.836†	3.1	0.00280 mg/L	0.001435	0.00280 mg/L	0.001435	51.18%
QC value within limits for Sb 206.836		Recovery = Not calculated				
Tl 190.801†	-2.3	-0.00356 mg/L	0.001862	-0.00356 mg/L	0.001862	52.27%
QC value within limits for Tl 190.801		Recovery = Not calculated				

V 292.402†	-12.7	-0.00011 mg/L	0.000434	-0.00011 mg/L	0.000434	390.39%
QC value within limits for V 292.402 Recovery = Not calculated						
Ti 334.940†	140.7	0.00027 mg/L	0.000108	0.00027 mg/L	0.000108	39.80%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	10.6	0.05779 mg/L	0.023088	0.05779 mg/L	0.023088	39.95%
QC value within limits for Ca 227.546 Recovery = Not calculated						

All analyte(s) passed QC.

=====
Analysis BegunLogged In Analyst: mitFIMS2
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: AS-90Sample Information File: C:\data-AA\mitFIMS2\Sample Information\0830A.sif
Batch ID: Null
Results Data Set: HG12083002
Results Library: C:\data-AA\mitFIMS2\Results\Results.mdb=====
Sequence No.: 1
Sample ID: S0
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 8/30/2012 9:57:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:-----
Replicate Data: S0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0006	0.0055	0.0006	09:58:53	Yes
2		[0.00]	0.0004	0.0011	0.0004	09:59:32	Yes
Mean:		[0.00]	0.0005				
SD:		0.00	0.0001				
%RSD:		0.00	18.58				

Auto-zero performed.

=====
Sequence No.: 2
Sample ID: S0.20
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 8/30/2012 9:59:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:-----
Replicate Data: S0.20

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0024	0.0144	0.0029	10:00:32	Yes
2		[0.2]	0.0023	0.0146	0.0028	10:01:12	Yes
Mean:		[0.2]	0.0024				
SD:		0.0	0.0000				
%RSD:		0.0	1.85				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01183 Intercept: 0.00000

=====
Sequence No.: 3
Sample ID: S1.0
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 8/30/2012 10:01:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:-----
Replicate Data: S1.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0129	0.0701	0.0134	10:02:12	Yes
2		[1]	0.0126	0.0696	0.0131	10:02:51	Yes
Mean:		[1]	0.0127				
SD:		0	0.0002				
%RSD:		0	1.38				

Standard number 2 applied. [1]
Correlation Coef.: 0.999687 Slope: 0.01271 Intercept: 0.00000

=====
Sequence No.: 4
Sample ID: S2.0
Autosampler Location: 4
Date Collected: 8/30/2012 10:02:53 AM

Analyst:
Initial Sample Wt:
Dilution:

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

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0254	0.1366	0.0259	10:03:51	Yes
2		[2]	0.0251	0.1352	0.0256	10:04:31	Yes
Mean:		[2]	0.0252				
SD:		0	0.0002				
%RSD:		0	0.78				

Standard number 3 applied. [2]
Correlation Coef.: 0.999923 Slope: 0.01263 Intercept: 0.00000

=====

Sequence No.: 5	Autosampler Location: 5
Sample ID: S5.0	Date Collected: 8/30/2012 10:04:33 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0635	0.3351	0.0640	10:05:30	Yes
2		[5]	0.0622	0.3343	0.0627	10:06:10	Yes
Mean:		[5]	0.0629				
SD:		0	0.0009				
%RSD:		0	1.43				

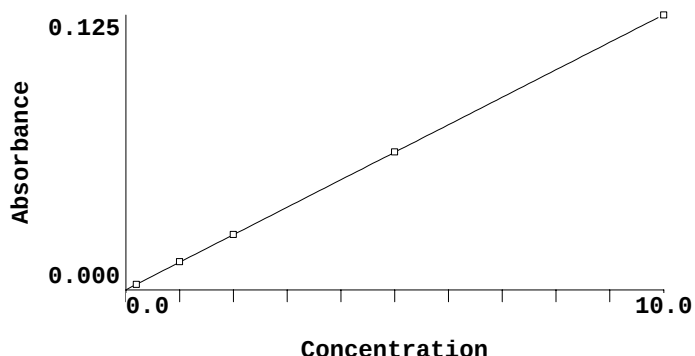
Standard number 4 applied. [5]
Correlation Coef.: 0.999987 Slope: 0.01258 Intercept: 0.00000

=====

Sequence No.: 6	Autosampler Location: 6
Sample ID: S10.0	Date Collected: 8/30/2012 10:06:12 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1264	0.6643	0.1269	10:07:10	Yes
2		[10]	0.1246	0.6605	0.1250	10:07:49	Yes
Mean:		[10]	0.1255				
SD:		0	0.0013				
%RSD:		0	1.04				

Standard number 5 applied. [10]
Correlation Coef.: 0.999996 Slope: 0.01256 Intercept: 0.00000



Correlation Coef.: 0.999996 Slope: 0.01256 Intercept: 0.00000

Autosampler Location: 7
Date Collected: 8/30/2012 10:07:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

QC value within limits for Hg 253.7 Recovery = 100.23%
All analyte(s) passed QC.

Autosampler Location: 1
Date Collected: 8/30/2012 10:09:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Autosampler Location: 17
Date Collected: 8/30/2012 10:11:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Sequence No.: 10	Autosampler Location: 18
Sample ID: LCS-67881~LCS	Date Collected: 8/30/2012 10:12:52 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LCS-67881~LCS

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.847	4.847	0.0609	0.3192	0.0613	10:13:50	Yes
2	4.789	4.789	0.0601	0.3182	0.0606	10:14:30	Yes
Mean:	4.818	4.818	0.0605				
SD:	0.041	0.041	0.0005				
%RSD:	0.855	0.855	0.85				

=====

Sequence No.: 11
Sample ID: L1807-01A~LMW-5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 19

Date Collected: 8/30/2012 10:14:32 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-01A~LMW-5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	-0.0000	0.0042	0.0005	10:15:29	Yes
2	-0.023	-0.023	-0.0003	0.0001	0.0002	10:16:09	Yes
Mean:	-0.012	-0.012	-0.0001				
SD:	0.016	0.016	0.0002				
%RSD:	135.6	135.6	135.62				

=====

Sequence No.: 12
Sample ID: L1807-01ADUP~LMW-5D

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 20

Date Collected: 8/30/2012 10:16:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-01ADUP~LMW-5D

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	-0.0003	0.0002	10:17:08	Yes
2	-0.022	-0.022	-0.0003	-0.0003	0.0002	10:17:48	Yes
Mean:	-0.024	-0.024	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	12.51	12.51	12.51				

=====

Sequence No.: 13
Sample ID: L1807-01AMS~LMW-5S

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 21

Date Collected: 8/30/2012 10:17:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-01AMS~LMW-5S

