AECOM Environment

Prepared for:
Superfund Standby Program
NYSDEC
Albany, NY

Prepared by:
AECOM
Chestnut Ridge, NY
60277021
July 2013

Groundwater Sampling Report (August 2012 Sampling Event) Dzus Fasteners Site Site #1-52-033 Work Assignment No. D007626-17

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Paul Kareth

Prepared By: Paul Kareth

Robert Montione

Reviewed By: Robert Montione, Quality Assurance Officer

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1.0 Introduction

AECOM Technical Services Northeast, Inc (AECOM) has prepared this Groundwater Monitoring Report for the Dzus Fasteners facility (Site) in West Islip, New York (Site No. 1-52-033). This work was performed for the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment D007626-17. Previous sampling rounds (2006 though 2011) were conducted under Work Assignment D004445-14. This groundwater monitoring report provides the results of the groundwater sampling data collected in August 2012.

AECOM collects groundwater samples from selected monitoring wells and surface water/sediment samples from Willetts Creek and Lake Capri at five-quarter (15 month) intervals as part of the Site's long-term monitoring plan. Four rounds of fish tissue samples were also collected from Lake Capri in July 2006, May 2007, October 2010 and September 2012. Fish tissue data results were documented in separate reports, the most recent of which was submitted in January 2013 for the September 2012 sampling event. Previous groundwater sampling was conducted in June 2006, August 2007, November 2008, March 2010 and May 2011. This report presents the results from the latest round of sampling conducted in August and September 2012.

2.0 Background Information

The Dzus Fasteners Superfund site is located at 425 Union Boulevard, West Islip, Suffolk County, New York (Figure 1). The Site is bounded to the north by railroad tracks and Union Boulevard to the south and east. The Site is bounded to the west by Beach Street and commercial properties. On the southeast side of Union Boulevard is a shopping plaza and southeast of the shopping plaza is Willetts Creek (a Class A surface water body). Willetts Creek flows south, paralleling Everdell Avenue past the Beach Street Middle School and West Islip Senior High School, eventually discharging into Lake Capri approximately 4,500 ft south of the Site.

The Dzus Fastener facility, a manufacturer of fastener and springs since 1932, was responsible for the release of oils, heavy metals, and salts via onsite leaching pools used for the disposal of hazardous waste and formal discharge into Upper Willetts Creek. These operations led to soil and groundwater contamination at the Dzus facility and downstream groundwater, sediment, and surface water contamination of nearby Willetts Creek and Lake Capri, an 8-acre man-made lake.

An initial site inspection took place in August 1983. Contamination was discovered and a preliminary site assessment was completed in September 1984. A phase I investigation was completed and a phase II investigation was submitted by Dzus in August of 1990. Dzus then completed an Interim Remedial Measure (IRM) in October 1990. During the IRM a leach field on the eastern side of the site was removed. A remedial investigation / feasibility study (RI/FS) was initiated at the site in 1992. The site was then broken up into the two Operable Units (OU), OU1, the Dzus facility; and OU2, the offsite localities including Willetts Creek and Lake Capri. A Record of Decision (ROD) for OU1 was issued for the site in March 1995, and a ROD for OU2 was issued for the site in October 1997.

In response to the ROD for OU1, the remedy for contaminated groundwater in the vicinity of the Dzus facility consisted of source removal and ongoing natural attenuation.

The eastern parking lot at the Dzus facility was paved with asphalt to eliminate the potential for direct human contact with the underlying contaminated soils at the site, and to eliminate or reduce the mobility of soil contaminants that would cause further groundwater degradation. The selected remedy consisted of the following:

- In-situ stabilization/solidification for soils containing cadmium at concentrations greater than 10 parts per million (ppm). Three areas on the western portion of the facility were excavated and mixed with the soils to be treated on the eastern portion of the Site;
- Design and installation of a final topsoil/asphalt cover at the eastern portion of the Site, which would protect the treatment cells from erosion;
- Implementation of institutional controls, such as deed restrictions at the Site.

The second operable unit, Operable Unit 2 (OU2) consisted of offsite contamination, including sediment and water contamination of Willetts Creek and Lake Capri. A ROD for OU2 was issued for the Site by NYSDEC in October 1997.

The selected remedy consisted of the following:

- The fish population of Lake Capri was eradicated using Rotenone, a NYSDEC approved fish eradicant, in July 1999 prior to dredging operations;
- Dredging, dewatering and off-site disposal of contaminated sediments from Lake Capri;
- Excavation and off-site disposal of approximately 100 cubic yards of sediment from Willetts Creek, corresponding to levels of cadmium exceeding 9 ppm (currently, the highest effects guidance value);
- Riprap was used to cover portions identified as having deeper zones of contamination in order to prevent future erosion;
- A long-term monitoring program to evaluate the effectiveness of the on-site remedy and to verify that existing groundwater plume does not impact public health or environment; and,
- The lake was restocked with silversides, bluegill (*Lepomis macrochirus*), and largemouth bass (*Microptera salmoides)* after completion of the remedial activities in 2000.

An Operation, Maintenance and Monitoring (OM&M) program for the Site was based on NYSDEC Draft DER-10 – Technical Guidance for Site Investigation and Remediation (December 2002). As part of the OM&M, a long-term monitoring plan (LTMP) was developed for OU1 and OU2 with regard to monitoring of groundwater, surface water, sediment, and the asphalt cover (engineering control) in the manufacturing facility's eastern parking lot. The Final Sampling and Analysis Plan (SAP), dated June 2007, outlines the most recent sample collection procedures.

The primary contaminant of concern at the Site is cadmium, but several other metals including antimony, arsenic, chromium, iron, lead, manganese, sodium, and thallium have been found in exceedance of published standards in soil and groundwater at the Dzus facility and in the water and sediments of nearby Willetts Creek and Lake Capri.

A total of 14 wells and six surface water/sediment sample locations were identified for long term monitoring at the Site (Figure 2).

3.0 Field Activities

Groundwater sampling activities occurred on August 22 and 23, 2012. Surface water and sediment sampling occurred on September 17 and 18, 2012. Sampling was conducted in accordance with the Sampling and Analysis Plan (SAP) prepared by Earth Tech (now AECOM) (June, 2007). At the request of the NYSDEC Project Manager, groundwater samples were collected using low flow techniques during the August 2012 sampling event; previous samples were collected using the volumetric method. 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.

NYSDEC Monitoring Well Field Inspection Logs were prepared for each well and are presented in Appendix A. Monitoring well MW-1 could not be located and according to personnel at the Site was destroyed in December 2007 during snow removal.

3.1 Groundwater Level Survey

A summary of well construction data is presented in Table 1. Prior to the start of sampling, a synoptic round of water levels was collected from the 14 monitoring wells selected for sampling. Groundwater elevation readings were recorded on the Well Sampling Forms. Well Sampling Forms are provided in Appendix B. Groundwater elevation data are presented on Table 2. A groundwater contour map was prepared for the August 20, 2012 synoptic event and is presented on Figure 3. As shown on the figure, the general direction of groundwater flow at the Site is to the south. The gradient was calculated as 0.0009, a very shallow gradient.

3.2 Groundwater Sampling

The 14 wells identified for long term monitoring at the Dzus Site are: MW-1, MW-2, MW-3, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-18, MW-22A, MW-22B, MW-23A and MW-23B. MW-1 was destroyed and could not be sampled. An attempt was made to locate MW-17, located northeast of the Dzus facility (Figure 2), for inclusion in this sampling round. However, this monitoring well could not be located. As a result, 13 of the 14 existing long-term monitoring wells were sampled in August 2012.

Groundwater sampling occurred on August 22 and 23, 2012. During previous sampling events, a Grundfos Redi-Flo 2 submersible pump was used to purge at least three casing volumes of water prior to sampling and samples were collected with dedicated Teflon bailers. At the request of NYSDEC, low-flow sampling techniques were utilized during the August 2012 sampling event. A peristaltic pump with poly tubing was used to purge each monitoring well. The flow rate was set between 200 and 400 mL per minute. At approximately five-minute intervals, drawdown was

measured. A flow cell was used to collect measurements of pH, dissolved oxygen (DO), specific conductance, oxygen reduction potential (ORP), temperature and turbidity. These readings were recorded on the Well Sampling Forms. Once the parameters had stabilized, a sample was collected directly from the discharge line. The sample was placed into laboratory supplied containers and packed in an ice-filled cooler. During this round, filtered metals samples were also collected. Groundwater samples were filtered in the field immediately upon collection using dedicated, disposable 0.45 micron Nalgene filters. Filtered groundwater was then poured into a laboratory supplied container and placed in an ice filled cooler. The samples were then transported to Spectrum Analytical (formerly Mitkem) via the laboratory's courier. Proper chain-of-custody procedures and requirements were maintained throughout the sampling event in accordance with the QAPP.

3.3 Surface Water / Sediment Sampling

Six paired surface water/sediment samples (plus a field duplicate for each matrix) were collected from Lake Capri on September 17 and 18, 2012. A small boat was used to gain access to the lake. Each surface water sample was collected by dipping laboratory-supplied bottles into the lake and then transferring the water to the laboratory supplied preserved bottles. At each surface water location, a co-located sediment sample was also collected. Sediment samples were collected using an Eckman dredge to reach the lake bottom sediments. Excess water was decanted from the sediment sample prior to placement in the sample jars. Sample forms are included in Appendix A.

4.0 Sampling Results

Groundwater, surface water, and sediment samples were analyzed for target analyte list (TAL) metals using USEPA Method 6010/7401/7471. The analyses were performed by Spectrum Analytical (formerly Mitkem) Warwick, Rhode Island, a NYSDOH ELAP certified laboratory (ELAP certification number 11522). As specified in the work plan, formal data validation was not performed; however, an AECOM chemist provided a limited review of the data packages. The data quality evaluation for the Round 6 data is presented in Section 4.4.

4.1 Groundwater Data

Groundwater samples were collected from 13 monitoring wells during the August 2012 sampling event (as noted earlier, well MW-1 has been destroyed). During the first four sampling events, only total metals analyses were performed on the monitoring well samples. During the May 2011 and August 2012 sampling events, samples for both total and dissolved metals analyses were collected from each monitoring well. The laboratory data summary packages are included in Appendix C. A summary of the detections from all six long-term sampling events is presented in Table 3. A summary of the exceedances from all six groundwater sampling events is presented on Figure 4.

Ten metals have been detected at concentrations above their Class GA criteria at least once during the six rounds of groundwater sampling at the Site. These metals include antimony, arsenic, cadmium, chromium, iron, lead, manganese, selenium, sodium, and thallium. Out of these metals, only antimony, cadmium, chromium, iron, manganese, sodium and thallium were detected at concentrations above Class GA criteria in August 2012.

Antimony – Class GA criterion of 3 micrograms per liter (µg/L)

June 2006 – Detected in four of 14 monitoring wells; one exceedance: 3.2 µg/L at MW-23B.

August 2007 – Detected in four of 14 monitoring wells; four exceedances: maximum 7.3 µg/L in MW-2.

November 2008 – Detected in one of 13 monitoring wells; one exceedance: 5.1 µg/L in MW-18.

March 2010 – Detected in seven of 12 monitoring wells; seven exceedances: maximum of 13 in MW-22A.

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

August 2012 – Detected in two of 13 unfiltered monitoring well samples; two exceedances: maximum of 10.7 µg/L in MW-3. Not detected in any of the 13 filtered monitoring well samples.

Arsenic – Class GA criterion of 25 µg/L

June 2006 – Detected in nine of 14 monitoring wells; one exceedance: 32.6 µg/L in MW-9.

August 2007 – Detected in five of 14 monitoring wells; no exceedances.

November 2008 – Detected in two of 13 monitoring wells; no exceedances.

March 2010 – Detected in seven of 12 monitoring wells; no exceedances.

May 2011 – Detected in 7 of 13 unfiltered samples and 5 of 13 filtered samples. No exceedances.

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

Cadmium – Class GA criterion of 5 µg/L

June 2006 – Detected in all 14 monitoring wells; ten exceedances: maximum of 320 µg/L at MW-23B.

August 2007 – Detected in all 14 monitoring wells; ten exceedances: maximum 702 µg/L in MW-23A.

November 2008 – Detected in all 13 monitoring wells: eight exceedances: maximum of 1,080 µg/L in MW-23A.

March 2010 – Detected in 12 of 13 monitoring wells; nine exceedances: maximum of 704 µg/L in MW-23A.

May 2011 – Detected in nine of 13 unfiltered samples; seven exceedances: maximum of 924 µg/L in MW-23A. Detected in six of 13 filtered samples; six exceedances, maximum of 13.1 µg/L in MW-3.

August 2012 – Detected in seven of 13 unfiltered samples; five exceedances: maximum of 93.5 µg/L in MW-13A. Detected in seven of 13 filtered samples; four exceedances, maximum of 64.4 µg/L in MW-13A.

Chromium – Class GA criterion of 50 µg/L

June 2006 – Detected in all 14 monitoring wells; two exceedances: maximum 125 µg/L in MW-9.

August 2007 – Detected all 14 monitoring wells; one exceedance: 62.2 µg/L in MW-9.

November 2008 – Detected in five of 13 monitoring wells; no exceedances.

March 2010 – Detected in all 12 monitoring wells; two exceedances: maximum of 62.7 µg/L in MW-9.

May 2011 – Detected in 12 of 13 unfiltered samples; one exceedance in MW-9 at 85.5 µg/L. Detected in five of 13 filtered samples, no exceedances.

August 2012 – detected in ten of 13 unfiltered samples; no exceedances. Detected in eight of 13 filtered samples; no exceedances.

Iron – Class GA criterion of 300 µg/L

June 2006 – Detected in all 14 monitoring wells; 14 exceedances: maximum 70,400 µg/L in MW-22A.

August 2007 – Detected in all 14 monitoring wells; 13 exceedances: maximum of 29,700 µg/L in MW-23A.

November 2008 – Detected in 12 of 13 monitoring wells; eight exceedances: maximum of 23,300 µg/L in MW-2.

March 2010 – Detected in all 12 monitoring wells; ten exceedances: maximum of 61,100 µg/L in MW-22A.

May 2011 – detected in all 13 unfiltered samples; ten exceedances, maximum of 88,900 µg/L in MW-2. Detected in seven of 12 usable filtered samples; six exceedances, maximum of 17,600 µg/L in MW-2. Note that the reported concentration of 36,100 µg/L in MW-23B is not considered usable (see discussion in Section 4.5).

August 2012 - detected in 11 of 13 unfiltered samples; six exceedances: maximum of 3,690 µg/L in MW-13A. Detected in six of 13 filtered samples; four exceedances: maximum of 2,690 µg/L in MW-22A.

Lead – Class GA criterion of 25 µg/L

June 2006 – Detected in ten of 14 monitoring wells; one exceedance: 35.7 µg/L in MW-23B.

August 2007 – Detected in 13 of 14 monitoring wells; no exceedances.

November 2008 – Detected in eight of 13 monitoring wells; no exceedances.

March 2010 – Detected in ten of 12 monitoring wells; one exceedance: 43.9 µg/L in MW-23B.

May 2011 – Detected in five of 23 unfiltered samples, no exceedances. Detected below the criterion in one filtered sample.

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

Manganese – Class GA criterion of 300 µg/L

June 2006 – Detected in all 14 monitoring wells; ten exceedances: maximum 9,560 µg/L in MW-13A.

August 2007 – Detected in all 14 monitoring wells; 11 exceedances: maximum 8,040 µg/L in MW-13A.

November 2008 – Detected in all 13 monitoring wells; seven exceedances: maximum 16,400 µg/L in MW-13A.

March 2010 – Detected in all 12 monitoring wells; nine exceedances: maximum of 33,900 µg/L in MW-13A.

May 2011 – Detected in all 13 unfiltered samples; eight exceedances, maximum of 61,600 µg/L in MW-13A. Detected in nine of 13 filtered samples; four exceedances, maximum of 1,720 µg/L in MW-13A.

August 2012 – Detected in 12 of 13 unfiltered samples; maximum of 6,190 µg/L in MW-13A. Detected in ten of 13 filtered samples; four exceedances: maximum of 3,430 µg/L in MW-13A.

Selenium – Class GA criterion of 10 µg/L

June 2006 – Detected in four of 14 monitoring wells; no exceedances.

August 2007 – Detected in five of 14 monitoring wells; no exceedances.

November 2008 – Not detected in any of the 13 monitoring wells.

March 2010 – Detected in seven of 12 monitoring wells; seven exceedances: maximum 24.3 µg/L in MW-22A.

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 14 monitoring wells; eight exceedances: maximum 95,200 µg/L in MW-22A.

August 2007 – Detected in all 14 monitoring wells; ten exceedances: maximum 77,500 µg/L in MW-13A.

November 2008 – Detected in all 13 monitoring wells; five exceedances: maximum 43,900 µg/L in MW-15B.

March 2010 – Detected in all 12 monitoring wells; six exceedances: maximum 247,000 µg/L in MW-15B.

May 2011 – Detected in all 13 unfiltered samples; seven exceedances, maximum of 100,000 µg/L in MW-22A. Detected in all 13 filtered samples; seven exceedances, maximum of 134,000 µg/L in MW-22A.

August 2012 - Detected in all 13 unfiltered samples; seven exceedances, maximum of 74,100 µg/L in MW-23A. Detected in all 13 filtered samples; seven exceedances, maximum of 73,400 µg/L in MW-23A.

Thallium – Class GA criterion of 0.5 µg/L

June 2006 – Detected in eight of 14 monitoring wells. Eight exceedances: maximum 44 µg/L in MW-13A.

August 2007 – Detected in four of 14 monitoring wells. Four exceedances: maximum 6.3 µg/L in MW-2.

November 2008 – Detected in one of 13 monitoring wells. One exceedance: 11.7 µg/L in MW-13.

March 2010 – Detected in five of 12 monitoring wells. Five exceedances: maximum 88.2 µg/L in MW-13A.

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

August 2012 – Detected in one of 13 unfiltered samples. One exceedance: 9.2 µg/L in MW-13A. Not detected in any of the 13 filtered samples.

4.2 Filtered versus Unfiltered Metals Groundwater Samples

Concentrations of total metals in groundwater samples at the Site tended to be highly variable between 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, both total metals (unfiltered) and dissolved metals (field filtered) groundwater samples were collected during this sampling event to evaluate the effect of turbidity on the metals concentrations.

The NYSDEC criterion for filtering groundwater samples is provided in DER-10 Section 2.1(g). At the Dzus Fasteners Site, the turbidity was below 50 NTU at the time of sampling in all 13 samples (Table 4). The turbidity was zero NTU in eight samples, and between 27.6 and 41.2 NTU in the other five.

Table 4 presents a comparison of the total metals and the dissolved metals data for the 13 filtered/ unfiltered sample pairs collected at the Dzus Fasteners Site. The “percent dissolved” shown on the table is the ratio of the filtered sample concentration to the total (unfiltered) sample concentration. Where a metal was not detected in the filtered sample, no calculation was made.

It was expected that the concentrations of total metals that are highly associated with particles (e.g., aluminum) would tend to be higher in the more turbid samples;. However, this was not consistently the case. While some of the samples appeared to follow this pattern, there was no clear relationship between turbidity (ranging from 0 to 41.25 NTUs) and total metals concentrations.

Following the same line of reasoning that higher turbidity reflects higher concentrations of suspended sediments, it would be expected that there would be only small differences between the total metals and dissolved metals concentrations in samples with low turbidity. This appeared to be true for most samples (MW-3, MW-13, MW-15, Mw-18, and MW-22 all had less than 5 NTUs with no detectable aluminum in either unfiltered or filtered), with only MW-2 having detectable concentration of aluminum (328 µg/L) with a turbidity of 0 NTU. As expected, wells with higher turbidities had consistently lower concentrations of metals associated with particles in the filtered samples. The only exceptions were metals detected at concentrations below the contract required reporting limit (nickel in samples MW-9, MW-13A, and MW-15B, and zinc in MW-15B).

As expected, concentrations of metals that typically exist primarily in the dissolved phase (sodium, potassium, and calcium) were generally similar in the filtered and unfiltered samples, regardless of the sample turbidity.

4.3 Surface Water Samples

Six surface water samples were collected from Lake Capri and Willetts Creek at the locations shown on Figure 2. A summary of the detections is presented in Table 5. The results were compared to the NYSDEC Class A surface water criteria. The full laboratory data packages for the September 2012 sampling event are included in presented in Appendix C. A summary of the exceedances is presented on Figure 5. Detections and criteria exceedances for the six sampling events are summarized below. During the September 2012 sampling, manganese and sodium exceeded surface water criteria at all locations, and iron exceeded the criterion at SW-5 and SW-6, the two Willetts Creek sampling locations.

Surface water sample SW-1 was collected on the north end of Lake Capri near the mouth of Willetts Creek. Four metals, including antimony, iron, manganese and sodium, were detected at concentrations above the Class A criteria during at least one of the five sampling events.

- Antimony was only detected in the Round 3 sample at a concentration of 6 µg/L, which exceeded the Class A criterion of 3 µg/L.
- Iron was detected in all six samples at concentrations ranging from 172 µg/L to 738 µg/L, five of which exceeded the Class A criterion of 300 µg/L.
- Manganese was detected in all six samples at concentrations ranging from 552 µg/L to 1,610 µg/L, all of which exceeded the criterion of 300 µg/L.
- Sodium detected in all six samples but only exceeded the criterion of 20,000 µg/L during event 4 and 6 (22,500 µg/L and 24,600 µg/L).
- **September 2012 sampling event: exceedances of manganese and sodium.**

Surface water sample SW-2 was collected on the north end of Lake Capri near the mouth of Willetts Creek (south of SW-1). Five metals, including antimony, iron, manganese, sodium and thallium, were detected at concentrations above the Class A criteria during at least one of the five sampling events.

- Antimony was only detected during Round 4 at a concentration of 5.7 µg/L which exceeded the Class A criterion of 3 µg/L.
- Iron was detected in all six samples at concentrations ranging from 176 µg/L to 819 µg/L, five of which exceeded the Class A criterion of 300 µg/L.
- Manganese was detected in all six samples at concentrations ranging from 564 µg/L to 1,560 µg/L, all of which exceeded the criterion of 300 µg/L.
- Sodium was detected in all six samples but only exceeded the 20,000 µg/L criterion during the Round 4 and 6 sampling events (22,000 µg/L and 23,800 µg/L).
- Thallium was only detected during Round 4 at a concentration of 7.2 µg/L which exceeded the criterion of 0.5 µg/L.
- **September 2012 sampling event: exceedances of manganese and sodium.**

Surface water sample SW-3 was collected on the south end of Lake Capri just west of the spillway. Five metals, including antimony, iron, manganese, sodium and thallium were detected at concentrations above the Class A criteria during at least one of the five sampling events.

- Antimony was only detected during Round 4 at a concentration 7.2 µg/L which exceeded the criterion of 3 µg/L.
- Iron was detected in all six samples at concentrations ranging from 144 µg/L to 788 µg/L, four of which exceeded the Class A criterion of 300 µg/L.
- Manganese was detected in all six samples at concentrations ranging from 73.9 µg/L to 1,790 µg/L, five of which (all except Round 2) exceed the criterion of 300 µg/L.

- Sodium was detected during all six sampling events but only exceeded the 20,000 µg/L criterion during the Rounds 4 and 6 (23,300 µg/L and 23,500 µg/L).
- Thallium was only detected during Round 4 at a concentration of 5.9 µg/L which exceeded the criterion of 0.5 µg/L.
- **September 2012 sampling event: exceedances of manganese and sodium.**

Surface water sample SW-4 was collected on the south end of Lake Capri just east of the spillway. Three metals, including iron, manganese and sodium were detected at concentrations above the Class A criteria during at least one of the five sampling events.

- Iron was detected in all six samples at concentrations ranging from 152 µg/L to 741 µg/L, five of which (all except Round 6) exceeded the 300 µg/L criterion.
- Manganese was detected in all six samples at concentrations ranging from 135 µg/L to 1,630 µg/L, five of which (all except Round 2) exceeded the 300 µg/L criterion.
- Sodium was detected in all six samples but only exceeded the 20,000 µg/L criterion during the Round 4 and 6 sampling events (22,900 µg/L and 23,900 µg/L).
- **September 2012 sampling event: exceedances of manganese and sodium.**

Surface water sample SW-5 was collected from Willetts Creek just north of the footbridge behind the middle school. Five metals, including antimony, cadmium, iron, manganese and sodium were detected at concentrations above the Class A criteria during at least one of the five sampling events.

- Antimony was detected during Rounds 1 and 2 at concentrations of 1.5 µg/L and 4.4 µg/L but only the Round 2 concentration exceeded the Class A criterion of 3 µg/L. Antimony was not detected in sampling events 3, 4, 5 or 6.
- Cadmium was detected in all six samples at concentrations ranging from 3 µg/L to 8.8 µg/L, four of which (all except Round 3 and 5) exceeded the Class A criterion of 5 µg/L.
- Iron was detected above the Class A criterion of 300 µg/L during all six sampling events at concentrations ranging from 599 µg/L to 4,080 µg/L.
- Manganese was detected above the Class A criterion of 300 µg/L during all six sampling events at concentrations ranging from 450 µg/L to 1,420 µg/L.
- Sodium was detected during all six sampling events at concentrations ranging from 18,100 µg/L to 28,100 µg/L, five of which (all except Round 3) exceeded the Class A criterion of 20,000 µg/L.
- **September 2012 sampling event: exceedances of iron, manganese and sodium.**

Surface water sample SW-6 was collected from Willetts Creek just south of the Blockbuster Video store in the small shopping center. Six metals, including antimony, cadmium, iron, manganese, selenium and sodium, were detected at concentrations above the Class A criteria during at least one of the five sampling events.

- Antimony was only detected during Round 2 at a concentration of 8 µg/L which exceeded the Class A criterion of 3 µg/L.
- Cadmium was detected during the first three sampling rounds but only exceeded the Class A criterion of 5 µg/L criterion during the Round 3 sampling event at a concentration of 75.4 µg/L.
- Iron (Class A criterion of 300 µg/L) was detected above the criterion during all six sampling events at concentrations ranging from 639 µg/L to 6,840 µg/L.
- Manganese (Class A criterion of 300 µg/L) was detected above the criterion during all six sampling events at concentrations ranging from 406 µg/L to 2,610 µg/L.
- Selenium was only detected during Round 4 at a concentration of 10.5 µg/L, which exceeded the Class A criterion of 10 µg/L.
- Sodium (Class A criterion of 20,000) was detected above the criterion during all six sampling events at concentrations ranging from 20,500 µg/L, 33,800 µg/L.
- **September 2012 sampling event: exceedances of iron, manganese and sodium.**

4.4 Sediment Samples

Six co-located sediment samples were collected at the same locations as the surface water samples as shown on Figure 2. The data presented in Table 6 were compared to the NYSDEC Technical Guidance for Sediment Criteria lowest effects values. The laboratory data summary packages are also included in Appendix C. A summary of the exceedances is presented on Figure 6.

Sample SED-1 was collected on the north end of Lake Capri near the mouth of Willetts Creek. Eleven metals, including antimony, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, and zinc, were detected at concentrations above the guidance values.

- Antimony was detected during four of six sampling events, and the Round 3 (2.2 mg/kg) and Round 4 (6.4 mg/kg) concentrations exceeded the guidance value of 2 mg/kg.
- Arsenic was detected during all six sampling events at concentrations ranging from 1.5 mg/kg to 18.1 mg/kg, five of which (all except Round 2) exceeded the guidance value of 6.0 mg/kg.
- Cadmium exceeded the guidance value of 0.6 mg/kg during all six sampling events at concentrations ranging from 11.6 mg/kg to 89.8 mg/kg.
- Chromium was detected during all six sampling events at concentrations ranging from 2.8 mg/kg to 57.4 mg/kg, four of which exceeded the guidance value of 26 mg/kg.
- Copper was detected above the guidance value of 16 mg/kg during all six sampling events at concentrations ranging from 38.6 mg/kg to 144 mg/kg.
- Iron was detected during all six sampling events at concentrations ranging from 3,880 mg/kg to 44,600 mg/kg, three of which exceeded the guidance value of 20,000 mg/kg.

- Lead was detected during all six sampling events at concentrations ranging from 19.3 mg/kg to 289 mg/kg, five of which (all except Round 2) exceeded the guidance value of 31 mg/kg.
- Manganese was detected during all six sampling events at concentrations ranging from 181 mg/kg to 22,600 mg/kg, five of which (all except Round 3) exceeded the guidance value of 460 mg/kg.
- Mercury was detected during all six sampling events at concentrations ranging from 0.0071 mg/kg to 0.52 mg/kg, five of which (all except Round 2) exceeded the guidance value of 0.15 mg/kg).
- Nickel was detected during all six sampling events at concentrations ranging from 3 mg/kg to 27.3 mg/kg, four of which exceeded the guidance value of 16 mg/kg.
- Zinc was detected during all six sampling events at concentrations ranging from 71.6 mg/kg to 642 mg/kg, five of which (all except Round 2) exceeded the guidance value of 120 mg/kg.
- **September 2012 sampling event: exceedances of arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel and zinc.**

Sample SED-2 was collected on the north end of Lake Capri near the mouth of Willetts Creek, just south of SED-1. Ten metals, including arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, and zinc, were detected at concentrations above the guidance values at least once during the five sampling events.

- Arsenic was detected during all six sampling events at concentrations ranging from 1.8 mg/kg to 20.2 mg/kg, four of which exceeded the guidance value of 6 mg/kg.
- Cadmium was detected above the guidance value of 0.6 mg/kg during all six sampling events at concentrations ranging from 12.5 mg/kg to 133 mg/kg.
- Chromium was detected during all six sampling events at concentrations ranging from 6.5 mg/kg to 49.4 mg/kg, four of which exceeded the guidance value of 26 mg/kg.
- Copper was detected during all six sampling events at concentrations ranging from 15.6 mg/kg to 210 mg/kg, five of which exceeded the guidance value of 16 mg/kg.
- Iron was detected during all six sampling events at concentrations ranging from 3,850 mg/kg to 27,500 mg/kg, three of which exceeded the guidance value of 20,000 mg/kg.
- Lead was detected during all six sampling events at concentrations ranging from 25.8 mg/kg to 408 mg/kg, five of which (all except Round 3) exceeded the guidance value of 31 mg/kg.
- Manganese was detected during all six sampling events at concentrations ranging from 153 mg/kg to 3,790 mg/kg, five of which (all except Round 1) exceeded the guidance value of 460 mg/kg.

- Mercury was detected during all six sampling events at concentrations ranging from 0.18 mg/kg to 0.5 mg/kg, four of which exceeded the guidance value of 0.15 mg/kg.
- Nickel was detected during all six sampling events at concentrations ranging from 3.2 mg/kg to 22 mg/kg, four of which exceeded the guidance value of 16 mg/kg.
- Zinc was detected during all six sampling events at concentrations ranging from 67.9 mg/kg to 526 mg/kg, five of which exceeded the guidance value of 120 mg/kg.
- **September 2012 sampling event: exceedances of arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel and zinc.**

Sample SED-3 was collected on the south end of Lake Capri just west of the spillway. Four metals have been detected above the guidance values including cadmium, copper, lead, and manganese.

- Cadmium was detected above the guidance value of 0.6 mg/kg during all six sampling events at concentrations ranging from of 1.5 mg/kg to 27.7 mg/kg.
- Copper was detected during all six sampling events at concentrations ranging from 2.7 mg/kg to 32.5 mg/kg, three of which exceeded the guidance value of 16 mg/kg.
- Lead was detected during all six sampling events at concentrations ranging from 9.2 mg/kg to 85.9 mg/kg, four of which exceeded the guidance value of 31 mg/kg.
- Manganese was detected during all six sampling events at concentrations ranging from 89.9 mg/kg to 1,090 mg/kg, three of which exceeded the guidance value of 460 mg/kg.
- **September 2012 sampling event: one exceedance of cadmium.**

Sample SED-4 was collected on the south end of Lake Capri just east of the spillway. Seven metals were detected at concentrations that exceed the guidance values including arsenic, cadmium, copper, lead, manganese, mercury, nickel, silver, and zinc.

- Arsenic was detected in all six sampling events at concentrations ranging from 1.9 µg/L to 6.2 µg/L, one of which exceeded the guidance value of 6 µg/L.
- Cadmium was detected above the guidance value of 0.6 mg/kg during all six sampling events at concentrations ranging from 14.8 mg/kg to 79.5 mg/kg.
- Chromium was detected in all six sampling events at concentrations ranging from 6.8 µg/L to 45.4 µg/L, one of which exceeded the criterion of 26 µg/L.
- Copper was detected above the guidance value of 16 mg/kg during all six sampling events at concentrations ranging from 17.1 mg/kg to 117 mg/kg.
- Lead was detected above the guidance value of 31 mg/kg during all six sampling events at concentrations ranging from 60.6 to 297 mg/kg.
- Manganese was detected during all six sampling events at concentrations ranging from 272 mg/kg to 11,700 mg/kg, five of which (all except Round 4) exceeded the guidance value of 460 mg/kg.

- Mercury was detected during all six sampling events at concentrations of 0.21 mg/kg and 0.39 mg/kg, three of which exceeded the guidance value of 0.15 µg/L.
- Silver was only detected during Round 3 at a concentration of 1.1 mg/kg which exceeds the guidance value of 1 mg/kg.
- Zinc was detected during all six sampling events at concentrations ranging from 71.3 mg/kg to 323 mg/kg, four of which exceeded the guidance value of 120 mg/kg.
- **September 2012 sampling event: exceedances of arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel and zinc.**

Sample SED-5 was collected from Willetts Creek approximately 30 feet north of the footbridge behind the middle school. Ten metals have been detected above the guidance values at this location, including arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, and zinc.

- Arsenic was detected during all six sampling events at concentrations ranging from 0.52 mg/kg to 9.3 mg/kg, three of which exceeded the guidance value of 6 mg/kg.
- Cadmium was detected during all six sampling events at concentrations ranging from 0.43 mg/kg to 73.5 mg/kg, five of which (all except Round 1) exceeded the guidance value of 0.6 mg/kg.
- Chromium was detected during all six sampling events at concentrations ranging from 2.7 to 44 mg/kg, but only exceeded the guidance value of 26 mg/kg during Round 3 and 5 at concentrations of 33.3 mg/kg and 44 mg/kg.
- Copper was detected during all six sampling events at concentrations ranging from 4.7 mg/kg to 166 mg/kg, three of which exceeded the guidance value of 16 mg/kg.
- Iron was detected during all six sampling events at concentrations ranging from 3,400 mg/kg to 39,900 mg/kg, three of which exceeded the guidance value of 20,000 mg/kg.
- Lead was detected during all six sampling events at concentrations ranging from 4.9 mg/kg to 229 mg/kg, three of which exceeded the guidance value of 31 mg/kg.
- Manganese was detected during all six sampling events at concentrations ranging from 174 mg/kg to 3,750 mg/kg, three of which exceeded the guidance value of 460 mg/kg.
- Mercury was detected during all six sampling events at concentrations ranging from 0.0055 mg/kg to 0.48 mg/kg, three of which exceeded the guidance value of 0.15 mg/kg.
- Nickel was detected during all six sampling events at concentrations ranging from 1.0 mg/kg to 22.5 mg/kg but only exceeded the guidance value of 16 mg/kg during Rounds 3 and 5 at concentrations of 19.2 mg/kg and 22.5 mg/kg.
- Zinc was detected during all six sampling events at concentrations ranging from 13.2 mg/kg to 440 mg/kg, three of which exceeded the guidance value of 120 mg/kg.
- **September 2012 sampling event: one exceedance of cadmium.**

Sample SED-6 was collected from Willetts Creek just south of the Blockbuster Video store in the small shopping center. Eleven metals were detected above the guidance values at this location, including antimony, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel and zinc.

- Antimony was detected in five of six sampling at concentrations ranging from not detected to 2.6 mg/kg but only exceeded the guidance value of 2 mg/kg during Round 3 at a concentration of 2.6 mg/kg.
- Arsenic was detected during all six sampling events at concentrations ranging from 0.79 mg/kg to 6.4 mg/kg but only exceeded the guidance value of 6 mg/kg during Round 3 at a concentration of 6.4 mg/kg.
- Cadmium was detected during five of the six sampling events at concentrations ranging from not detected to 101 mg/kg but only exceeded the guidance value of 0.6 mg/kg during Round 3 at a concentration of 101 mg/kg. Cadmium was not detected in the Round 5 sample.
- Chromium was detected during all six sampling events at concentrations ranging from 2.4 mg/kg to 41.8 mg/kg but only exceeded the guidance value of 26 during Round 3 at a concentration of 41.8 mg/kg.
- Copper was detected during all six sampling events at concentrations ranging from 6.3 mg/kg to 77.3 mg/kg, three of which exceeded the guidance value of 16 mg/kg.
- Iron was detected during all six sampling events at concentrations ranging from 2,120 to 36,900 mg/kg but only exceeded the guidance value of 20,000 mg/kg during Rounds 3 and 5 at concentrations of 25,600 mg/kg and 36,900 mg/kg.
- Lead was detected during all six sampling events at concentrations ranging from 7.9 mg/kg to 109 mg/kg, two of which exceeded the guidance value of 31 mg/kg.
- Manganese was detected during all six sampling events at concentrations ranging from 16.2 to 978 mg/kg but only exceeded the guidance value of 460 mg/kg during Round 3 at a concentration of 978 mg/kg.
- Mercury was detected in four of the six sampling events. Three samples were less than the guidance value and the Round 3 sample equaled the guidance value of 0.15 mg/kg.
- Nickel was detected during all six sampling events at concentrations ranging from 1.8 mg/kg to 17.2 mg/kg, but only exceeded the guidance value of 16 mg/kg during Round 3 at a concentration of 17.2 mg/kg.
- Zinc was detected during all six sampling events at concentrations ranging from 17.2 mg/kg to 409 mg/kg, but only exceeded the guidance value of 120 mg/kg during Round 3 at a concentration of 409 mg/kg.
- **September 2012 sampling event: no exceedances.**

4.5 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.

Groundwater

Filtered and unfiltered groundwater samples were collected from 13 monitoring wells on August 20 to the 23 and received in good condition by the laboratory (Spectrum Analytical [formerly Mitkem], Warwick RI) on August 24, and 27, 2012, 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 group L1807 and L1808. Samples MW-2, MW5, and MW-12 (filtered) and (unfiltered) were designated as the QC samples (spike and duplicate analysis). Laboratory QC limits were met for holding times, initial and continuing calibrations, blanks, laboratory control sample (LCS) recovery, laboratory spike recovery, and laboratory duplicate recovery. One filtered/unfiltered site-specific field duplicate groundwater sample pair (MW-2U and 2F/MW-52U and 52F) was collected from the Dzus site in Round 6. Precision for the field duplicates (see Table 7) was good. In the unfiltered sample pair (9U/59U), relative percent difference (RPD) ranged from 0.5 to 13. percent except for cobalt (23 percent but was detected well below the reporting limit), , for the 11 detected metals. Precision was very good in the filtered duplicate pair (9F/59F), with RPDs ranging from 0.0 to 9.5 percent for the 10 detected metals.

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 (i.e., the data would be flagged “J”, for estimated), and if the filtered sample result exceeds the unfiltered sample result by more than 50 percent, the data may be unusable (flagged “R”, rejected). There were no exceedances of the 20 percent threshold. There were four exceedances of the 50 percent threshold; however these were all for results that were less than the reporting limit (Ni in MW-9, 13A, and 15B, and Zn in WM-15B).

Surface Water

Surface water samples were collected from six locations (co-located with sediment samples, discussed below) on September 17 and 18 and received in good condition by the laboratory (Spectrum, Warwick RI) on September 19, 2012.

Surface water samples were analyzed for TAL metals as sample delivery group L1949. Sample SW-3 was designated as the QC samples (spike and duplicate analysis). Laboratory QC limits were met for holding times, initial and continuing calibrations, blanks, LCS recovery, laboratory spike recovery, and laboratory duplicate recovery. One site-specific field duplicate pair (SW-2 and SWD) was collected

from in Round 6. Precision for the field duplicate (see Table 8) was good. RPDs ranged from 0.8 to 17.1 percent, , for the 8 detected metals, except for zinc (52 percent) but the value was well below the reporting limit.

Sediment

Sediment samples were collected from six locations (co-located with surface water samples, discussed above) on September 17 and 18 and received in good condition by the laboratory on September 19, 2012.

Sediment samples were analyzed for TAL metals as sample delivery group L1949. Sample SED-1 was designated as the QC samples (spike and duplicate analysis). Laboratory QC limits were met for holding times, initial and continuing calibrations, blanks, and LCS recovery. One site-specific field duplicate pair (SED-2 and FD) was collected from in Round 6, and precision for that sample pair was good (see Table 9),with RPDs ranging from 0.7 to 31 percent, and a median of 8.7 percent. Nineteen of the 22 detected metals were at or below 20percent RPD.

Overall Round 6 Data Quality Assessment

Field and laboratory-reported QC associated with the three Dzus SDGs (L1949 for surface water/sediment, and L1807 & L1808 for groundwater) was good for the groundwater and surface water samples. Laboratory QC was acceptable for the sediment samples. Data quality was good and the data are considered usable for their intended purpose.

5.0 Summary and Recommendations for Future Site Remediation Activities

5.1 Groundwater

The first four sampling events collected only unfiltered groundwater samples. During the Round 5 and Round 6 sampling events, both unfiltered and field filtered samples were collected to determine the percentage of each dissolved metals compared to the total metals.

Cadmium has been detected in the majority of unfiltered samples collected during the six sampling events with exceedances of New York Class GA Groundwater criteria noted in 11 samples during Round 1, ten samples during Round 2, eight samples during Round 3, nine samples in Round 4, seven unfiltered samples during Round 5 and five unfiltered samples in Round 6. Only six filtered samples exceeded the criteria during Round 5, with the highest concentration at 13.3 µg/L (criterion is 5 µg/L). Only four filtered samples exceeded the criterion in Round 6, with the highest concentration noted at MW-13A (64.4 µg/L). The majority of the exceedances are concentrated along the eastern side of the Site in wells MW-3, MW-9, MW-13A, MW-15A, MW-22A, MW-23A, and MW-23B. The majority of the samples (both unfiltered and filtered) collected from these seven wells during the previous six sampling events have exceeded the criterion as shown on Figure 7.

During Round 5, six samples had concentrations of cadmium in both the filtered and unfiltered samples allowing for a comparison of the results. The percent dissolved phase ranged from 1 percent to 50.8 percent. Filtering only changed one result from exceeding the 5 µg/L criterion to less than the criterion. However, the degree of exceedance is significantly lower in the filtered samples, as the filtered sample concentrations exceeding the criterion ranged from 6 to 1 µg/L in the filtered samples. During Round 6, the percent dissolved phase ranged from 10.4 percent to 92.6 percent. Filtering changed one result from exceeding to less than the criterion.

Chromium has been detected in the majority of samples collected at the Site during the six sampling rounds but has only exceeded the 50 µg/L criterion in two wells, MW-9 (four of six samples) and MW-23B (two of six samples). Based on two sets of filtered versus unfiltered data, the percent dissolved in MW-9 was 3.4 and 89.8 percent and in MW-23B was 67.5 and 72.9 percent.

Concentrations of iron, manganese, and sodium have exceeded the criterion in numerous wells but these compounds are typically found in groundwater on Long Island and are most likely representative of background conditions and not Site-related. There have been sporadic exceedances of antimony, arsenic, lead, selenium and thallium but the concentrations and locations of the exceedances have not been replicated during the six sampling events and are most likely a result of entrained sediment in the samples and are not representative of the dissolved groundwater concentrations. The Round 5

and Round 6 filtered sample data suggest that field-measured turbidity is not a good predictor of the fraction of metals detected in a sample which are in the dissolved phase in a sample (i.e., concentration detected in the filtered sample).

The only metal of concern found consistently in off-site wells above the Class GA criteria is cadmium. Dissolved concentrations in off-site wells ranged from 9.7 µg/L at MW-15A (200 ft south of the Site) to 3.3 µg/L in shallow well MW-23A and 33.1 µg/L in deep well MW-23B (approximately 1,200 ft south of the Site). An isoconcentration map of the dissolved cadmium groundwater values from the August 2012 sampling event is shown on Figure 8.

5.2 Surface Water

Seven metals have been detected at concentrations above their Class A Surface Water criteria including antimony, cadmium, iron, manganese, selenium, sodium and thallium.

Antimony has been sporadically detected during the six sampling events in five of six surface water samples, with most detections exceeding the 3 µg/L criterion. However, the exceedances have not been duplicated in any sample. Antimony concentrations do not appear to be Site related.

Cadmium was detected in three of six sampling events in Willetts Creek sample SW-6. However, the only exceedance was during Round 3, which was anomalously high at 75.4 µg/L. Cadmium has not been detected during the last three sampling events in SW-6. Cadmium as detected in all six samples from Willetts Creek sample SED-5, five of which exceeded the criterion. Cadmium was detected in all six rounds in Willetts Creek sample SW-5 and slightly exceeded the criterion in four samples. The highest concentration detected was 8.8 µg/L during Round 5. As noted in Section 4.4, cadmium is present in the co-located sediment samples at SW-5 (4.1 µg/L, just under the 5 µg/L criterion) and SED-5 (slight exceedance at 1.7 mg/kg). It is possible that the cadmium in surface water samples is a result of sediment leaching and not a result of contaminants migrating off-site. Cadmium concentrations did not exceed the criterion in any of the four Lake Capri samples during the six sampling events.

With a few exceptions, iron and manganese were detected in all six surface water samples above the criterion during all six sampling events. This is most likely a result of natural conditions in Willetts Creek and not Site related.

During the six sampling rounds, selenium has been detected twice in two surface water samples with one exceedance. The selenium concentration in Willetts Creek surface water sample SW-6 slightly exceeded the criterion during Round 4.

Sodium concentrations have exceeded the criterion in the two Willetts Creek samples (SW-5 and SW-6) in the majority of the samples. Sodium concentrations in the four Lake Capri samples were below the criterion during rounds 1, 2, 3 and 5 but all four exceeded the criterion during Round 4 and

Round 6. It is probable that the high sodium concentrations noted in Lake Capri during March 2010 were the result of surface water runoff containing high concentrations of road salt.

5.3 Sediments

The sediment sample data indicate that the surficial sediments in Lake Capri and Willetts Creek remain contaminated with metals concentrations above the applicable NYSDEC Technical Guidance for Sediment Criteria. Cadmium has been detected above the lowest effects criterion in 30 of 36 samples collected during the six rounds of sampling and above the highest effects level in 26 of 36 samples as shown on Figure 9. The four lake samples indicate that cadmium is still a contaminant of concern for the lake bottom sediments. The lower Willetts Creek sample (SED-5) indicates that cadmium contamination is still present in the lower reach of the creek. The sediment sample nearest the Site, SED-6, has mostly been below the guidance values.

Copper has been detected above the lowest effects criterion in 24 of 30 samples collected. Of these, six were above the highest effects level. Copper results are shown on Figure 10. The highest concentrations appear to be along the southern end of the lake (SED-1 and SED-2).

Lead has been detected above the lowest effects criterion in 25 of 36 samples collected as shown on Figure 11. Of these, 14 were above the highest effects level. The highest concentrations appear to be along the southern end of the lake (SED-1 and SED-2).

Several other metals including antimony, arsenic, chromium, iron, manganese, mercury, nickel, and zinc, have been detected sporadically at concentrations exceeding the criteria during the five sampling events.

There was a significant increase in the number of metal concentrations that exceeded the criterion in the two Willetts Creek sediment samples collected during Round 3. At upstream sample SED-6, there was one exceedance during Round 1, no exceedances during Round 2, 11 exceedances during Round 3, no exceedances for any metal in Round 4, three exceedances during Round 5 and no exceedances during Round 6. With the exception of the Round 5 iron concentration, the concentrations of metals detected in Rounds 4 and 5 have been much lower than those reported in Round 3, and are generally similar to the concentrations detected in Rounds 1 and 2.

At downstream sample SED-5, there were no exceedances during Round 1, one exceedance in Round 2, ten exceedances during Round 3, eight exceedances in Round 4, ten exceedances in Round 5 and one exceedance during Round 6. The highest concentrations of eight of the ten metals exceeding criteria (all except mercury and manganese) were detected in the Round 5 sample at SED-5. If the sample concentrations in SED-5 are compared to the highest effects level criteria, there are still exceedances of cadmium, copper, iron, lead, manganese and zinc.

5.4 Recommendations

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 why there is so little apparent 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.

Upgradient monitoring well MW-17 could not be located by the field crew during the May 2011 sampling event. Additional effort is needed to locate this well and access it for sampling or to properly abandon it. MW-1 should also be properly abandoned.

Sampling in Willetts Creek and Lake Capri indicated the presence of elevated levels of cadmium in sediment. In order to establish whether previous remedial dredging operations were successful, the creek and lake will be resampled. A two person field crew will walk the entire length of Willetts Creek from Union Boulevard to Lake Capri to survey the condition of the rip rap installed during the site remediation. Sediment samples will be collected approximately every 100 ft to assess cadmium concentrations in the creek (approximately 80 samples). Sediment sample locations will be biased towards depositional areas in the creek. Five east-west transects will be established in Lake Capri to collect samples to assess cadmium concentrations in the lake sediment. The transects will be positioned evenly between the weir on Sunset Boulevard and the mouth of Willetts Creek. Five samples will be collected along each transect. A mass flux calculation will be performed to estimate the amount of cadmium entering the creek via groundwater. The anticipated start date for the field work is March or April 2013, depending on weather conditions.

The next five-quarter sampling event is scheduled for November 2013.

Tables

TABLE 1
DZUS FASTENERS SITE (1-52-033)
WELL CONSTRUCTION DATA

Well Number	Latitude	Longitude	Ground Elevation	Top of Riser Elevation	Top of Casing Elevation	Total Depth of Well
MW-1	40° 42.49	73° 18.10	22.44	22.03	22.44	15.3
MW-2	40° 42.45	73° 18.10	22.16	21.42	22.16	14.3
MW-3	40° 42.49	73° 18.02	20.23	19.71	20.23	15.0
MW-9	40° 42.50	73° 18.02	19.14	18.83	19.14	11.5
MW-9B	40° 42.49	73° 18.01	19.08	18.75	19.08	44.5
MW-13A	40° 42.44	73° 17.100	16.34	16.02	16.34	10.7
MW-13B	40° 42.43	73° 17.99	16.14	15.82	16.14	44.3
MW-15A	40° 42.49	73° 17.97	19.45	19.09	19.45	28.8
MW-15B	40° 42.50	73° 17.96	19.35	19.06	19.35	84.7
MW-17						
MW-18			14.69	14.31	14.66	13.5
MW-22A	40° 42.491	73° 17.941	20.49	20.09	20.49	14.4
MW-22B	40° 42.491	73° 17.941	20.35	19.95	20.35	44.5
MW-23A	40° 42.402	73° 17.991	17.57	17.34	17.57	14.3
MW-23B	40° 42.403	73° 17.987	17.54	17.29	17.54	44.5

Notes:
All elevations and depths are in feet
Vertical datum: on-site benchmark from previous survey.
Latitude / Longitude taken from a previous report
Survey performed by YEC, Inc., on April 18, 2007

TABLE 2
DZUS FASTENERS SITE (1-52-033)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-1	22.03	6/8/06	8.00	14.03	
		8/22/07	8.62	13.41	
		11/11/08	NC		could not be located, damaged during snow removal
		3/10/10	NC		
		5/25/11	NC		
		8/22/12	NC		
MW-2	21.42	6/8/06	8.15	13.27	
		8/22/07	8.50	12.92	
		11/11/08	8.30	13.12	
		3/10/10	7.43	13.99	
		5/25/11	7.77	13.65	
		8/22/12	8.33	13.09	
MW-3	19.71	6/8/06	5.77	13.94	
		8/22/07	6.30	13.41	
		11/11/08	6.25	13.46	
		3/10/10	5.36	14.35	
		5/25/11	5.62	14.09	
		8/22/12	6.23	13.48	
MW-9	18.83	6/8/06	4.59	14.24	
		8/22/07	5.15	13.68	
		11/11/08	5.01	13.82	
		3/10/10	4.19	14.64	
		5/25/11	4.45	14.38	
		8/22/12	5.05	13.78	
MW-9B	18.75	6/8/06	4.50	14.25	
		8/22/07	5.05	13.70	
		11/11/08	4.93	13.82	
		3/10/10	4.11	14.64	
		5/25/11	4.36	14.39	
		8/22/12	5.00	13.75	
MW-13A	16.02	6/8/06	2.59	13.43	
		8/22/07	3.02	13.00	
		11/11/08	2.90	13.12	
		3/10/10	2.27	13.75	
		5/25/11	2.51	13.51	
		8/22/12	2.93	13.09	

TABLE 2
DZUS FASTENERS SITE (1-52-033)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-13B	15.82	6/8/06	2.39	13.43	
		8/22/07	2.85	12.97	
		11/11/08	2.69	13.13	
		3/10/10	2.08	13.74	
		5/25/11	2.32	13.50	
		8/22/12	2.77	13.05	
MW-15A	19.09	6/7/06	5.48	13.61	
		8/22/07	5.80	13.29	
		11/11/08	5.64	13.45	
		3/10/10	4.95	14.14	
		5/25/11	5.15	13.94	
		8/22/12	5.69	13.40	
MW-15B	19.06	6/7/06	5.35	13.71	
		8/22/07	5.70	13.36	
		11/11/08	5.58	13.48	
		3/10/10	NC		unable to access, ACE Hardware
		5/25/11	5.10	13.96	
		8/22/12	5.65	13.41	
MW-17		5/25/11			Could not be located
MW-18	14.31	6/8/06	7.93	6.38	
		8/23/07	5.05	9.26	
		11/11/08	4.98	9.33	
		3/10/10	4.52	9.79	
		5/25/11	4.70	9.61	
		8/22/12	4.92	9.39	
MW-22A	20.09	6/7/06	6.00	14.09	
		8/22/07	6.44	13.65	
		11/11/08	6.38	13.71	
		3/10/10	5.78	14.31	
		5/25/11	5.92	14.17	
		8/22/12	6.45	13.64	
MW-22B	19.95	6/7/06	5.82	14.13	
		8/22/07	6.30	13.65	
		11/11/08	6.20	13.75	
		3/10/10	5.61	14.34	
		5/25/11	5.74	14.21	
		8/22/12	6.28	13.67	

TABLE 2
DZUS FASTENERS SITE (1-52-033)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-23A	17.34	6/7/06	4.59	12.75	
		8/22/07	4.80	12.54	
		11/11/08	4.62	12.72	
		3/10/10	4.16	13.18	
		5/25/11	4.38	12.96	
		8/22/12	5.30	12.04	
MW-23B	17.29	6/7/06	4.51	12.78	
		8/22/07	5.05	12.24	
		11/11/08	4.59	12.70	
		3/10/10	4.06	13.23	
		5/25/11	4.31	12.98	
		8/22/12	4.62	12.67	

Notes:
All measurements in feet from top of casing
Veritcal data NGVD

TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-1		MW-1		MW-1		MW-1		MW-1		MW-1		
Sample ID	Class GA	MW-1		DMW-1		DMW-1		DMW-1		DMW-1		DMW-1		
Laboratory ID	Ground	E0773-05A		F1193-01A		destroyed		destroyed		destroyed		destroyed		
Sample Date	Water	6/8/06		8/22/07		11/11/08		3/10/10		5/25/11		8/22/12		
Filtered/Unfiltered	Criteria	Unfiltered		Unfiltered										
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	
Aluminum	NC	4,180		3,160		NA		NA		NA		NA		
Antimony	3	ND		ND		NA		NA		NA		NA		
Arsenic	25	4.3	B	3.8	B	NA		NA		NA		NA		
Barium	1,000	80.2	B	73.3	B	NA		NA		NA		NA		
Beryllium	3	0.42	B	0.25	B	NA		NA		NA		NA		
Cadmium	5	***23.9***		***5.1***		NA		NA		NA		NA		
Calcium	NC	8,790		7,150		NA		NA		NA		NA		
Chromium	50	8.0	B	5.0	B	NA		NA		NA		NA		
Cobalt	NC	5.1	B	6.9	BE	NA		NA		NA		NA		
Copper	200	18.3	B	16.0	B	NA		NA		NA		NA		
Iron	300	***13,200***		***12,600***		NA		NA		NA		NA		
Lead	25	3.9	B	9.8	B	NA		NA		NA		NA		
Magnesium	35,000	3,010		2,420		NA		NA		NA		NA		
Manganese	300	210		158		NA		NA		NA		NA		
Mercury	0.7	ND		ND		NA		NA		NA		NA		
Nickel	100	8.7	B	8.7	B	NA		NA		NA		NA		
Potassium	NC	1,760		1,680		NA		NA		NA		NA		
Selenium	10	ND		5.4	B	NA		NA		NA		NA		
Silver	50	ND		ND		NA		NA		NA		NA		
Sodium	20,000	***22,500***		***23,100***		NA		NA		NA		NA		
Thallium	0.5	***1.9***	***B***	***5.5***	***B***	NA		NA		NA		NA		
Vanadium	NC	7.8	B	8.2	B	NA		NA		NA		NA		
Zinc	2,000	244		196		NA		NA		NA		NA		

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
N - Matrix spike recovery falls outside of the control limit
NC - No Criteria
ND - Not Detected
NA - Not analyzed
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 3
DZUS FASTENERS SITE (1-52-033)
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-2	MW-2	MW-2	MW-2
Sample ID	Class GA	MW-2	DMW-2	DMW-2	DMW-2	DMW-2	DMW-2	DMW-2	DMW-2F
Laboratory ID	Ground	E0773-10A	F1193-04A	G2114-01	J0429-10A	K0942-01	K0942-02	L1807-19	L1808-15
Sample Date	Water	6/7/06	8/22/07	11/11/08	3/10/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	7,090	1,580	242	3,880 E	1,500	ND	328	ND
Antimony	3	ND	***7.3*** B	ND	***9.4 B***	ND	ND	ND	ND
Arsenic	25	3.9 B	6.3 B	ND	7.7 B	12.4 B	5.0 B	ND	ND
Barium	1,000	96.5 B	212	38.7 B	47.9 B	51.1 B	34.2 B	20.4 B	18.4 B
Beryllium	3	0.4 B	0.71 B	0.27 B	0.51 B	0.33 B	ND	ND	ND
Cadmium	5	4.2 B	***8.6***	2.7 B	***10.4***	ND	ND	ND	ND
Calcium	NC	15,500	28,200	14,500	11,100	38,700	34,500	12,500 E	12,300
Chromium	50	8.8 B	3.1 B	ND	6.8 B	2.2 B	ND	0.73 B	ND
Cobalt	NC	18.3 B	27 BE	13.8 B	9.3 B	11.4 B	7.6 B	1.2 B	1.0 B
Copper	200	19.3 B	8.3 B	12.6 B	34.9	7.9 B	ND	ND	ND
Iron	300	***14,900***	***25,200***	***23,300***	***12,000*** N	***88,900***	***17,600***	***1,590 E***	***1,060***
Lead	25	14.7	4.2 B	5.2 B	6.9 B	7.5 B	ND	ND	ND
Magnesium	35,000	3,740	4,690	2,700	2,810	3,690	3,510	1,850	1,790
Manganese	300	***518***	***989***	***2,150***	***768***	***882***	***655***	124	115
Mercury	0.7	ND	ND	ND	0.084 B	ND	ND	ND	ND
Nickel	100	13.3 B	9.0 B	4.7 B	13.5 B	6.5 B	2.8 B	1.7 B	1.3 B
Potassium	NC	2,140	2,780	1,880	1,450	2,470	2,410	1,440	1,430
Selenium	10	1.4 B	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	***21,500***	***66,200***	18,600	18,200	***25,200***	***24,100***	***24,400 E***	***23,500***
Thallium	0.5	***2.3 B***	***6.3 B***	ND	ND	ND	ND	ND	ND
Vanadium	NC	11.9 B	4.0 B	ND	16.2 B	2.5 B	ND	ND	ND
Zinc	2,000	138	82.8	64.3	109	111	30.5 B	18.4 B	5.2 B

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
N - Matrix spike recovery falls outside of the control limit
NC - No Criteria
ND - Not Detected
NA - Not analyzed
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-3		MW-3		MW-3		MW-3		MW-3		MW-3		MW-3	
Sample ID	Class GA	MW-3		DMW-3		DMW-3		DMW-3		DMW-3		DMW-3		DMW-3F	
Laboratory ID	Ground	E0773-07A		F1193-07A		G2114-04		J0429-11A		K0942-03		K0942-04		L1807-20		L1808-17	
Sample Date	Water	6/8/06		8/22/07		11/11/08		3/10/10		5/25/11		5/25/11		8/22/12		8/22/12	
Filtered/Unfiltered	Criteria	Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Filtered		Unfiltered		Filtered	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	5,650		620		314		2,890	E	8,520		ND		ND		ND	
Antimony	3	ND		ND		ND		***7.2***	***B***	ND		ND		***10.7***	B	ND	
Arsenic	25	2.9	B	ND		ND		3.2	B	7.1	B	6.3	B	ND		ND	
Barium	1,000	90.9	B	37.2	B	28.3	B	35.3	B	59.7	B	20.3	B	29.0	B	28.0	B
Beryllium	3	0.26	B	ND		ND		0.25	B	0.7	B	ND		ND		ND	
Cadmium	5	***77.4***		***74.4***		***70.8***		***98.4***		***73.5***		***13.1***		***16.3***		***15.1***	
Calcium	NC	17,800		17,200		11,800		10,600		11,000		9,750		11,100	E	10,700	
Chromium	50	9.2	B	1.6	B	ND		6.4	B	11.4	B	ND		ND		0.90	B
Cobalt	NC	4.4	B	1.6	BE	ND		2.2	B	4.7	B	ND		ND		ND	
Copper	200	16.1	B	5.4	B	ND		6.8	B	9.7	B	ND		ND		ND	
Iron	300	***4,430***		***649***		253		***3,680***	***N***	***7,430***		ND		50.5	B	ND	
Lead	25	ND		3.8	B	2.7	B	3.9	B	7.5	B	ND		ND		ND	
Magnesium	35,000	4,160		3,820		2,650		2,670		2,890		1,970		2,220		2,180	
Manganese	300	***423***		***301***		262		***553***		***980***		ND		ND		ND	
Mercury	0.7	ND		ND		ND		0.067	B	0.057	B	ND		ND		ND	
Nickel	100	6.8	B	2.1	B	1.6	B	7.4	B	5.0	B	ND		0.92	B	ND	
Potassium	NC	2,630		2,050		1,420		1,500		2,170		1,790		2,420		2,400	
Selenium	10	ND		8.4	B	ND		***10.6***	***B***	ND		ND		ND		ND	
Silver	50	ND		3.5	B	ND		ND		ND		ND		ND		ND	
Sodium	20,000	***27,700***		***31,000***		***25,000***		***20,700***		***20,400***		19,400		***23,400***	***E***	***23,000***	
Thallium	0.5	***2.5***	***B***	ND		ND		ND		ND		ND		ND		ND	
Vanadium	NC	8.1	B	1.1	B	ND		4	B	9.6	B	ND		ND		ND	
Zinc	2,000	87.0		29.4	B	26.2	B	29.0	B	34.0	B	18.9	B	ND		7.1	B

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
N - Matrix spike recovery falls outside of the control limit
NC - No Criteria
ND - Not Detected
NA - Not analyzed
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
Sample ID	Class GA	MW-9	DMW-9	DMW-9	DMW-9	DMW-9	DMW-9	DMW-9	DMW-9F
Laboratory ID	Ground	E0773-09A	F1193-06A	G2114-02	J0429-12A	K0942-05	K0942-06	L1807-21	L1808-19
Sample Date	Water	6/8/06	8/22/07	11/11/08	3/10/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	16,800	3,520	611	2,300 E	2,850	ND	163 B	ND
Antimony	3	ND	ND	ND	ND	ND	ND	***9.5 B***	ND
Arsenic	25	***32.6***	16.2 B	ND	11.4 B	11.5 B	4.9 B	ND	ND
Barium	1,000	102 B	44.7 B	30.2 B	39.2 B	71.0 B	49.2 B	17.8 B	17.0 B
Beryllium	3	0.63 B	ND	0.21 B	0.29 B	0.42 B	ND	ND	ND
Cadmium	5	***32.8***	***22.4***	***15.5***	***17.5***	***18.7***	***9.5***	4.9 B	4.4 B
Calcium	NC	16,000	15,100	10,800	21,900	29,000	25,600	13,900 E	13,700
Chromium	50	***125***	***62.2***	35.3	***62.7***	***85.5***	2.9 B	8.3 B	4.0 B
Cobalt	NC	5.2 B	4.9 BE	1.5 B	2.0 B	2.5 B	ND	ND	ND
Copper	200	62.3	41.4	17.3 B	32.5	41.1	ND	ND	ND
Iron	300	***21,600***	***12,400***	***3,670***	***11,300 N***	***11,600***	***1,760***	***556 E***	ND
Lead	25	11.6	10.6	5.9 B	8.1 B	9.9 B	ND	ND	ND
Magnesium	35,000	3,170	1,550	2,690	4,210	4,110	3,900	3,300	3,220
Manganese	300	151	117	62.6	124	149	15.3 B	ND	ND
Mercury	0.7	ND	ND	ND	0.088 B	ND	ND	ND	ND
Nickel	100	18.3 B	7.3 B	3.3 B	8.0 B	6.5 B	2.4 B	1.4 B	2.3 B
Potassium	NC	3,270	4,830	1,720	3,950	6,310	5,210	1,420	1,390
Selenium	10	2.7 B	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	***25,500***	***52,100***	16,100	***29,100***	***72,800***	***68,700***	***26,300 E***	***25,900***
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	33.1 B	13.4 B	5.5 B	10.4 B	12.8 B	ND	ND	ND
Zinc	2,000	170	73.1	55.9	82.8	90.9	36.6 B	12.9 B	11.8 B

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
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ND - Not Detected
NA - Not analyzed
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TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B
Sample ID	Class GA	MW-9B	DMW-9B	DMW-9B	DMW-9B	DMW-9B	DMW-9B	DMW-9B	DMW-9BF
Laboratory ID	Ground	E0773-08A	F1193-05A	G2114-03	J0429-14A	K0942-07	K0942-08	L1807-22	L1808-18
Sample Date	Water	6/8/06	8/22/07	11/11/08	3/10/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	213	177 B	ND	49.5 BE	99.1 B	ND	ND	ND
Antimony	3	1.8 B	***4.6 B***	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	6.2 B	ND	ND
Barium	1,000	45.5 B	25.5 B	27.1 B	17.1 B	14.4 B	12.8 B	22.2 B	21.1 B
Beryllium	3	ND	ND	ND	0.051 B	ND	ND	ND	ND
Cadmium	5	2.9 B	1.2 B	0.23 B	3.6 B	ND	ND	ND	ND
Calcium	NC	10,800	11,900	8,180	6,950	8,580	8,480	9,300 E	8,330
Chromium	50	2.2 B	3.4 B	ND	2.4 B	1.4 B	ND	0.82 B	ND
Cobalt	NC	2.6 B	1.5 BE	ND	ND	ND	ND	ND	ND
Copper	200	28.8 B	14.8 B	ND	ND	ND	ND	ND	ND
Iron	300	***561***	***429***	134 B	286 N	528	31.8 B	39.5 B	ND
Lead	25	ND	6.0 B	ND	ND	ND	ND	ND	ND
Magnesium	35,000	1,640	1,630	1,330	1,380	1,490	1,430	1,680	1,480
Manganese	300	211	***306***	171	69.5	92.4	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	8.6 B	2.9 B	ND	1.9 B	1.8 B	0.88 B	ND	ND
Potassium	NC	2,140	2,050	1,940	1,950	1,910	1,670	1,800	1,790
Selenium	10	ND	ND	ND	***12.7 B***	ND	ND	ND	ND
Silver	50	ND	2.2 B	ND	ND	ND	ND	ND	ND
Sodium	20,000	8,070	10,100	11,800	7,660	6,730	6,650	***21,400 E***	19,700
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.83 B	ND	ND	ND	ND	ND	ND
Zinc	2,000	83.7	36.0 B	35.3 B	23.3 B	27.1 B	25.4 B	ND	ND

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
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NA - Not analyzed
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits
ND - Not Detected

TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A
Sample ID	Class GA	MW-13A	DMW-13A	DMW-13A	DMW-13A	DMW-13A	DMW-13A	DMW-13A	DMW-13AF
Laboratory ID	Ground	E0773-13A	F1193-14A	F1193-14A	J0429-15A	K0942-17	K0942-18	L1807-15	L1808-25
Sample Date	Water	6/8/06	8/22/07	11/12/08	3/10/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc.	conc.	conc.	conc.	conc.	conc.	conc.
Aluminum	NC	15,000	2,560	258	529 E	2,100	ND	204	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	5.7 B	ND	ND	ND	13.1 B	ND	ND	ND
Barium	1,000	176 B	94.0 B	185 B	605	886	20.5 B	77.9 B	31.4 B
Beryllium	3	0.53 B	ND	ND	0.073 B	ND	ND	ND	ND
Cadmium	5	***174***	***94.1***	***67.7***	***267***	***373***	***10.3***	***93.5***	***64.4***
Calcium	NC	37,900	23,300	19,900	43,700	27,500	24,900	7,850	7,800
Chromium	50	12.9 B	2.7 B	ND	3.9 B	22.1	ND	2.8 B	1.9 B
Cobalt	NC	55.8	45.4 BE	35.4 B	144	268	1.1 B	33.7 B	15.1 B
Copper	200	34.3	ND	ND	17.9 B	20.8 B	ND	6.7 B	ND
Iron	300	***12,700***	***3,490***	***300***	***749 N***	***2,310***	ND	***3,690***	***1,580***
Lead	25	5.7 B	2.5 B	ND	5.3 B	ND	ND	ND	ND
Magnesium	35,000	5,580	3,640	2,630	4,570	3,820	3,340	936	960
Manganese	300	***9,560***	***8,040***	***16,400***	***33,900***	***61,600***	***1,720***	***6,190***	***3,430***
Mercury	0.7	ND	ND	ND	0.063 B	ND	ND	ND	ND
Nickel	100	9.4 B	2.1 B	ND	2.6 B	3.3 B	ND	1.1 B	2.7 B
Potassium	NC	7,430	6,390	3,680	7,510	6,700 E	5,990 E	2,250 E	2,140
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	3.5 B	ND	ND	12.1 B	ND	ND	ND
Sodium	20,000	***94,500***	***77,500***	***21,700***	***247,000***	***38,400***	***37,500***	***47,000***	***46,900***
Thallium	0.5	***44***	ND	***11.7*** B	***88.2***	ND	ND	***9.2*** B	ND
Vanadium	NC	17.6 B	3.7 B	ND	2.7 B	6.4 B	ND	ND	ND
Zinc	2,000	53.3	16.8 B	20.8 B	27.4 B	36.1 B	18.0 B	9.5 B	ND

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
N - Matrix spike recovery falls outside of the control limit
NC - No Criteria
ND - Not Detected
NA - Not analyzed
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-13B	MW-13B	MW-13B	MW-13B	MW-13B	MW-13B	MW-13B	MW-13B
Sample ID	Class GA	MW-13B	DMW-13B	DMW-13B	DMW-13B	DMW-13B	DMW-13B	DMW-13B	DMW-13BF
Laboratory ID	Ground	E0773-14A	F1193-13A	G2114-13	J0429-16A	K0942-19	K0942-20	L1807-27	L1808-23
Sample Date	Water	6/8/06	8/22/07	11/12/08	3/10/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	330	133 B	ND	114 BE	106 B	ND	ND	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	54.3 B	29.0 B	33.4 B	21.5 B	14.4 B	12.6 B	23.1 B	22.4 B
Beryllium	3	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	5	***15***	***9.8***	2.3 B	4.2 B	2.2 B	ND	1.5 B	1.1 B
Calcium	NC	10,700	9,840	11,700	8,880	10,900	10,900	11,300 E	10,600
Chromium	50	27.8	27.2	22.3	17.8 B	11.7 B	10.7 B	21.2	21.4
Cobalt	NC	3.9 B	1.9 BE	ND	ND	ND	ND	ND	ND
Copper	200	19.3 B	13.8 B	ND	ND	6.5 B	ND	ND	ND
Iron	300	***614***	***404***	106 B	286 N	***469***	ND	ND	ND
Lead	25	ND	7.7 B	3.1 B	ND	ND	ND	ND	ND
Magnesium	35,000	1,710	1,600	1,910	1,350	1,560	1,530	1,630	1,550
Manganese	300	***621***	***426***	153	243	148	ND	54.3	19.7 B
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	9.8 B	4.2 B	ND	1.3 B	1.5 B	ND	ND	ND
Potassium	NC	2,410	1,820	2,100	1,570	1,910 E	1,680 E	1,340	1,360
Selenium	10	ND	6.2 B	ND	ND	ND	ND	ND	ND
Silver	50	ND	2.3 B	ND	ND	ND	ND	ND	ND
Sodium	20,000	7,880	6,710	9,280	8,060	6,720	6,880	9,260 E	8,950
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	1.3 B	0.96 B	ND	0.54 B	ND	ND	ND	ND
Zinc	2,000	45.9 B	33.2 B	24.3 B	24.3 B	32.7 B	32.5 B	ND	ND