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.093	5.093	0.0639	0.3246	0.0644	10:18:47	Yes
2	5.196	5.196	0.0652	0.3296	0.0657	10:19:27	Yes
Mean:	5.145	5.145	0.0646				
SD:	0.073	0.073	0.0009				
%RSD:	1.418	1.418	1.42				

=====

Sequence No.: 14
Sample ID: L1807-02A~LMW-55

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 22

Date Collected: 8/30/2012 10:19:29 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-02A-LMW-55

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.010	-0.010	-0.0001	0.0026	0.0004	10:20:27	Yes
2	-0.025	-0.025	-0.0003	-0.0005	0.0002	10:21:07	Yes
Mean:	-0.017	-0.017	-0.0002				
SD:	0.011	0.011	0.0001				
%RSD:	63.53	63.53	63.53				

Sequence No.: 15

Sample ID: L1807-03A-LMW-6

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 23

Date Collected: 8/30/2012 10:21:09 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-03A-LMW-6

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0004	-0.0006	0.0001	10:22:07	Yes
2	-0.031	-0.031	-0.0004	-0.0006	0.0001	10:22:46	Yes
Mean:	-0.031	-0.031	-0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	1.615	1.615	1.61				

Sequence No.: 16

Sample ID: L1807-04A-LMW-18

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 24

Date Collected: 8/30/2012 10:22:48 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-04A-LMW-18

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0004	-0.0009	0.0001	10:23:46	Yes
2	-0.031	-0.031	-0.0004	-0.0007	0.0001	10:24:25	Yes
Mean:	-0.031	-0.031	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.266	1.266	1.27				

Sequence No.: 17

Sample ID: L1807-05A-LMW-19

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 25

Date Collected: 8/30/2012 10:24:27 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-05A-LMW-19

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.033	-0.033	-0.0004	-0.0012	0.0001	10:25:25	Yes
2	-0.033	-0.033	-0.0004	-0.0010	0.0001	10:26:04	Yes
Mean:	-0.033	-0.033	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	0.744	0.744	0.74				

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 8/30/2012 10:26:06 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	4.968	4.968	0.0624	0.3205	0.0629	10:27:05	Yes
2	5.006	5.006	0.0629	0.3204	0.0633	10:27:45	Yes
Mean:	4.987	4.987	0.0626				
SD:	0.027	0.027	0.0003				
%RSD:	0.540	0.540	0.54				

QC value within limits for Hg 253.7 Recovery = 99.74%
All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 10:27:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.009	0.009	0.0001	0.0043	0.0006	10:28:48	Yes
2	0.002	0.002	0.0000	0.0017	0.0005	10:29:28	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	93.91	93.91	93.91				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 20

Sample ID: L1807-06A~LMW-12

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 26

Date Collected: 8/30/2012 10:29:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-06A~LMW-12

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.026	-0.026	-0.0003	0.0000	0.0002	10:30:30	Yes
2	-0.024	-0.024	-0.0003	-0.0001	0.0002	10:31:10	Yes
Mean:	-0.025	-0.025	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	5.432	5.432	5.43				

Sequence No.: 21

Sample ID: L1807-07A~LMW-14

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 27

Date Collected: 8/30/2012 10:31:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-07A~LMW-14

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.011	-0.011	-0.0001	0.0016	0.0004	10:32:09	Yes
2	-0.014	-0.014	-0.0002	0.0008	0.0003	10:32:49	Yes
Mean:	-0.013	-0.013	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	18.32	18.32	18.32				

Sequence No.: 22

Sample ID: L1807-08A~LMW-21

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 28

Date Collected: 8/30/2012 10:32:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-08A~LMW-21

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
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#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.014	-0.014	-0.0002	0.0008	0.0003	10:33:49	Yes
2	-0.015	-0.015	-0.0002	0.0003	0.0003	10:34:29	Yes
Mean:	-0.014	-0.014	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	2.163	2.163	2.16				

Sequence No.: 23
Sample ID: L1807-09A~LMW-20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 8/30/2012 10:34:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-09A~LMW-20

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	-0.0002	0.0002	0.0002	10:35:28	Yes
2	-0.020	-0.020	-0.0002	0.0001	0.0002	10:36:08	Yes
Mean:	-0.019	-0.019	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	1.088	1.088	1.09				

Sequence No.: 24
Sample ID: L1807-10A~LMW-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 8/30/2012 10:36:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-10A~LMW-10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.020	-0.020	-0.0003	0.0003	0.0002	10:37:07	Yes
2	-0.021	-0.021	-0.0003	0.0004	0.0002	10:37:47	Yes
Mean:	-0.020	-0.020	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.998	1.998	2.00				

Sequence No.: 25
Sample ID: L1807-11A~LMW-16
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 8/30/2012 10:37:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-11A~LMW-16

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.030	-0.030	-0.0004	-0.0005	0.0001	10:38:47	Yes
2	-0.030	-0.030	-0.0004	-0.0007	0.0001	10:39:27	Yes
Mean:	-0.030	-0.030	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.451	1.451	1.45				

Sequence No.: 26
Sample ID: L1807-12A~LMW-2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 8/30/2012 10:39:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-12A~LMW-2

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.020	-0.020	-0.0002	-0.0003	0.0002	10:40:30	Yes
2	-0.017	-0.017	-0.0002	0.0006	0.0003	10:41:10	Yes

Mean: -0.018 -0.018 -0.0002
SD: 0.002 0.002 0.0000
%RSD: 10.14 10.14 10.14

Sequence No.: 27

Sample ID: L1807-13A-LMW-3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 33

Date Collected: 8/30/2012 10:41:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-13A-LMW-3

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0000	0.0001	10:42:09	Yes
2	-0.027	-0.027	-0.0003	-0.0002	0.0002	10:42:49	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.574	1.574	1.57				

Sequence No.: 28

Sample ID: L1807-14A-LMW-4

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 34

Date Collected: 8/30/2012 10:42:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-14A-LMW-4

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0000	0.0029	0.0005	10:43:49	Yes
2	0.002	0.002	0.0000	0.0020	0.0005	10:44:28	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	30.08	30.08	30.08				

Sequence No.: 29

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 8/30/2012 10:44:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.004	5.004	0.0628	0.3136	0.0633	10:45:31	Yes
2	5.002	5.002	0.0628	0.3127	0.0633	10:46:10	Yes
Mean:	5.003	5.003	0.0628				
SD:	0.001	0.001	0.0000				
%RSD:	0.027	0.027	0.03				

QC value within limits for Hg 253.7 Recovery = 100.07%
All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 10:46:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0001	0.0038	0.0006	10:47:12	Yes
2	0.007	0.007	0.0001	0.0027	0.0006	10:47:52	Yes
Mean:	0.008	0.008	0.0001				