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
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TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A	MW-15A
Sample ID	Class GA	MW-15A	DMW-15A	DMW-15A	DMW-15A	DMW-15A	DMW-15A	DMW-15A	DMW-15AF
Laboratory ID	Ground	E0773-03A	F1193-15A	G2114-08	J0429-17A	K0942-21	K0942-22	L1807-25	L1808-21
Sample Date	Water	6/7/06	8/22/07	11/12/08	3/9/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	773	ND	ND	335 E	ND	ND	ND	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	53.7 B	15.5 B	20.1 B	30.8 B	23.1 B	16.4 B	15.9 B	15.0 B
Beryllium	3	ND	ND	ND	0.074 B	ND	ND	ND	ND
Cadmium	5	***28.8***	***29.1***	***33.9***	***62.3***	***63***	***12.2***	***16.8***	***9.7***
Calcium	NC	18,900	13,700	12,100	14,800	16,300	16,600	13,500 E	13,400
Chromium	50	3 B	0.45 B	ND	4.6 B	1.3 B	ND	ND	1.2 B
Cobalt	NC	3.2 B	1.3 BE	ND	0.9 B	ND	ND	ND	ND
Copper	200	38	4.8 B	ND	8.4 B	9.8 B	ND	ND	ND
Iron	300	***2,320***	158 B	ND	***1,000 N***	164 B	ND	ND	ND
Lead	25	9.9 B	1.7 B	ND	5.2 B	ND	ND	ND	ND
Magnesium	35,000	3,170	2,240	1,890	2,780	2,410	2,380	2,460	2,440
Manganese	300	***370***	***929***	***895***	***2,850***	***1,510***	56	238	41.1 B
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	7.1 B	0.85 B	ND	3.6 B	1.7 B	ND	ND	1.1 B
Potassium	NC	2,090	1,960	1,610	2,140	2,290 E	2,290 E	2,110	2,230
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	3.4 B	ND	ND	ND	ND	ND	ND
Sodium	20,000	18,000	13,300	9,040	17,100	19,500	19,800	***20,400 E***	***20,400***
Thallium	0.5	***1.9 B***	ND	ND	***7.3 B***	ND	ND	ND	ND
Vanadium	NC	2.6 B	ND	ND	0.69 B	ND	ND	ND	ND
Zinc	2,000	155	18.8 B	24.3 B	33.5 B	31.7 B	25.9 B	ND	ND

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TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-15B	MW-15B	MW-15B	MW-15B	MW-15B	MW-15B	MW-15B	MW-15B
Sample ID	Class GA	MW-15B	DMW-15B	DMW-15B	DMW-15B	DMW-15B	DMW-15B	DMW-15B	DMW-15BF
Laboratory ID	Ground	E0773-04A	F1193-10A	G2114-07	Inaccessible	K0942-23	K0942-24	L1807-24	L1808-20
Sample Date	Water	6/7/06	8/22/07	11/12/08	3/10/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	224	58.6 B	ND	NA	ND	ND	ND	ND
Antimony	3	ND	ND	ND	NA	ND	ND	ND	ND
Arsenic	25	1.7 B	ND	ND	NA	5.5 B	4.8 B	ND	4.3 B
Barium	1,000	83.6 B	40.6 B	45.0 B	NA	34.6 B	34.4 B	32.4 B	29.4 B
Beryllium	3	ND	ND	0.19 B	NA	ND	ND	ND	ND
Cadmium	5	3.6 B	0.54 B	0.29 B	NA	ND	ND	ND	ND
Calcium	NC	16,400	13,700	13,700	NA	12,000	11,900	12,200 E	11,500
Chromium	50	2.1 B	0.56 B	ND	NA	ND	ND	ND	ND
Cobalt	NC	5.5 B	2.7 BE	1.9 B	NA	1.4 B	1.2 B	1.5 B	1.4 B
Copper	200	20.4 B	2.5 B	ND	NA	ND	ND	ND	18.1 B
Iron	300	***4,780***	***1,320***	***875***	NA	***1,410***	***1,130***	***1,510 E***	48.4 B
Lead	25	3.3 B	ND	3.6 B	NA	ND	ND	ND	ND
Magnesium	35,000	5,930	5,290	5,240	NA	4,860	4,920	4,700	4,490
Manganese	300	239	228	267	NA	182	182	189	174
Mercury	0.7	ND	ND	ND	NA	ND	ND	ND	ND
Nickel	100	11.5 B	1.4 B	2.2 B	NA	1.9 B	2.0 B	1.5 B	2.7 B
Potassium	NC	2,450	1,500	1,980	NA	1,890 E	1,860 E	1,470	1,510
Selenium	10	ND	ND	ND	NA	ND	ND	ND	ND
Silver	50	ND	2.5 B	1.0 B	NA	ND	ND	ND	ND
Sodium	20,000	***46,600***	***45,200***	***43,900***	NA	***40,600***	***40,600***	***40,800 E***	***39,100***
Thallium	0.5	***3.0 B***	ND	ND	NA	ND	ND	ND	ND
Vanadium	NC	0.72 B	ND	ND	NA	ND	ND	ND	ND
Zinc	2,000	129	16.8 B	38.9 B	NA	37.3 B	33.7 B	12.1 B	23.7 B

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TABLE 3
DZUS FASTENERS SITE (1-52-033)
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	
Sample ID	Class GA	MW-18		DMW-18		DMW-18		DMW-18		DMW-18		DMW-18		DMW-18F	
Laboratory ID	Ground	E0773-06A		F1193-16A		G2114-06		J0429-18A		K0942-25		K0942-26		L1807-18		L1808-28	
Sample Date	Water	6/8/06		8/23/07		11/11/08		3/9/10		5/25/11		5/25/11		8/23/12		8/23/12	
Filtered/Unfiltered	Criteria	Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Filtered		Unfiltered		Filtered	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	1,430		829		88.1	B	2,270		3,280		ND		ND		ND	
Antimony	3	ND		ND		***5.1***	B	***12.2***	B	ND		ND		ND		ND	
Arsenic	25	ND		ND	U	ND		5.9	B	7.0	B	ND		ND		ND	
Barium	1,000	168	B	71.3	B	166	B	283		109	B	13.4	B	19.7	B	17.0	B
Beryllium	3	ND		ND		ND		0.31	B	0.29	B	ND		ND		ND	
Cadmium	5	3	B	1.2	B	***9.8***		***18.1***		1.3	B	ND		ND		ND	
Calcium	NC	13,900		9,790		12,600		27,000		19,000		18,400		14,000		14,300	
Chromium	50	2.2	B	0.63	B	ND		5	B	3.9	B	ND		0.75	B	ND	
Cobalt	NC	7.3	B	5.5	BE	2.0	B	11.6	B	9.2	B	ND		ND		ND	
Copper	200	17.7	B	3.5	B	11.1	B	112		12.2	B	ND		ND		ND	
Iron	300	***1,150***		***1,320***		114	B	***4,620***		***2,890***		ND		35.3	B	ND	
Lead	25	ND		1.9	B	ND		19		ND		ND		ND		ND	
Magnesium	35,000	2,340		1,550		2,440		4,130		3,300		3,070		2,360		2,410	
Manganese	300	***6,270***		***4,490***		***2,870***		***10,100***	*	***3,450***		ND		113		23.4	B
Mercury	0.7	ND		ND		ND		ND		ND		ND		ND		ND	
Nickel	100	17.5	B	13.0	B	29.3	B	48.0	BE	15.7	B	ND		ND		ND	
Potassium	NC	1,520		1,180		1,540		4,120	E	2,050	E	1,860	E	2,310	E	2,410	
Selenium	10	ND		ND		ND		***16.4***	***B***	ND		ND		ND		ND	
Silver	50	ND		1.5	B	ND		ND		ND		ND		ND		ND	
Sodium	20,000	7,870		6,020		12,100		10,600		16,800		17,300		17,900		18,700	
Thallium	0.5	***26.5***		ND		ND		***64.5***		ND		ND		ND		ND	
Vanadium	NC	2.6	B	1.4	B	ND		5.0	B	3.9	B	ND		ND		ND	
Zinc	2,000	235		89.0		265		366		192		22.2	B	ND		ND	

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TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A	MW-22A
Sample ID	Class GA	MW-22A	DMW-22A	DMW-22A	DMW-22A	DMW-22A	DMW-22A	DMW-22A	DMW-22AF
Laboratory ID	Ground	E0773-11A	F1193-09A	G2114-09	J0429-19A	K0942-11	K0942-12	L1807-17	L1808-27
Sample Date	Water	6/7/06	8/22/07	11/12/08	3/9/10	5/25/11	5/25/11	8/23/12	8/23/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	4,320	2,870	2,620	1,060	159 B	ND	ND	ND
Antimony	3	1.7 B	***5.2 B***	ND	***13.0 B***	ND	ND	ND	ND
Arsenic	25	16.0 B	3.8 B	7.2 B	15.4 B	7.5 B	4.5 B	ND	ND
Barium	1,000	167 B	76.9 B	69.6 B	109 B	106 B	111 B	36.1 B	37.8 B
Beryllium	3	0.15 B	ND	0.21 B	0.19 B	ND	ND	ND	ND
Cadmium	5	***38.9***	***22.1***	***13.5***	***13.7***	***6.8***	ND	ND	ND
Calcium	NC	52,100	37,500	55,700	104,000	114,000	96,400	27,600	28,200
Chromium	50	18.0 B	12.8 B	13.0 B	8.8 B	2.8 B	0.76 B	2.2 B	1.7 B
Cobalt	NC	2.2 B	5.2 BE	ND	1.4 B	ND	ND	ND	ND
Copper	200	32.3	24.0 B	19.3 B	21.5 B	7.9 B	ND	ND	ND
Iron	300	***70,400***	***22,400***	***22,000***	***61,100***	***16,700***	***2,260***	***2,700***	***2,690***
Lead	25	8.6 B	13.1	11.3	12.4	ND	ND	ND	ND
Magnesium	35,000	8,300	5,580	7,860	13,800	15,600	13,100	4,060	4,210
Manganese	300	***1,280***	***1,190***	***1,030***	***912*** *	***683***	***780***	***437***	***443***
Mercury	0.7	ND	ND	ND	0.094 B	ND	ND	ND	ND
Nickel	100	6.0 B	3.7 B	2.6 B	4.7 BE	2.4 B	1.4 B	ND	ND
Potassium	NC	4,560	3,530	3,980	3,430 E	4,520 E	5,120 E	2,980 E	3,040
Selenium	10	8.7 B	ND	ND	***24.3 B***	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	***95,200***	***69,400***	***39,900***	***57,800***	***100,000***	***134,000***	***59,700***	***61,000***
Thallium	0.5	ND	***2.8 B***	ND	ND	ND	ND	ND	ND
Vanadium	NC	17.4 B	9.2 B	7.0 B	6.3 B	3.1 B	ND	ND	ND
Zinc	2,000	1,650	1,170	714	1,360	1,000	546	16.9 B	16.1 B

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DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-22B	MW-22B	MW-22B	MW-22B	MW-22B	MW-22B	MW-22B	MW-22B
Sample ID	Class GA	MW-22B	DMW-22B	DMW-22B	DMW-22B	DMW-22B	DMW-22B	DMW-22B	DMW-22BF
Laboratory ID	Ground	E0773-12A	F1193-08A	G2114-11	J0429-20A	k0942-13	k0942-13	L1807-16	L1808-26
Sample Date	Water	6/7/06	8/22/07	11/12/08	3/9/10	5/25/11	5/25/11	8/23/12	8/23/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	763 B	151 B	ND	56.3 B	ND	ND	ND	ND
Antimony	3	ND	***4.7 B***	ND	***8.7 B***	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1,000	76.6 B	48.2 B	41.3 B	57.6 B	43.3 B	35.6 B	39.6 B	40.5 B
Beryllium	3	ND	ND	ND	0.039 B	ND	ND	ND	ND
Cadmium	5	***29.0*** B	4.4 B	1.2 B	1.7 B	ND	ND	ND	ND
Calcium	NC	12,800	20,400	27,200	21,400	19,500	19,700	22,400	22,500
Chromium	50	7.9 B	1.5 B	ND	1.6 B	0.66 B	ND	ND	ND
Cobalt	NC	17.4 B	3.9 BE	1.5 B	1.0 B	ND	ND	ND	ND
Copper	200	118 B	4.0 B	ND	ND	ND	ND	ND	ND
Iron	300	***4,600***	***1,120***	***518***	***358***	164 B	ND	110 B	ND
Lead	25	8.6 B	3 B	2.4 B	3.3 B	ND	ND	ND	ND
Magnesium	35,000	2,660 B	3,130	5,090	3,510	3,230	3,300	3,860	3,950
Manganese	300	***2,310***	***2,440***	***775***	***940*** *	***589***	***342***	***748***	***726***
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	28.0 B	2.7 B	6.5 B	2.0 BE	0.85 B	ND	ND	ND
Potassium	NC	3,000 B	2,500	1,910	4,220 E	4,740 E	4,260 E	4,470 E	4,270
Selenium	10	ND	ND	ND	***19.0 B***	ND	ND	ND	ND
Silver	50	ND	4.2 B	ND	ND	ND	ND	ND	ND
Sodium	20,000	8,170 B	17,100	11,300	14,400	12,700	13,600	19,200	19,000
Thallium	0.5	***20.1*** B	***3.5 B***	ND	ND	ND	ND	ND	ND
Vanadium	NC	ND	0.49 B	ND	ND	ND	ND	ND	ND
Zinc	2,000	194 B	39.4 B	29.8 B	34.6 B	20.1 B	17.6 B	5.7 B	ND

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JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-23A	MW-23A	MW-23A	MW-23A	MW-23A	MW-23A	MW-23A	MW-23A
Sample ID	Class GA	MW-23A	DMW-23A	DMW-23A	DMW-23A	DMW-23A	DMW-23A	DMW-23A	DMW-23AF
Laboratory ID	Ground	E0773-01A	F1193-12A	G2114-14	J0429-21A	K0942-15	K0942-16	L1807-28	L1808-24
Sample Date	Water	6/7/06	8/22/07	11/12/08	3'10/10	5/25/11	5/25/11	8/22/12	8/22/12
Filtered/Unfiltered	Criteria	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered	Unfiltered	Filtered
		conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	941	2,440	3,200	3,790	5,060	ND	161 B	ND
Antimony	3	1.8 B	***5.8 B***	ND	***9.5 B***	ND	ND	ND	ND
Arsenic	25	2.0 B	4.1 B	5.8 B	7.9 B	7.4 B	ND	ND	ND
Barium	1,000	87.5 B	51.2 B	40.1 B	47.8 B	47.4 B	34.6 B	28.0 B	27.3 B
Beryllium	3	ND	ND	0.29 B	0.23 B	ND	ND	ND	ND
Cadmium	5	***110***	***702***	***1,080***	***704***	***924***	***9.5***	***31.7***	3.3 B
Calcium	NC	34,200	40,900	31,000	38,600	29,300	27,800	26,700 E	26,400
Chromium	50	3.6 B	4.9 B	3.6 B	6.4 B	6.4 B	0.97 B	1.2 B	4.0 B
Cobalt	NC	3.2 B	6.1 BE	ND	0.76 B	ND	ND	ND	ND
Copper	200	33.2	35.9	47.6	137	190	ND	6.7 B	ND
Iron	300	***10,300***	***29,700***	***13,100***	***11,500***	***15,200***	***2,030***	***1,860 E***	***602***
Lead	25	ND	6.6 B	9.5 B	11.2	5.6 B	ND	ND	ND
Magnesium	35,000	6,660	6,280	9,020	8,010	5,160	5,100	4,950	4,750
Manganese	300	***1,100***	***612***	***1,390***	***1,410 ****	***1,600***	***1,480***	***1,110***	***1,170***
Mercury	0.7	0.065 B	ND	ND	0.12 B	0.035 B	ND	ND	ND
Nickel	100	9.3 B	7.1 B	2.2 B	6.3 BE	3.7 B	1.2 B	ND	2.0 B
Potassium	NC	7,070	5,200	6,780	6,930 E	6,270 E	6,420 E	5,770	5,790
Selenium	10	1.3 B	6.1 B	ND	***13.5 B***	ND	ND	ND	ND
Silver	50	0.92 B	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	***60,200***	***32,400***	***37,800***	***64,600***	***67,900***	***70,800***	***74,100 E***	***73,400***
Thallium	0.5	***9.3*** B	ND	ND	***11.3 B***	ND	ND	ND	ND
Vanadium	NC	5.5 B	12.6 B	20.5 B	11.4 B	16.4 B	ND	1.1 B	ND
Zinc	2,000	181	26.9 B	42.7 B	48.3 B	70.5	15.6 B	ND	5.9 B

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
N - Matrix spike recovery falls outside of the control limit
NC - No Criteria
ND - Not Detected
NA - Not analyzed
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 3
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH AUGUST 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-23B		MW-23B		MW-23B		MW-23B		MW-23B		MW-23B		MW-23B		MW-23B	
Sample ID	Class GA	MW-23B		DMW-23B		DMW-23B		DMW-23B		DMW-23B		DMW-23B		DMW-23B		DMW-23BF	
Laboratory ID	Ground	E0773-02A		F1193-11A		G2114-15		J0429-22A		K0942-27		K0942-28		L1807-26		L1808-22	
Sample Date	Water	6/7/06		8/22/07		11/12/08		3/10/10		5/25/11		5/25/11		8/22/12		8/22/12	
Filtered/Unfiltered	Criteria	Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Filtered		Unfiltered		Filtered	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	2,450		632		406		2,820		1,810		ND		103	B	ND	
Antimony	3	***3.2***	***B***	ND		ND		***6.2***	***B***	ND		ND		ND		ND	
Arsenic	25	4.1	B	ND		ND		6.7	B	ND		ND		ND		ND	
Barium	1,000	215		86.4	B	64.6	B	77.4	B	64.8	B	150	B	29.0	B	26.8	B
Beryllium	3	0.21	B	ND		0.13	B	0.3	B	ND		ND		ND		ND	
Cadmium	5	***320***		***60.0***		***42.2***		***43.8***		***40.1***		***5.8***		***69.6***		***33.1***	
Calcium	NC	21,500		25,100		15,700		24,400		24,800		21,700		18,100	E	17,700	
Chromium	50	***74.9***		13.9	B	4.3	B	***61.6***		12.6	B	8.5	B	10.7	B	7.8	B
Cobalt	NC	4.8	B	2.4	BE	ND		3.5	B	1.7	B	0.91	B	ND		ND	
Copper	200	94.6		19.8	B	24.6	B	54.8		25.6	B	13.9	B	4.1	B	ND	
Iron	300	***8,220***		***2,140***		***1,270***		***7,870***		***5,200***		***36,100***		279	E	117	B
Lead	25	***35.7***		10.3		17.7		***43.9***		22.6		ND		ND		ND	
Magnesium	35,000	1,890		1,290		1,590		2,730		4,150		2,460		2,950		2,910	
Manganese	300	***548***		***508***		52.1		***398***	*	126		169		138		135	
Mercury	0.7	0.11	B	ND		ND		0.11	B	ND		ND		ND		ND	
Nickel	100	68.8		16.7	B	20.5	B	23.2	BE	14.8	B	10	B	2.4	B	1.3	B
Potassium	NC	2,400		1,970		1,660		1,650	E	2,450	E	2,110	E	1,760		1,820	
Selenium	10	ND		8.6	B	ND		***19.3***	***B***	ND		ND		ND		ND	
Silver	50	ND		5.0	B	0.81	B	ND		ND		ND		ND		ND	
Sodium	20,000	2,390		3,870		2,200		***84,400***		18,900		18,500		15,000	E	14,700	
Thallium	0.5	***3.1***	***B***	ND		ND		***6.1***	***B***	ND		ND		ND		ND	
Vanadium	NC	17.7	B	9.0	B	5.9	B	12.1	B	12.9	B	ND		ND		ND	
Zinc	2,000	417		145		198		376		410		47	B	17.7	B	ND	

Notes: All values in µg/L
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
N - Matrix spike recovery falls outside of the control limit
NC - No Criteria
ND - Not Detected
NA - Not analyzed
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 4
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 SAMPLING EVENT
TOTAL VERSUS DISSOLVED METALS CONCENTRATIONS IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-9	MW-9	MW-9
Sample ID	Class GA	DMW-2	DMW-2F		DMW-3	DMW-3F		DMW-9	DMW-9F	
Laboratory ID	Ground	L1807-19	L1808-15		L1807-20	L1808-17		L1807-21	L1808-19	
Sample Date	Water	8/22/12	8/22/12		8/22/12	8/22/12		8/22/12	8/22/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
Metal		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	328	ND	NC	ND	ND	NC	163 B	ND	NC
Antimony	3	ND	ND	NC	***10.7 B***	ND	NC	***9.5 B***	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Barium	1,000	20.4 B	18.4 B	90.2%	29.0 B	28.0 B	96.6%	17.8 B	17.0 B	95.5%
Beryllium	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	***16.3***	***15.1***	92.6%	4.9 B	4.4 B	89.8%
Calcium	NC	12,500 E	12,300	98.4%	11,100 E	10,700	96.4%	13,900 E	13,700	98.6%
Chromium	50	0.73 B	ND	NC	ND	0.9 B	NC	8.3 B	4.0 B	48.2%
Cobalt	NC	1.2 B	1 B	83.3%	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC	ND	ND	NC
Iron	300	***1,590 E***	***1,060***	66.7%	50.5 B	ND	NC	***556 E***	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Magnesium	35,000	1,850	1,790	96.8%	2,220	2,180	98.2%	3,300	3,220	97.6%
Manganese	300	124	115	92.7%	ND	ND	NC	ND	ND	NC
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	1.7 B	1.3 B	76.5%	0.92 B	ND	NC	1.4 B	2.3 B	164.3%
Potassium	NC	1,440	1,430	99.3%	2,420	2,400	99.2%	1,420	1,390	97.9%
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	***24,400 E***	***23,500***	96.3%	***23,400 E***	***23,000***	98.3%	***26,300*** E	***25,900***	98.5%
Thallium	0.5	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	18.4 B	5.2 B	28.3%	ND	7.1 B	NC	12.9 B	11.8 B	91.5%
Turbidity	50 NTU	0.0			0.0			34.1		

Notes: ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
NC - both filtered and unfiltered result was "not detected"
BOLD/Italics - exceeds criterion

TABLE 4
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 SAMPLING EVENT
TOTAL VERSUS DISSOLVED METALS CONCENTRATIONS IN GROUNDWATER

Sample Location	NYSDEC	MW-9B	MW-9B	MW-9B	MW-13A	MW-13A	MW-13A	MW-13B	MW-13B	MW-13B
Sample ID	Class GA	DMW-9B	DMW-9BF		DMW-13A	DMW-13AF		DMW-13B	DMW-13BF	
Laboratory ID	Ground	L1807-22	L1808-18		L1807-15	L1808-25		L1807-27	L1808-23	
Sample Date	Water	8/22/12	8/22/12		8/22/12	8/22/12		8/22/12	8/22/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
Metal		conc. Q	conc. Q	Dissolved	conc.	conc.	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	ND	ND	NC	204	ND	NC	ND	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	22.2 B	21.1 B	95.0%	77.9 B	31.4 B	40.3%	23.1 B	22.4 B	97.0%
Beryllium	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	***93.5***	***64.4***	68.9%	1.5 B	1.1 B	73.3%
Calcium	NC	9,300 E	8,330	89.6%	7,850	7,800	99.4%	11,300 E	10,600	93.8%
Chromium	50	0.82 B	ND	NC	2.8 B	1.9 B	67.9%	21.2	21.4	100.9%
Cobalt	NC	ND	ND	NC	33.7 B	15.1 B	44.8%	ND	ND	NC
Copper	200	ND	ND	NC	6.7 B	ND	NC	ND	ND	NC
Iron	300	39.5 B	ND	NC	***3,690***	***1,580***	42.8%	ND	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Magnesium	35,000	1,680	1,480	88.1%	936	960	102.6%	1,630	1,550	95.1%
Manganese	300	ND	ND	NC	***6,190***	***3,430***	55.4%	54.3	19.7 B	36.3%
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	ND	ND	NC	1.1 B	2.7 B	245.5%	ND	ND	NC
Potassium	NC	1,800	1,790	99.4%	2,250 E	2,140	95.1%	1,340	1,360	101.5%
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	***21,400 E***	19,700	92.1%	***47,000***	***46,900***	99.8%	9,260 E	8,950	96.7%
Thallium	0.5	ND	ND	NC	***9.2 B***	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	ND	ND	NC	9.5 B	ND	NC	ND	ND	NC
Turbidity	50 NTU	27.6			41.2			0.0		

Notes: ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
NC - both filtered and unfiltered result was "not detected"
BOLD/Italics - exceeds criterion

TABLE 4
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 SAMPLING EVENT
TOTAL VERSUS DISSOLVED METALS CONCENTRATIONS IN GROUNDWATER

Sample Location	NYSDEC	MW-15A	MW-15A	MW-15A	MW-15B	MW-15B	MW-15B	MW-18	MW-18	MW-18
Sample ID	Class GA	DMW-15A	DMW-15AF		DMW-15B	DMW-15BF		DMW-18	DMW-18F	
Laboratory ID	Ground	L1807-25	L1808-21		L1807-24	L1808-20		L1807-18	L1808-28	
Sample Date	Water	8/22/12	8/22/12		8/22/12	8/22/12		8/23/12	8/23/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
Metal		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	4.3 B	NC	ND	ND	NC
Barium	1,000	15.9 B	15.0 B	94.3%	32.4 B	29.4 B	90.7%	19.7 B	17.0 B	86.3%
Beryllium	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Cadmium	5	***16.8***	***9.7***	57.7%	ND	ND	NC	ND	ND	NC
Calcium	NC	13,500 E	13,400	99.3%	12,200 E	11,500	94.3%	14,000	14,300	102.1%
Chromium	50	ND	1.2 B	NC	ND	ND	NC	0.75 B	ND	NC
Cobalt	NC	ND	ND	NC	1.5 B	1.4 B	93.3%	ND	ND	NC
Copper	200	ND	ND	NC	ND	18.1 B	NC	ND	ND	NC
Iron	300	ND	ND	NC	***1,510 E***	48.4 B	3.2%	35.3 B	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC	ND	ND	NC
Magnesium	35,000	2,460	2,440	99.2%	4,700	4,490	95.5%	2,360	2,410	102.1%
Manganese	300	238	41.1 B	17.3%	189	174	92.1%	113	23.4 B	20.7%
Mercury	0.7	ND	ND	NC	ND	ND	NC	ND	ND	NC
Nickel	100	ND	1.1 B	NC	1.5 B	2.7 B	180.0%	ND	ND	NC
Potassium	NC	2,110	2,230	105.7%	1,470	1,510	102.7%	2,310 E	2,410	104.3%
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	***20,400 E***	***20,400***	100.0%	***40,800 E***	***39,100***	95.8%	17,900	18,700	104.5%
Thallium	0.5	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	ND	ND	NC	12.1 B	23.7 B	195.9%	ND	ND	NC
Turbidity	50 NTU	0.0			32.3			0.0		

Notes: ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
NC - both filtered and unfiltered result was "not detected"
BOLD/Italics - exceeds criterion

TABLE 4
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 SAMPLING EVENT
TOTAL VERSUS DISSOLVED METALS CONCENTRATIONS IN GROUNDWATER

Sample Location	NYSDEC	MW-22A	MW-22A	MW-22A	MW-22B	MW-22B	MW-22B
Sample ID	Class GA	DMW-22A	DMW-22AF		DMW-22B	DMW-22BF	
Laboratory ID	Ground	L1807-17	L1808-27		L1807-16	L1808-26	
Sample Date	Water	8/23/12	8/23/12		8/23/12	8/23/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
Metal		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	ND	ND	NC	ND	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	36.1 B	37.8 B	104.7%	39.6 B	40.5 B	102.3%
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	ND	ND	NC	ND	ND	NC
Calcium	NC	27,600	28,200	102.2%	22,400	22,500	100.4%
Chromium	50	2.2 B	1.7 B	77.3%	ND	ND	NC
Cobalt	NC	ND	ND	NC	ND	ND	NC
Copper	200	ND	ND	NC	ND	ND	NC
Iron	300	***2,700***	***2,690***	99.6%	110 B	ND	NC
Lead	25	ND	ND	NC	ND	ND	NC
Magnesium	35,000	4,060	4,210	103.7%	3,860	3,950	102.3%
Manganese	300	***437***	***443***	101.4%	***748***	***726***	97.1%
Mercury	0.7	ND	ND	NC	ND	ND	NC
Nickel	100	ND	ND	NC	ND	ND	NC
Potassium	NC	2,980 E	3,040	102.0%	4,470 E	4,270	95.5%
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	***59,700***	***61,000***	102.2%	19,200	19,000	99.0%
Thallium	0.5	ND	ND	NC	ND	ND	NC
Vanadium	NC	ND	ND	NC	ND	ND	NC
Zinc	2,000	16.9 B	16.1 B	95.3%	5.7 B	ND	NC
Turbidity	50 NTU	35.2			0.0		

Notes: ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
NC - both filtered and unfiltered result was "not detected"
BOLD/Italics - exceeds criterion

TABLE 4
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 SAMPLING EVENT
TOTAL VERSUS DISSOLVED METALS CONCENTRATIONS IN GROUNDWATER

Sample Location	NYSDEC	MW-23A	MW-23A	MW-23A	MW-23B	MW-23B	MW-23B
Sample ID	Class GA	DMW-23A	DMW-23AF		DMW-23B	DMW-23BF	
Laboratory ID	Ground	L1807-28	L1808-24		L1807-26	L1808-22	
Sample Date	Water	8/22/12	8/22/12		8/22/12	8/22/12	
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
Metal		conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	161 B	ND	NC	103 B	ND	NC
Antimony	3	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	28.0 B	27.3 B	97.5%	29.0 B	26.8 B	92.4%
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	***31.7***	3.3 B	10.4%	***69.6***	***33.1***	47.6%
Calcium	NC	26,700 E	26,400	98.9%	18,100 E	17,700	97.8%
Chromium	50	1.2 B	4.0 B	333.3%	10.7 B	7.8 B	72.9%
Cobalt	NC	ND	ND	NC	ND	ND	NC
Copper	200	6.7 B	ND	NC	4.1 B	ND	NC
Iron	300	***1,860 E***	***602***	32.4%	279 E	117 B	41.9%
Lead	25	ND	ND	NC	ND	ND	NC
Magnesium	35,000	4,950	4,750	96.0%	2,950	2,910	98.6%
Manganese	300	***1,110***	***1,170***	105.4%	138	135	97.8%
Mercury	0.7	ND	ND	NC	ND	ND	NC
Nickel	100	ND	2.0 B	NC	2.4 B	1.3 B	54.2%
Potassium	NC	5,770	5,790	100.3%	1,760	1,820	103.4%
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	***74,100 E***	***73,400***	99.1%	15,000 E	14,700	98.0%
Thallium	0.5	ND	ND	NC	ND	ND	NC
Vanadium	NC	1.1 B	ND	NC	ND	ND	NC
Zinc	2,000	ND	5.9 B	NC	17.7 B	ND	NC
Turbidity	50 NTU	0.0			0.0		

Notes: ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
NC - both filtered and unfiltered result was "not detected"
BOLD/Italics - exceeds criterion

TABLE 5
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SURFACE WATER SAMPLES

Sample Location	NYSDEC Class A Surface Water Criteria	Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID		SW-1		SW-1		SW-1		SW-1		SW-1		SW-1	
Laboratory ID		E0868-01A		F1193-20A		G2136-11		J0376-01A		K0911-08		L1949-01	
Sample Date		6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		09/17/12	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	31.9	B	40.1	B	ND		29.6	B	ND		ND	
Antimony	3	ND		ND		***6.0***	B	ND		ND		ND	
Arsenic	50	ND		ND		ND		ND		ND		ND	
Barium	1,000	13.2	B	23.1	B	31.8	B	22.4	B	13.6	B	20.8	B
Beryllium	3	ND		ND		ND		ND		ND	U	ND	
Cadmium	5	1.1	B	2.3	B	1.5	B	2.6	B	1.6	B	ND	
Calcium	NC	15,100		14,100		14,300		15,300		13,900		14,900	
Chromium	50	0.6	B	0.95	B	ND		0.52	B	1.3	B	ND	
Cobalt	NC	0.94	B	1.4	BE	ND		0.76	B	0.77	B	ND	
Copper	200	8.9	B	3.1	B	ND		ND		ND		ND	
Iron	300	***691***		***738***		***598***		***387***		***416***		172	B
Lead	50	ND		2.1	B	ND		ND		ND		ND	
Magnesium	35,000	3,500		2,860		3,570		3,420		2,960		3,420	
Manganese	300	***1,050***		***862***		***1,610***		***996***		***1,000***		***552***	
Mercury	0.7	ND		ND		ND		ND		ND		ND	
Nickel	100	1.3	B	0.6	B	ND		1.6	B	ND		ND	
Potassium	NC	2,000		1,930		2,250		2,070		2,040		2,300	
Selenium	10	ND		6	B	ND		ND		ND		ND	
Silver	50	1.8	B	2.8	B	0.98	B	ND		ND		ND	
Sodium	20,000	18,500		15,800		19,000		***22,500***		18,700		***24,600***	
Thallium	0.5	ND		ND		ND		ND		ND		ND	
Vanadium	NC	0.78	B	0.79	B	ND		2.6	B	ND		ND	
Zinc	2,000	22.4	B	22.8	B	22.3	B	38	B	22.3	B	10.1	B

Notes: All values in µg/L
NC - No Criteria
ND - Not Detected
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 5
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SURFACE WATER SAMPLES

Sample Location	NYSDEC Class A Surface Water Criteria	Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID		SW-2		SW-2		SW-2		SW-2		SW-2		SW-2	
Laboratory ID		E0868-03A		F1194-02A		G2136-09		J0376-02A		K0911-09		L1949-02	
Sample Date		6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		09/17/12	
		conc.	Q	conc.		conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	16.8	B	98.4	B	ND		33.2	B	ND		ND	
Antimony	3	ND		ND		ND		***5.7***	***B***	ND		ND	
Arsenic	50	ND		ND		ND		ND		ND		ND	
Barium	1,000	12.2	B	24.3	B	32.4	B	24.2	B	12.9	B	20.2	B
Beryllium	3	ND		ND		ND		ND		ND		ND	
Cadmium	5	1.0	B	2.1	B	2.0	B	2.8	B	1.7	B	ND	
Calcium	NC	14,900		13,300		14,300		16,100		13,900		14,700	
Chromium	50	0.52	B	1.2	B	ND		0.86	B	0.72	B	ND	
Cobalt	NC	0.92	B	1	B	ND		1	B	ND		ND	
Copper	200	ND		4.4	B	ND		6.2	B	ND		ND	
Iron	300	***649***		***819***		***675***		***478***		***508***		176	B
Lead	50	ND		3.1	B	2.4	B	ND		ND		ND	
Magnesium	35,000	3,490		2,940		3,530		3,700		2,940		3,360	
Manganese	300	***1,010***		***819***	***E***	***1,560***		***968***		***1,080***		***564***	
Mercury	0.7	ND		ND		ND		ND		ND		ND	
Nickel	100	1.1	B	0.81	B	ND		2.4	B	ND		ND	
Potassium	NC	1,990		1,990		2,320		2,080		1,990		2,330	
Selenium	10	ND		ND		ND		ND		ND		ND	
Silver	50	1.6	B	3.1	B	ND		ND		ND		ND	
Sodium	20,000	18,100		16,200	E	19,500		***22,000***		18,600		***23,800***	
Thallium	0.5	ND		ND		ND		***7.2***	***B***	ND		ND	
Vanadium	NC	ND		0.88	B	1.1	B	3.3	B	ND		ND	
Zinc	2,000	15.6	B	27.4	B	21	B	34.5	B	20.3	B	5.3	B

Notes: All values in µg/L
NC - No Criteria
ND - Not Detected
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 5
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SURFACE WATER SAMPLES

Sample Location	NYSDEC Class A Surface Water Criteria	Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID		SW-3		SW-3		SW-3		SW-3		SW-3		SW-3	
Laboratory ID		E0868-05A		F1194-04A		G2136-13		J0376-03A		K0911-10		L1949-03	
Sample Date		6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		09/17/12	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	69.5	B	37	U	ND		27	B	ND		ND	
Antimony	3	ND		ND		ND		***7.2***	***B***	ND		ND	
Arsenic	50	ND		ND		ND		ND		ND		ND	
Barium	1,000	7.9	B	12.6	B	38.6	B	19.6	B	10.1	B	17.2	B
Beryllium	3	ND		ND		ND		ND		ND		ND	
Cadmium	5	1.9	B	0.32	B	0.97	B	2.8	B	1.4	B	ND	
Calcium	NC	15,200		13,100		14,000		15,000		13,900		14,500	
Chromium	50	0.58	B	0.7	B	ND		0.59	B	0.67	B	ND	
Cobalt	NC	0.72	B	1.0	B	ND		ND		ND		ND	
Copper	200	ND		3.9	B	ND		ND		ND		ND	
Iron	300	***788***		280		***772***		***332***		***311***		144	B
Lead	50	0.92	B	ND		ND		ND		ND		ND	
Magnesium	35,000	3,540		2,990		3,440		3,380		3,030		3,310	
Manganese	300	***882***		73.9	E	***1,790***		***911***		***990***		***355***	
Mercury	0.7	ND		ND		ND		ND		ND		ND	
Nickel	100	0.96	B	ND		ND		1.3	B	ND		ND	
Potassium	NC	2,000		2,020		2,290		2,000		2,000		2,210	
Selenium	10	ND		ND		ND		ND		ND		ND	
Silver	50	1.3	B	3.4	B	0.64	B	ND		ND		ND	
Sodium	20,000	18,300		16,800	E	17,700		***23,300***		18,800		***23,500***	
Thallium	0.5	ND		ND		ND		***5.9***	***B***	ND		ND	
Vanadium	NC	0.7	B	0.42	B	ND		2.8	B	ND		ND	
Zinc	2,000	21.5	B	14	B	16.4	B	33.4	B	18.9	B	ND	

Notes: All values in µg/L
NC - No Criteria
ND - Not Detected
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 5
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SURFACE WATER SAMPLES

Sample Location	NYSDEC Class A Surface Water Criteria	Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID		SW-4		SW-4		SW-4		SW-4		SW-4		SW-4	
Laboratory ID		E0868-07A		F1194-06A		G2136-15		J0376-04A		K0911-11		L1949-04	
Sample Date		6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		09/17/12	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	ND		ND		ND		27.4	B	ND		ND	
Antimony	3	ND		ND		ND		ND		ND		ND	
Arsenic	50	ND		ND		ND		ND		ND		ND	
Barium	1,000	5.7	B	14	B	31.9	B	20.2	B	9.8	B	19.6	B
Beryllium	3	ND		ND		ND		ND		ND		ND	
Cadmium	5	0.89	B	0.77	B	0.63	B	2.6	B	1.4	B	ND	
Calcium	NC	14,600		12,900		14,000		15,300		13,700		13,900	
Chromium	50	ND		0.88	B	ND		0.51	B	0.75	B	ND	
Cobalt	NC	0.37	B	1.2	B	ND		ND		ND		ND	
Copper	200	11.7	B	4.9	B	ND		ND		ND		ND	
Iron	300	***610***		***609***		***741***		***344***		***322***		152	B
Lead	50	ND		2.2	B	ND		ND		ND		ND	
Magnesium	35,000	3,510		2,950		3,490		3,420		2,980		3,190	
Manganese	300	***786***		135	E	***1,630***		***943***		***918***		***463***	
Mercury	0.7	ND		ND		ND		ND		ND		ND	
Nickel	100	0.6	B	ND		ND		0.88	B	ND		ND	
Potassium	NC	1,950		2,040		2,310		1,980		1,960		2,150	
Selenium	10	ND		ND		ND		ND		ND		ND	
Silver	50	ND		2.8	B	ND		ND		ND		ND	
Sodium	20,000	18,100		16,600	E	17,800		***22,900***		18,700		***23,900***	
Thallium	0.5	ND		ND		ND		ND		ND		ND	
Vanadium	NC	ND		ND		ND		2	B	ND		ND	
Zinc	2,000	20.2	B	18	B	9.7	B	31.9	B	18.9	B	5.3	B

Notes: All values in µg/L
NC - No Criteria
ND - Not Detected
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 5
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SURFACE WATER SAMPLES

Sample Location	NYSDEC Class A Surface Water Criteria	Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek	
Sample ID		SW-5		SW-5		SW-5		SW-5		SW-5		SW-5	
Laboratory ID		E0868-09A		F1193-18A		G2114-20		J0376-05A		K0911-12		L1949-05	
Sample Date		6/21/06		8/23/07		11/12/08		3/4/10		5/22/11		09/18/12	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	15.3	B	ND		ND		79.3	B	305		ND	
Antimony	3	1.5	B	***4.4***	***B***	ND		ND		ND		ND	
Arsenic	50	ND		ND		ND		5.2	B	ND		ND	
Barium	1,000	36.9	B	36.4	B	26.2	B	24.6	B	40.7	B	31.4	B
Beryllium	3	ND		ND		ND		ND		ND		ND	
Cadmium	5	***5.7***		***5.6***		3	B	***5.1***		***8.8***		4.1	B
Calcium	NC	14,400		16,100		12,500		17,800		19,200		15,200	
Chromium	50	ND		0.39	B	ND		0.99	B	2.6	B	ND	
Cobalt	NC	0.82	B	1.9	BE	ND		ND		1.8	B	ND	
Copper	200	ND		1.7	B	ND		5.6	B	11.3	B	3.8	B
Iron	300	***632***		***599***		***1,060***		***959***		***4,080***		***690***	
Lead	50	ND		ND		ND		ND		10.2		ND	
Magnesium	35,000	3,550		3,420		3,100		3,960		4,020		3,510	
Manganese	300	***1,420***		***1,110***		***956***		***450***		***923***		***519***	
Mercury	0.7	ND		ND		ND		ND		ND		ND	
Nickel	100	0.98	B	0.85	B	ND		1.1	B	1.4	B	ND	
Potassium	NC	2,080		2,040		1,780		2,070		2,340		2,240	
Selenium	10	ND		ND		ND		ND		ND		ND	
Silver	50	ND		3.1	B	ND		ND		ND		ND	
Sodium	20,000	***21,100***		***21,800***		18,100		***20,300***		***26,900***		***28,100***	
Thallium	0.5	ND		ND		ND		ND		ND		ND	
Vanadium	NC	ND		ND		0.99	B	12.1	B	6.9	B	ND	
Zinc	2,000	22	B	21.2	B	10.4	B	38.5	B	98.7		15.9	B

Notes: All values in µg/L
NC - No Criteria
ND - Not Detected
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 5
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SURFACE WATER SAMPLES

Sample Location	NYSDEC Class A Surface Water Criteria	Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek	
Sample ID		SW-6		SW-6		SW-6		SW-6		SW-6		SW-6	
Laboratory ID		E0868-11A		F1194-08A		G2114-16		J0376-06		K0911-13		L1949-06	
Sample Date		6/21/06		8/23/07		11/12/08		3/4/10		5/22/11		09/17/12	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	40.5	B	ND		190	B	63.9	B	103	B	84.4	B
Antimony	3	ND		***8.0***	***B***	ND		ND		ND		ND	
Arsenic	50	ND		ND		ND		ND		ND		ND	
Barium	1,000	35.5	B	40.6	B	37.7	B	22.8	B	27.8	B	23.6	B
Beryllium	3	ND		ND		ND		ND		ND		ND	
Cadmium	5	0.55	B	2.8	B	***75.4***		ND		ND		ND	
Calcium	NC	26,700		27,200		20,100		19,200		25,100		21,400	
Chromium	50	0.99	B	0.88	B	7.2	B	1.5	B	0.73	B	1.7	B
Cobalt	NC	3.1	B	2.8	B	ND		ND		ND		ND	
Copper	200	ND		2.8	B	ND		ND		ND		ND	
Iron	300	***5,400***		***2,170***		***4,010***		***639***		***2,280***		***6,840***	
Lead	50	ND		2.5	B	9.8	B	ND		ND		ND	
Magnesium	35,000	5,130		5,290		4,080		4,320		4,960		4,860	
Manganese	300	***2,610***		***1,510***	***E***	***1,040***		***406***		***869***		***1,160***	
Mercury	0.7	ND		ND		ND		ND		ND		ND	
Nickel	100	1.4	B	1.5	B	ND		1.8	B	ND		0.91	B
Potassium	NC	2,230		2,480		2,830		2,250		2,810		2,460	
Selenium	10	ND		ND		ND		***10.5***	***B***	ND		ND	
Silver	50	ND		5.9	B	ND		ND		ND		ND	
Sodium	20,000	***29,200***		***33,600***	***E***	***26,000***		***20,500***		***33,800***		***32,100***	
Thallium	0.5	ND		ND		ND		ND		ND		ND	
Vanadium	NC	1.1	B	0.63	B	1.6	B	1.6	B	ND		ND	
Zinc	2,000	35.6	B	32.2	B	48.2	B	43.3	B	35.8	B	21.3	B

Notes: All values in µg/L
NC - No Criteria
ND - Not Detected
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)
E - Estimated due to matrix interference
* - Replicate RPDs were not within QC limits

TABLE 6
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SEDIMENT SAMPLES

Sample Location	NYSDEC Technical Guidance for Sediment Criteria		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID			SED-1		SED-1		SED-1		SED-1		SED-1	
Laboratory ID			E0868-02A		F1193-19A		G2136-10		J0376-09A		K0911-01		L1949-09	
Sample Date	Lowest Effect	Highest Effect	6/21/06 conc.	Q	8/23/07 conc.	Q	11/14/08 conc.	Q	3/4/10 conc.	Q	5/22/11 conc.	Q	9/17/12 conc.	Q
Aluminum	NC	NC	5,020		895		7630	*	6,730	E	9,620		10,800	
Antimony	2.0	25	0.7	B	0.41	B	***2.2***	BN	***6.4***		ND		ND	
Arsenic	6.0	33	***7.9***		1.5		***8.7***		***16.1***		***15.2***	*	***18.1***	
Barium	NC	NC	81.2		31.9		67.7	B*E	175		445		203	
Beryllium	NC	NC	0.5	B	0.074	B	0.64	B	0.75	BE	0.87	B	0.34	B
Cadmium	0.6	9	***47.8***		***11.6***		***61.4***	N*E	***69.2***		***81.2***	*	***89.8***	
Calcium	NC	NC	2,540		646		3,140	*	5,180	*	7,440	*	3,340	
Chromium	26	110	20.7		2.8		***27.1***	E	***39.1***	*	***50.0***	*	***57.4***	
Cobalt	NC	NC	7.6		3.7		20.2	E	20.9		29.4	E	19.7	B
Copper	16	110	***38.6***		***86.3***		***65.7***		***127***	*	***121***	*	***144***	
Iron	20,000	20,000	10,300		3,880		19,700	E	***36,000***		***44,600***	*	***26,700***	
Lead	31	110	***170***		19.3		***176***	N*E	***225***		***226***	N*	***289***	
Magnesium	NC	NC	1,300		217		1,260	*E	1,770		2,100	*E	2170	
Manganese	460	1,100	***1,290***		***1,200***		181	*	***2,250***		***22,600***	*	***3,620***	
Mercury	0.15	1.3	***0.21***		0.0071	B	***0.34***		***0.38***		***0.33***	B	***0.52***	
Nickel	16	50	11.4		3.0		***19.4***		***24.1***	***E***	***24.1***	*******	***27.3***	
Potassium	NC	NC	514		91.9		465	*	429		748		660	
Selenium	NC	NC	1.6	B	0.64	B	ND		5.0	B	ND		6.1	B
Silver	1.0	2.2	ND		ND		ND		ND		2.7	B	ND	
Sodium	NC	NC	117		44.2	B	136	B	339		433		388	B
Thallium	NC	NC	5.8		ND		ND		12.7		3.8	B	8.6	B
Vanadium	NC	NC	29.4		5.1		39.9	E	78.7	E	99.2		90.5	
Zinc	120	270	***215***		71.6		***445***	*E	***493***	*	***572***	*	***642***	

Notes: All values in mg/kg
NC - No Criteria
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
BOLD/Italics - exceeds lowest effects criterion
E - Replicate RPDs were not within QC limits
* - Percent recovery for duplicates were not within QC limits
N - Spike recoveries were not within QC limts

TABLE 6
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SEDIMENT SAMPLES

Sample Location	NYSDEC Technical Guidance for Sediment Criteria		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID			SED-2		SED-2		SED-2		SED-2		SED-2	
Laboratory ID			E0868-04A		F1194-01A		G2136-08		J0376-10A		K0911-02		L1949-10	
Sample Date	Lowest Effect	Highest Effect	6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		9/17/12	
			conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	NC	15,500		1,850		2,800	*	9,050	E	8,310		8,300	
Antimony	2.0	25	0.92	B	0.82	B	0.19	BN	1.3	B	ND		ND	
Arsenic	6.0	33	***19.7***		2	B	1.8		***20.2***		***13.4***	*	***19.2***	
Barium	NC	NC	89.8		57.9		40.8	*E	173		108		209	
Beryllium	NC	NC	1.2		0.16	B	0.16	B	0.89	E	0.75	B	0.40	B
Cadmium	0.6	9	***133***		***21.2***		***12.5***	N*E	***111***		***96.6***	*	***122***	
Calcium	NC	NC	2,860		1,320		1,400	*	3,810	*	4,330	*	4,090	
Chromium	26	110	***33.7***		7.7		6.5	E	***49.4***	*	***45.2***	*	***47.7***	
Cobalt	NC	NC	12.1		8.1		3	BE	17.8		11.1	E	16.5	
Copper	16	110	***210***		***19.6***		15.6		***97.7***	*	***80.2***	*	***91.0***	
Iron	20,000	20,000	***20,300***		8,940		3,850	E	***27,500***		17,300	*	***25,400***	
Lead	31	110	***315***		***40.7***		25.8	N*E	***375***		***315***	N*	***408***	
Magnesium	NC	NC	1,510		404		305	*E	1,690		1,360	*E	1,500	
Manganese	460	1,100	153		***1,300***		***769***	*	***3,510***		***1,480***	*	***3,790***	
Mercury	0.15	1.3	***0.45***		0.047	BN	0.018	B	***0.35***		***0.5***		***0.49***	
Nickel	16	50	***17.6***		6.8	E	3.2	B	***22.0***	E	***17.6***	*	***21.9***	
Potassium	NC	NC	555		200	E	123	*	373		389		428	
Selenium	NC	NC	2.2	B	1.2	B	ND		ND		ND		6.2	B
Silver	1.0	2.2	0.33	B	ND		ND		ND		ND		ND	
Sodium	NC	NC	143		92.5	B	46.5	B	200		219		228	
Thallium	NC	NC	0.39	B	ND		ND		20.5		2.5	B	9.8	
Vanadium	NC	NC	55.9		11.9		5.8	E	61.3	E	54.0		60.8	
Zinc	120	270	***402***		***138***		67.9	*E	***495***	*	***406***	*	***526***	

Notes: All values in mg/kg
NC - No Criteria
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
BOLD/Italics - exceeds lowest effects criterion
E - Replicate RPDs were not within QC limits
* - Percent recovery for duplicates were not within QC limits
N - Spike recoveries were not within QC limts

TABLE 6
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SEDIMENT SAMPLES

Sample Location	NYSDEC Technical Guidance for Sediment Criteria		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID			SED-3		SED-3		SED-3		SED-3		SED-3	
Laboratory ID			E0868-06A		F1194-03A		G2136-14		J0376-11A		K0911-03		L1949-11	
Sample Date	Lowest Effect	Highest Effect	6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		9/17/12	
			conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	NC	690		2,010		5,860	*	3,490	E	5,890		1,580	
Antimony	2.0	25	ND		0.35	B	0.63	BN	ND		ND		ND	
Arsenic	6.0	33	0.31	B	3.1		4.2	B	2.4		5.7	*	2.3	
Barium	NC	NC	6.7		29.7		88.2	*E	23.1		65.1		10.2	B
Beryllium	NC	NC	0.047	B	0.18	B	0.30	B	0.29	BE	0.50		0.037	B
Cadmium	0.6	9	***1.5***		***27.7***		***1.7***	N*E	***22.3***		***16.1***	*	***14.1***	
Calcium	NC	NC	104		605		11,700	*	1,260	*	2,940	*	199	
Chromium	26	110	1.5		7.9		9.6	E	13.7	*	9.1	*	3.7	
Cobalt	NC	NC	0.66	B	4.7		12.6	E	3.6		5.7	E	2.4	B
Copper	16	110	2.7		***16.7***		***32.4***		***32.5***	*	10.9	*	8.5	
Iron	20,000	20,000	920		5,730		10,900	E	3,770		6,240	*	1,830	
Lead	31	110	9.2		***44.2***		***34.0***	N*E	***85.9***		***46.0***	N*	21.4	
Magnesium	NC	NC	121		326		4,200	*E	527		675	*E	158	
Manganese	460	1,100	89.8		***568***		***908***	*	357		***1,090***	*	132	
Mercury	0.15	1.3	0.016	B	0.049	BN	0.074	B	0.11		0.061	B	0.032	B
Nickel	16	50	1.6	B	5.0	E	8.5	B	7.4	E	5.8	*	2.4	B
Potassium	NC	NC	115		168	E	1,010	*	173		254		68.7	
Selenium	NC	NC	0.2	B	1.2	B	ND		ND		ND		ND	
Silver	1.0	2.2	ND		ND		ND		ND		ND		ND	
Sodium	NC	NC	13.7	B	51.5	B	528		90.5		103		21.8	B
Thallium	NC	NC	0.33	B	ND		ND		1.7		1.1	B	0.36	B
Vanadium	NC	NC	1.8		9.5		36.4	E	12.5	E	10.7		3.3	
Zinc	120	270	10.0		110		71.3	*E	106	*	73.5	*	44.7	

Notes: All values in mg/kg
NC - No Criteria
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
BOLD/Italics - exceeds lowest effects criterion
E - Replicate RPDs were not within QC limits
* - Percent recovery for duplicates were not within QC limits
N - Spike recoveries were not within QC limts

TABLE 6
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SEDIMENT SAMPLES

Sample Location	NYSDEC Technical Guidance for Sediment Criteria		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Lake Capri	
Sample ID			SED-4		SED-4		SED-4		SED-4		SED-4	
Laboratory ID			E0868-08A		F1194-05A		G2136-16		J0376-12A		K0911-04		L1949-12	
Sample Date	Lowest Effect	Highest Effect	6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		9/17/12	
			conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	NC	2,730		3,290		1,790	*	2,170	E	5,850		11,700	
Antimony	2.0	25	0.22	B	0.76	B	0.42	BN	0.3	B	ND		ND	
Arsenic	6.0	33	3.4		4.0		3.9		1.9		4.4	*	***6.2***	***B***
Barium	NC	NC	41.5		47.8		177	*E	18.7		64.8		103	
Beryllium	NC	NC	0.2	B	0.22	B	0.13	B	0.19	BE	0.45	B	0.36	B
Cadmium	0.6	9	***32.3***		***32.3***		***15.8***	N*E	***14.8***		***47.3***	*	***79.5***	
Calcium	NC	NC	588		1,240		8,090	*	758	*	2,560	*	3,200	
Chromium	26	110	8.6		12.5		6.8	E	8.1	*	21.7	*	***45.4***	
Cobalt	NC	NC	4.9		10.0		7.0	E	3.1		9.5	E	13.3	B
Copper	16	110	***21.6***		***35.7***		***17.1***		***22.6***	*	***49.5***	*	***117***	
Iron	20,000	20,000	4,450		9,330		7,280	E	2,540		9,170	*	12,800	
Lead	31	110	***71.2***		***193***		***34.3***	N*E	***60.6***		***129***	N*	***297***	
Magnesium	NC	NC	352		519		653	*E	304		868	*E	1,650	
Manganese	460	1,100	***837***		***845***		***11,700***	*	272		***1,150***	*	***1,820***	
Mercury	0.15	1.3	0.096		0.059	BN	***0.21***		0.082		***0.18***		***0.39***	
Nickel	16	50	6.0		10.7	E	6.3		4.8	E	13	*	***25.3***	
Potassium	NC	NC	145		236	E	281	*	103		383		623	
Selenium	NC	NC	0.76	B	1.9	B	3.3		ND		ND		4.6	B
Silver	1.0	2.2	ND		ND		***1.1***	B	ND		ND		ND	
Sodium	NC	NC	35.4	B	87.0		131		56	B	145	B	312	B
Thallium	NC	NC	3.7		ND		2.8		1.6		1.7	B	4.6	B
Vanadium	NC	NC	9.2		16.9		7.4	E	7.2	E	26.6		41.2	
Zinc	120	270	***122***		***186***		110	*E	71.3	*	***232***	*	***323***	

Notes: All values in mg/kg
NC - No Criteria
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
BOLD/Italics - exceeds lowest effects criterion
E - Replicate RPDs were not within QC limits
* - Percent recovery for duplicates were not within QC limits
N - Spike recoveries were not within QC limts

TABLE 6
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SEDIMENT SAMPLES

Sample Location	NYSDEC Technical Guidance for Sediment Criteria		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek	
Sample ID			SED-5		SED-5		SED-5		SED-5		SED-5	
Laboratory ID			E0868-10A		F1193-17A		G2114-21		J0376-13A		K0911-05		L1949-13	
Sample Date	Lowest Effect	Highest Effect	6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		9/18/12	
			conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	NC	1,060		552		5,150		2,540	E	6,300		345	
Antimony	2.0	25	0.074	B	0.27	B	1.1	BN	0.68	B	1.4	BN	ND	
Arsenic	6.0	33	0.6	B	0.52	B	***8.2***		***6.5***		***9.3***	*	1.6	
Barium	NC	NC	12.1		13.6		96.6		84.6		114		15.1	
Beryllium	NC	NC	0.083	B	0.03	B	0.34	B	0.24	BE	0.57	B	0.010	B
Cadmium	0.6	9	0.43		***1.6***		***52.0***		***28.8***		***73.5***	*	***1.7***	
Calcium	NC	NC	228		1,430		4,150		3,470	*	7,960	*	330	
Chromium	26	110	3.8		2.7		***33.3***		18.5	*	***44.0***	*	3.5	
Cobalt	NC	NC	1.2	B	1.1	B	7.8		7.4		13.3	E	1.1	B
Copper	16	110	4.7		4.7		***103***		***54.0***	*	***166***	*	9.0	
Iron	20,000	20,000	3,400		3,410		***23,900***		***25,800***		***39,900***	*	4,180	
Lead	31	110	7.9		4.9		***215***	E	***83.3***		***229***	N*	9.4	
Magnesium	NC	NC	604		864		1,370		701		1,370	*E	75.8	
Manganese	460	1,100	174		291		***2,140***		***3,750***		***1,210***	*	417	
Mercury	0.15	1.3	0.016	B	0.0055	B	***0.48***		***0.26***		***0.37***		0.023	B
Nickel	16	50	1.6		1.0	B	***19.2***		8.0	E	***22.5***	*	1.9	B
Potassium	NC	NC	135		58.3		320		188		360		29.6	B
Selenium	NC	NC	0.28	B	0.56	B	ND		2.3	B	ND		0.87	B
Silver	1.0	2.2	ND		ND		ND		0.52	B	ND		0.084	B
Sodium	NC	NC	18.3	B	102		204		141		323		11.7	B
Thallium	NC	NC	0.56	B	ND		2.1	B	20.1		1.9	B	0.76	B
Vanadium	NC	NC	5.6		4.5		54.2		44.6	E	175		7.8	
Zinc	120	270	13.2		26.2		***290***	E	***171***	*	***440***	*	24.2	

Notes: All values in mg/kg
NC - No Criteria
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
BOLD/Italics - exceeds lowest effects criterion
E - Replicate RPDs were not within QC limits
* - Percent recovery for duplicates were not within QC limits
N - Spike recoveries were not within QC limts

TABLE 6
DZUS FASTENERS SITE (1-52-033)
JUNE 2006 THROUGH SEPTEMBER 2012 SAMPLING EVENTS
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SEDIMENT SAMPLES

Sample Location	NYSDEC Technical Guidance for Sediment Criteria		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek		Willetts Creek	
Sample ID			SED-6		SED-6		SED-6		SED-6		SED-6	
Laboratory ID			E0868-12A		F1194-07A		G2114-17		J0376-14		K0911-06		L1949-14	
Sample Date	Lowest Effect	Highest Effect	6/21/06		8/23/07		11/14/08		3/4/10		5/22/11		9/18/12	
			conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	NC	1,030		775		7,700		802	E	1,370		574	
Antimony	2.0	25	0.076		0.38	B	**2.6**	N	0.38	B	0.44	BN	ND	
Arsenic	6.0	33	0.97		0.84	B	***6.4***		0.79		2.7	*	0.64	B
Barium	NC	NC	7.4		4.7	B	89.7		3.6	B	10.4		2.7	B
Beryllium	NC	NC	0.094		0.049	B	0.36	B	0.069	BE	0.11	B	ND	
Cadmium	0.6	9	0.23		0.31		***101***		0.31		ND		0.30	
Calcium	NC	NC	4,760		599		7,690		2,450	*	4,670	*	299	
Chromium	26	110	2.4		3.4		***41.8***		4.4	*	15.9	*	5.4	
Cobalt	NC	NC	1.8		0.77	B	8.1		0.65	B	1.9	BE	0.50	B
Copper	16	110	***28.3***		6.3		***77.3***		9.4	*	***21.5***	*	8.0	
Iron	20,000	20,000	3,290		2,900		***25,600***		2,810		***36,900***	*	2,120	
Lead	31	110	7.9		10.3		***109***	E	9.5		***39.7***	N*	8.7	
Magnesium	NC	NC	2,930		468		1,980		1,410		1,290	*E	263	
Manganese	460	1,100	102		30.4		***978***		21.3		118	*	16.2	
Mercury	0.15	1.3	0.036	B	ND		***0.15***		ND		0.019	B	0.011	B
Nickel	16	50	1.8		1.9	BE	***17.2***		1.8	BE	10.1	*	2.0	B
Potassium	NC	NC	118		122	E	528		66.4		97.5		54.2	B
Selenium	NC	NC	ND		0.69	B	ND		ND		ND		ND	
Silver	1.0	2.2	ND		ND		ND		ND		ND		0.080	B
Sodium	NC	NC	24.9	B	70.7		414		47.7		51.8		22.0	B
Thallium	NC	NC	0.25	B	0.36	B	0.98	B	ND		ND		ND	
Vanadium	NC	NC	9.9		6.0		42.4		4.2	E	8.5		3.2	
Zinc	120	270	17.2		24.2		***409***	E	31.0	*	68.9	*	38.9	

Notes: All values in mg/kg
NC - No Criteria
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
BOLD/Italics - exceeds lowest effects criterion
E - Replicate RPDs were not within QC limits
* - Percent recovery for duplicates were not within QC limits
N - Spike recoveries were not within QC limts

TABLE 7
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 (ROUND 6) SAMPLING EVENT
GROUNDWATER FIELD DUPLICATE DATA SUMMARY

Sample Location	MW-2	MW-2	Precision	DMW-9	MW-2	Precision
Sample ID	DMW-2	DMW-52	as	DMW-59F	DMW-52F	as
Laboratory ID	L1807-19	L1807-23	Relative	K0942-10	L1808-16	Relative
Sample Date	8/22/12	8/22/12	Percent	5/25/11	8/22/12	Percent
Filtered/Unfiltered	Unfiltered	Unfiltered	Difference	Filtered	Filtered	Difference
Metal	conc. Q	conc. Q	(RPD)	conc. Q	conc. Q	(RPD)
Aluminum	328	375	13.4%	ND	ND	NC
Antimony	ND	ND	NC	ND	ND	NC
Arsenic	ND	ND	NC	ND	ND	NC
Barium	20.4 B	20.5 B	0.5%	18.4 B	18.6 B	1.1%
Beryllium	ND	ND	NC	ND	ND	NC
Cadmium	ND	ND	NC	ND	ND	NC
Calcium	12,500 E	12,600 E	0.8%	12,300	12,100	1.6%
Chromium	0.73 B	ND	NC	ND	ND	NC
Cobalt	1.2 B	0.94 B	24.3%	1 B	1.1 B	9.5%
Copper	ND	ND	NC	ND	ND	NC
Iron	***1,590 E***	***1,580 E***	0.6%	***1,060***	***996***	6.2%
Lead	ND	ND	NC	ND	ND	NC
Magnesium	1,850	1,830	1.1%	1,790	1,790	0.0%
Manganese	124	126	1.6%	115	115	0.0%
Mercury	ND	ND	NC	ND	ND	NC
Nickel	1.7 B	1.8 B	5.7%	1.3 B	1.2 B	8.0%
Potassium	1,440	1,360	5.7%	1,430	1,340	6.5%
Selenium	ND	ND	NC	ND	ND	NC
Silver	ND	ND	NC	ND	ND	NC
Sodium	***24,400 E***	***24,800 E***	1.6%	***23,500***	***23,500***	0.0%
Thallium	ND	ND	NC	ND	ND	NC
Vanadium	ND	ND	NC	ND	ND	NC
Zinc	18.4 B	17.8 B	3.3%	5.2 B	5.6 B	7.4%

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.
BOLD/Italics - exceeds criterion

TABLE 8
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 (ROUND 6) SAMPLING EVENT
SURFACE WATER FIELD DUPLICATE DATA SUMMARY

Sample Location Sample ID Laboratory ID Sample Date Metal	Willetts Creek SW-6 L1949-06 09/17/12 conc. Q	Willetts Creek SW X-FD L1949-07 09/17/12 conc. Q	Precision as Relative Percent Difference (RPD)
Aluminum	84 B	ND	NC
Antimony	ND	ND	NC
Arsenic	ND	ND	NC
Barium	23.6 B	19.3 B	20.0%
Beryllium	ND	ND	NC
Cadmium	ND	ND	NC
Calcium	21,400	14,500	38.4%
Chromium	1.7 B	ND	NC
Cobalt	ND	ND	NC
Copper	ND	ND	NC
Iron	***6,840***	***154 B***	191.2%
Lead	ND	ND	NC
Magnesium	4,860	3,270	39.1%
Manganese	***1,160***	***475***	83.8%
Mercury	ND	ND	NC
Nickel	0.91 B	ND	NC
Potassium	2,460	2,190	11.6%
Selenium	ND	ND	NC
Silver	ND	ND	NC
Sodium	***32,100***	***23,600***	30.5%
Thallium	ND	ND	NC
Vanadium	ND	ND	NC
Zinc	21.3 B	9.0 B	81.2%

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.
BOLD/Italics - exceeds criterion

TABLE 9
DZUS FASTENERS SITE (1-52-033)
AUGUST 2012 (ROUND 6) SAMPLING EVENT
SEDIMENT FIELD DUPLICATE DATA SUMMARY

Sample Location	Willetts Creek		Willetts Creek		Precision as Relative Percent Difference (RPD)
Field Sample ID	SED-6		SED X FD		
Laboratory ID	L1949-14		L1949-16		
Sample Date	9/18/12		9/18/12		
Metal	conc.	Q	conc.	Q	
Aluminum	574		7,820		172.6%
Antimony	ND		ND		NC
Arsenic	0.64	B	***16.0***		184.6%
Barium	2.7	B	228		195.3%
Beryllium	ND		0.34	B	NC
Cadmium	0.30		***104***		198.8%
Calcium	299		5,620		179.8%
Chromium	5.4		***43.9***		156.2%
Cobalt	0.50	B	17.8		189.1%
Copper	8.0		***93.6***		168.5%
Iron	2,120		***27,900***		171.8%
Lead	8.7		***331***		189.8%
Magnesium	263		1,490		140.0%
Manganese	16.2		***4,990***		198.7%
Mercury	0.011	B	***0.40***		189.3%
Nickel	2.0	B	***21.3***		165.7%
Potassium	54.2	B	465		158.2%
Selenium	ND		5.7	B	NC
Silver	0.080	B	ND		NC
Sodium	22.0	B	263		169.1%
Thallium	ND		11.4		NC
Vanadium	3.2		68.8		182.2%
Zinc	38.9		***491***		170.6%

All values in mg/kg dry weight.
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
N - Laboratory spike recovery ouside control limit
* - Laboratory Replicate RPDs were not within QC limits
BOLD/Italics - exceeds criterion

Figures

USGS NY Bay Shore West Quadrangle

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

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Prepared by: AECOM

Prepared for: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Multi Site G
Operation, Maintenance & Monitoring

Site Location
Dzus Fasteners Site

Date:	Scale:	Figure No. :
January 2013	1 inch = 2,500 feet	1

MW-21B
MW-17
(Damaged)
MW-5
DZUS
FACILITY
MW-8
MW-20
MW-4R
MW-9
MW-9B
MW-22B
MW-22A
MW-1
MW-3
MW-15B
MW-7
MW-2
MW-21A
MW-15A
SED-6
SW-6
MW-7B
MW-12
MW-6
MW-13B
MW-24
MW-23A
MW-23B
MW-24B
Beech Street
Middle School
SED-5
SW-5
BS-02
BS-03
Beech Street
Middle School
Willetts Creek
MW-18
HSMW-1
MW-19
West Islip Senior
High School
Elementary
School
SSMW-1
MW-14C
MW-14A
MW-14B
SED-1
SW-1
SED-2
SW-2
Lake Capri
Gil Net
SED-3
SW-3
SED-4
SW-4
N

LEGEND:

EXISTING MONITORING WELLS

EXISTING WELLS INCLUDED IN LONG TERM MONITORING
(MW-1 was damaged in December 2007.)

MISSING MONITORING WELLS

SURFACE WATER AND SEDIMENT SAMPLE LOCATION

RAILROAD TRACKS

GRAPHIC SCALE
400 200 0 400
Scale in Feet

Prepared by :
AECOM

SUBMITTED BY : PK	MULTI SITE G - Dzus Fasteners SITE NO. 1-52-033
DRAWN BY : SC	SITE PLAN
APPROVED BY : PK	DATE : JUNE 2010 / SCALE : AS SHOWN / DRAWING NO. : 2

MW-21B
MW-17
(Damaged)
MW-5
DZUS
FACILITY
MW-8
MW-20
MW-4R
MW-9
MW-9B
MW-22B
MW-22A
MW-1
MW-3
MW-15B
13.5
SED-6
SW-6
MW-7
MW-2
MW-21A
MW-15A
MW-12
MW-7B
MW-6
MW-13B
MW-24
MW-23A
MW-23B
MW-24B
12.5
12
11.5
Beech Street
Middle School
SED-5
SW-5
11
10.5
BS-02
BS-03
Beech Street
Middle School
Willetts Creek
10
9.5
MW-18
HSMW-1
MW-19
West Islip Senior
High School
Elementary
School
SSMW-1
MW-14C
MW-14A
MW-14B
SED-1
SW-1
SED-2
SW-2
Lake Capri
Gil Net
SED-3
SW-3
SED-4
SW-4
N

LEGEND:

EXISTING MONITORING WELLS

MISSING MONITORING WELLS

EXISTING WELLS INCLUDED IN LONG TERM MONITORING
(MW-1 was damaged in December 2007.)