SD: 0.002 0.002 0.0000

%RSD: 21.97 21.97 21.97

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 31

Sample ID: L1807-15A~DMW-13A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 35

Date Collected: 8/30/2012 10:47:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-15A~DMW-13A

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0003	0.0009	0.0002	10:48:53	Yes
2	-0.021	-0.021	-0.0003	0.0008	0.0002	10:49:33	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	6.116	6.116	6.12				

Sequence No.: 32

Sample ID: L1807-16A~DMW-22B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 36

Date Collected: 8/30/2012 10:49:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-16A~DMW-22B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0004	0.0005	0.0001	10:50:32	Yes
2	-0.029	-0.029	-0.0004	0.0003	0.0001	10:51:12	Yes
Mean:	-0.029	-0.029	-0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	1.919	1.919	1.92				

Sequence No.: 33

Sample ID: L1807-17A~DMW-22A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 8/30/2012 10:51:14 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-17A~DMW-22A

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0000	0.0001	10:52:12	Yes
2	-0.028	-0.028	-0.0004	0.0000	0.0001	10:52:52	Yes
Mean:	-0.028	-0.028	-0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	2.631	2.631	2.63				

Sequence No.: 34

Sample ID: L1807-18A~DMW-18

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 8/30/2012 10:52:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-18A~DMW-18

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	0.0008	0.0002	10:53:51	Yes
2	-0.029	-0.029	-0.0004	0.0002	0.0001	10:54:31	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.002	0.002	0.0000				

%RSD: 7.213 7.213 7.21

Sequence No.: 35

Sample ID: L1807-19A~DMW-2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 8/30/2012 10:54:33 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-19A~DMW-2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	0.0004	0.0002	10:55:30	Yes
2	-0.028	-0.028	-0.0003	0.0003	0.0001	10:56:10	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	3.592	3.592	3.59				

Sequence No.: 36

Sample ID: L1807-19ADUP~DMW-2D

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 8/30/2012 10:56:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-19ADUP~DMW-2D

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0003	0.0004	0.0002	10:57:10	Yes
2	-0.023	-0.023	-0.0003	0.0008	0.0002	10:57:49	Yes
Mean:	-0.023	-0.023	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	4.222	4.222	4.22				

Sequence No.: 37

Sample ID: L1807-19AMS~DMW-2S

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 8/30/2012 10:57:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-19AMS~DMW-2S

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.896	4.896	0.0615	0.3042	0.0620	10:58:48	Yes
2	4.930	4.930	0.0619	0.3039	0.0624	10:59:28	Yes
Mean:	4.913	4.913	0.0617				
SD:	0.025	0.025	0.0003				
%RSD:	0.502	0.502	0.50				

Sequence No.: 38

Sample ID: L1807-20A~DMW-3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 42

Date Collected: 8/30/2012 10:59:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-20A~DMW-3

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0003	0.0012	0.0002	11:00:27	Yes
2	-0.027	-0.027	-0.0003	0.0004	0.0002	11:01:07	Yes
Mean:	-0.025	-0.025	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	8.139	8.139	8.14				

Sequence No.: 39
Sample ID: MB-67882~PBW
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 8/30/2012 11:01:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: MB-67882~PBW

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.022	-0.022	-0.0003	0.0014	0.0002	11:02:07	Yes
2	-0.019	-0.019	-0.0002	0.0029	0.0003	11:02:47	Yes
Mean:	-0.020	-0.020	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	10.96	10.96	10.96				

Sequence No.: 40
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 8/30/2012 11:02:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.098	5.098	0.0640	0.3149	0.0645	11:03:47	Yes
2	5.076	5.076	0.0637	0.3122	0.0642	11:04:27	Yes
Mean:	5.087	5.087	0.0639				
SD:	0.016	0.016	0.0002				
%RSD:	0.313	0.313	0.31				

QC value within limits for Hg 253.7 Recovery = 101.74%
All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/30/2012 11:04:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	0.0051	0.0006	11:05:29	Yes
2	0.003	0.003	0.0000	0.0035	0.0005	11:06:09	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	58.96	58.96	58.96				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 42
Sample ID: LCS-67882~LCS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 8/30/2012 11:06:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LCS-67882~LCS

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.884	4.884	0.0613	0.3038	0.0618	11:07:11	Yes
2	4.978	4.978	0.0625	0.3075	0.0630	11:07:51	Yes
Mean:	4.931	4.931	0.0619				
SD:	0.067	0.067	0.0008				
%RSD:	1.352	1.352	1.35				

Sequence No.: 43

Sample ID: L1807-21A~DMW-9

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 8/30/2012 11:07:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-21A~DMW-9

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	-0.0003	0.0037	0.0002	11:08:51	Yes
2	-0.025	-0.025	-0.0003	0.0027	0.0002	11:09:30	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	13.75	13.75	13.75				

Sequence No.: 44

Sample ID: L1807-22A~DMW-9B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 46

Date Collected: 8/30/2012 11:09:32 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-22A~DMW-9B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0003	0.0029	0.0002	11:10:30	Yes
2	-0.025	-0.025	-0.0003	0.0026	0.0002	11:11:09	Yes
Mean:	-0.024	-0.024	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	4.247	4.247	4.25				

Sequence No.: 45

Sample ID: L1807-23A~DMW-52

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 8/30/2012 11:11:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-23A~DMW-52

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.033	-0.033	-0.0004	0.0001	0.0001	11:12:09	Yes
2	-0.030	-0.030	-0.0004	0.0008	0.0001	11:12:49	Yes
Mean:	-0.032	-0.032	-0.0004				
SD:	0.002	0.002	0.0000				
%RSD:	6.557	6.557	6.56				

Sequence No.: 46

Sample ID: L1807-24A~DMW-15B

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 8/30/2012 11:12:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1807-24A~DMW-15B

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0004	0.0006	0.0001	11:13:52	Yes
2	-0.032	-0.032	-0.0004	0.0007	0.0001	11:14:32	Yes
Mean:	-0.032	-0.032	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.031	1.031	1.03				

Sequence No.: 47

Sample ID: L1807-25A~DMW-15A

Autosampler Location: 49

Date Collected: 8/30/2012 11:14:34 AM

Analyst:
Initial Sample Wt:
Dilution:

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

Replicate Data: L1807-25A~DMW-15A

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0004	0.0012	0.0001	11:15:31	Yes
2	-0.031	-0.031	-0.0004	0.0005	0.0001	11:16:12	Yes
Mean:	-0.030	-0.030	-0.0004				
SD:	0.002	0.002	0.0000				
%RSD:	7.285	7.285	7.28				

=====

Sequence No.: 48
Sample ID: L1807-26A~DMW-23B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 8/30/2012 11:16:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-26A~DMW-23B

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0012	0.0001	11:17:11	Yes
2	-0.026	-0.026	-0.0003	0.0012	0.0002	11:17:50	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.839	1.839	1.84				