RAILROAD TRACKS

(9.39) GROUNDWATER ELEVATIONS IN FEET ABOVE MEAN SEAL LEVEL

10.0 GROUNDWATER CONTOUR INTERVAL - .5 ft

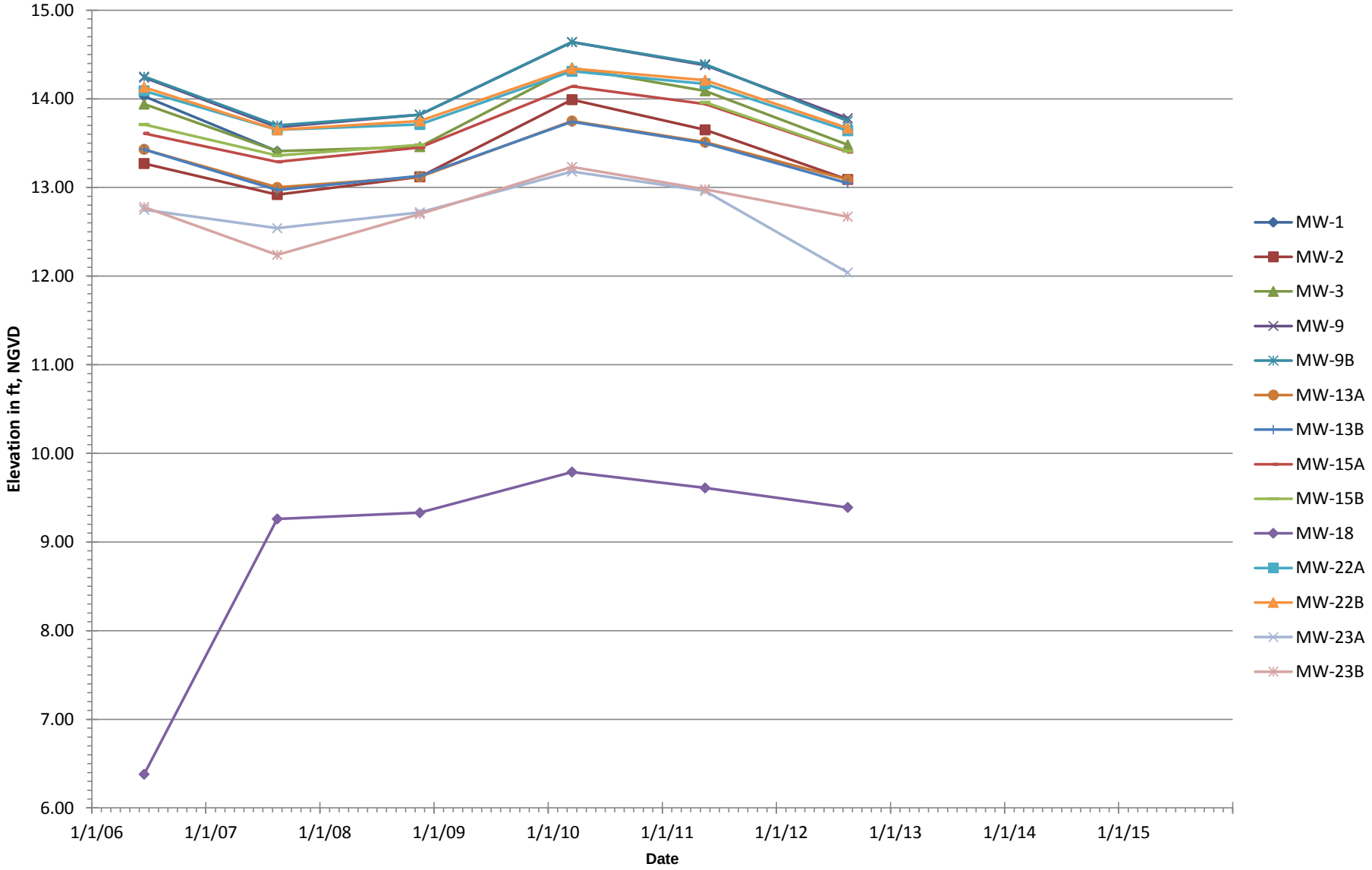
DIRECTION OF GROUNDWATER FLOW

GRAPHIC SCALE
400 200 0 400
Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK	MULTI SITE G - Dzus Fasteners SITE NO. 1-52-033
DRAWN BY : SC	**GROUNDWATER CONTOUR MAP AUGUST 22, 2012**
APPROVED BY : PK	DATE : NOV. 2012 / SCALE : AS SHOWN / DRAWING NO. : 3

Figure 3A
Dzus Fasteners (1-52-077)
Groundwater Hydrograph



MW-1 was destroyed in December 2007

	MW-9B							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	1.8 B	**4.6 B**	ND	ND	ND	ND	ND	ND
Iron	**561**	**429**	134 B	286 N	528	31.8 B	39.5 B	ND
Manganese	211	**306**	171	69.5	92.4	ND	ND	ND
Sodium	8,070	10,100	11,800	7,660	6,730	6,650	**21,400 E**	19,700
Selenium	ND	ND	ND	**12.7 B**	ND	ND	ND	ND

	MW-9							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Arsenic	**32.6**	16.2 B	ND	11.4 B	11.5 B	4.9 B	ND	ND
Cadmium	**32.8**	**22.4**	**15.5**	**17.5**	**18.7**	**9.5**	4.9 B	4.4 B
Chromium	**125**	**62.2**	35.3	**62.7**	**85.5**	2.9 B	8.3 B	4 B
Iron	**21,600**	**12,400**	**3,670**	**11,300 N**	**11,600**	**1,760**	**556 E**	ND
Sodium	**25,500**	**52,100**	16,100	**29,100**	**72,800**	**68,700**	**26,300 E**	**25,900**

	MW-1					
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	Aug-12
Compound	U	U				
Cadmium	**23.9**	**5.1**	NA	NA	NA	NA
Iron	**13,200**	**12,600**	NA	NA	NA	NA
Sodium	**22,500**	**23,100**	NA	NA	NA	NA
Thallium	**1.9 B**	**5.5 B**	NA	NA	NA	NA

	MW-22B							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	ND	**4.7 B**	ND	**8.7 B**	ND	ND	ND	ND
Cadmium	**29** B	4.4 B	1.2 B	1.7 B	ND	ND	ND	ND
Iron	**4,600**	**1,120**	**518**	**358**	164 B	ND	110 B	ND
Manganese	**2,310**	**2,440**	**775**	**940** *	**589**	**342**	**748**	**726**
Selenium	ND	ND	ND	**19 B**	ND	ND	ND	ND
Thallium	**20.1** B	**3.5 B**	ND	ND	ND	ND	ND	ND

	MW-2							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	ND	**7.3** B	ND	**9.4 B**	ND	ND	ND	ND
Cadmium	4.2 B	**8.6**	2.7 B	**10.4**	ND	ND	ND	ND
Iron	**14,900**	**25,200**	**23,300**	**12,000** N	**88,900**	**17,600**	**1,590 E**	**1,060**
Manganese	**518**	**989**	**2,150**	**768**	**882**	**655**	124	115
Sodium	**21,500**	**66,200**	18,600	18,200	**25,200**	**24,100**	**24,400** E	**23,500**
Thallium	**2.3 B**	**6.3 B**	ND	ND	ND	ND	ND	ND

	MW-22A							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	1.7 B	**5.2 B**	ND	**13 B**	ND	ND	ND	ND
Cadmium	**38.9**	**22.1**	**13.5**	**13.7**	**6.8**	ND	ND	ND
Iron	**70,400**	**22,400**	**22,000**	**61,100**	**16,700**	**2,260**	**2,700**	**2,690**
Manganese	**1,280**	**1,190**	**1,030**	**912** *	**683**	**780**	**437**	**443**
Selenium	8.7 B	ND	ND	**24.3 B**	ND	ND	ND	ND
Sodium	**95,200**	**69,400**	**39,900**	**57,800**	**100,000**	**134,000**	**59,700**	**61,000**
Thallium	ND	**2.8 B**	ND	ND	ND	ND	ND	ND

	MW-3							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	ND	ND	ND	**7.2 B**	ND	ND	10.7 B	ND
Cadmium	**77.4**	**74.4**	**70.8**	**98.4**	**73.5**	**13.1**	**16.3**	**15.1**
Iron	**4,430**	**649**	253	**3,680 N**	**7,430**	ND	51 B	ND
Manganese	**423**	**301**	262	**553**	**980**	ND	ND	ND
Selenium	ND	8.4 B	ND	**10.6 B**	ND	ND	ND	ND
Sodium	**27,700**	**31,000**	**25,000**	**20,700**	**20,400**	19,400	**23,400 E**	**23,000**
Thallium	**2.5 B**	ND	ND	ND	ND	ND	ND	ND

	MW-15B							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Iron	**4,780**	**1,320**	**875**	NA	**1,410**	**1,130**	**1,510 E**	48.4 B
Sodium	**46,600**	**45,200**	**43,900**	NA	**40,600**	**40,600**	**40,800 E**	**39,100**
Thallium	**3 B**	ND	ND	NA	ND	ND	ND	ND

	MW-15A							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Cadmium	**28.8**	**29.1**	**33.9**	**62.3**	**63**	**12.2**	**16.8**	**9.7**
Iron	**2,320**	158 B	ND	**1,000 N**	164 B	ND	ND	ND
Manganese	**370**	**929**	**895**	**2,850**	**1,510**	55.7	238	41.1 B
Sodium	18,000	13,300	9,040	17,100	19,500	19,800	**20,400 E**	**20,400**
Thallium	**1.9 B**	ND	ND	**7.3 B**	ND	ND	ND	ND

	MW-13A							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Cadmium	**174**	**94.1**	**67.7**	**267**	**373**	**10.3**	**93.5**	**64.4**
Iron	**12,700**	**3,490**	**300**	**749 N**	**2,310**	ND	**3,690**	**1580**
Manganese	**9,560**	**8,040**	**16,400**	**33,900**	**61,600**	**1,720**	**6,190**	**3,430**
Sodium	**94,500**	**77,500**	**21,700**	**247,000**	**38,400**	**37,500**	**47,000**	**46,900**
Thallium	**44**	ND	**11.7** B	**88.2**	ND	ND	**9.2 B**	ND

	MW-23A							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	1.8 B	**5.8 B**	ND	**9.5 B**	ND	ND	ND	ND
Cadmium	**110**	**702**	**1,080**	**704**	**924**	**9.5**	**31.7**	3.3 B
Iron	**10,300**	**29,700**	**13,100**	**11,500**	**15,200**	**2,030**	**1,860 E**	**602**
Manganese	**1,100**	**612**	**1,390**	**1,410** *	**1,600**	**1,480**	**1,110**	**1,170**
Selenium	1.3 B	6.1 B	ND	**13.5 B**	ND	ND	ND	ND
Sodium	**60,200**	**32,400**	**37,800**	**64,600**	**67,900**	**70,800**	**74,100 E**	**73,400**
Thallium	**9.3** B	ND	ND	**11.3 B**	ND	ND	ND	ND

	MW-13B							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Cadmium	**15**	**9.8**	2.3 B	4.2 B	2.2 B	ND	1.5 B	1.1 B
Iron	**614**	**404**	106 B	286 N	**469**	ND	ND	ND
Manganese	**621**	**426**	153	243	148	ND	54.3	19.7 B

	MW-18							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	ND	ND	**5.1** B	**12.2** B	ND	ND	ND	ND
Cadmium	3 B	1.2 B	**9.8**	**18.1**	1.3 B	ND	ND	ND
Iron	**1,150**	**1,320**	114 B	**4,620**	**2,890**	ND	35.3 B	ND
Manganese	**6,270**	**4,490**	**2,870**	**10,100** *	**3,450**	ND	113	23.4 B
Selenium	ND	ND	ND	**16.4 B**	ND	ND	ND	ND
Thallium	**26.5**	ND	ND	**64.5**	ND	ND	ND	ND

	MW-23B							
	Jun-06	Aug-07	Nov-08	Mar-10	May-11	May-11	Aug-12	Aug-12
Compound	U	U	U	U	U	F	U	F
Antimony	**3.2 B**	ND	ND	**6.2 B**	ND	ND	ND	ND
Cadmium	**320**	**60**	**42.2**	**43.8**	**40.1**	**5.8**	**69.6**	**33.1**
Chromium	**74.9**	13.9 B	4.3 B	**61.6**	12.6 B	8.5 B	10.7 B	7.8 B
Iron	**8,220**	**2,140**	**1,270**	**7,870**	**5,200**	**36,100**	279 E	117 B
Lead	**35.7**	10.3	17.7	**43.9**	22.6	ND	ND	ND
Manganese	**548**	**508**	52.1	**398** *	126	169	138	135
Selenium	ND	8.6 B	ND	**19.3 B**	ND	ND	ND	ND
Sodium	2,390	3,870	2,200	**84,400**	18,900	18,500	15,000 E	14,700
Thallium	**3.1 B**	ND	ND	**6.1 B**	ND	ND	ND	ND

Compound	NYSDEC Criteria
Antimony	3
Arsenic	25
Cadmium	5
Chromium	50
Iron	300
Lead	25
Manganese	300
Selenium	10
Sodium	20,000
Thallium	0.5

U - Unfiltered sample
F - Filtered sample

LEGEND:

- EXISTING WELLS INCLUDED IN LONG TERM MONITORING (MW-1 was damaged in December 2007.)
- EXISTING MONITORING WELLS
- MISSING MONITORING WELLS
- ALL CONCENTRATIONS IN mg/Kg
- **BOLD** RESULTS EXCEED CRITERION
- RAILROAD TRACKS

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC/jk

APPROVED BY : PK

MULTI SITE G - Dzus Fasteners
SITE NO. 1-52-033

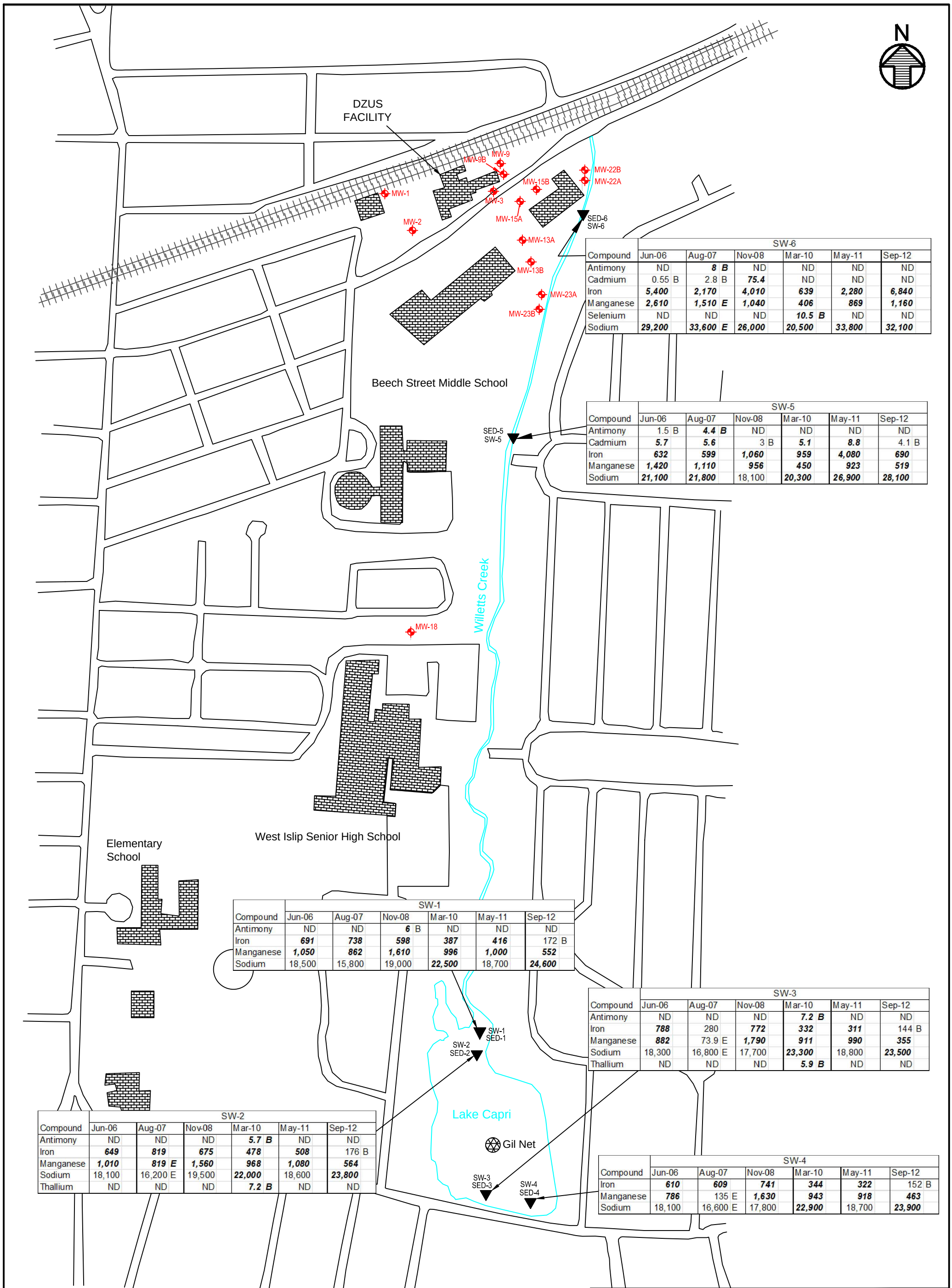
SUMMARY OF TAL METALS IN GROUNDWATER AUGUST 22, 2012

DATE : NOV. 2012

SCALE : AS SHOWN

DRAWING NO. : 4

File: \\uscnr1vfp001\data\work\60277021_Multi_Site_G\02 - Dzus Fasteners\7.0 Deliverables\7.6 Reports\Draft reports\2013 Draft Dzus SMP - GW tal Metal-2013-03-13.dwg Layout: Fig5 User: vanpwit



Compound	SW-6 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Antimony	ND	**8 B**	ND	ND	ND	ND
Cadmium	0.55 B	2.8 B	**75.4**	ND	ND	ND
Iron	**5,400**	**2,170**	**4,010**	**639**	**2,280**	**6,840**
Manganese	**2,610**	**1,510 E**	**1,040**	**406**	**869**	**1,160**
Selenium	ND	ND	ND	**10.5 B**	ND	ND
Sodium	**29,200**	**33,600 E**	**26,000**	**20,500**	**33,800**	**32,100**

Compound	SW-5 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Antimony	1.5 B	**4.4 B**	ND	ND	ND	ND
Cadmium	**5.7**	**5.6**	3 B	**5.1**	**8.8**	4.1 B
Iron	**632**	**599**	**1,060**	**959**	**4,080**	**690**
Manganese	**1,420**	**1,110**	**956**	**450**	**923**	**519**
Sodium	**21,100**	**21,800**	18,100	**20,300**	**26,900**	**28,100**

Compound	SW-1 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Antimony	ND	ND	**6 B**	ND	ND	ND
Iron	**691**	**738**	**598**	**387**	**416**	172 B
Manganese	**1,050**	**862**	**1,610**	**996**	**1,000**	**552**
Sodium	18,500	15,800	19,000	**22,500**	18,700	**24,600**

Compound	SW-3 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Antimony	ND	ND	ND	**7.2 B**	ND	ND
Iron	**788**	280	**772**	**332**	**311**	144 B
Manganese	**882**	73.9 E	**1,790**	**911**	**990**	**355**
Sodium	18,300	16,800 E	17,700	**23,300**	18,800	**23,500**
Thallium	ND	ND	ND	**5.9 B**	ND	ND

Compound	SW-2 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Antimony	ND	ND	ND	**5.7 B**	ND	ND
Iron	**649**	**819**	**675**	**478**	**508**	176 B
Manganese	**1,010**	**819 E**	**1,560**	**968**	**1,080**	**564**
Sodium	18,100	16,200 E	19,500	**22,000**	18,600	**23,800**
Thallium	ND	ND	ND	**7.2 B**	ND	ND

Compound	SW-4 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Iron	**610**	**609**	**741**	**344**	**322**	152 B
Manganese	**786**	135 E	**1,630**	**943**	**918**	**463**
Sodium	18,100	16,600 E	17,800	**22,900**	18,700	**23,900**

LEGEND:

EXISTING WELLS INCLUDED IN LONG TERM MONITORING
(MW-1 was damaged in December 2007.)

ALL CONCENTRATIONS IN mg/Kg

BOLD RESULTS EXCEED CRITERION

RAILROAD TRACKS

SURFACE WATER, SEDIMENT SAMPLE LOCATION

Compound	Surface Water Criteria
Antimony	3
Cadmium	5
Iron	300
Lead	50
Manganese	300
Selenium	10
Sodium	20,000
Thallium	0.5

GRAPHIC SCALE
400 200 0 400
Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC/jk

APPROVED BY : PK

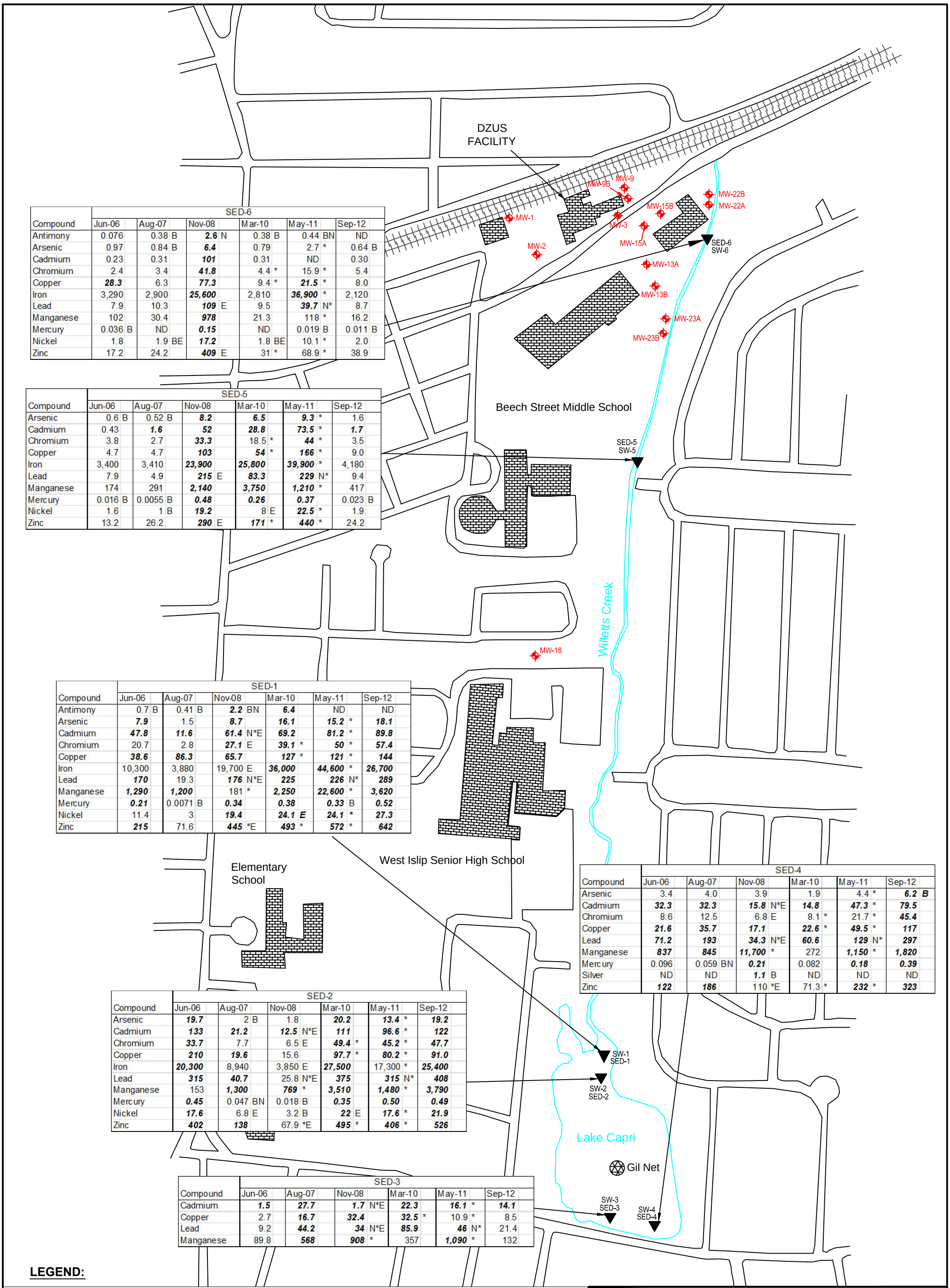
MULTI SITE G - Dzus Fasteners
SITE NO. 1-52-033

SUMMARY OF TAL METALS IN SURFACE WATER

DATE : NOVEMBER 2012

SCALE : AS SHOWN

DRAWING NO. : 5



Compound	SED-6 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Antimony	0.076	0.38 B	**2.6** N	0.38 B	0.44 BN	ND
Arsenic	0.97	0.84 B	**6.4**	0.79	2.7 *	0.64 B
Cadmium	0.23	0.31	**101**	0.31	ND	0.30
Chromium	2.4	3.4	**41.8**	4.4 *	15.9 *	5.4
Copper	**28.3**	6.3	**77.3**	9.4 *	**21.5** *	8.0
Iron	3,290	2,900	**25,600**	2,810	**36,900** *	2,120
Lead	7.9	10.3	**109** E	9.5	**39.7** N*	8.7
Manganese	102	30.4	**978**	21.3	118 *	16.2
Mercury	0.036 B	ND	**0.15**	ND	0.019 B	0.011 B
Nickel	1.8	1.9 BE	**17.2**	1.8 BE	10.1 *	2.0
Zinc	17.2	24.2	**409** E	31 *	68.9 *	38.9

Compound	SED-5 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Arsenic	0.6 B	0.52 B	**8.2**	**6.5**	**9.3** *	1.6
Cadmium	0.43	**1.6**	**52**	**28.8**	**73.5** *	**1.7**
Chromium	3.8	2.7	**33.3**	18.5 *	**44** *	3.5
Copper	4.7	4.7	**103**	**54** *	**166** *	9.0
Iron	3,400	3,410	**23,900**	**25,800**	**39,900** *	4,180
Lead	7.9	4.9	**215** E	**83.3**	**229** N*	9.4
Manganese	174	291	**2,140**	**3,750**	**1,210** *	417
Mercury	0.016 B	0.0055 B	**0.48**	**0.26**	**0.37**	0.023 B
Nickel	1.6	1 B	**19.2**	8 E	**22.5** *	1.9
Zinc	13.2	26.2	**290** E	**171** *	**440** *	24.2

Compound	SED-1 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Antimony	0.7 B	0.41 B	**2.2** BN	**6.4**	ND	ND
Arsenic	**7.9**	1.5	**8.7**	**16.1**	**15.2** *	**18.1**
Cadmium	**47.8**	**11.6**	**61.4** N*E	**69.2**	**81.2** *	**89.8**
Chromium	20.7	2.8	**27.1** E	**39.1** *	**50** *	**57.4**
Copper	**38.6**	**86.3**	**65.7**	**127** *	**121** *	**144**
Iron	10,300	3,880	19,700 E	**36,000**	**44,600** *	**26,700**
Lead	**170**	19.3	**176** N*E	**225**	**226** N*	**289**
Manganese	**1,290**	**1,200**	181 *	**2,250**	**22,600** *	**3,620**
Mercury	**0.21**	0.0071 B	**0.34**	**0.38**	**0.33** B	**0.52**
Nickel	11.4	3	**19.4**	**24.1** E	**24.1** *	**27.3**
Zinc	**215**	71.6	**445** *E	**493** *	**572** *	**642**

Compound	SED-4 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Arsenic	3.4	4.0	3.9	1.9	4.4 *	**6.2** B
Cadmium	**32.3**	**32.3**	**15.8** N*E	**14.8**	**47.3** *	**79.5**
Chromium	8.6	12.5	6.8 E	8.1 *	21.7 *	**45.4**
Copper	**21.6**	**35.7**	**17.1**	**22.6** *	**49.5** *	**117**
Lead	**71.2**	**193**	**34.3** N*E	**60.6**	**129** N*	**297**
Manganese	**837**	**845**	**11,700** *	272	**1,150** *	**1,820**
Mercury	0.096	0.059 BN	**0.21**	0.082	**0.18**	**0.39**
Silver	ND	ND	**1.1** B	ND	ND	ND
Zinc	**122**	**186**	110 *E	71.3 *	**232** *	**323**

Compound	SED-2 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Arsenic	**19.7**	2 B	1.8	**20.2**	**13.4** *	**19.2**
Cadmium	**133**	**21.2**	**12.5** N*E	**111**	**96.6** *	**122**
Chromium	**33.7**	7.7	6.5 E	**49.4** *	**45.2** *	**47.7**
Copper	**210**	**19.6**	15.6	**97.7** *	**80.2** *	**91.0**
Iron	**20,300**	8,940	3,850 E	**27,500**	17,300 *	**25,400**
Lead	**315**	**40.7**	25.8 N*E	**375**	**315** N*	**408**
Manganese	153	**1,300**	**769** *	**3,510**	**1,480** *	**3,790**
Mercury	**0.45**	0.047 BN	0.018 B	**0.35**	**0.50**	**0.49**
Nickel	**17.6**	6.8 E	3.2 B	**22** E	**17.6** *	**21.9**
Zinc	**402**	**138**	67.9 *E	**495** *	**406** *	**526**

Compound	SED-3 Jun-06	Aug-07	Nov-08	Mar-10	May-11	Sep-12
Cadmium	**1.5**	**27.7**	**1.7** N*E	**22.3**	**16.1** *	**14.1**
Copper	2.7	**16.7**	**32.4**	**32.5** *	10.9 *	8.5
Lead	9.2	**44.2**	**34** N*E	**85.9**	**46** N*	21.4
Manganese	89.8	**568**	**908** *	357	**1,090** *	132

LEGEND:

EXISTING WELLS INCLUDED IN LONG TERM MONITORING
(MW-1 was damaged in December 2007.)

ALL CONCENTRATIONS IN mg/Kg

BOLD RESULTS EXCEED CRITERION

RAILROAD TRACKS

SURFACE WATER, SEDIMENT SAMPLE LOCATION

Compound	NYSDEC Sediment Criteria Lowest Effect	Highest Effect
Antimony	2.0	25
Arsenic	6.0	33
Cadmium	0.6	9
Chromium	26	110
Copper	16	110
Iron	20,000	20,000
Lead	31	110
Manganese	460	1,100
Mercury	0.15	1.3
Nickel	16	50
Zinc	120	270

GRAPHIC SCALE
400 200 0 400
Scale in Feet

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC/jk

APPROVED BY : PK

MULTI SITE G - Dzus Fasteners
SITE NO. 1-52-033

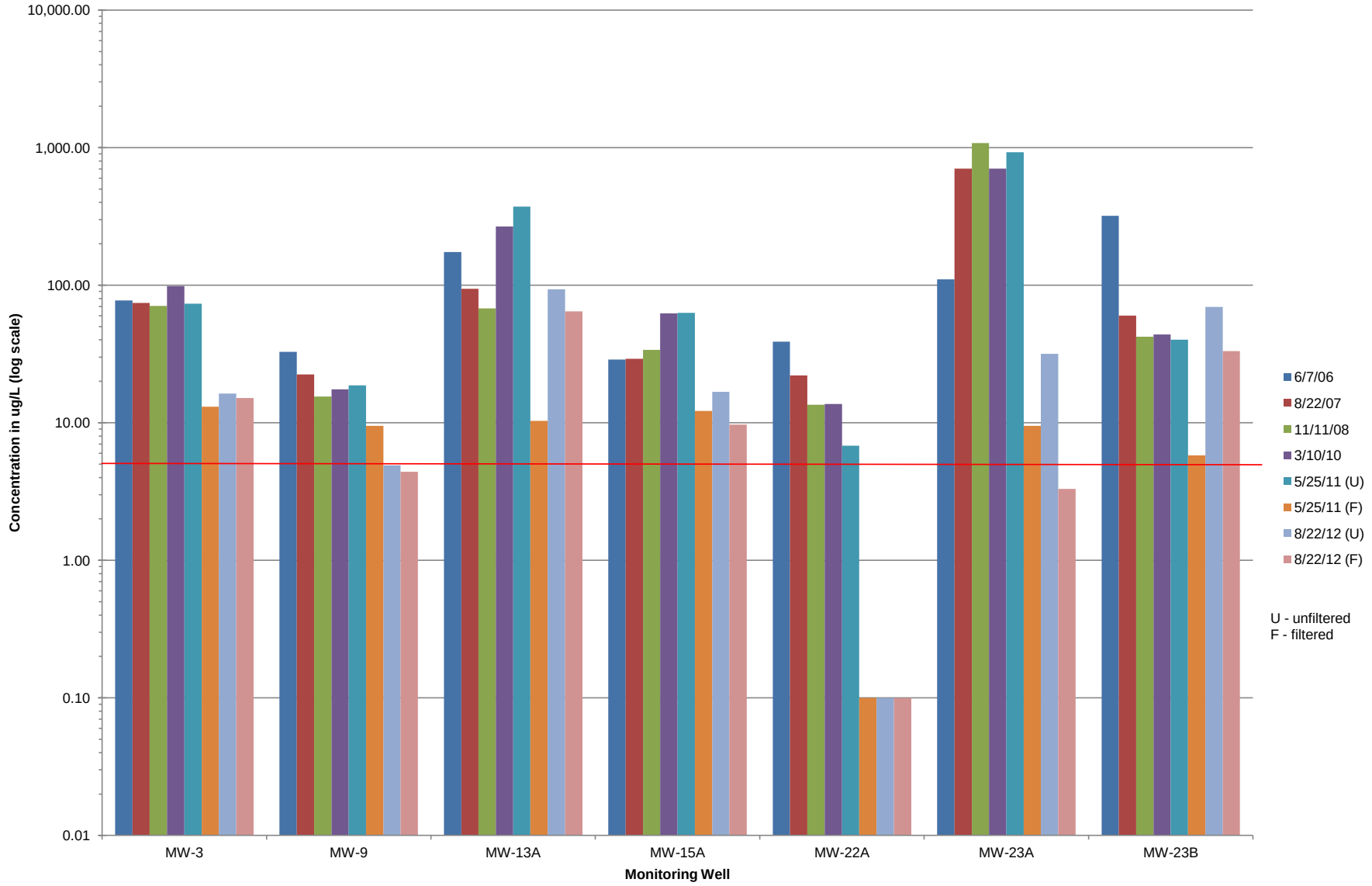
SUMMARY OF TAL METALS IN SEDIMENT

DATE : NOV. 2012

SCALE : AS SHOWN

DRAWING NO. : 6

FIGURE 7
CADMIUM CONCENTRATIONS IN SELECTED MONITORING WELLS
DZUS FASTENERS SITE (1-52-033)



Cadmium Class GA criterion is 5 ug/L
ND values shown as 0.10 ug/L for plotting purposes

N

DZUS FACILITY

MW-17

MW-5

MW-20

(4.4)
MW-9

MW-9B
(ND)

MW-4R

MW-22B
(ND)

MW-22A
(ND)

MW-15B
(ND)

MW-3
(15.1)

MW-1
(NA)

MW-8

MW-21B

MW-21A

MW-15A
(9.7)

SED-6
SW-6

MW-7

MW-2
(ND)

MW-7B

MW-12

MW-13A
(64.4)

5

10

MW-6

MW-13B
(1.1)

MW-23A
(3.3)

MW-24

MW-23B
(33.1)

MW-24B

Beech Street Middle School

SED-5
SW-5

BS-02

BS-01

BS-03

Willetts Creek

MW-18
(ND)

LEGEND:

- EXISTING WELLS INCLUDED IN LONG TERM MONITORING (MW-1 was damaged in December 2007.)
- EXISTING MONITORING WELLS
- MISSING MONITORING WELLS
- SURFACE WATER AND SEDIMENT SAMPLE LOCATION
- NA NOT ANALYZED
- ND NOT DETECTED

(9.7) FILTERED CADMIUM CONCENTRATION IN ug/L

10 CADMIUM ISOCONCENTRATION LINE. CONTOUR INTERVAL IS 5ug/L. DASHED WHERE INFERRED

RAILROAD TRACKS

GRAPHIC SCALE

400 200 0 200 400

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC/jk

APPROVED BY : PK

MULTI SITE G - Dzus Fasteners
SITE NO. 1-52-033

FILTERED CADMIUM ISOCONCENTRATION MAP AUGUST 2012

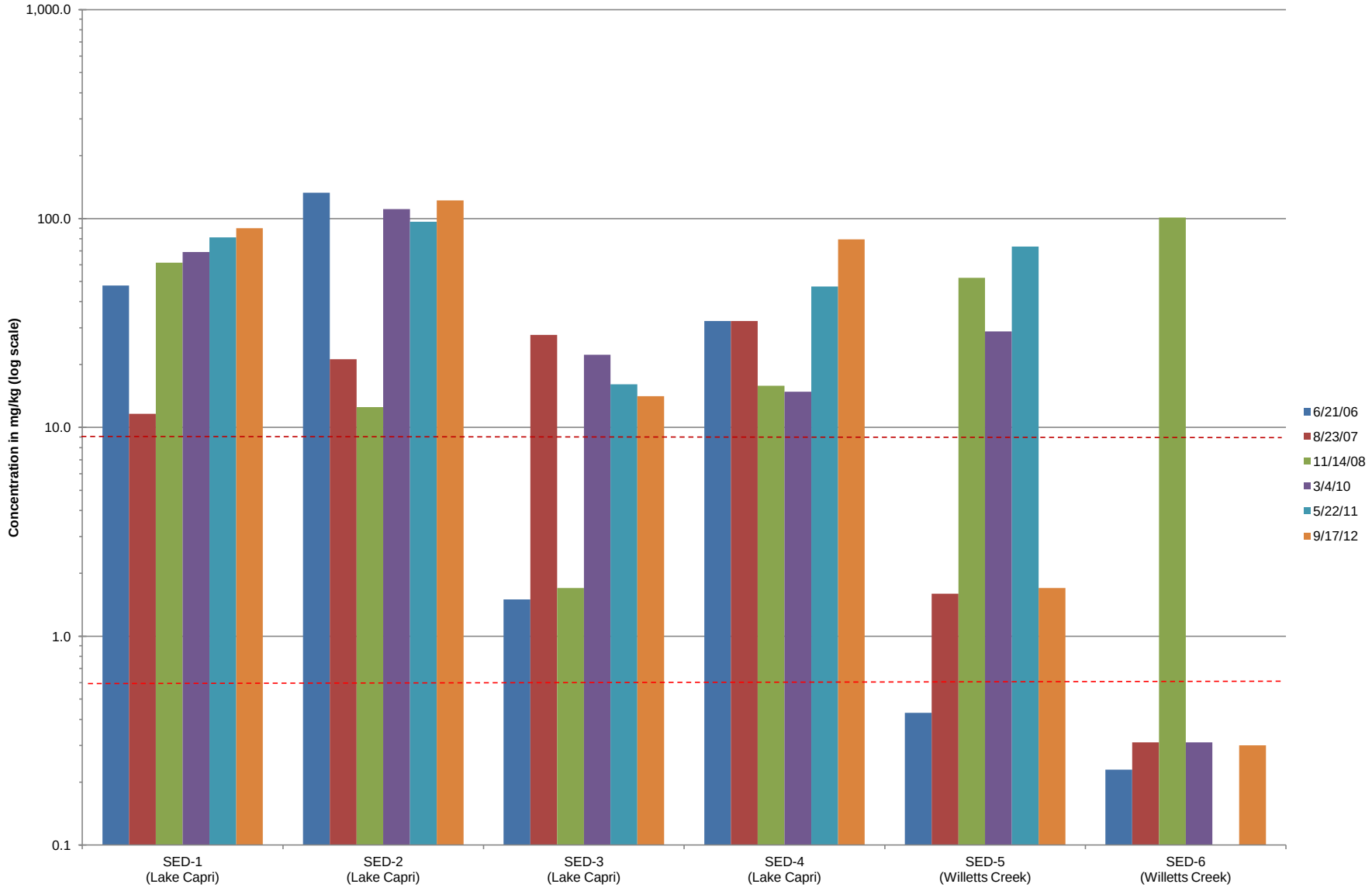
DATE : NOV. 2012

SCALE : AS SHOWN

DRAWING NO. : 8

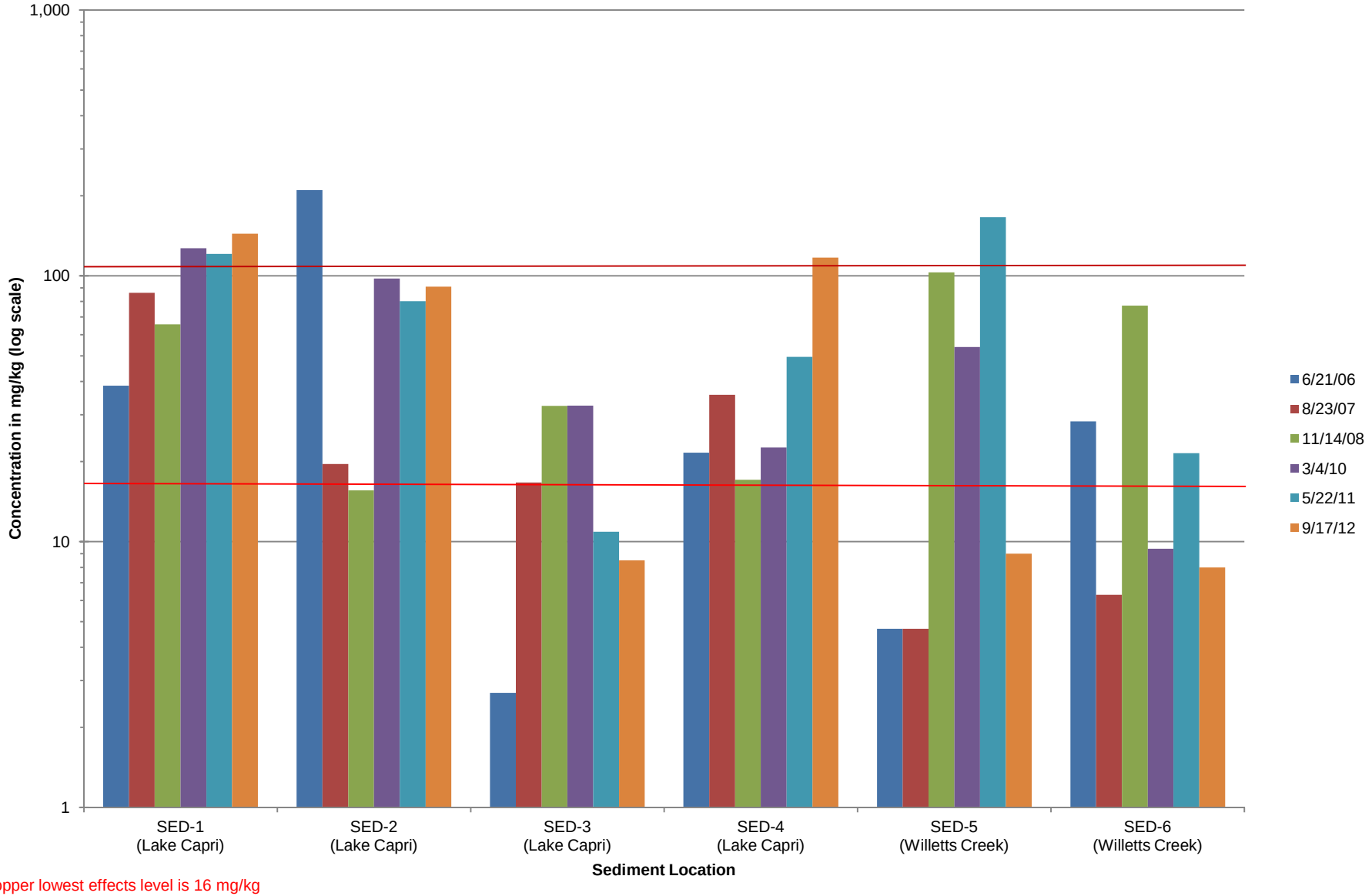
File: J:\Project\Dzus\Cadd\Drawings\FltCadmiumIsoMap-2012-11-13.dwg Layout: Fig8 User: karchj1 Plotted: Nov 13, 2012 - 1:56pm

FIGURE 9
CADMIUM CONCENTRATIONS IN LAKE CAPRI AND WILLETTS CREEK SEDIMENT SAMPLES
DZUS FASTENERS SITE (1-52-033)



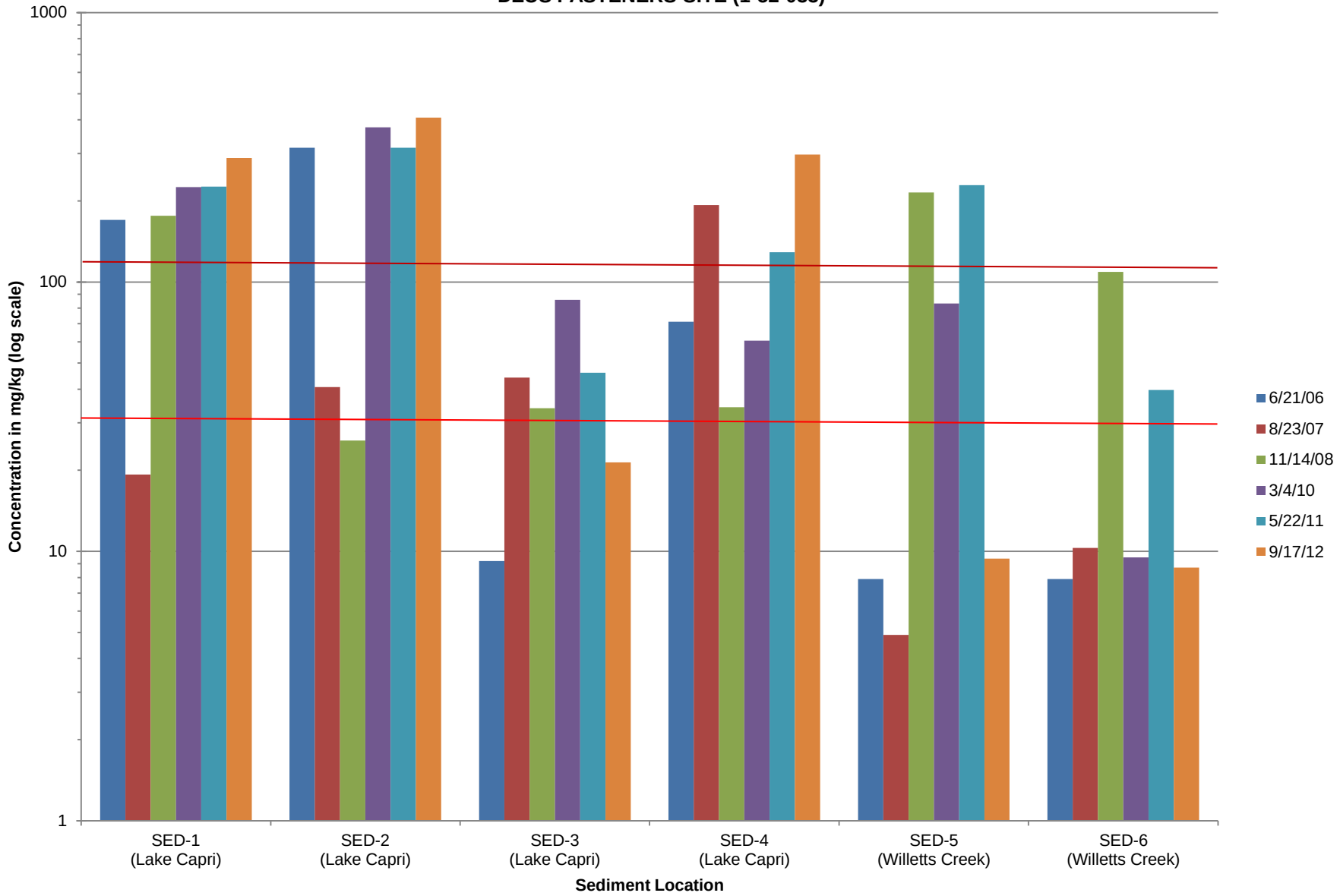
Cadmium Lowest effects level is 0.6 mg/kg
Highest effects level is 9 mg/kg (ROD cleanup criteria)

FIGURE 10
COPPER CONCENTRATIONS IN LAKE CAPRI & WILLETTS CREEK SEDIMENT SAMPLES
DZUS FASTENERS SITE (1-52-033)



Copper lowest effects level is 16 mg/kg
Copper highest effects level is 110 mg/kg

FIGURE 11
LEAD CONCENTRATIONS IN LAKE CAPRI & WILLETTS CREEK SEDIMENT SAMPLES
DZUS FASTENERS SITE (1-52-033)



Lead lowest effects level is 31 mg/kg
Lead highest effects level is 110 mg/kg

Appendix A

NYSDEC Monitoring Well Field Inspection Logs

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 0910
WELL ID.: MW-01

	YES	NO
WELL VISIBLE? (If not, provide directions below)		

WELL COORDINATES? Latitude: 40° 42.49 Longitude: 73° 18.10 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	
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
SURFACE SEAL PRESENT?		
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe .		
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		

HEADSPACE READING (ppm) AND INSTRUMENT USED: Mini RAE 2000
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE:
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

	YES	NO
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?		

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.

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.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

REMARKS:
The well was apparently destroyed during snow removal operations in 12/2007.

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 9000
WELL ID.: MW-2

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40º 42.49 Longitude: 73º 18.10 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		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
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: Mini RAE 2000 0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) Flushmount
PROTECTIVE CASING MATERIAL TYPE: SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?	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): 14.4
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 8.33
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.

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 grassy area between parking lot and fence along union.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
on-site

REMARKS:
1/4" OD poly tubing left in well. Concrete is all the way up above the PVC. Hard to keep dirt from falling in when opening.

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1100
WELL ID.: MW-3

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.49 Longitude: 73° 18.02 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		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: N/A

	YES	NO
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: Mini RAE 2000 0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) Flushmount
PROTECTIVE CASING MATERIAL TYPE: SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		NA
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): 15.0
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 6.23
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

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.
In a grassy area on Dzus property along Union Blvd

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
on-site

REMARKS:
1/4" OD poly tubing left in well.

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1100
WELL ID.: MW-9

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.50 Longitude: 73° 18.02 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		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: N/A wrongly numbered on road

	YES	NO
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: Mini RAE 2000	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Flushmount
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?		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):	11.95
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.05
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

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.
pavement along east side of Dzus building

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
on-site, parking lot

REMARKS:
1/4" OD poly tubing left in well.

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1100
WELL ID.: MW-9B

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.49 Longitude: 73° 18.01 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) Move back 30 ft	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A written on road

	YES	NO
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: Mini RAE 2000 0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) Flushmount
PROTECTIVE CASING MATERIAL TYPE: SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?	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): 44.12
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 5.00
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 -

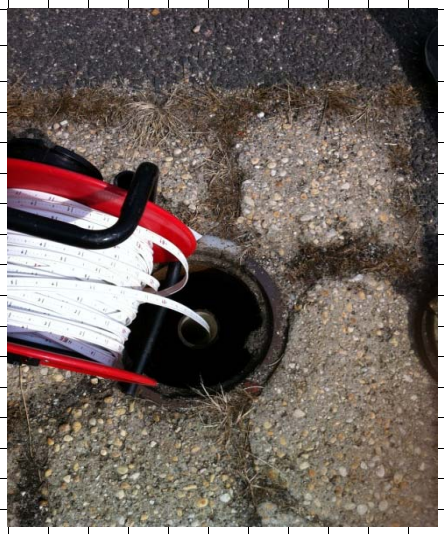
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig

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.
pavement along east side of Dzus building

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
on-site, parking lot

REMARKS:
1/4" OD poly tubing left in well. New bolts needed

SKETCH



SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1730
WELL ID.: MW-13A

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.44 Longitude: 73° 17.100 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On pavement (spray paint)		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
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: Mini RAE 2000	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Flushmount
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	8

	YES	NO
LOCK PRESENT?	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):	10.70
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	2.93
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

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.

In parking lot across the street from the site near liquor store.

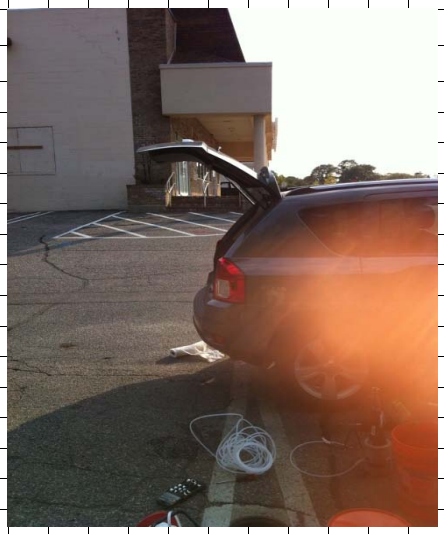
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

parking lot

REMARKS:

1/4" OD poly tubing left in well.

SKETCH



SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1615
WELL ID.: MW-13B

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.43 Longitude: 73° 17.99 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On pavement (spray paint)		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
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: Mini RAE 2000	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Flushmount
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	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):	44.4
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	3.77
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

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.

In parking lot across the street from the site near liquor store.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

parking lot

REMARKS:

1/4" OD poly tubing left in well. New bolt needed, new seal needed, silted up inside.

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1400
WELL ID.: MW-15A

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.49 Longitude: 73° 17.97 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On pavement (spray paint)		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
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap is missing

HEADSPACE READING (ppm) AND INSTRUMENT USED: Mini RAE 2000	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Flushmount
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	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):	28.8
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.69
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

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.

Asphalt parking lot in front of ACE hardware store toward Union Blvd.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

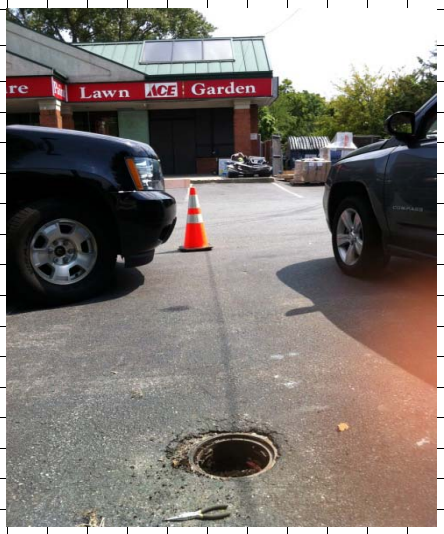
parking lot, stockpiled soil/fertilizer in parking lot

REMARKS:

Steel casing lid is completely missing, completely silted up. Same type/size lid as currently at MW-13A.

Lid is the type with one bold in the center. 1/4" OD poly tubing left in well.

SKETCH



SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1410
WELL ID.: MW-15B

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? Latitude: 40° 42.50 Longitude: 73° 17.96 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On asphalt pavement (spray paint)		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
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: Mini RAE 2000	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Flushmount
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	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):	81.2
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.65
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	-

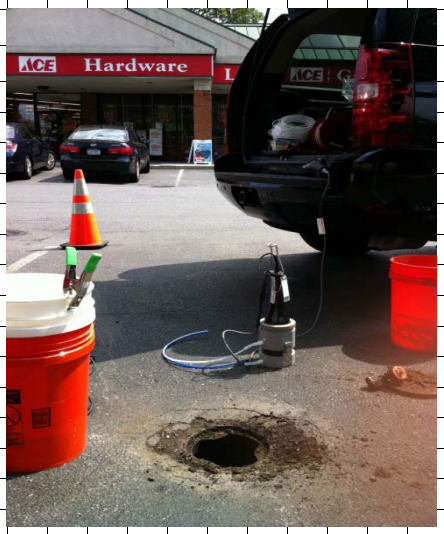
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig

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.
Asphalt parking lot in front of ACE hardware store toward Union Blvd.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
parking lot, stockpiled soil/fertilizer in parking lot

REMARKS:
consider bringing larger diameter tubing next time. The 1/4"OD poly was very hard to get down.

SKETCH



SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/23/2012 1715
WELL ID.: MW-18

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 70.27 Longitude: 73° 30.14 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On pavement (spray paint)		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: X

	YES	NO
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: Mini RAE 2000 0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) Flushmount
PROTECTIVE CASING MATERIAL TYPE: SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?	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): 13.4
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 4.92
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

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.
By bushes across from street light on grassy area in high school parking lot.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
none evident

REMARKS:
1/4" OD poly tubing left in well. New bolts needed

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/23/2012 1500
WELL ID.: MW-22A

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.491 Longitude: 73° 17.941 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On concrete pad (spray paint)	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: N/A

	YES	NO
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: Mini RAE 2000 0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) Flushmount
PROTECTIVE CASING MATERIAL TYPE: SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 6

	YES	NO
LOCK PRESENT?	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): 14.32
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 6.45
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

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.
In the grassy area around side of laundromat

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
creek nearby with orange water

REMARKS:
1/4" OD poly tubing left in well. New bolts needed

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/23/2012 1500
WELL ID.: MW-22 B

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.491 Longitude: 73° 17.941 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On concrete pad	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: N/A

	YES	NO
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: Mini RAE 2000 — 0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) — Flushmount
PROTECTIVE CASING MATERIAL TYPE: — SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): — 6

	YES	NO
LOCK PRESENT?	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): — 44.5
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): — 6.28
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

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.

In the grassy area around side of laundromat

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

creek nearby with orange water

REMARKS:

1/4" OD poly tubing left in well. New bolts needed

SKETCH

SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1645
WELL ID.: MW-23A

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.402 Longitude: 73° 17.991 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On asphalt pavement (spray paint)		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
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: Mini RAE 2000	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Flushmount
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	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):	14.4
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.30
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	-

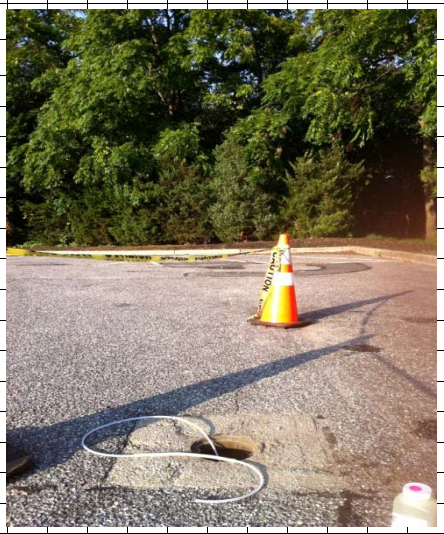
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig

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.
pavement behind building (currently liquor store)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
parking lot

REMARKS:
1/4" OD poly tubing left in well. New bolts needed

SKETCH



SITE NAME: **Dzus Fasteners**

SITE ID.: 1-52-033
INSPECTOR: CF/RP

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 8/22/2012 1640
WELL ID.: MW-23B

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? Latitude: 40° 42.403 Longitude: 73° 17.987 Se See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? On asphalt pavement (spray paint)		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: X

	YES	NO
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: Mini RAE 2000	0.0 PID
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Flushmount
PROTECTIVE CASING MATERIAL TYPE:	SS
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	6

	YES	NO
LOCK PRESENT?	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):	44.2
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	4.62
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

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.
pavement behind building (currently liquor store)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
parking lot

REMARKS:
1/4" OD poly tubing left in well. New bolts needed

SKETCH

Appendix B

Well and Surface Water Sampling Forms

AECOM

WELL NO. MW-2

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 0.99 gallons WELL TD: 14.4 ft PUMP INTAKE DEPTH: 9.4 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
9:00	8.33								Static water level
9:15									pump on
9:25	8.33	200	20.15	0.228	2.71	6.03	124	0.0	clear
9:35	8.33	200	20.03	0.208	1.80	5.99	114	0.0	
9:45	8.33	200	19.94	0.206	1.75	5.99	120	0.0	
9:55	8.33	200	20.05	0.209	1.83	6.03	119	0.0	
10:15									Unfiltered Sample DMW-2 Collected
									+MS/MSD
10:20									Filtered Sample DMW-2F Collected
									+MS/MSD
10:25									Duplicate Unfiltered DMW-52 Collected
10:30									Dupicate Filtered DMW-52F Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-3

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 1.43 gallons WELL TD: 15.0 ft PUMP INTAKE DEPTH: 12 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
10:54	6.23								Static water level
11:00	6.23								pump on
11:05	6.23	350	19.61	0.226	9.53	5.90	158	42.3	
11:15	6.23	350	19.02	0.202	3.23	5.76	194	0.0	
11:25	6.23	350	18.98	0.202	3.10	5.70	217	0.0	
11:35	6.23	350	19.00	0.201	0.31	5.66	223	0.0	
11:45	6.23	350	19.10	0.202	2.99	5.64	226	0.0	
11:50									Unfiltered Sample DMW-3 Collected
11:55									Filtered Sample DMW-3F Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-9

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 1.12 gallons WELL TD: 11.95 ft PUMP INTAKE DEPTH: 9 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
12:10	5.05								Static water level
12:14	5.05								pump on
12:15	5.05	275	22.42	0.218	3.29	5.94	195	61.9	clear
12:25	5.05	275	22.43	0.234	3.33	6.03	210	45.7	
12:35	5.05	275	22.49	0.234	3.29	6.00	215	36.6	
12:40	5.05	275	22.44	0.235	3.20	5.98	212	34.1	
12:45									Filtered Sample DMW-9F Collected
12:50									Unfiltered Sample DMW-9 Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-9B

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 6.38 gallons WELL TD: 44.1 ft PUMP INTAKE DEPTH: 42 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
10:45	5.00								Static water level
10:59	5.00								pump on
11:00	5.00	250	18.29	0.158	6.27	5.69	225	61.2	clear
11:10	5.00	250	18.23	0.171	4.18	5.59	222	66.1	
11:20	5.00	250	17.86	0.175	3.75	5.53	222	54.3	
11:30	5.00	250	17.64	0.177	3.58	5.50	225	51.9	
11:40	5.00	250	17.54	0.178	3.59	5.48	226	36.0	
11:50	5.00	250	17.58	0.177	3.58	5.51	229	27.6	
12:00									Filtered Sample DMW-9BF Collected
12:05									Unfiltered Sample DMW-9B Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-13A

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 1.74 gallons WELL TD: 10.70 ft PUMP INTAKE DEPTH: 8 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
17:40									Static water level
17:50									pump on, no water
18:00									water
18:10	2.95	275	21.36	0.257	0.54	7.02	-38	156.0	
18:20	2.95	275	21.23	0.266	0.59	7.04	-66	21.1	
18:30	2.95	275	21.17	0.270	0.56	7.02	-66	14.7	
18:40	2.95	275	21.16	0.270	0.59	7.01	-66	14.2	
18:45									Unfiltered Sample DMW-13A Collected
18:50									Filtered Sample DMW-13AF Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-13B

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 6.79 gallons WELL TD: 44.4 ft PUMP INTAKE DEPTH: 39.4 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
16:15	2.77								Static water level
16:25									pump on
16:35	2.79	275	17.80	0.129	19.02	5.76	254	8.5	clear
16:45	2.77	275	18.72	0.135	15.93	5.76	255	4.3	
16:55	2.77	275	18.43	0.135	15.69	5.68	260	0.0	
17:05	2.77	275	18.98	0.136	14.82	5.67	263	0.0	
17:15	2.77	275	18.85	0.136	14.49	5.69	262	0.0	
17:20									Unfiltered Sample DMW-13B Collected
17:25									Filtered Sample DMW-13BF Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-15A

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 2.14 gallons WELL TD: 18.8 ft PUMP INTAKE DEPTH: 27 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
14:20	5.69								Static water level
14:30									pump on
14:35	5.69	300	19.12	0.203	2.61	5.74	240	0.0	clear
14:45	5.69	300	19.11	0.212	2.62	5.67	245	0.0	
14:55	5.69	300	19.01	0.212	4.48	5.63	252	0.0	
15:05	5.69	300	18.48	0.213	4.08	5.61	258	0.0	
15:15	5.69	300	18.44	0.214	4.08	5.60	260	0.0	
15:25	5.69	300	18.44	0.214	4.09	5.60	261	0.0	
15:30									Unfiltered Sample DMW-15A Collected
15:35									Filtered Sample DMW-15AF Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-15B

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 12.80 gallons WELL TD: 84.2 ft PUMP INTAKE DEPTH: 76.2 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
14:10	5.65								Static water level
14:25	5.70								pump on
14:35	5.70	275	18.82	0.314	1.49	5.32	248	5.8	clear
14:45	5.70	275	18.77	0.314	1.39	5.27	256	121	light brown
14:55	5.70	275	18.62	0.313	1.80	5.25	260	10.4	clear
15:05	5.70	275	18.60	0.311	1.81	5.23	263	35.4	
15:15	5.70	275	18.14	0.311	1.89	5.21	269	32.3	
15:20									Filtered Sample DMW-15BF Collected
15:25									Unfiltered Sample DMW-15B Collected
									1/4" (OD) poly tubing would not go back
									into well, discarded

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-18

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/23/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 1.38 gallons WELL TD*: 13.4 ft PUMP INTAKE DEPTH: 10 ft

*difficult to get past 6.7 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
17:30	4.92								Static water level
17:35									pump on
17:40	4.92	300	19.62	0.255	6.71	6.61	181	228	
17:50	4.92	300	18.94	0.218	1.96	6.29	190	0.0	
18:00	4.92	300	18.89	0.214	2.01	6.17	197	0.0	
18:10	4.92	300	18.80	0.214	1.99	6.14	199	0.0	
18:20	4.92	300	18.78	0.212	1.99	6.14	200	0.0	
18:25									Filtered Sample DMW-18F Collected
18:30									Unfiltered Sample DMW-18 Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-22A

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/23/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 1.28 gallons WELL TD: 14.32 ft PUMP INTAKE DEPTH: 10 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
14:30	6.45								Static water level
14:35	6.45								pump on
14:45	6.45	250	30.08	0.310	1.32	6.68	-37	0.0	
14:55	6.45	250	27.90	0.303	0.94	6.58	-66	147	rust colored
15:05	6.45	250	27.40	0.310	0.76	6.63	-90	349	
15:15	6.45	250	27.67	0.311	0.70	6.65	-100	200	
15:25	6.45	250	27.57	0.375	0.76	6.62	-99	15.9	
15:35	6.45	250	27.02	0.404	0.72	6.61	-100	31.5	
15:45	6.45	250	27.03	0.407	0.75	6.69	-108	49.8	
16:05	6.45	250	27.07	0.409	0.75	6.68	-106	36.3	
16:15	6.45	250	27.03	0.409	0.77	6.68	-108	35.2	
16:20									Filtered Sample DMW-22AF Collected
16:25									Unfiltered Sample DMW-22A Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-22B

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/23/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 6.23 gallons WELL TD: 44.5 ft PUMP INTAKE DEPTH: 40 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
14:30	6.28								Static water level
14:40	6.28								pump on
14:50	6.28	250	17.16	0.290	4.15	6.26	185	0.0	
15:00	6.28	250	17.31	0.289	2.13	6.22	187	0.0	
15:10	6.28	250	17.08	0.278	1.06	6.12	191	0.0	
15:20	6.28	250	16.89	0.275	0.96	6.10	190	0.0	
15:30	6.28	250	16.56	0.275	0.86	6.10	189	0.0	
15:40	6.28	250	16.75	0.274	0.81	6.14	183	0.0	
15:50	6.28	250	16.50	0.272	0.70	6.13	181	0.0	
16:00	6.28	250	16.55	0.272	0.68	6.12	180	0.0	
16:10	6.28	250	16.58	0.272	0.64	6.10	180	0.0	
16:12									Unfiltered Sample DMW-22B Collected
16:17									Filtered Sample DMW-22BF Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-23A

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 1.48 gallons WELL TD: 14.4 ft PUMP INTAKE DEPTH: 12 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
17:20	5.30								Static water level
17:25	5.30								pump on
17:30	5.30	275	22.45	0.522	4.10	6.47	-75	0.0	
17:40	5.30	275	22.49	0.494	1.25	6.52	-44	0.0	
17:50	5.30	275	22.58	0.492	1.20	6.53	-50	0.0	
18:00	5.20	275	22.60	0.491	1.21	6.56	-59	0.0	
18:05									Filtered Sample DMW-23AF Collected
18:10									Unfiltered Sample DMW-23A Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

WELL NO. MW-23B

WELL SAMPLING FORM	PROJECT: Dzus Fasteners	PROJECT No.: 60135736	SHEET 1 OF SHEETS 1
LOCATION: West Islip, NY		DATE WELL SAMPLED: 8/22/2012	
CLIENT: NYSDEC		NAME OF INSPECTOR: Celeste Foster and Rita Papagian	

ONE WELL VOLUME : 6.45 gallons WELL TD: 44.2 ft PUMP INTAKE DEPTH: 40 ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS Temp. (℃)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
16:10	4.62								Static water level
16:15	4.60								pump on
16:25	4.60	250	19.06	0.184	1.28	6.12	-88	0.0	clear
16:35	4.60	250	19.23	0.203	1.24	5.91	-45	0.0	
16:45	4.60	250	19.17	0.207	1.00	5.91	-6	0.0	
16:55	4.60	250	19.11	0.207	1.03	5.94	-1	0.0	
17:05	4.60	250	19.10	0.208	1.06	5.91	-8	0.0	
17:10									Filtered Sample DMW-23BF Collected
17:15									Unfiltered Sample DMW-23B Collected
									1/4" poly tubing put back into the well.

Pump Type: Peristaltic Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

Appendix C

Laboratory Data Packages

APPENDIX C TABLE 1
DZUS FASTENERS SITE (1-52-033)
SUMMARY OF TAL METALS IN GROUNDWATER (AUGUST 2012 SAMPLING EVENT)

Sample Location	NYSDEC	MW-1	MW-2	MW-2	MW-3	MW-3	MW-9	MW-9	MW-9B	MW-9B
Sample ID	Class GA	DMW-1	DMW-2	DMW-2F	DMW-3	DMW-3F	DMW-9	DMW-9F	DMW-9B	DMW-9BF
Laboratory ID	Ground	destroyed	L1807-19	L1808-15	L1807-20	L1808-17	L1807-21	L1808-19	L1807-22	L1808-18
Sample Date	Water	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12
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	conc. Q
Aluminum	NC	NA	328	66 U	66 U	66 U	163 B	66 U	66 U	66 U
Antimony	3	NA	9.3 U	9.3 U	***10.7*** B	9.3 U	***9.5 B***	9.3 U	9.3 U	9.3 U
Arsenic	25	NA	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	NA	20.4 B	18.4 B	29.0 B	28.0 B	17.8 B	17.0 B	22.2 B	21.1 B
Beryllium	3	NA	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	NA	0.89 U	0.89 U	***16.3***	***15.1***	4.9 B	4.4 B	0.89 U	0.89 U
Calcium	NC	NA	12,500 E	12,300	11,100 E	10,700	13,900 E	13,700	9,300 E	8,330
Chromium	50	NA	0.73 B	0.64 U	0.64 U	0.90 B	8.3 B	4.0 B	0.82 B	0.64 U
Cobalt	NC	NA	1.2 B	1.0 B	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Copper	200	NA	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
Iron	300	NA	***1,590 E***	***1,060***	50.5 B	31 U	***556 E***	31 ***U***	39.5 B	31 U
Lead	25	NA	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Magnesium	35,000	NA	1,850	1,790	2,220	2,180	3,300	3,220	1,680	1,480
Manganese	300	NA	124	115	10 U	10 U	10 U	10 U	10 U	10 U
Mercury	0.7	NA	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	NA	1.7 B	1.3 B	0.92 B	0.85 U	1.4 B	2.3 B	0.85 U	0.85 U
Potassium	NC	NA	1,440	1,430	2,420	2,400	1,420	1,390	1,800	1,790
Selenium	10	NA	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 ***U***
Silver	50	NA	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	NA	***24,400 E***	***23,500***	***23,400 E***	***23,000***	***26,300 E***	***25,900***	***21,400 E***	19,700
Thallium	0.5	NA	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	NA	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	2,000	NA	18.4 B	5.2 B	4.9 U	7.1 B	12.9 B	11.8 B	4.9 U	4.9 U

Notes
All values in µg/L
BOLD/Italics - exceeds criterion
E - Estimated due to matrix interference
B - Estimated value (greater than MDL but less than RL)
NC - No Criteria
NA - Not analyzed

APPENDIX C TABLE 1
DZUS FASTENERS SITE (1-52-033)
SUMMARY OF TAL METALS IN GROUNDWATER (AUGUST 2012 SAMPLING EVENT)

Sample Location	NYSDEC	MW-13A	MW-13A	MW-13B	MW-13B	MW-15A	MW-15A	MW-15B	MW-15B	MW-18
Sample ID	Class GA	DMW-13A	DMW-13AF	DMW-13B	DMW-13BF	DMW-15A	DMW-15AF	DMW-15B	DMW-15BF	DMW-18
Laboratory ID	Ground	L1807-15	L1808-25	L1807-27	L1808-23	L1807-25	L1808-21	L1807-24	L1808-20	L1807-18
Sample Date	Water	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/22/12	8/23/12
Filtered/Unfiltered	Criteria	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered
		conc.	conc.	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	204	66 U	66 U	66 U	66 U	66 U	66 U	66 U	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
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 B	4.3 U
Barium	1,000	77.9 B	31.4 B	23.1 B	22.4 B	15.9 B	15.0 B	32.4 B	29.4 B	19.7 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
Cadmium	5	***93.5***	***64.4***	1.5 B	1.1 B	16.8	***9.7***	0.89 U	0.89 U	0.89 U
Calcium	NC	7,850	7,800	11,300 E	10,600	13500 E	13,400	12200 E	11,500	14,000
Chromium	50	2.8 B	1.9 B	21.2	21.4	0.64 U	1.2 B	0.64 U	0.64 U	0.75 B
Cobalt	NC	33.7 B	15.1 B	0.67 U	0.67 U	0.67 U	0.67 U	1.5 B	1.4 B	0.67 U
Copper	200	6.7 B	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	18.1 B	3.6 U
Iron	300	***3,690***	***1,580***	31 U	31 U	31 U	31 ***U***	1510 E	48.4 B	35.3 B
Lead	25	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Magnesium	35,000	936	960	1,630	1,550	2,460	2,440	4700	4,490	2,360
Manganese	300	***6,190***	***3,430***	54.3	19.7 B	238	41.1 B	189	174	113
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
Nickel	100	1.1 B	2.7 B	0.85 U	0.85 U	0.85 U	1.1 B	1.5 B	2.7 B	0.85 U
Potassium	NC	2,250 E	2,140	1,340	1,360	2110	2,230	1,470	1,510	2,310 E
Selenium	10	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
Sodium	20,000	***47,000***	***46,900***	9,260 E	8,950	20400 E	***20,400***	***40,800 E***	***39,100***	17,900
Thallium	0.5	***9.2*** B	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	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	2,000	9.5 B	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	12.1 B	23.7 B	4.9 U

Notes
All values in µg/L
BOLD/Italics - exceeds criterion
E - Estimated due to matrix interference
B - Estimated value (greater than MDL but less than RL)
NC - No Criteria
NA - Not analyzed

APPENDIX C TABLE 1
DZUS FASTENERS SITE (1-52-033)
SUMMARY OF TAL METALS IN GROUNDWATER (AUGUST 2012 SAMPLING EVENT)

Sample Location	NYSDEC	MW-18		MW-22A		MW-22A		MW-22B		MW-22B		MW-23A		MW-23A		MW-23B		MW-23B	
Sample ID	Class GA	DMW-18F		DMW-22A		DMW-22AF		DMW-22B		DMW-22BF		DMW-23A		DMW-23AF		DMW-23B		DMW-23BF	
Laboratory ID	Ground	L1808-28		L1807-17		L1808-27		L1807-16		L1808-26		L1807-28		L1808-24		L1807-26		L1808-22	
Sample Date	Water	8/23/12		8/23/12		8/23/12		8/23/12		8/23/12		8/22/12		8/22/12		8/22/12		8/22/12	
Filtered/Unfiltered	Criteria	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
Aluminum	NC	66	U	66	U	66	U	66	U	66	U	161	B	66	U	103	B	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
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
Barium	1,000	17.0	B	36.1	B	37.8	B	39.6	B	40.5	B	28.0	B	27.3	B	29	B	26.8	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
Cadmium	5	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	***31.7***		3.3	B	***69.6***		***33.1***	
Calcium	NC	14,300		27,600		28,200		22,400		22,500		26,700	E	26,400		18,100	E	17,700	
Chromium	50	0.64	U	2.2	B	1.7	B	0.64	U	0.64	U	1.2	B	4.0	B	10.7	B	7.8	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
Copper	200	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U	6.7	B	3.6	U	4.1	B	3.6	U
Iron	300	31	U	***2,700***		***2,690***		110	B	31	U	***1,860***	***E***	***602***		279	E	117	B
Lead	25	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U
Magnesium	35,000	2,410		4,060		4,210		3,860		3,950		4,950		4,750		2,950		2,910	
Manganese	300	23.4	B	***437***		***443***		***748***		***726***		***1,110***		***1,170***		138		135	
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
Nickel	100	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	2.0	B	2.4	B	1.3	B
Potassium	NC	2,410		2,980	E	3,040		4,470	E	4,270		5,770		5,790		1,760		1,820	
Selenium	10	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
Sodium	20,000	18,700		***59,700***		***61,000***		19,200		19,000		***74,100***	***E***	***73,400***		15,000	E	14,700	
Thallium	0.5	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	1.1	U	1.1	B	1.1	U	1.1	U	1.1	U
Zinc	2,000	4.9	U	16.9	B	16.1	B	5.7	B	4.9	U	4.9	U	5.9	B	17.7	B	4.9	U

Notes
All values in µg/L
BOLD/Italics - exceeds criterion
E - Estimated due to matrix interference
B - Estimated value (greater than MDL but less than RL)
NC - No Criteria
NA - Not analyzed

APPENDIX C, TABLE 2
DZUS FASTENERS SITE (1-52-033)
SEPTEMBER 2012 SAMPLING EVENT
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SURFACE WATER SAMPLES

Sample Location	NYSDEC Class A Surface Water Criteria	Lake Capri		Lake Capri		Lake Capri		Lake Capri		Willetts Creek		Willetts Creek	
Sample ID		SW-1		SW-2		SW-3		SW-4		SW-5		SW-6	
Laboratory ID		L1949-01		L1949-02		L1949-03		L1949-04		L1949-05		L1949-06	
Sample Date		09/17/12		09/17/12		09/17/12		09/17/12		09/18/12		09/17/12	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	66	U	66	U	66	U	66	U	66	U	84.4	B
Antimony	3	9.3	U	9.3	U	9.3	U	9.3	U	9.3	U	9.3	U
Arsenic	50	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Barium	1,000	20.8	B	20.2	B	17.2	B	19.6	B	31.4	B	23.6	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	4.1	B	0.89	U
Calcium	NC	14,900		14,700		14,500		13,900		15,200		21,400	
Chromium	50	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	1.7	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	3.8	B	3.6	U
Iron	300	172	B	176	B	144	B	152	B	***690***		***6,840***	
Lead	50	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U
Magnesium	35,000	3,420		3,360		3,310		3,190		3,510		4,860	
Manganese	300	***552***		***564***		***355***		***463***		***519***		***1,160***	
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	0.85	U	0.85	U	0.91	B
Potassium	NC	2,300		2,330		2,210		2,150		2,240		2,460	
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	***24,600***		***23,800***		***23,500***		***23,900***		***28,100***		***32,100***	
Thallium	0.5	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	1.1	U	1.1	U
Zinc	2,000	10.1	B	5.3	B	4.9	U	5.3	B	15.9	B	21.3	B

Notes: All values in µg/L
NC - No Criteria
BOLD/Italics - exceeds criterion
B - Estimated value (greater than MDL but less than RL)

APPENDIX C, TABLE 3
DUZS FASTENERS SITE (1-52-033)
SEPTEMBER 2012 SAMPLING EVENT
SUMMARY OF TAL METALS IN WILLETTS CREEK AND LAKE CAPRI SEDIMENT SAMPLES

Sample Location	NYSDEC Technical Guidance for Sediment Criteria		Lake Capri		Lake Capri		Lake Capri		Lake Capri		Willetts Creek		Willetts Creek	
Sample ID			SED-1		SED-2		SED-3		SED-4		SED-5		SED-6	
Laboratory ID			L1949-09		L1949-10		L1949-11		L1949-12		L1949-13		L1949-14	
Sample Date	Lowest Effect	Highest Effect	9/17/12 conc.	Q	9/17/12 conc.	Q	9/17/12 conc.	Q	9/17/12 conc.	Q	9/18/12 conc.	Q	9/18/12 conc.	Q
Aluminum	NC	NC	10,800		8,300		1,580		11,700		345		574	
Antimony	2.0	25	9.3	U	9.3	U	9.3	U	9.3	U	0.38	U	0.38	U
Arsenic	6.0	33	***18.1***		***19.2***		2.3		***6.2***	***B***	1.6		0.64	B
Barium	NC	NC	203		209		10.2	B	103		15.1		2.7	B
Beryllium	NC	NC	0.34	B	0.40	B	0.037	B	0.36	B	0.010	B	0.0015	U
Cadmium	0.6	9	***89.8***		***122***		***14.1***		***79.5***		***1.7***		0.30	
Calcium	NC	NC	3,340		4,090		199		3,200		330		299	
Chromium	26	110	***57.4***		***47.7***		3.7		***45.4***		3.5		5.4	
Cobalt	NC	NC	19.7	B	16.5		2.4	B	13.3	B	1.1	B	0.50	B
Copper	16	110	***144***		***91.0***		8.5		***117***		9.0		8.0	
Iron	20,000	20,000	***26,700***		***25,400***		1,830		12,800		4,180		2,120	
Lead	31	110	***289***		***408***		21.4		***297***		9.4		8.7	
Magnesium	NC	NC	2170		1,500		158		1,650		75.8		263	
Manganese	460	1,100	***3,620***		***3,790***		132		***1,820***		417		16.2	
Mercury	0.15	1.3	***0.52***		***0.49***		0.032	B	***0.39***		0.023	B	0.011	B
Nickel	16	50	***27.3***		***21.9***		2.4	B	***25.3***		1.9	B	2.0	B
Potassium	NC	NC	660		428		68.7		623		29.6	B	54.2	B
Selenium	NC	NC	6.1	B	6.2	B	0.64	U	4.6	B	0.87	B	0.64	U
Silver	1.0	2.2	0.064	U	0.064	U	0.064	U	0.064	U	0.084	B	0.080	B
Sodium	NC	NC	388	B	228		21.8	B	312	B	11.7	B	22.0	B
Thallium	NC	NC	8.6	B	9.8		0.36	B	4.6	B	0.76	B	6.2	U
Vanadium	NC	NC	90.5		60.8		3.3		41.2		7.8		3.2	
Zinc	120	270	***642***		***526***		44.7		***323***		24.2		38.9	

Notes: All values in mg/kg
NC - No Criteria
B - Estimated value (greater than MDL but less than RL)
BOLD/Italics - exceeds lowest effects criterion

Report Date:
13-Sep-12 10:42

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- [x] 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

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
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

SPECTRUM ANALYTICAL, INC.
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- [x] 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

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received

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 requirments have been meet.