=====

Sequence No.: 49
Sample ID: L1807-27A~DMW-13B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 8/30/2012 11:17:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-27A~DMW-13B

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0004	0.0010	0.0001	11:18:50	Yes
2	-0.032	-0.032	-0.0004	0.0007	0.0001	11:19:30	Yes
Mean:	-0.031	-0.031	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	1.409	1.409	1.41				

=====

Sequence No.: 50
Sample ID: L1807-28A~DMW-23A
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 8/30/2012 11:19:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1807-28A~DMW-23A

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0003	0.0016	0.0001	11:20:30	Yes
2	-0.027	-0.027	-0.0003	0.0008	0.0002	11:21:09	Yes
Mean:	-0.027	-0.027	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	2.344	2.344	2.34				

=====

Sequence No.: 51
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 8/30/2012 11:21:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.163	5.163	0.0648	0.3163	0.0653	11:22:11	Yes
2	5.139	5.139	0.0645	0.3164	0.0650	11:22:51	Yes
Mean:	5.151	5.151	0.0647				
SD:	0.017	0.017	0.0002				
%RSD:	0.323	0.323	0.32				

QC value within limits for Hg 253.7 Recovery = 103.02%
All analyte(s) passed QC.

=====

Sequence No.: 52

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 11:22:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	0.0003	0.0124	0.0008	11:23:53	Yes
2	0.007	0.007	0.0001	0.0059	0.0006	11:24:33	Yes
Mean:	0.017	0.017	0.0002				
SD:	0.014	0.014	0.0002				
%RSD:	79.97	79.97	79.97				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 53

Sample ID: L1808-01A~LMW-5F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 53

Date Collected: 8/30/2012 11:24:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-01A~LMW-5F

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.020	-0.020	-0.0002	0.0030	0.0002	11:25:35	Yes
2	-0.025	-0.025	-0.0003	0.0025	0.0002	11:26:15	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	15.84	15.84	15.84				

=====

Sequence No.: 54

Sample ID: L1808-02A~LMW-55F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 54

Date Collected: 8/30/2012 11:26:17 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-02A~LMW-55F

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.024	-0.024	-0.0003	0.0023	0.0002	11:27:14	Yes
2	-0.022	-0.022	-0.0003	0.0037	0.0002	11:27:54	Yes
Mean:	-0.023	-0.023	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	8.191	8.191	8.19				

=====

Sequence No.: 55

Sample ID: L1808-03A~LMW-6F

Analyst:

Initial Sample Wt:

Autosampler Location: 55

Date Collected: 8/30/2012 11:27:56 AM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: L1808-03A~LMW-6F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.019	-0.019	-0.0002	0.0040	0.0003	11:28:53	Yes
2	-0.022	-0.022	-0.0003	0.0025	0.0002	11:29:33	Yes
Mean:	-0.020	-0.020	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	10.51	10.51	10.51				

Sequence No.: 56

Sample ID: L1808-04A~LMW-18F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 56

Date Collected: 8/30/2012 11:29:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-04A~LMW-18F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.022	-0.022	-0.0003	0.0021	0.0002	11:30:33	Yes
2	-0.019	-0.019	-0.0002	0.0028	0.0002	11:31:12	Yes
Mean:	-0.021	-0.021	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	10.16	10.16	10.16				

Sequence No.: 57

Sample ID: L1808-05A~LMW-19F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 8/30/2012 11:31:14 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-05A~LMW-19F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.018	-0.018	-0.0002	0.0037	0.0003	11:32:12	Yes
2	-0.018	-0.018	-0.0002	0.0030	0.0003	11:32:52	Yes
Mean:	-0.018	-0.018	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	1.293	1.293	1.29				

Sequence No.: 58

Sample ID: L1808-06A~LMW-12F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 8/30/2012 11:32:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-06A~LMW-12F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	-0.0003	0.0025	0.0002	11:33:52	Yes
2	-0.017	-0.017	-0.0002	0.0027	0.0003	11:34:32	Yes
Mean:	-0.019	-0.019	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	11.30	11.30	11.30				

Sequence No.: 59

Sample ID: L1808-06ADUP~LMW-12FD

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 59

Date Collected: 8/30/2012 11:34:33 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-06ADUP~LMW-12FD

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.018	-0.018	-0.0002	0.0028	0.0003	11:35:31	Yes
2	-0.018	-0.018	-0.0002	0.0028	0.0003	11:36:10	Yes
Mean:	-0.018	-0.018	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	1.040	1.040	1.04				

Sequence No.: 60

Sample ID: L1808-06AMS~LMW-12FS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 8/30/2012 11:36:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-06AMS~LMW-12FS

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.745	4.745	0.0596	0.2912	0.0601	11:37:10	Yes
2	4.780	4.780	0.0600	0.2910	0.0605	11:37:49	Yes
Mean:	4.762	4.762	0.0598				
SD:	0.024	0.024	0.0003				
%RSD:	0.509	0.509	0.51				

Sequence No.: 61

Sample ID: L1808-07A~LMW-14F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 61

Date Collected: 8/30/2012 11:37:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-07A~LMW-14F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0001	0.0040	0.0004	11:38:49	Yes
2	-0.006	-0.006	-0.0001	0.0038	0.0004	11:39:29	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	1.604	1.604	1.60				

Sequence No.: 62

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 8/30/2012 11:39:31 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.210	5.210	0.0654	0.3186	0.0659	11:40:29	Yes
2	5.205	5.205	0.0654	0.3156	0.0658	11:41:09	Yes
Mean:	5.208	5.208	0.0654				
SD:	0.003	0.003	0.0000				
%RSD:	0.058	0.058	0.06				

QC value within limits for Hg 253.7 Recovery = 104.15%
All analyte(s) passed QC.