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

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

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	

09/13/2012 10:40

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 _____ 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: Paul Kareth
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: 60135736

Project No.: 60135736
Site Name: Liberty/Multi Site G
Location: Brentwood NY State: NY
Sampler(s): Celeste Foster / Rita Papagian

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 4

Notes:

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

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____
State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: TAL Metal	Notes
U807-01	LMW-5	8/20/12	1400	G	GW	0	0	0	3	X	* MS & MSD also
-02	LMW-55	8/20/12	1405			0	0	0	1	X	
-03	LMW-6	8/20/12	1420			0	0	0	1	X	
-04	LMW-18	8/21/12	1150			0	0	0	1	X	
-05	LMW-19	8/21/12	1200			0	0	0	1	X	
-06	LMW-12	8/21/12	1455			0	0	0	1	X	
-07	LMW-14	8/21/12	1520			0	0	0	1	X	
-08	LMW-21	8/21/12	1720			0	0	0	1	X	
U807-09	LMW-20	8/21/12	1725			0	0	0	1	X	

☒ E-mail to Paul.Kareth@aecom.com
EDD Format NYSDEC Equis EDD

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

Relinquished by:	Received by:	Date:	Time:
[signature]	Jet	8/23/12	1 pm
Jet	Subway	8/23/12	6:00
Michael	[signature]	8/24/12	8:00
[signature]	[signature]	~~8/24~~ VPB 8/24/12 8/24/12	13:47 3°C

175 Metro Center Boulevard • Warwick, RI 02886-1755 • 401-732-3400 • Fax 401-732-3499 • www.spectrum-analytical.com

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 Redschoolhouse 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: LIBERTY/MULTI G SITES
Location: BRENTWOOD State: NY
Sampler(s): CELESTE FOSTER/RITA PAPAGIAN

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 4

Notes:

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

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____
State specific reporting standards: _____

	Lab Id:	Sample Id:	Time ~~Date:~~	Date ~~Time:~~	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TAL METALS	Notes
L1807	10	LMW-10	0905	8/23/12	G	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	
L1807	14	LMW-4	1340				0	0	0	1	X	
		LMW-10F	0910				0	0	0	1	X	Field filtered
		LMW-16F	0915				0	0	0	1	X	Field filtered
		LMW-2F	1120				0	0	0	1	X	Field filtered
		LMW-3F	1150				0	0	0	1	X	Field filtered
		LMW-4F	1345				0	0	0	1	X	Field filtered

☒ E-mail to Paul.Kareth@aecom.com
EDD Format NYSDEC EQUIS EDD

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	8-24-12	12:10
[signature]	SUB-BRIDGE		
Sub Fridge [signature]	[signature]	8/27/12	
[signature]		8/27/12	13:32

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

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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: ~~LIBERTY~~ BUS / Multi Sites 6
Location: BRENTWOOD State: NY
Sampler(s): CELESTE FOSTER / RITA PAPAGIAN

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 4

Notes:

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

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

State specific reporting standards: _____

	Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TAL Metals								QA/QC Reporting Level
L1807	15	DMW-13A	8/22/12	1845	G	GW	0	0	0	1	X								
		DMW-13AF	8/22/12	1850	G	GW	0	0	0	1	X								Field Filtered
	16	DMW-22B	8/23/12	1612			0	0	0	1	X								
		DMW-22BF		1617			0	0	0	1	X								Field Filtered
	17	DMW-22A		1625			0	0	0	1	X								
		DMW-22AF		1620			0	0	0	1	X								Field Filtered
L1807	18	DMW-18		1830			0	0	0	1	X								
		DMW-18F		1825			0	0	0	1	X								Field Filtered

☒ E-mail to Paul.kareth@aecom.com
EDD Format NYSDEC EQUIS EDD

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

Relinquished by:	Received by:	Date:	Time:
Celeste Foster	[signature]	8-24-12	12:10
[signature]	SUB-ERIDS		
Sub-Fridge/Board	[signature]	8/27/12	
[signature]	[signature]	8/27/12	13:32

SPECTRUM ANALYTICAL, INC
Featuring
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

Project Mgr.: Paul Kareth

Invoice To: Same as Report

P.O. No.: 60135736 RQN: 60135736

Project No.: 60135736
Site Name: Dzus / Multi Sites
Location: West Islip State: NY
Sampler(s): Celeste Foster / Rita Papagian

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 4

Notes:

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

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

State specific reporting standards: _____

	Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TAL Metals	Notes
L1807	19	DMW-2	8/22/12	1015	G	GW	0	0	0	3	X	+MS/MSD
	20	DMW-3		1150	G		0	0	0	1	X	
	21	DMW-9		1250	G		0	0	0	1	X	time=1250
	22	DMW-9B		1205	G		0	0	0	1	X	time=1205
	23	DMW-52		1025	G		0	0	0	1	X	
	24	DMW-15B		1525			0	0	0	1	X	
	25	DMW-15A		1530			0	0	0	1	X	
	26	DMW-23B		1715			0	0	0	1	X	
	27	DMW-13B		1720			0	0	0	1	X	
L1807	28	DMW-23A		1810			0	0	0	1	X	

☒ E-mail to Paul.Kareth@aecom.com
EDD Format NYSDEC Equis EDD

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

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	8-24-12	12:10
[signature]	OUT SUB-FRIDGE [signature]		
Sub fridge [signature]		8/27/12	
		8/27/12	13:32

175 Metro Center Boulevard • Warwick, RI 02886-1755 • 401-732-3400 • Fax 401-732-3499 • www.spectrum-analytical.com

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

Received By: Yvonne Bonyerd	Page 01 of 00
Reviewed By:	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.

1. Custody Seal(s)	Present / Absent
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent
4. Airbill	AirBill / Sticker
	Present / Absent
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

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
L1807-01	<2						
L1807-02	<2						
L1807-03	<2						
L1807-04	<2						
L1807-05	<2						
L1807-06	<2						
L1807-07	<2						
L1807-08	<2						
L1807-09	<2						

IR Temp Gun ID:MT-1

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
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

WO: L1807 / CID:003 221 / CWID:004 525

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

Received By:	Page 01 of 01
Reviewed By: Jodie Warner	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.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
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	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

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
L1807-10	<2						
L1807-11	<2						
L1807-12	<2						
L1807-13	<2						
L1807-14	<2						
L1807-15	<2						
L1807-16	<2						
L1807-17	<2						
L1807-18	<2						
L1807-19	<2						
L1807-20	<2						
L1807-21	<2						
L1807-22	<2						
L1807-23	<2						
L1807-24	<2						
L1807-25	<2						
L1807-26	<2						
L1807-27	<2						
L1807-28	<2						

IR Temp Gun ID:MT-1

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
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

WO: L1807 / CID:003 228 / CWID:004 536

* 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

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

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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.: SL1807

SOW No.: SW846

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

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: Dawne Smart Name: Dawne 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
LMW-4	L1807-14
LMW-5	L1807-01
LMW-55	L1807-02
LMW-5D	L1807-01DUP
LMW-5S	L1807-01MS
LMW-6	L1807-03

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: Dawne E. Smart Name: Dawne E. Smart

Date: 9/13/12 Title:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DMW-13A

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: L1807-15

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	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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DMW-52

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: L1807-23

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	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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DMW-9B

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: L1807-22

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	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:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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:

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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.: SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	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

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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.: SL1807

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					08/30/12 11:02		08/30/12 11:21		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.09	101.7	5.15	103.0	CV

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

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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 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

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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.: 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

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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.: 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

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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.: 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

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 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.: 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

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					
	08/31/12 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

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					
					08/31/12 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: **MB-67881**

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

FIMS2_120830A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		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: **MB-67882**

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

FIMS2_120830A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/30/12 11:22	C		C		C		C	M
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: **MB-67888**

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

OPTIMA3_120830A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/30/12 8:24	C	08/30/12 8:53	C	08/30/12 9:31	C		C	M
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)	C	Continuing Calibration Blank (ug/L) 08/30/12 10:12	C	08/30/12 10:45	C	08/30/12 11:22	C	Preparation Blank	C	M
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

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)	C	Continuing Calibration Blank (ug/L) 08/30/12 12:03	C	08/30/12 12:44	C		C	Preparation Blank	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
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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: **MB-67889**

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

OPTIMA3_120830B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 08/30/12 14:46	C	08/30/12 15:27	C	08/30/12 16:11	C	Preparation Blank	C	M
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

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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: **MB-67889**

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

OPTIMA3_120831A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 08/31/12 9:29	C	08/31/12 9:57	C	08/31/12 10:32	C	Preparation Blank	C	M
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	9.300	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_120831A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/31/12 11:04	C		C		C		C	M
Antimony			9.3	U							P

U.S. EPA - CLP

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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 Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found 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

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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 Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found 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				

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

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

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

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

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

DUPLICATES

EPA SAMPLE NO.

LMW-5D

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	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

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6

DUPLICATES

EPA SAMPLE NO.

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

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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-67881**

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

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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**

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

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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) True	Found	%R	Solid (mg/Kg) 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						

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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-67889**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) 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						

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

LMW-5

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	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

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

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:

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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

11A

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:

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11B

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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11B

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:

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.: 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: 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)
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:

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: 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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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	
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	
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	
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	
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	
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	
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	
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	
LMW-5S	1.0	1111		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	
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	
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	
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	
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	
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	
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	

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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																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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_120830B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																									

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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																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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	

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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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																						

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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																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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

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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 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 8/30/2012 7:47:13 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:32 PM**
Logged In Analyst (Original) : mitOptima3
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	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

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Sequence No.: 2 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 8/30/2012 7:50:52 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:34 PM**
Logged In Analyst (Original) : mitOptima3
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	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

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 8/30/2012 7:54:37 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:34 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 8/30/2012 7:58:21 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:35 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 8/30/2012 8:02:02 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:36 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	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%

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   QC value within limits for Be 313.107  Recovery = 97.13%
Co 228.616†            90265.1      2.5102 mg/L       0.03741      2.5102 mg/L       0.03741   1.49%
   QC value within limits for Co 228.616  Recovery = 100.41%
Cr 267.716†            67909.8     0.96030 mg/L      0.015338     0.96030 mg/L      0.015338   1.60%
   QC value within limits for Cr 267.716  Recovery = 96.03%
Cu 324.752†           263665.0      1.1909 mg/L       0.01657      1.1909 mg/L       0.01657   1.39%
   QC value within limits for Cu 324.752  Recovery = 95.27%
Fe 273.955†           119112.0      4.9271 mg/L       0.07933      4.9271 mg/L       0.07933   1.61%
   QC value within limits for Fe 273.955  Recovery = 98.54%
Mg 279.077†           434790.3      24.808 mg/L        0.2487      24.808 mg/L        0.2487   1.00%
   QC value within limits for Mg 279.077  Recovery = 99.23%
Mn 257.610†          1446939.4      2.4757 mg/L       0.02214      2.4757 mg/L       0.02214   0.89%
   QC value within limits for Mn 257.610  Recovery = 99.03%
Ni 231.604†            73863.4      2.4787 mg/L       0.03820      2.4787 mg/L       0.03820   1.54%
   QC value within limits for Ni 231.604  Recovery = 99.15%
Pb 220.353†             2495.5     0.48963 mg/L      0.004248     0.48963 mg/L      0.004248   0.87%
   QC value within limits for Pb 220.353  Recovery = 97.93%
Sb 206.836†              597.0     0.49952 mg/L      0.001025     0.49952 mg/L      0.001025   0.21%
   QC value within limits for Sb 206.836  Recovery = 99.90%
Se 196.026†              236.8     0.47655 mg/L      0.007768     0.47655 mg/L      0.007768   1.63%
   QC value within limits for Se 196.026  Recovery = 95.31%
Tl 190.801               417.5     0.47885 mg/L      0.007445     0.47885 mg/L      0.007445   1.55%
   QC value within limits for Tl 190.801  Recovery = 95.77%
V 292.402†            296410.0      2.4220 mg/L       0.03698      2.4220 mg/L       0.03698   1.53%
   QC value within limits for V 292.402  Recovery = 96.88%
Zn 206.200†            52732.4      2.4753 mg/L       0.03905      2.4753 mg/L       0.03905   1.58%
   QC value within limits for Zn 206.200  Recovery = 99.01%
Cd 226.502†            13213.0     0.23718 mg/L      0.003626     0.23718 mg/L      0.003626   1.53%
   QC value within limits for Cd 226.502  Recovery = 94.87%
Ti 334.940†           271405.7     0.48661 mg/L      0.003666     0.48661 mg/L      0.003666   0.75%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             4759.4      23.571 mg/L        0.2080      23.571 mg/L        0.2080   0.88%
   QC value within limits for Ca 227.546  Recovery = 94.29%
Na 589.592†           120401.8      24.758 mg/L        0.2278      24.758 mg/L        0.2278   0.92%
   QC value within limits for Na 589.592  Recovery = 99.03%
K 766.490†             26051.9      24.772 mg/L        0.1861      24.772 mg/L        0.1861   0.75%
   QC value within limits for K 766.490  Recovery = 99.09%
All analyte(s) passed QC.
```

Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 8/30/2012 8:05:46 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:37 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 8/30/2012 8:09:27 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:37 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

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

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   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.

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Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 8/30/2012 8:13:06 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:38 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

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

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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.
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Sequence No.: 9 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 8/30/2012 8:16:53 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:39 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = 105.94%								
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 Recovery = 103.43%								
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 Recovery = 100.44%								
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 Recovery = 103.24%								
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 Recovery = 98.45%								
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 Recovery = 93.05%								
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 Recovery = 100.75%								
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 Recovery = 105.86%								
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 Recovery = 90.76%								
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 Recovery = 97.84%								
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 Recovery = 97.20%								
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 Recovery = 90.59%								
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 Recovery = 100.78%								
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 Recovery = 105.53%								
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 Recovery = 98.50%								
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 Recovery = 93.42%								
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 Recovery = 98.17%								
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 Recovery = 93.81%								
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 Recovery = 92.06%								
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 Recovery = Not calculated								
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 Recovery = 104.96%								
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 Recovery = 112.69%								
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.

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Sequence No.: 10 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 8:20:39 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:40 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	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.

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Sequence No.: 11 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 8:24:22 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:40 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 38**
Sample ID: MB-67887~PBW **Date Collected: 8/30/2012 8:28:04 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:41 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-67887~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 39**
Sample ID: LCS-67887~LCS **Date Collected: 8/30/2012 8:31:44 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:42 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-67887~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 40**
Sample ID: L1786-01B~SL-MW-23D **Date Collected: 8/30/2012 8:35:26 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:42 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 41**
Sample ID: L1786-01C~SL-MW-23D **Date Collected: 8/30/2012 8:39:06 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:43 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 42**
Sample ID: L1786-02B~SL-MW-73D **Date Collected: 8/30/2012 8:42:46 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:44 PM**
Logged In Analyst (Original) : mitOptima3

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 43**
Sample ID: L1786-02C~SL-MW-73D **Date Collected: 8/30/2012 8:46:26 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:44 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 8:50:06 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:45 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.	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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 8:53:49 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:46 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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.

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Sequence No.: 20 **Autosampler Location: 44**
Sample ID: L1786-03B~SL-MW-23S **Date Collected: 8/30/2012 8:57:31 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:47 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

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Sequence No.: 21 **Autosampler Location: 45**
Sample ID: L1786-03C~SL-MW-23S **Date Collected: 8/30/2012 9:01:11 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:47 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

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Sequence No.: 22 **Autosampler Location: 46**
Sample ID: L1786-04B~SL-MW-13 **Date Collected: 8/30/2012 9:04:59 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:48 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

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Sequence No.: 23 **Autosampler Location: 47**
Sample ID: L1786-04C~SL-MW-13 **Date Collected: 8/30/2012 9:08:47 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:49 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	0.000419	0.00069	mg/L	0.000419	60.73%
Al 308.215†	130.6	0.00555	mg/L	0.001330	0.00555	mg/L	0.001330	23.95%
As 188.979†	1.9	0.00241	mg/L	0.005353	0.00241	mg/L	0.005353	221.73%
Ba 233.527†	1226.3	0.01422	mg/L	0.000160	0.01422	mg/L	0.000160	1.13%
Be 313.107†	-71.5	-0.00003	mg/L	0.000038	-0.00003	mg/L	0.000038	135.81%
Co 228.616†	26.9	0.00075	mg/L	0.000080	0.00075	mg/L	0.000080	10.72%
Cr 267.716†	14.3	0.00024	mg/L	0.000348	0.00024	mg/L	0.000348	147.13%
Cu 324.752†	488.1	0.00220	mg/L	0.000401	0.00220	mg/L	0.000401	18.20%
Fe 273.955†	162.8	0.00673	mg/L	0.000803	0.00673	mg/L	0.000803	11.94%
Mg 279.077†	30799.8	1.7575	mg/L	0.02641	1.7575	mg/L	0.02641	1.50%
Mn 257.610†	7855.4	0.01343	mg/L	0.000181	0.01343	mg/L	0.000181	1.35%
Ni 231.604†	45.3	0.00151	mg/L	0.000119	0.00151	mg/L	0.000119	7.84%
Pb 220.353†	-0.3	-0.00006	mg/L	0.001717	-0.00006	mg/L	0.001717	>999.9%
Sb 206.836†	3.1	0.00266	mg/L	0.004542	0.00266	mg/L	0.004542	170.75%
Se 196.026†	4.7	0.00940	mg/L	0.003290	0.00940	mg/L	0.003290	34.98%
Tl 190.801	-5.6	-0.00663	mg/L	0.002417	-0.00663	mg/L	0.002417	36.45%
V 292.402†	48.0	0.00039	mg/L	0.000451	0.00039	mg/L	0.000451	114.92%
Zn 206.200†	61.6	0.00289	mg/L	0.000018	0.00289	mg/L	0.000018	0.63%
Cd 226.502†	12.3	0.00021	mg/L	0.000159	0.00021	mg/L	0.000159	75.40%
Ti 334.940†	90.4	0.00019	mg/L	0.000099	0.00019	mg/L	0.000099	51.15%
Ca 227.546†	730.6	3.7455	mg/L	0.04987	3.7455	mg/L	0.04987	1.33%
Na 589.592†	330551.3	67.970	mg/L	0.9353	67.970	mg/L	0.9353	1.38%
K 766.490†	982.8	0.93450	mg/L	0.102113	0.93450	mg/L	0.102113	10.93%

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Sequence No.: 24 **Autosampler Location: 48**
Sample ID: L1786-07B~SL-MW-12 **Date Collected: 8/30/2012 9:12:35 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:49 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

Sequence No.: 25 **Autosampler Location: 49**
Sample ID: L1786-07C~SL-MW-12 **Date Collected: 8/30/2012 9:16:24 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:50 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

Sequence No.: 26 **Autosampler Location: 50**
Sample ID: L1786-08B~SL-MW-14 **Date Collected: 8/30/2012 9:20:13 AM**

Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:51 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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 **Autosampler Location: 51**
Sample ID: L1786-08C~SL-MW-14 **Date Collected: 8/30/2012 9:24:01 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:51 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

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Sequence No.: 28 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 9:27:48 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:52 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	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.

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Sequence No.: 29 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 9:31:39 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:53 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 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 **Autosampler Location: 52**
Sample ID: L1786-09B~SL-MW-16 **Date Collected: 8/30/2012 9:35:20 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:54 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 53**
Sample ID: L1786-09BDUP~SL-MW-16D **Date Collected: 8/30/2012 9:39:00 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:54 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 54**
Sample ID: L1786-09BMS~SL-MW-16S **Date Collected: 8/30/2012 9:42:42 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:55 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

Analyte	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%

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Sequence No.: 33 **Autosampler Location: 55**
Sample ID: L1786-09BSD~SL-MW-16L **Date Collected: 8/30/2012 9:46:25 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:56 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

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Sequence No.: 34 **Autosampler Location: 56**
Sample ID: L1786-09BPDS~SL-MW-16A **Date Collected: 8/30/2012 9:50:05 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:56 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **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 **Autosampler Location: 57**
Sample ID: L1786-09C~SL-MW-16 **Date Collected: 8/30/2012 9:53:48 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:57 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 58**
Sample ID: L1786-09CDUP~SL-MW-16D **Date Collected: 8/30/2012 9:57:30 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 1:59:58 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

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Sequence No.: 37 **Autosampler Location: 59**
Sample ID: L1786-09CMS~SL-MW-16S **Date Collected: 8/30/2012 10:01:11 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: L1786-09CMS~SL-MW-16S

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

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   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.

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Sequence No.: 40 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 10:12:19 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:01 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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.
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Sequence No.: 41 **Autosampler Location: 61**
Sample ID: L1786-09CPDS~SL-MW-16A **Date Collected: 8/30/2012 10:16:01 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:01 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

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

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

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Sequence No.: 42 **Autosampler Location: 62**
Sample ID: L1786-10B~SL-MW-1 **Date Collected: 8/30/2012 10:19:45 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:02 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1786-10B~SL-MW-1

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

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Sequence No.: 43 **Autosampler Location: 63**
Sample ID: L1786-10C~SL-MW-1 **Date Collected: 8/30/2012 10:23:26 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:03 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1786-10C~SL-MW-1

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

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Sequence No.: 44 **Autosampler Location: 64**
Sample ID: L1786-11B~SL-MW-2 **Date Collected: 8/30/2012 10:27:07 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:03 PM**

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

Mean Data: L1786-11B~SL-MW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 65**
Sample ID: L1786-11C~SL-MW-2 **Date Collected: 8/30/2012 10:30:48 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:04 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1786-11C~SL-MW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 66**
Sample ID: L1786-12B~RB-02 **Date Collected: 8/30/2012 10:34:29 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:05 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 67**
Sample ID: L1786-12C~RB-02 **Date Collected: 8/30/2012 10:38:10 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:05 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 10:41:51 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:06 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.	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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 10:45:35 AM**

Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:07 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 68**
Sample ID: MB-67888~PBW **Date Collected: 8/30/2012 10:49:17 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:08 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-67888~PBW

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

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	Conc.	Calib. 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 **Autosampler Location: 71**
Sample ID: L1798-02B~INF-082212 **Date Collected: 8/30/2012 11:00:22 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: 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 **Autosampler Location: 74**
Sample ID: L1807-01AMS~LMW-5S **Date Collected: 8/30/2012 11:11:27 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:12 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 75**
Sample ID: L1807-01ASD~LMW-5L **Date Collected: 8/30/2012 11:15:11 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:13 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

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Sequence No.: 58 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 11:18:52 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:13 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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Sequence No.: 59 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 11:22:34 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:14 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

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Sequence No.: 60 **Autosampler Location: 76**
Sample ID: L1807-01APDS~LMW-5A **Date Collected: 8/30/2012 11:26:16 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 77**
Sample ID: L1807-02A~LMW-55 **Date Collected: 8/30/2012 11:30:00 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 78**
Sample ID: L1807-03A~LMW-6 **Date Collected: 8/30/2012 11:33:41 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:16 PM**
Logged In Analyst (Original) : mitOptima3

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-03A~LMW-6

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

Sequence No.: 63 **Autosampler Location: 79**
Sample ID: L1807-04A~LMW-18 **Date Collected: 8/30/2012 11:37:23 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:17 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-04A~LMW-18

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 80**
Sample ID: L1807-05A~LMW-19 **Date Collected: 8/30/2012 11:41:04 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:17 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-05A~LMW-19

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 82**
Sample ID: L1807-06A~LMW-12 **Date Collected: 8/30/2012 11:44:45 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:18 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-06A~LMW-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 81**
Sample ID: L1807-07A~LMW-14 **Date Collected: 8/30/2012 11:48:26 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:19 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 83**
Sample ID: L1807-08A~LMW-21 **Date Collected: 8/30/2012 11:52:07 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:20 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 84**
Sample ID: L1807-09A~LMW-20 **Date Collected: 8/30/2012 11:55:48 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:20 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-09A~LMW-20

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 11:59:30 AM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:21 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

```
   QC value within limits for Be 313.107  Recovery = 98.11%
Co 228.616†            92135.9      2.5623 mg/L       0.04961      2.5623 mg/L       0.04961   1.94%
   QC value within limits for Co 228.616  Recovery = 102.49%
Cr 267.716†            68464.1     0.96814 mg/L      0.020160     0.96814 mg/L      0.020160   2.08%
   QC value within limits for Cr 267.716  Recovery = 96.81%
Cu 324.752†           263307.3      1.1893 mg/L       0.02281      1.1893 mg/L       0.02281   1.92%
   QC value within limits for Cu 324.752  Recovery = 95.15%
Fe 273.955†           121415.4      5.0224 mg/L       0.10595      5.0224 mg/L       0.10595   2.11%
   QC value within limits for Fe 273.955  Recovery = 100.45%
Mg 279.077†           437568.7      24.967 mg/L        0.4429      24.967 mg/L        0.4429   1.77%
   QC value within limits for Mg 279.077  Recovery = 99.87%
Mn 257.610†          1467513.4      2.5109 mg/L       0.04798      2.5109 mg/L       0.04798   1.91%
   QC value within limits for Mn 257.610  Recovery = 100.44%
Ni 231.604†            74977.2      2.5161 mg/L       0.05476      2.5161 mg/L       0.05476   2.18%
   QC value within limits for Ni 231.604  Recovery = 100.64%
Pb 220.353†             2537.1     0.49778 mg/L      0.008362     0.49778 mg/L      0.008362   1.68%
   QC value within limits for Pb 220.353  Recovery = 99.56%
Sb 206.836†              633.2     0.53061 mg/L      0.008275     0.53061 mg/L      0.008275   1.56%
   QC value within limits for Sb 206.836  Recovery = 106.12%
Se 196.026†              234.8     0.47264 mg/L      0.011007     0.47264 mg/L      0.011007   2.33%
   QC value within limits for Se 196.026  Recovery = 94.53%
Tl 190.801               420.6     0.48222 mg/L      0.003129     0.48222 mg/L      0.003129   0.65%
   QC value within limits for Tl 190.801  Recovery = 96.44%
V 292.402†            300126.0      2.4524 mg/L       0.05018      2.4524 mg/L       0.05018   2.05%
   QC value within limits for V 292.402  Recovery = 98.10%
Zn 206.200†            53643.8      2.5181 mg/L       0.05107      2.5181 mg/L       0.05107   2.03%
   QC value within limits for Zn 206.200  Recovery = 100.72%
Cd 226.502†            13562.5     0.24345 mg/L      0.004024     0.24345 mg/L      0.004024   1.65%
   QC value within limits for Cd 226.502  Recovery = 97.38%
Ti 334.940†           264746.0     0.47467 mg/L      0.009053     0.47467 mg/L      0.009053   1.91%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             4846.5      24.002 mg/L        0.4007      24.002 mg/L        0.4007   1.67%
   QC value within limits for Ca 227.546  Recovery = 96.01%
Na 589.592†           122646.1      25.219 mg/L        0.1687      25.219 mg/L        0.1687   0.67%
   QC value within limits for Na 589.592  Recovery = 100.88%
K 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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 12:03:13 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:22 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

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Sequence No.: 71 **Autosampler Location: 85**
Sample ID: L1807-10A~LMW-10 **Date Collected: 8/30/2012 12:06:55 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:22 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-10A~LMW-10

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

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Sequence No.: 72 **Autosampler Location: 86**
Sample ID: L1807-11A~LMW-16 **Date Collected: 8/30/2012 12:10:36 PM**

Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:23 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-11A~LMW-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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 **Autosampler Location: 87**
Sample ID: L1807-12A~LMW-2 **Date Collected: 8/30/2012 12:14:18 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:24 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-12A~LMW-2

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

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Sequence No.: 74 **Autosampler Location: 88**
Sample ID: L1807-13A~LMW-3 **Date Collected: 8/30/2012 12:17:59 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:24 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-13A~LMW-3

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

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Sequence No.: 75 **Autosampler Location: 89**
Sample ID: L1807-14A~LMW-4 **Date Collected: 8/30/2012 12:21:40 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:25 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-14A~LMW-4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 90**
Sample ID: L1807-15A~DMW-13A **Date Collected: 8/30/2012 12:25:21 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:26 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-15A~DMW-13A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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 **Autosampler Location: 91**
Sample ID: L1807-16A~DMW-22B **Date Collected: 8/30/2012 12:29:10 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:27 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-16A~DMW-22B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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 **Autosampler Location: 92**
Sample ID: L1807-17A~DMW-22A **Date Collected: 8/30/2012 12:32:52 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:27 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-17A~DMW-22A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 93**
Sample ID: L1807-18A~DMW-18 **Date Collected: 8/30/2012 12:36:41 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:28 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-18A~DMW-18

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

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Sequence No.: 80 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 12:40:23 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:29 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.	Sample Conc.	Sample 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								

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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.
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Sequence No.: 81 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 12:44:06 PM**
Analyst: **Data Type: Reprocessed on 8/30/2012 2:00:29 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 8/30/2012 2:08:57 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:46 AM**
Logged In Analyst (Original) : mitOptima3
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	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

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Sequence No.: 2 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 8/30/2012 2:12:36 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:48 AM**
Logged In Analyst (Original) : mitOptima3
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	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 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 8/30/2012 2:16:22 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:49 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 8/30/2012 2:20:05 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:49 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 8/30/2012 2:23:48 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:50 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