Sequence No.: 63

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 11:41:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.0000	0.0052	0.0005	11:42:11	Yes
2	-0.007	-0.007	-0.0001	0.0029	0.0004	11:42:51	Yes
Mean:	-0.003	-0.003	-0.0000				
SD:	0.005	0.005	0.0001				
%RSD:	151.6	151.6	151.64				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

```

=====
Sequence No.: 64                               Autosampler Location: 62
Sample ID: L1808-08A~LMW-21F                 Date Collected: 8/30/2012 11:42:53 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
=====

```

Replicate Data: L1808-08A~LMW-21F

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.019	-0.019	-0.0002	0.0024	0.0002	11:43:55	Yes
2	-0.023	-0.023	-0.0003	0.0010	0.0002	11:44:34	Yes
Mean:	-0.021	-0.021	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	14.68	14.68	14.68				

```

=====
Sequence No.: 65                               Autosampler Location: 63
Sample ID: L1808-09A~LMW-20F                 Date Collected: 8/30/2012 11:44:36 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
=====

```

Replicate Data: L1808-09A~LMW-20F

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	-0.0002	0.0027	0.0002	11:45:38	Yes
2	-0.018	-0.018	-0.0002	0.0031	0.0003	11:46:17	Yes
Mean:	-0.019	-0.019	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	4.827	4.827	4.83				

```

=====
Sequence No.: 66                               Autosampler Location: 64
Sample ID: L1808-10A~LMW-10F                 Date Collected: 8/30/2012 11:46:19 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
=====

```

Replicate Data: L1808-10A~LMW-10F

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0003	0.0019	0.0002	11:47:17	Yes
2	-0.011	-0.011	-0.0001	0.0054	0.0003	11:47:57	Yes
Mean:	-0.017	-0.017	-0.0002				
SD:	0.009	0.009	0.0001				
%RSD:	50.12	50.12	50.12				

```

=====
Sequence No.: 67                               Autosampler Location: 65
Sample ID: MB-67883~PBW                     Date Collected: 8/30/2012 11:47:59 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
=====

```

Replicate Data: MB-67883~PBW

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.018	-0.018	-0.0002	0.0043	0.0003	11:48:56	Yes
2	-0.024	-0.024	-0.0003	0.0021	0.0002	11:49:36	Yes
Mean:	-0.021	-0.021	-0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	17.52	17.52	17.52				

Sequence No.: 68
Sample ID: LCS-67883~LCS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 8/30/2012 11:49:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LCS-67883~LCS

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.948	4.948	0.0621	0.3041	0.0626	11:50:36	Yes
2	4.957	4.957	0.0622	0.3039	0.0627	11:51:16	Yes
Mean:	4.952	4.952	0.0622				
SD:	0.006	0.006	0.0001				
%RSD:	0.129	0.129	0.13				

Sequence No.: 69
Sample ID: L1808-11A~LMW-16F
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 8/30/2012 11:51:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1808-11A~LMW-16F

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.014	-0.014	-0.0002	0.0051	0.0003	11:52:15	Yes
2	-0.017	-0.017	-0.0002	0.0042	0.0003	11:52:55	Yes
Mean:	-0.015	-0.015	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	11.65	11.65	11.65				

Sequence No.: 70
Sample ID: L1808-12A~LMW-2F
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 8/30/2012 11:52:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1808-12A~LMW-2F

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.025	-0.025	-0.0003	0.0021	0.0002	11:53:55	Yes
2	-0.019	-0.019	-0.0002	0.0040	0.0003	11:54:34	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.004	0.004	0.0001				
%RSD:	19.62	19.62	19.62				

Sequence No.: 71
Sample ID: L1808-13A~LMW-3F
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 8/30/2012 11:54:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1808-13A~LMW-3F

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	-0.0002	0.0034	0.0003	11:55:33	Yes
2	-0.028	-0.028	-0.0003	0.0019	0.0001	11:56:13	Yes

Mean: -0.023 -0.023 -0.0003
SD: 0.006 0.006 0.0001
%RSD: 27.11 27.11 27.11

Sequence No.: 72

Sample ID: L1808-14A-LMW-4F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 8/30/2012 11:56:15 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-14A-LMW-4F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.008	-0.008	-0.0001	0.0022	0.0004	11:57:12	Yes
2	-0.007	-0.007	-0.0001	0.0022	0.0004	11:57:52	Yes
Mean:	-0.007	-0.007	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	7.515	7.515	7.51				

Sequence No.: 73

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 8/30/2012 11:57:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.177	5.177	0.0650	0.3149	0.0655	11:58:54	Yes
2	5.242	5.242	0.0658	0.3150	0.0663	11:59:34	Yes
Mean:	5.210	5.210	0.0654				
SD:	0.046	0.046	0.0006				
%RSD:	0.882	0.882	0.88				

QC value within limits for Hg 253.7 Recovery = 104.20%

All analyte(s) passed QC.

Sequence No.: 74

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 8/30/2012 11:59:36 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0029	0.0005	12:00:36	Yes
2	-0.001	-0.001	-0.0000	0.0020	0.0005	12:01:16	Yes
Mean:	0.000	0.000	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 75

Sample ID: L1808-15A-DMW-2F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 71

Date Collected: 8/30/2012 12:01:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-15A-DMW-2F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.022	-0.022	-0.0003	0.0011	0.0002	12:02:19	Yes

2	-0.026	-0.026	-0.0003	0.0003	0.0002	12:02:59	Yes
Mean:	-0.024	-0.024	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	11.66	11.66	11.66				

Sequence No.: 76

Sample ID: L1808-15ADUP~DMW-2FD

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 72

Date Collected: 8/30/2012 12:03:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-15ADUP~DMW-2FD

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.036	-0.036	-0.0004	-0.0008	0.0000	12:03:59	Yes
2	-0.030	-0.030	-0.0004	0.0014	0.0001	12:04:38	Yes
Mean:	-0.033	-0.033	-0.0004				
SD:	0.004	0.004	0.0001				
%RSD:	12.33	12.33	12.33				

Sequence No.: 77

Sample ID: L1808-15AMS~DMW-2FS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 73

Date Collected: 8/30/2012 12:04:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-15AMS~DMW-2FS

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.955	4.955	0.0622	0.3001	0.0627	12:05:38	Yes
2	4.992	4.992	0.0627	0.3007	0.0632	12:06:17	Yes
Mean:	4.974	4.974	0.0624				
SD:	0.026	0.026	0.0003				
%RSD:	0.520	0.520	0.52				

Sequence No.: 78

Sample ID: L1808-16A~DMW-52F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 74

Date Collected: 8/30/2012 12:06:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-16A~DMW-52F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.022	-0.022	-0.0003	0.0015	0.0002	12:07:17	Yes
2	-0.027	-0.027	-0.0003	0.0004	0.0001	12:07:56	Yes
Mean:	-0.025	-0.025	-0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	14.89	14.89	14.89				

Sequence No.: 79

Sample ID: L1808-17A~DMW-3F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 8/30/2012 12:07:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-17A~DMW-3F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0004	0.0003	0.0001	12:08:56	Yes
2	-0.030	-0.030	-0.0004	0.0009	0.0001	12:09:36	Yes
Mean:	-0.031	-0.031	-0.0004				
SD:	0.001	0.001	0.0000				

%RSD: 3.298 3.298 3.30

Sequence No.: 80

Sample ID: L1808-18A~DMW-9BF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 76

Date Collected: 8/30/2012 12:09:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-18A~DMW-9BF

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0004	0.0003	0.0001	12:10:36	Yes
2	-0.032	-0.032	-0.0004	-0.0001	0.0001	12:11:15	Yes
Mean:	-0.032	-0.032	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	0.520	0.520	0.52				

Sequence No.: 81

Sample ID: L1808-19A~DMW-9F

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 77

Date Collected: 8/30/2012 12:11:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-19A~DMW-9F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	0.0026	0.0002	12:12:14	Yes
2	-0.023	-0.023	-0.0003	0.0029	0.0002	12:12:53	Yes
Mean:	-0.024	-0.024	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	8.657	8.657	8.66				

Sequence No.: 82

Sample ID: L1808-20A~DMW-15BF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 78

Date Collected: 8/30/2012 12:12:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-20A~DMW-15BF

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0003	0.0032	0.0002	12:13:57	Yes
2	-0.026	-0.026	-0.0003	0.0020	0.0002	12:14:37	Yes
Mean:	-0.025	-0.025	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	6.987	6.987	6.99				

Sequence No.: 83

Sample ID: L1808-21A~DMW-15AF

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 8/30/2012 12:14:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: L1808-21A~DMW-15AF

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0006	0.0001	12:15:36	Yes
2	-0.019	-0.019	-0.0002	0.0041	0.0003	12:16:16	Yes
Mean:	-0.023	-0.023	-0.0003				
SD:	0.006	0.006	0.0001				
%RSD:	25.60	25.60	25.60				

Sequence No.: 84
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 8/30/2012 12:16:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.104	5.104	0.0641	0.3132	0.0646	12:17:19	Yes
2	5.036	5.036	0.0632	0.3084	0.0637	12:17:59	Yes
Mean:	5.070	5.070	0.0637				
SD:	0.048	0.048	0.0006				
%RSD:	0.947	0.947	0.95				

QC value within limits for Hg 253.7 Recovery = 101.40%
All analyte(s) passed QC.

=====

Sequence No.: 85
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/30/2012 12:18:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.004	0.004	0.0000	0.0049	0.0005	12:19:01	Yes
2	0.008	0.008	0.0001	0.0051	0.0006	12:19:41	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	51.77	51.77	51.77				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 86
Sample ID: L1808-22A~DMW-23BF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 8/30/2012 12:19:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.023	-0.023	-0.0003	0.0026	0.0002	12:20:43	Yes
2	-0.027	-0.027	-0.0003	0.0020	0.0002	12:21:23	Yes
Mean:	-0.025	-0.025	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	10.50	10.50	10.50				

=====

Sequence No.: 87
Sample ID: L1808-23A~DMW-13BF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 8/30/2012 12:21:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.028	-0.028	-0.0004	0.0011	0.0001	12:22:23	Yes
2	-0.015	-0.015	-0.0002	0.0045	0.0003	12:23:03	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.009	0.009	0.0001				
%RSD:	43.26	43.26	43.26				

Sequence No.: 88
Sample ID: L1808-24A~DMW-23AF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 8/30/2012 12:23:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1808-24A~DMW-23AF

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.018	-0.018	-0.0002	0.0041	0.0003	12:24:02	Yes
2	-0.020	-0.020	-0.0002	0.0022	0.0002	12:24:42	Yes
Mean:	-0.019	-0.019	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	5.995	5.995	5.99				

Sequence No.: 89
Sample ID: L1808-25A~DMW-13AF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 8/30/2012 12:24:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1808-25A~DMW-13AF

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0003	0.0016	0.0002	12:25:41	Yes
2	-0.025	-0.025	-0.0003	0.0025	0.0002	12:26:22	Yes
Mean:	-0.026	-0.026	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	5.206	5.206	5.21				

Sequence No.: 90
Sample ID: L1808-26A~DMW-22BF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 8/30/2012 12:26:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1808-26A~DMW-22BF

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	0.0023	0.0002	12:27:20	Yes
2	-0.031	-0.031	-0.0004	-0.0006	0.0001	12:28:00	Yes
Mean:	-0.029	-0.029	-0.0004				
SD:	0.004	0.004	0.0000				
%RSD:	13.06	13.06	13.06				

Sequence No.: 91
Sample ID: L1808-27A~DMW-22AF
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 85
Date Collected: 8/30/2012 12:28:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: L1808-27A~DMW-22AF

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	-0.0003	0.0022	0.0002	12:29:00	Yes
2	-0.028	-0.028	-0.0004	0.0006	0.0001	12:29:40	Yes
Mean:	-0.026	-0.026	-0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	14.15	14.15	14.15				

Sequence No.: 92
Sample ID: L1808-28A~DMW-18F

Autosampler Location: 86
Date Collected: 8/30/2012 12:29:42 PM

Analyst:
Initial Sample Wt:
Dilution:

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

Replicate Data: L1808-28A-DMW-18F

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.029	-0.029	-0.0004	0.0010	0.0001	12:30:40	Yes
2	-0.023	-0.023	-0.0003	0.0022	0.0002	12:31:20	Yes
Mean:	-0.026	-0.026	-0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	14.19	14.19	14.19				

=====

Sequence No.: 93
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 8/30/2012 12:31:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.118	5.118	0.0643	0.3132	0.0647	12:32:21	Yes
2	5.183	5.183	0.0651	0.3151	0.0656	12:33:01	Yes
Mean:	5.150	5.150	0.0647				
SD:	0.046	0.046	0.0006				
%RSD:	0.897	0.897	0.90				

QC value within limits for Hg 253.7 Recovery = 103.00%
All analyte(s) passed QC.

=====

Sequence No.: 94
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/30/2012 12:33:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0029	0.0005	12:34:04	Yes
2	-0.001	-0.001	-0.0000	0.0021	0.0005	12:34:43	Yes
Mean:	0.000	0.000	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	949.1	949.1	949.08				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 8/29/2012 12:00:00

Prep End Date: 8/29/2012 2:00:00 P

Prep Batch ID: 67881

Prep Code: SW7470A_PR

Prep Type: 7470A/METHOD

Prep Factor Units:
mL / mL

Technician: Jill L Cartwright

QC Matrix: N/A
QC Matrix Lot: N/A
Filter?: N/A
Filter Lot: N/A
Conc H2SO4 3110100
Conc H2SO4 (mL): 5.0
Conc HNO3 1112012
Conc HNO3 (mL): 2.5
Reagent 5 Lot: N/A
Reagent 5 (mL): N/A
Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 12:00
Digestion End Time 1: 08/29/2012 14:00
Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-47
Corr Fac-3

Mitkem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
S0.2	40 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
S1.0		100	--	--	--	--			08/29/12	JLC		2		HB-A
S2.0	200 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
S5.0	400 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
S10.0	1000 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
ICV	2000 uL III120827C	100	--	--	--	--			08/29/12	JLC		2		HB-A
ICB	1000 uL III120828A	100	--	--	--	--			08/29/12	JLC		2		HB-A
CCV		100	--	--	--	--			08/29/12	JLC		2		HB-A
CCB	1000 uL III120828A	100	--	--	--	--			08/29/12	JLC		2		HB-A
MB-67881		100	--	--	--	--			08/29/12	JLC		2		HB-A
LCS-67881		100	--	--	--	--			08/29/12	JLC		2		HB-A
L1807-01A	1000 uL III120828B	100	--	--	--	--			08/29/12	JLC		2		HB-A
L1807-01A	LMW-5	A	100	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-A
L1807-01ADUP	TAL	A	100	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-A
L1807-01AMS	LMW-5	A	100	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-A
L1807-02A	1000 uL III120828B	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-2
L1807-02A	LMW-55	A	100	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-2
L1807-03A	TAL	A	100	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-2
L1807-04A	LMW-18	A	100	--	--	--	09/13/12	01	08/29/12	JLC		2		HB-2

N2 Logbook ID: 100.0128 -08/12

8/29/12 SC

Prep Start Date: 8/29/2012 12:00:00

Prep End Date:

Prep Batch ID: 67882

Prep Code: SW7470A_PR

Prep Type: 7470A/METHOD

Prep Factor Units:

mL / mL

QC Matrix: N/A
Conc H2SO4 3110100
QC Matrix Lot: N/A
Conc H2SO4 (mL): 5.0Reagent 5 Lot: N/A
Reagent 5 (mL): N/AFilter?: N/A
Filter Lot: N/A
Conc HNO3 1112012
Conc HNO3 (mL): 2.5Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 12:00

Digestion Start Time 2: N/A

Digestion End Time 1: 08/29/2012 14:00

Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-99

Corr Fac-2

Mitkem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
1000 uL III120828B														
L1807-21A	DMW-9	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1807-22A	DMW-9B	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1807-23A	DMW-52	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1807-24A	DMW-15B	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1807-25A	DMW-15A	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1807-26A	DMW-23B	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1807-27A	DMW-13B	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1807-28A	DMW-23A	100	--	--	--	--	09/13/12	01				2		HB-C
TAL														
L1808-01A	LMW-5F	100	--	--	--	--	09/13/12	01				2		HB-J
TAL														
L1808-02A	LMW-55F	100	--	--	--	--	09/13/12	01				2		HB-J
TAL														
L1808-03A	LMW-6F	100	--	--	--	--	09/13/12	01				2		HB-J
TAL														
L1808-04A	LMW-18F	100	--	--	--	--	09/13/12	01				2		HB-J
TAL														
L1808-05A	LMW-19F	100	--	--	--	--	09/13/12	01				2		HB-J
TAL														
L1808-06A	LMW-12F	100	--	--	--	--	09/13/12	01				2		HB-J
TAL														
L1808-06ADUP	LMW-12F	100	--	--	--	--	09/13/12	01				2		HB-J

N Logbook ID: 100.0128-08/12

N2

Wednesday, August 29, 2012 16:45

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Page 02 of 02

Prep Start Date: 8/29/2012 12:00:00

Prep End Date:

Prep Batch ID: 67882

Prep Code: SW7470A_PR

Prep Type: 7470A/METHOD

Technician: Jill L Cartwright

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Conc H2SO4 3110100
Conc H2SO4 (mL): 5.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HNO3 1112012
Conc HNO3 (mL): 2.5

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 12:00
Digestion End Time 1: 08/29/2012 14:00

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-99
Corr Fac-2

Mitkem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans Bv	Storage	pH	pH >11	HOT BLOCK
L1808-06AMS	LMW-12F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-07A	LMW-14F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-08A	LMW-21F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-09A	LMW-20F	100	--	--	--	--	09/13/12	01				2		HB-J
L1808-10A	LMW-10F	100	--	--	--	--	09/13/12	01				2		HB-J

Analyst Reviewed

Date

Manager Reviewed

Date

Comments:

8/29/12 JLC

Prep Start Date: 8/29/2012 2:00:00 P
Prep End Date: 8/29/2012 2:00:00 P
Prep Batch ID: 67883

Prep Code: SW7470A_PR
Technician: Jill L Cartwright

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A
Filter?: N/A
Filter Lot: N/A

Conc H2SO4 3110100
Conc H2SO4 (mL): 5.0
Conc HNO3 1112012
Conc HNO3 (mL): 2.5

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A
Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 14:00
Digestion End Time 1: 08/29/2012 16:00

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97
Therm ID1: MT-47
Corr Fac-3

Mikem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
MB-67883		100	--	--	--	--			08/29/12	JLC		2	☐	HB-A
LCS-67883		100	--	--	--	--			08/29/12	JLC		2	☐	HB-A
1000 uL III120828B														
L1808-11A	LMW-16F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-12A	LMW-2F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-13A	LMW-3F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-14A	LMW-4F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-15A	DMW-2F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-15ADUP	DMW-2F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
L1808-15AMS	DMW-2F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
1000 uL III120828B														
L1808-16A	DMW-52F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-17A	DMW-3F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-18A	DMW-9BF	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-19A	DMW-9F	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-20A	DMW-15BF	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-21A	DMW-15AF	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-A
TAL														
L1808-22A	DMW-23BF	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														
L1808-23A	DMW-13BF	A 100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL														

Logbook ID: 100.0128 -08/12

N14

Wednesday, August 29, 2012 16:46

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Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 8/29/2012 2:00:00 P

Prep End Date: 8/29/2012 2:00:00 P

Prep Batch ID: 67883

Prep Code: SW7470A_PR

Technician: JILL L Cartwright

Prep Type: 7470A/METHOD

Prep Factor Units:

mL / mL

QC Matrix: N/A
Conc H2SO4 3110100
QC Matrix Lot: N/A
Conc H2SO4 (mL): 5.0

Reagent 5 Lot: N/A

Reagent 5 (mL): N/A

Filter?: N/A
Conc HNO3 1112012
Filter Lot: N/A
Conc HNO3 (mL): 2.5

Reagent 6 Lot: N/A

Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 14:00

Digestion End Time 1: 08/29/2012 16:00

Digestion Start Time 2: N/A

Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-47

Corr Fac-3

Milkem Sample ID	Client Samp ID	Initial L/g	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11	HOT BLOCK
L1808-24A	DMW-23AF	A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL															
L1808-25A	DMW-13AF	A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL															
L1808-26A	DMW-22BF	A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL															
L1808-27A	DMW-22AF	A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL															
L1808-28A	DMW-18F	A	100	--	--	--	--	09/13/12	01	08/29/12	JLC		2	☐	HB-2
TAL															

8/30/12
Date

HZA
Manager Reviewed

08/29/2012
Date

Jill L Cartwright

Analyst Reviewed

Comments:

8/29/12 JLC

Logbook ID: 100.0128 -08/12

Prep Start Date: 8/29/2012 11:40:00

Prep End Date: 8/29/2012 3:40:00 P

Prep Batch ID: 67889

Prep Code: ICP_W_PR

Technician: David T Camara

Prep Type: 3005A/SW3005A

Prep Factor Units:
mL / mL

QC Matrix: N/A

QC Matrix Lot: N/A

Conc HNO3 1112012

Conc HNO3 (mL): 1.0

Filter?: N/A

Filter Lot: N/A

Conc HCl 4111111

Conc HCl (mL): 2.5

Reagent 5 Lot: N/A

Reagent 5 (mL): N/A

Reagent 6 Lot: N/A

Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:40

Digestion End Time 1: 08/29/2012 15:40

Digestion Start Time 2: N/A

Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-94

Corr Fac -3

Mitkem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans Bv	Storage	pH	pH >11	HOT BLOCK
MB-67889		50	--	--	--	--			08/29/12	DTC	ICPLab	2		HB-3
LCS-67889		50	--	--	--	--			08/29/12	DTC	ICPLab	2		HB-3
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A														
L1807-19A	DMW-2	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-19ADUP	DMW-2	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
L1807-19AMS	DMW-2	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A														
L1807-20A	DMW-3	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-21A	DMW-9	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-22A	DMW-9B	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-23A	DMW-52	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-24A	DMW-15B	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-25A	DMW-15A	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-26A	DMW-23B	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-27A	DMW-13B	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1807-28A	DMW-23A	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-01A	LMW-5F	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-02A	LMW-55F	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-03A	LMW-6F	50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														

10/8/12

N1

Logbook ID 100.0125 -06/12

Start time:

Spectrum Analytical, Inc. RI Division: Aqueous Metals Preparation Logbook

Wednesday, August 29, 2012 13:26

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Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 8/29/2012 11:40:00

Prep End Date: 8/29/2012 3:40:00 P

Prep Batch ID: 67889

Prep Code: ICP_W_PR

Prep Type: 3005A/SW3005A

Technician: David T Camara

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:40
Digestion End Time 1: 08/29/2012 15:40

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97
Therm ID1: MT-94
Corr Fac-3

Mitkem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH	HOT BLOCK
L1808-04A	LMW-18F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2	>11 <2	HB-3
TAL														
L1808-05A	LMW-19F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-06A	LMW-12F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-06ADUP	LMW-12F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
L1808-06AMS	LMW-12F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
455 uL II12072B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A														
L1808-07A	LMW-14F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														
L1808-08A	LMW-21F	A 50	--	--	--	--	09/13/12	01	08/29/12	DTC	ICPLab	2		HB-3
TAL														

David T Camara
Analyst Reviewed

Manager Reviewed

Date

Comments:

8/29/12

Prep Start Date: 8/30/2012 9:15:00

Prep End Date: 8/30/2012 1:15:00 P

Prep Batch ID: 67911

Prep Code: ICP_W_PR

Technician: David T Camara

Prep Type: 3005A/SW3005A

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Filter?: N/A
Filter Lot: N/A

Digestion Start Time 1: 08/30/2012 09:15
Digestion End Time 1: 08/30/2012 13:15

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97
Therm ID1: MT-111
Corr Fac-2

Mitkem Sample ID	Client Samp ID	Final L/g	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans By	Storage	pH	pH >11 <2	HOT BLOCK
L1808-09A	LMW-20F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-10A	LMW-10F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-11A	LMW-16F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-12A	LMW-2F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-13A	LMW-3F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-14A	LMW-4F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-15A	DMW-2F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-15ADUP	DMW-2F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-15AMS	DMW-2F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-16A	DMW-52F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-17A	DMW-3F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-18A	DMW-9BF	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-19A	DMW-9F	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-20A	DMW-15BF	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-21A	DMW-15AF	A	50	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K

N

Logbook ID 100.0125 -06/12

Start time:

Spectrum Analytical, Inc. RI Division: Aqueous Metals Preparation Logbook

Thursday, August 30, 2012 13:41

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Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division PREP BATCH REPORT

Prep Start Date: 8/30/2012 9:15:00

Prep End Date: 8/30/2012 1:15:00 P

Prep Batch ID: 67911

Prep Code: ICP_W_PR

Technician: David T Camara

Prep Type: 3005A/SW3005A

Prep Factor Units:
mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A
Conc HNO3 1112012
Conc HNO3 (mL): 1.0
Filter?: N/A
Filter Lot: N/A
Conc HCl 4111111
Conc HCl (mL): 2.5
Digestion Start Time 1: 08/30/2012 09:15
Digestion End Time 1: 08/30/2012 13:15
Reagent 3 Lot: N/A
Reagent 3 (mL): N/A
Reagent 4 Lot: N/A
Reagent 4 (mL): N/A
Reagent 5 Lot: N/A
Reagent 5 (mL): N/A
Reagent 6 Lot: N/A
Reagent 6 (mL): N/A
Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-111
Corr Fac-2

Mirkem Sample ID	Client Samp ID	Final (mL)	Sample Color	Sample Clarity	Extract Color	Extract Clarity	Due Date	Bottle Number	Trans Date	Trans Bv	Storage	pH	pH >11 <2	HOT BLOCK
L1808-22A	DMW-23BF	50	--	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-23A	DMW-13BF	50	--	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-24A	DMW-23AF	50	--	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-25A	DMW-13AF	50	--	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-26A	DMW-22BF	50	--	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-27A	DMW-22AF	50	--	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K
L1808-28A	DMW-18F	50	--	--	--	--	09/13/12	01	08/30/12	DTC	ICPLab	2	☐	HB-K

David T Camara
Analyst Reviewed
Date: 08/30/2012
Manager Reviewed
Date: 8/30/12

Comments:

QC 8/30/12

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1808

Profile Name: MULTI_SITE

MATRIX Aqueous

Samp #	Bottle	Test	Status	Received	Date
01A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
01A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
02A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
02A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
03A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
03A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
04A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
04A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
05A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
05A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	002	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	002	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	003	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
06A	003	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
07A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
07A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
08A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
08A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
09A	001	SW6010_W	In	LOGIN: adatta	8/24/2012 3:53:00 PM
09A	001	SW7470	In	LOGIN: adatta	8/24/2012 3:53:00 PM
10A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:53:00 PM
10A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:53:00 PM
11A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
11A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
12A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
12A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
13A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
13A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
14A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
14A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1808

Profile Name: MULTI_SITE

MATRIX Aqueous

Samp #	Bottle	Test	Status	Received	Date
15A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
15A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
15A	002	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
15A	002	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
15A	003	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
15A	003	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
16A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
16A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
17A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
17A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
18A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
18A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
19A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
19A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
20A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
20A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
21A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
21A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
22A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
22A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
23A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
23A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
24A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
24A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
25A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
25A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
26A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
26A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
27A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
27A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
28A	001	SW6010_W	In	LOGIN: jwarner	8/27/2012 2:47:00 PM
28A	001	SW7470	In	LOGIN: jwarner	8/27/2012 2:47:00 PM

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