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

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   QC value within limits for Be 313.107  Recovery = 99.43%
Co 228.616†            85467.7      2.5907 mg/L       0.06185      2.5907 mg/L       0.06185   2.39%
   QC value within limits for Co 228.616  Recovery = 103.63%
Cr 267.716†            63705.7     0.99211 mg/L      0.023604     0.99211 mg/L      0.023604   2.38%
   QC value within limits for Cr 267.716  Recovery = 99.21%
Cu 324.752†           243803.8      1.2323 mg/L       0.03065      1.2323 mg/L       0.03065   2.49%
   QC value within limits for Cu 324.752  Recovery = 98.58%
Fe 273.955†           112738.2      5.0771 mg/L       0.12340      5.0771 mg/L       0.12340   2.43%
   QC value within limits for Fe 273.955  Recovery = 101.54%
Mg 279.077†           406630.2      25.378 mg/L        0.0218      25.378 mg/L        0.0218   0.09%
   QC value within limits for Mg 279.077  Recovery = 101.51%
Mn 257.610†          1375075.8      2.5410 mg/L       0.00536      2.5410 mg/L       0.00536   0.21%
   QC value within limits for Mn 257.610  Recovery = 101.64%
Ni 231.604†            69661.6      2.5633 mg/L       0.06313      2.5633 mg/L       0.06313   2.46%
   QC value within limits for Ni 231.604  Recovery = 102.53%
Pb 220.353†             2357.0     0.50333 mg/L      0.006393     0.50333 mg/L      0.006393   1.27%
   QC value within limits for Pb 220.353  Recovery = 100.67%
Sb 206.836†              587.3     0.56158 mg/L      0.011668     0.56158 mg/L      0.011668   2.08%
   QC value greater than the upper limit for Sb 206.836  Recovery = 112.32%
Se 196.026†              221.2     0.50003 mg/L      0.007559     0.50003 mg/L      0.007559   1.51%
   QC value within limits for Se 196.026  Recovery = 100.01%
Tl 190.801†              301.6     0.47621 mg/L      0.009537     0.47621 mg/L      0.009537   2.00%
   QC value within limits for Tl 190.801  Recovery = 95.24%
V 292.402†            279449.0      2.5091 mg/L       0.05934      2.5091 mg/L       0.05934   2.36%
   QC value within limits for V 292.402  Recovery = 100.37%
Zn 206.200†            49915.8      2.5508 mg/L       0.05994      2.5508 mg/L       0.05994   2.35%
   QC value within limits for Zn 206.200  Recovery = 102.03%
Cd 226.502†            12587.7     0.24717 mg/L      0.005301     0.24717 mg/L      0.005301   2.14%
   QC value within limits for Cd 226.502  Recovery = 98.87%
Ti 334.940†           241773.2     0.50510 mg/L      0.003465     0.50510 mg/L      0.003465   0.69%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             4496.4      24.293 mg/L        0.3045      24.293 mg/L        0.3045   1.25%
   QC value within limits for Ca 227.546  Recovery = 97.17%
Na 589.592†           112659.3      25.050 mg/L        0.6589      25.050 mg/L        0.6589   2.63%
   QC value within limits for Na 589.592  Recovery = 100.20%
K 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.
```

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Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 8/30/2012 2:27:32 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:51 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

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

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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 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 8/30/2012 2:31:13 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:52 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

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

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Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 8/30/2012 2:34:52 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:52 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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.
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Sequence No.: 9 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 8/30/2012 2:38:47 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:53 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

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

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Sequence No.: 10 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 2:42:33 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:54 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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Sequence No.: 11 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 2:46:15 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:54 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 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 **Autosampler Location: 94**
Sample ID: MB-67889~PBW **Date Collected: 8/30/2012 2:49:57 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:55 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-67889~PBW

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 95**
Sample ID: LCS-67889~LCS **Date Collected: 8/30/2012 2:53:38 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:56 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 96**
Sample ID: L1807-19A~DMW-2 **Date Collected: 8/30/2012 2:57:22 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:56 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 97**
Sample ID: L1807-19ADUP~DMW-2D **Date Collected: 8/30/2012 3:01:04 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:57 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 98**
Sample ID: L1807-19AMS~DMW-2S **Date Collected: 8/30/2012 3:04:46 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:58 AM**
Logged In Analyst (Original) : mitOptima3

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19AMS~DMW-2S

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 99**
Sample ID: L1807-19ASD~DMW-2 **Date Collected: 8/30/2012 3:08:33 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:58 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19ASD~DMW-2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 100**
Sample ID: L1807-19APDS~DMW-2 **Date Collected: 8/30/2012 3:12:19 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:59 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19APDS~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 101**
Sample ID: L1807-20A~DMW-3 **Date Collected: 8/30/2012 3:16:03 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:00 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-20A~DMW-3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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.
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Sequence No.: 22 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 3:27:10 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:02 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

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   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.
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Sequence No.: 23 **Autosampler Location: 103**
Sample ID: L1807-22A~DMW-9B **Date Collected: 8/30/2012 3:30:52 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:03 AM**
Logged In Analyst (Original) : mitOptima3
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	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	0.000322	-0.00014	mg/L	0.000322	226.00%
Al 308.215†	410.4	0.02014	mg/L	0.003314	0.02014	mg/L	0.003314	16.45%
As 188.979†	0.7	0.00130	mg/L	0.002410	0.00130	mg/L	0.002410	185.04%
Ba 233.527†	1724.9	0.02218	mg/L	0.000186	0.02218	mg/L	0.000186	0.84%
Be 313.107†	-9.3	0.00000	mg/L	0.000029	0.00000	mg/L	0.000029	797.22%
Co 228.616†	0.2	0.00001	mg/L	0.000016	0.00001	mg/L	0.000016	290.22%
Cr 267.716†	52.5	0.00082	mg/L	0.000294	0.00082	mg/L	0.000294	36.04%
Cu 324.752†	372.5	0.00188	mg/L	0.000529	0.00188	mg/L	0.000529	28.09%
Fe 273.955†	877.3	0.03948	mg/L	0.001032	0.03948	mg/L	0.001032	2.61%
Mg 279.077†	26854.3	1.6761	mg/L	0.03155	1.6761	mg/L	0.03155	1.88%
Mn 257.610†	4954.7	0.00914	mg/L	0.000245	0.00914	mg/L	0.000245	2.69%
Ni 231.604†	10.5	0.00038	mg/L	0.000350	0.00038	mg/L	0.000350	92.26%
Pb 220.353†	-0.4	-0.00009	mg/L	0.001368	-0.00009	mg/L	0.001368	>999.9%
Sb 206.836†	2.9	0.00271	mg/L	0.005698	0.00271	mg/L	0.005698	210.59%
Se 196.026†	1.7	0.00376	mg/L	0.005557	0.00376	mg/L	0.005557	147.80%
Tl 190.801†	2.4	0.00404	mg/L	0.002831	0.00404	mg/L	0.002831	70.01%
V 292.402†	6.3	0.00006	mg/L	0.000105	0.00006	mg/L	0.000105	180.76%
Zn 206.200†	56.4	0.00288	mg/L	0.000147	0.00288	mg/L	0.000147	5.10%
Cd 226.502†	0.9	-0.00001	mg/L	0.000175	-0.00001	mg/L	0.000175	>999.9%
Ti 334.940†	101.0	0.00034	mg/L	0.000049	0.00034	mg/L	0.000049	14.66%
Ca 227.546†	1662.5	9.3007	mg/L	0.08354	9.3007	mg/L	0.08354	0.90%
Na 589.592†	96406.4	21.436	mg/L	0.3131	21.436	mg/L	0.3131	1.46%
K 766.490†	1772.1	1.7983	mg/L	0.05664	1.7983	mg/L	0.05664	3.15%

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Sequence No.: 24 **Autosampler Location: 104**
Sample ID: L1807-23A~DMW-52 **Date Collected: 8/30/2012 3:34:35 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:03 AM**
Logged In Analyst (Original) : mitOptima3
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	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 **Autosampler Location: 105**
Sample ID: L1807-24A~DMW-15B **Date Collected: 8/30/2012 3:38:17 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:04 AM**
Logged In Analyst (Original) : mitOptima3
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	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 **Autosampler Location: 106**
Sample ID: L1807-25A~DMW-15A **Date Collected: 8/30/2012 3:42:06 PM**

Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:05 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-25A~DMW-15A

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

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Sequence No.: 27 **Autosampler Location: 107**
Sample ID: L1807-26A~DMW-23B **Date Collected: 8/30/2012 3:45:48 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:05 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-26A~DMW-23B

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

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Sequence No.: 28 **Autosampler Location: 108**
Sample ID: L1807-27A~DMW-13B **Date Collected: 8/30/2012 3:49:30 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:06 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-27A~DMW-13B

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

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Sequence No.: 29 **Autosampler Location: 109**
Sample ID: L1807-28A~DMW-23A **Date Collected: 8/30/2012 3:53:12 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:07 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-28A~DMW-23A

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

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Sequence No.: 30 **Autosampler Location: 110**
Sample ID: L1808-01A~LMW-5F **Date Collected: 8/30/2012 3:57:01 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:07 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-01A~LMW-5F

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

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Sequence No.: 31 **Autosampler Location: 111**
Sample ID: L1808-02A~LMW-55F **Date Collected: 8/30/2012 4:00:43 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:08 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-02A~LMW-55F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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 **Autosampler Location: 112**
Sample ID: L1808-03A~LMW-6F **Date Collected: 8/30/2012 4:04:25 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:09 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 4:08:07 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:09 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	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.

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Sequence No.: 34 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 4:11:50 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:10 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 113**
Sample ID: L1808-04A~LMW-18F **Date Collected: 8/30/2012 4:15:32 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:11 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-04A~LMW-18F

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

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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 077N3102302Autosampler 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

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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

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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

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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: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 8/31/2012 9:00:55 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 8/31/2012 9:04:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 8/31/2012 9:07:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 8/31/2012 9:11:28 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 89.46%								

All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 8/31/2012 9:14:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

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

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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 077N3102302Autosampler 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.	Calib. Units	Std.Dev.	Conc.	Sample 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.

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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.	Calib. Units	Std.Dev.	Conc.	Sample 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.
```

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 9:25:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 9:29:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 94**
Sample ID: MB-67889~PBW **Date Collected: 8/31/2012 9:32:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-67889~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 95**
Sample ID: LCS-67889~LCS **Date Collected: 8/31/2012 9:36:02 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-67889~LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 96**
Sample ID: L1807-19A~DMW-2 **Date Collected: 8/31/2012 9:39:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19A~DMW-2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 97**
Sample ID: L1807-19ADUP~DMW-2D **Date Collected: 8/31/2012 9:43:08 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19ADUP~DMW-2D

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 98**
Sample ID: L1807-19AMS~DMW-2S **Date Collected: 8/31/2012 9:46:39 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19AMS~DMW-2S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 99**
Sample ID: L1807-19ASD~DMW-2 **Date Collected: 8/31/2012 9:50:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19ASD~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 9:53:44 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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   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.

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Sequence No.: 12 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 9:57:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 13 **Autosampler Location: 100**
Sample ID: L1807-19APDS~DMW-2 **Date Collected: 8/31/2012 10:00:45 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **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 **Autosampler Location: 101**
Sample ID: L1807-20A~DMW-3 **Date Collected: 8/31/2012 10:04:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 102**
Sample ID: L1807-21A~DMW-9 **Date Collected: 8/31/2012 10:07:50 AM**
Analyst: **Data Type: Original**
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	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 **Autosampler Location: 106**
Sample ID: L1807-25A~DMW-15A **Date Collected: 8/31/2012 10:21:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-25A~DMW-15A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 107**
Sample ID: L1807-26A~DMW-23B **Date Collected: 8/31/2012 10:25:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-26A~DMW-23B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Date Collected: 8/31/2012 10:29:02 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 10:32:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 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 **Autosampler Location: 108**
Sample ID: L1807-27A~DMW-13B **Date Collected: 8/31/2012 10:36:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-27A~DMW-13B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 109**
Sample ID: L1807-28A~DMW-23A **Date Collected: 8/31/2012 10:39:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-28A~DMW-23A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 110**
Sample ID: L1808-01A~LMW-5F **Date Collected: 8/31/2012 10:43:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-01A~LMW-5F

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

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Sequence No.: 26 **Autosampler Location: 111**
Sample ID: L1808-02A~LMW-55F **Date Collected: 8/31/2012 10:46:39 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-02A~LMW-55F

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

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Sequence No.: 27 **Autosampler Location: 112**
Sample ID: L1808-03A~LMW-6F **Date Collected: 8/31/2012 10:50:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-03A~LMW-6F

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 113**
Sample ID: L1808-04A~LMW-18F **Date Collected: 8/31/2012 10:53:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-04A~LMW-18F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 114**
Sample ID: L1808-05A~LMW-19F **Date Collected: 8/31/2012 10:57:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-05A~LMW-19F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 11:00:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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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.
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Sequence No.: 31 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 11:04:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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.

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Sequence No.: 32 **Autosampler Location: 115**
Sample ID: L1808-06A~LMW-12F **Date Collected: 8/31/2012 11:07:52 AM**
Analyst: **Data Type: Original**

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Analysis Begun

Logged In Analyst: mitFIMS2 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-90**

Sample 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 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 8/30/2012 9:57:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 2**
Sample ID: S0.20 **Date Collected: 8/30/2012 9:59:34 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S1.0 **Date Collected: 8/30/2012 10:01:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S2.0 **Date Collected: 8/30/2012 10:02:53 AM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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

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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	StndConc ug/L	BlnkCorr 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

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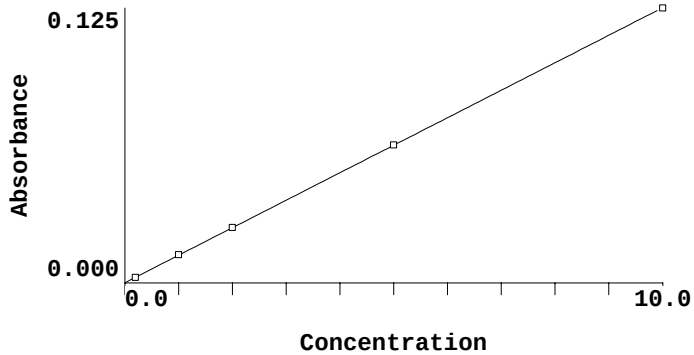
Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10.0 **Date Collected: 8/30/2012 10:06:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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



ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	18.6
S0.20	0.0024	0.2	0.188	0.00	1.8
S1.0	0.0127	1.0	1.015	0.00	1.4
S2.0	0.0252	2.0	2.009	0.00	0.8
S5.0	0.0629	5.0	5.006	0.00	1.4
S10.0	0.1255	10.0	9.994	0.00	1.0

Correlation Coef.: 0.999996 Slope: 0.01256 Intercept: 0.00000

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Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 8/30/2012 10:07:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.009	5.009	0.0629	0.3403	0.0634	10:08:49	Yes
2	5.013	5.013	0.0629	0.3343	0.0634	10:09:29	Yes
Mean:	5.011	5.011	0.0629				
SD:	0.003	0.003	0.0000				
%RSD:	0.056	0.056	0.06				

QC value within limits for Hg 253.7 Recovery = 100.23%
All analyte(s) passed QC.

==========

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 8/30/2012 10:09:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0004	0.0070	0.0009	10:10:31	Yes
2	-0.001	-0.001	-0.0000	0.0018	0.0005	10:11:11	Yes
Mean:	0.016	0.016	0.0002				
SD:	0.024	0.024	0.0003				
%RSD:	151.4	151.4	151.42				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 9 **Autosampler Location: 17**
Sample ID: MB-67881~PBW **Date Collected: 8/30/2012 10:11:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-67881~PBW

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	-0.0000	0.0002	10:12:11	Yes
2	-0.027	-0.027	-0.0003	-0.0002	0.0002	10:12:50	Yes
Mean:	-0.026	-0.026	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.570	1.570	1.57				

==========

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	StndConc ug/L	BlnkCorr 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				

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Sequence No.: 11 **Autosampler Location: 19**
Sample ID: L1807-01A~LMW-5 **Date Collected: 8/30/2012 10:14:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-01A~LMW-5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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				

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Sequence No.: 12 **Autosampler Location: 20**
Sample ID: L1807-01ADUP~LMW-5D **Date Collected: 8/30/2012 10:16:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-01ADUP~LMW-5D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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				

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Sequence No.: 13 **Autosampler Location: 21**
Sample ID: L1807-01AMS~LMW-5S **Date Collected: 8/30/2012 10:17:50 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-01AMS~LMW-5S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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				

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Sequence No.: 14 **Autosampler Location: 22**
Sample ID: L1807-02A~LMW-55 **Date Collected: 8/30/2012 10:19:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-02A~LMW-55

Repl #	SampleConc ug/L	StndConc 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				

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Sequence No.: 15 **Autosampler Location: 23**
Sample ID: L1807-03A~LMW-6 **Date Collected: 8/30/2012 10:21:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-03A~LMW-6

Repl #	SampleConc ug/L	StndConc 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				

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Sequence No.: 16 **Autosampler Location: 24**
Sample ID: L1807-04A~LMW-18 **Date Collected: 8/30/2012 10:22:48 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-04A~LMW-18

Repl #	SampleConc ug/L	StndConc 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				

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Sequence No.: 17 **Autosampler Location: 25**
Sample ID: L1807-05A~LMW-19 **Date Collected: 8/30/2012 10:24:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-05A~LMW-19

Repl #	SampleConc ug/L	StndConc 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				

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Sequence No.: 18 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 10:26:06 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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.

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Sequence No.: 19 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 10:27:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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.

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Sequence No.: 20 **Autosampler Location: 26**
Sample ID: L1807-06A~LMW-12 **Date Collected: 8/30/2012 10:29:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-06A~LMW-12

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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				

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Sequence No.: 21 **Autosampler Location: 27**
Sample ID: L1807-07A~LMW-14 **Date Collected: 8/30/2012 10:31:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-07A~LMW-14

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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				

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Sequence No.: 22 **Autosampler Location: 28**
Sample ID: L1807-08A~LMW-21 **Date Collected: 8/30/2012 10:32:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-08A~LMW-21

Repl	SampleConc	StndConc	BlnkCorr	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				

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Sequence No.: 23 **Autosampler Location: 29**
Sample ID: L1807-09A~LMW-20 **Date Collected: 8/30/2012 10:34:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-09A~LMW-20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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				

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Sequence No.: 24 **Autosampler Location: 30**
Sample ID: L1807-10A~LMW-10 **Date Collected: 8/30/2012 10:36:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-10A~LMW-10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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				

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Sequence No.: 25 **Autosampler Location: 31**
Sample ID: L1807-11A~LMW-16 **Date Collected: 8/30/2012 10:37:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-11A~LMW-16

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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				

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Sequence No.: 26 **Autosampler Location: 32**
Sample ID: L1807-12A~LMW-2 **Date Collected: 8/30/2012 10:39:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-12A~LMW-2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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

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Sequence No.: 27 **Autosampler Location: 33**
Sample ID: L1807-13A~LMW-3 **Date Collected: 8/30/2012 10:41:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-13A~LMW-3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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				

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Sequence No.: 28 **Autosampler Location: 34**
Sample ID: L1807-14A~LMW-4 **Date Collected: 8/30/2012 10:42:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-14A~LMW-4

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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				

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Sequence No.: 29 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 10:44:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 10:46:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 35**
Sample ID: L1807-15A~DMW-13A **Date Collected: 8/30/2012 10:47:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-15A~DMW-13A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 36**
Sample ID: L1807-16A~DMW-22B **Date Collected: 8/30/2012 10:49:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-16A~DMW-22B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 37**
Sample ID: L1807-17A~DMW-22A **Date Collected: 8/30/2012 10:51:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-17A~DMW-22A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 38**
Sample ID: L1807-18A~DMW-18 **Date Collected: 8/30/2012 10:52:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-18A~DMW-18

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 39**
Sample ID: L1807-19A~DMW-2 **Date Collected: 8/30/2012 10:54:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-19A~DMW-2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 40**
Sample ID: L1807-19ADUP~DMW-2D **Date Collected: 8/30/2012 10:56:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-19ADUP~DMW-2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 41**
Sample ID: L1807-19AMS~DMW-2S **Date Collected: 8/30/2012 10:57:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-19AMS~DMW-2S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 42**
Sample ID: L1807-20A~DMW-3 **Date Collected: 8/30/2012 10:59:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-20A~DMW-3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 43**
Sample ID: MB-67882~PBW **Date Collected: 8/30/2012 11:01:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-67882~PBW

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 11:02:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 11:04:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 44**
Sample ID: LCS-67882~LCS **Date Collected: 8/30/2012 11:06:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-67882~LCS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 45**
Sample ID: L1807-21A~DMW-9 **Date Collected: 8/30/2012 11:07:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-21A~DMW-9

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 46**
Sample ID: L1807-22A~DMW-9B **Date Collected: 8/30/2012 11:09:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-22A~DMW-9B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 47**
Sample ID: L1807-23A~DMW-52 **Date Collected: 8/30/2012 11:11:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-23A~DMW-52

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 48**
Sample ID: L1807-24A~DMW-15B **Date Collected: 8/30/2012 11:12:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-24A~DMW-15B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 49**
Sample ID: L1807-25A~DMW-15A **Date Collected: 8/30/2012 11:14:34 AM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-25A~DMW-15A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 50**
Sample ID: L1807-26A~DMW-23B **Date Collected: 8/30/2012 11:16:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-26A~DMW-23B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 51**
Sample ID: L1807-27A~DMW-13B **Date Collected: 8/30/2012 11:17:52 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-27A~DMW-13B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 52**
Sample ID: L1807-28A~DMW-23A **Date Collected: 8/30/2012 11:19:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-28A~DMW-23A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 11:21:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 11:22:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 53**
Sample ID: L1808-01A~LMW-5F **Date Collected: 8/30/2012 11:24:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-01A~LMW-5F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 54**
Sample ID: L1808-02A~LMW-55F **Date Collected: 8/30/2012 11:26:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-02A~LMW-55F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 55**
Sample ID: L1808-03A~LMW-6F **Date Collected: 8/30/2012 11:27:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

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
QC Matrix Lot: N/A

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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		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	pH <2	HOT BLOCK
S0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
S0.2			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
40 uL II120827C																			
S1.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
200 uL II120827C																			
S2.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
400 uL II120827C																			
S5.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120827C																			
S10.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
2000 uL II120827C																			
ICV			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828A																			
ICB			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
CCV			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828A																			
CCB			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
MB-67881			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
LCS-67881			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828B																			
L1807-01A	LMW-5	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1807-01ADUP	LMW-5	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
L1807-01AMS	LMW-5	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828B																			
L1807-02A	LMW-55	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-03A	LMW-6	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-04A	LMW-18	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			

Logbook ID: 100.0128 -08/12

8/29/12 JLC

206

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

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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		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	pH <2	HOT BLOCK
L1807-05A	LMW-19	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-06A	LMW-12	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-07A	LMW-14	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-08A	LMW-21	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-09A	LMW-20	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-10A	LMW-10	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-11A	LMW-16	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-12A	LMW-2	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-13A	LMW-3	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-14A	LMW-4	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-15A	DMW-13A	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-16A	DMW-22B	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-17A	DMW-22A	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-C
TAL																			
L1807-18A	DMW-18	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-C
TAL																			
L1807-19A	DMW-2	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-C
TAL																			
L1807-19ADUP	DMW-2	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-C

Logbook ID: 100.0128 -08/12

207

8/29/12 JLC

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 Code: **SW7470A_PR** Prep Type: **7470A/METHOD** Prep Factor Units: **mL / mL**
Prep Batch ID: **67881** Technician: **Jill L Cartwright**

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 Block Temp (C): **97** Therm ID1: **MT-47**
Digestion End Time 1: **08/29/2012 14:00** Digestion End Time 2: N/A 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	pH <2	HOT BLOCK
L1807-19AMS	DMW-2	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-C
1000 uL II120828B																			
L1807-20A	DMW-3	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-C
TAL																			

Jill L Cartwright 08/29/2012 HZA 8/29/12
Analyst Reviewed Date Manager Reviewed Date

Comments:

8/29/12 JLC

Logbook ID: 100.0128 -08/12

208

Prep Start Date: **8/29/2012 12:00:00**
Prep End Date:
Prep Batch ID: **67882**

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

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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		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	pH <2	HOT BLOCK
MB-67882			100	100	--	--	--	--								2	☐	☐	HB-C
LCS-67882			100	100	--	--	--	--								2	☐	☐	HB-C
1000 uL II120828B																			
L1807-21A	DMW-9	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-22A	DMW-9B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-23A	DMW-52	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-24A	DMW-15B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-25A	DMW-15A	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-26A	DMW-23B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-27A	DMW-13B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-28A	DMW-23A	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-01A	LMW-5F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-02A	LMW-55F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-03A	LMW-6F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-04A	LMW-18F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-05A	LMW-19F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-06A	LMW-12F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-06ADUP	LMW-12F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J

Logbook ID: 100.0128 -08/12

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8/29/12 JLC

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

PREP BATCH REPORT

Prep Start Date: **8/29/2012 12:00:00**
Prep End Date:
Prep Batch ID: **67882**

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

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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		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	pH <2	HOT BLOCK
L1808-06AMS	LMW-12F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
1000 uL II120828B																			
L1808-07A	LMW-14F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-08A	LMW-21F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-09A	LMW-20F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-10A	LMW-10F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			

JLC — Analyst Reviewed
8/30/12 — Date
HZA — Manager Reviewed
8/30/12 — Date

Comments:

8/29/12 JLC

Logbook ID: 100.0128 -08/12

210

Prep Start Date: **8/29/2012 11:20:00**
Prep End Date: **8/29/2012 3:20:00 P** Prep Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**
Prep Batch ID: **67888** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 1112012 Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): 1.0 Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl 4111111 Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 2.5 Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:20 Digestion Start Time 2: N/A Block Temp (C): 97 Therm ID1: MT-92
Digestion End Time 1: 08/29/2012 15:20 Digestion End Time 2: N/A 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	pH <2	HOT BLOCK
MB-67888			50	50	--	--	--	--					08/29/12	DTC	ICPLab	2	☐	☐	HB-5
LCS-67888			50	50	--	--	--	--					08/29/12	DTC	ICPLab	2	☐	☐	HB-5
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A																			
L1798-01B	EFF-082212	A	50	50	--	--	--	--			09/11/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
See SEL list																			
L1798-02B	INF-082212	A	50	50	--	--	--	--			09/11/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
See SEL list																			
L1807-01A	LMW-5	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-01ADUP	LMW-5	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
L1807-01AMS	LMW-5	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A																			
L1807-02A	LMW-55	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-03A	LMW-6	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-04A	LMW-18	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-05A	LMW-19	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-06A	LMW-12	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-07A	LMW-14	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-08A	LMW-21	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-09A	LMW-20	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-10A	LMW-10	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			
L1807-11A	LMW-16	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-5
TAL																			

DC 8/29/12

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Logbook ID 100.0125 -06/12

Wednesday, August 29, 2012 13:27

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 Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**
Prep Batch ID: **67888** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 1112012 Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): 1.0 Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl 4111111 Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 2.5 Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:20 Digestion Start Time 2: N/A Block Temp (C): 97 Therm ID1: MT-92
Digestion End Time 1: 08/29/2012 15:20 Digestion End Time 2: N/A 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	pH <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 08/29/2012 HZA 8/29/12
Analyst Reviewed Date Manager Reviewed Date

Comments:

DC 8/29/12

Prep Start Date: **8/29/2012 11:40:00**

Prep End Date: **8/29/2012 3:40:00 P** Prep Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**

Prep Batch ID: **67889** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 1112012 Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): 1.0 Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl 4111111 Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 2.5 Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:40 Digestion Start Time 2: N/A Block Temp (C): 97 Therm ID1: MT-94
Digestion End Time 1: 08/29/2012 15:40 Digestion End Time 2: N/A 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	pH <2	HOT BLOCK
MB-67889			50	50	--	--	--	--					08/29/12	DTC	ICPLab	2	☐	☐	HB-3
LCS-67889			50	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	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-19ADUP	DMW-2	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
L1807-19AMS	DMW-2	A	50	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	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-21A	DMW-9	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-22A	DMW-9B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-23A	DMW-52	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-24A	DMW-15B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-25A	DMW-15A	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-26A	DMW-23B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-27A	DMW-13B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-28A	DMW-23A	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-01A	LMW-5F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-02A	LMW-55F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-03A	LMW-6F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			

1DC 8/29/12

21

Logbook ID 100.0125 -06/12

Wednesday, August 29, 2012 13:26

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 Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**
Prep Batch ID: **67889** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 1112012 Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): 1.0 Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl 4111111 Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 2.5 Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:40 Digestion Start Time 2: N/A Block Temp (C): 97 Therm ID1: MT-94
Digestion End Time 1: 08/29/2012 15:40 Digestion End Time 2: N/A 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	pH <2	HOT BLOCK
L1808-04A	LMW-18F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-05A	LMW-19F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-06A	LMW-12F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-06ADUP	LMW-12F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
L1808-06AMS	LMW-12F	A	50	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	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-08A	LMW-21F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			

David T Camara 08/29/2012 HZA 8/29/12
Analyst Reviewed Date Manager Reviewed Date

Comments:

DC 8/29/12

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:
10-Oct-12 15:41

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Laboratory Report

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

Work Order: L1949
Project : Multi Site G- Dzus
Project #:

Attn: Paul Kareth

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L1949-01	SW 1	Aqueous	17-Sep-12 15:00	19-Sep-12 08:50
L1949-02	SW 2	Aqueous	17-Sep-12 15:10	19-Sep-12 08:50
L1949-03	SW 3	Aqueous	17-Sep-12 15:30	19-Sep-12 08:50
L1949-04	SW 4	Aqueous	17-Sep-12 15:40	19-Sep-12 08:50
L1949-05	SW 5	Aqueous	18-Sep-12 11:20	19-Sep-12 08:50
L1949-06	SW 6	Aqueous	17-Sep-12 10:40	19-Sep-12 08:50
L1949-07	SW X-FD	Aqueous	17-Sep-12 10:50	19-Sep-12 08:50
L1949-08	SW FB	Aqueous	17-Sep-12 10:50	19-Sep-12 08:50
L1949-09	SED 1	Soil	17-Sep-12 15:20	19-Sep-12 08:50
L1949-10	SED 2	Soil	17-Sep-12 14:30	19-Sep-12 08:50
L1949-11	SED 3	Soil	17-Sep-12 13:30	19-Sep-12 08:50
L1949-12	SED 4	Soil	17-Sep-12 14:00	19-Sep-12 08:50
L1949-13	SED 5	Soil	18-Sep-12 11:20	19-Sep-12 08:50
L1949-14	SED 6	Soil	18-Sep-12 10:50	19-Sep-12 08:50
L1949-15	SED X FB	Soil	18-Sep-12 10:40	19-Sep-12 08:50
L1949-16	SED X FD	Soil	17-Sep-12 14:30	19-Sep-12 08:50

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 requirments have been meet.

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

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

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 **SDG :** L1949

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SW 1	L1949-01				SW6010_W	
SW 1	L1949-01				SW7470	
SW 2	L1949-02				SW6010_W	
SW 2	L1949-02				SW7470	
SW 3	L1949-03				SW6010_W	
SW 3	L1949-03				SW7470	
SW 4	L1949-04				SW6010_W	
SW 4	L1949-04				SW7470	
SW 5	L1949-05				SW6010_W	
SW 5	L1949-05				SW7470	
SW 6	L1949-06				SW6010_W	
SW 6	L1949-06				SW7470	
SW X-FD	L1949-07				SW6010_W	
SW X-FD	L1949-07				SW7470	
SW FB	L1949-08				SW6010_W	
SW FB	L1949-08				SW7470	
SED 1	L1949-09				SW6010_S	
SED 1	L1949-09				SW7471	
SED 2	L1949-10				SW6010_S	
SED 2	L1949-10				SW7471	
SED 3	L1949-11				SW6010_S	
SED 3	L1949-11				SW7471	
SED 4	L1949-12				SW6010_S	
SED 4	L1949-12				SW7471	
SED 5	L1949-13				SW6010_S	
SED 5	L1949-13				SW7471	
SED 6	L1949-14				SW6010_S	
SED 6	L1949-14				SW7471	
SED X FD	L1949-16				SW6010_S	
SED X FD	L1949-16				SW7471	

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 **SDG :** L1949

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_S				
L1949-09A	SL	SW6010_S	9/19/2012	9/26/2012
L1949-09ADUP	SL	SW6010_S	9/19/2012	9/26/2012
L1949-09AMS	SL	SW6010_S	9/19/2012	9/26/2012
L1949-10A	SL	SW6010_S	9/19/2012	9/26/2012
L1949-11A	SL	SW6010_S	9/19/2012	9/26/2012
L1949-12A	SL	SW6010_S	9/19/2012	9/26/2012
L1949-13A	SL	SW6010_S	9/19/2012	9/26/2012
L1949-14A	SL	SW6010_S	9/19/2012	9/26/2012
L1949-16A	SL	SW6010_S	9/19/2012	9/26/2012
SW6010_W				
L1949-01A	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-02A	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-03A	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-03ADUP	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-03AMS	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-04A	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-05A	AQ	SW6010_W	9/19/2012	10/4/2012
L1949-06A	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-07A	AQ	SW6010_W	9/19/2012	10/1/2012
L1949-08A	AQ	SW6010_W	9/19/2012	10/1/2012
SW7470				
L1949-01A	AQ	SW7470	9/19/2012	10/3/2012
L1949-02A	AQ	SW7470	9/19/2012	10/3/2012
L1949-03A	AQ	SW7470	9/19/2012	10/3/2012
L1949-03ADUP	AQ	SW7470	9/19/2012	10/3/2012
L1949-03AMS	AQ	SW7470	9/19/2012	10/3/2012
L1949-04A	AQ	SW7470	9/19/2012	10/3/2012
L1949-05A	AQ	SW7470	9/19/2012	10/3/2012
L1949-06A	AQ	SW7470	9/19/2012	10/3/2012
L1949-07A	AQ	SW7470	9/19/2012	10/3/2012
L1949-08A	AQ	SW7470	9/19/2012	10/3/2012
SW7471				
L1949-09A	SL	SW7471	9/19/2012	9/25/2012
L1949-09ADUP	SL	SW7471	9/19/2012	9/25/2012
L1949-09AMS	SL	SW7471	9/19/2012	9/25/2012
L1949-10A	SL	SW7471	9/19/2012	9/25/2012
L1949-11A	SL	SW7471	9/19/2012	9/25/2012
L1949-12A	SL	SW7471	9/19/2012	9/25/2012
L1949-13A	SL	SW7471	9/19/2012	9/25/2012
L1949-14A	SL	SW7471	9/19/2012	9/25/2012
L1949-16A	SL	SW7471	9/19/2012	9/25/2012

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

WorkOrder: L1949

Client ID: AECOM_CHSNTRDG
Project: Multi Site G
WO Name: Multi Site G- Dzus
Location: MULTI_SITE,
Comments: send invoice to Paul according to e-mail on 5/28/08

Case:
SDG:
PO: 95900-04

HC Due: 10/08/12
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
L1949-01A	SW 1	09/17/2012 15:00	09/19/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L1949-01A	SW 1	09/17/2012 15:00	09/19/2012	Aqueous	SW7470	/ TAL					M3
L1949-02A	SW 2	09/17/2012 15:10	09/19/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L1949-02A	SW 2	09/17/2012 15:10	09/19/2012	Aqueous	SW7470	/ TAL					M3
L1949-03A	SW 3	09/17/2012 15:30	09/19/2012	Aqueous	SW6010_W	/ TAL			Y	Y	M3
L1949-03A	SW 3	09/17/2012 15:30	09/19/2012	Aqueous	SW7470	/ TAL			Y		M3
L1949-04A	SW 4	09/17/2012 15:40	09/19/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L1949-04A	SW 4	09/17/2012 15:40	09/19/2012	Aqueous	SW7470	/ TAL					M3
L1949-05A	SW 5	09/18/2012 11:20	09/19/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L1949-05A	SW 5	09/18/2012 11:20	09/19/2012	Aqueous	SW7470	/ TAL					M3
L1949-06A	SW 6	09/17/2012 10:40	09/19/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L1949-06A	SW 6	09/17/2012 10:40	09/19/2012	Aqueous	SW7470	/ TAL					M3
L1949-07A	SW X-FD	09/17/2012 10:50	09/19/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L1949-07A	SW X-FD	09/17/2012 10:50	09/19/2012	Aqueous	SW7470	/ TAL					M3
L1949-08A	SW FB	09/17/2012 10:50	09/19/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L1949-08A	SW FB	09/17/2012 10:50	09/19/2012	Aqueous	SW7470	/ TAL					M3
L1949-09A	SED 1	09/17/2012 15:20	09/19/2012	Soil	PMoist	/					A2
L1949-09A	SED 1	09/17/2012 15:20	09/19/2012	Soil	SW6010_S	/ TAL			Y	Y	A2
L1949-09A	SED 1	09/17/2012 15:20	09/19/2012	Soil	SW7471	/ TAL			Y		A2
L1949-10A	SED 2	09/17/2012 14:30	09/19/2012	Soil	PMoist	/					A2
L1949-10A	SED 2	09/17/2012 14:30	09/19/2012	Soil	SW6010_S	/ TAL				Y	A2
L1949-10A	SED 2	09/17/2012 14:30	09/19/2012	Soil	SW7471	/ TAL					A2

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: L1949

Client ID: AECOM_CHSNTRDG
Project: Multi Site G
WO Name: Multi Site G- Dzus
Location: MULTI_SITE,
Comments: send invoice to Paul according to e-mail on 5/28/08

Case:
SDG:
PO: 95900-04

HC Due: 10/08/12
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
L1949-11A	SED 3	09/17/2012 13:30	09/19/2012	Soil	PMoist	/					A2
L1949-11A	SED 3	09/17/2012 13:30	09/19/2012	Soil	SW6010_S	/ TAL				Y	A2
L1949-11A	SED 3	09/17/2012 13:30	09/19/2012	Soil	SW7471	/ TAL					A2
L1949-12A	SED 4	09/17/2012 14:00	09/19/2012	Soil	PMoist	/					A2
L1949-12A	SED 4	09/17/2012 14:00	09/19/2012	Soil	SW6010_S	/ TAL				Y	A2
L1949-12A	SED 4	09/17/2012 14:00	09/19/2012	Soil	SW7471	/ TAL					A2
L1949-13A	SED 5	09/18/2012 11:20	09/19/2012	Soil	PMoist	/					A2
L1949-13A	SED 5	09/18/2012 11:20	09/19/2012	Soil	SW6010_S	/ TAL				Y	A2
L1949-13A	SED 5	09/18/2012 11:20	09/19/2012	Soil	SW7471	/ TAL					A2
L1949-14A	SED 6	09/18/2012 10:50	09/19/2012	Soil	PMoist	/					A2
L1949-14A	SED 6	09/18/2012 10:50	09/19/2012	Soil	SW6010_S	/ TAL				Y	A2
L1949-14A	SED 6	09/18/2012 10:50	09/19/2012	Soil	SW7471	/ TAL					A2
L1949-15A	SED X FB	09/18/2012 10:40	09/19/2012	Soil	PMoist	/		Y			A2
L1949-15A	SED X FB	09/18/2012 10:40	09/19/2012	Soil	SW6010_S	/ TAL		Y		Y	A2
L1949-15A	SED X FB	09/18/2012 10:40	09/19/2012	Soil	SW7471	/ TAL		Y			A2
L1949-16A	SED X FD	09/17/2012 14:30	09/19/2012	Soil	PMoist	/					A2
L1949-16A	SED X FD	09/17/2012 14:30	09/19/2012	Soil	SW6010_S	/ TAL				Y	A2
L1949-16A	SED X FD	09/17/2012 14:30	09/19/2012	Soil	SW7471	/ TAL					A2

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 2

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: PAUL KARETH
100 School house RD
AECOM
CHESTNUT Ridge, NY
Project Mgr.: P. KARETH

Invoice To: SAME AS REPORT
P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: OZUS
Location: W. ISLIP State: NY
Sampler(s): JR / MS

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11= _____

List preservative code below: 4

Notes:

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

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____
State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TAI METALS
01	SW 1	9/17	15:00	G	SW				1	↓
02	SW 2	↓	15:10	↓	↓				↓	↓
03	SW 3		15:30							
	SW 3 MS		↓							
	SW 3 MSD		↓							
04	SW 4	↓	15:40							
05	SW 5	9/18	11:20							
06	SW 6	9/17	10:40							
07	SWX-FD	↓	10:50							
08	SW FB	↓	10:50	↓	↓				↓	↓

☐ E-mail to _____
EDD Format _____

Relinquished by:	Received by:	Date:	Time:
John Rollino	FED EX	9/18	
	[signature]	9/19/12	8:50

Condition upon receipt: ☒ Iced ☐ Ambient ☒ °C 10

4

SPECTRUM ANALYTICAL, INC
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

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: PAUL KARETH
AECOM
100 RED SCHOOL HOUSE RD
CHESTNUT RIDGE
NY, 10977
Project Mgr.: _____

Invoice To: SAME AS REPORT
P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: DZUS
Location: W. ISLIP NY State: NY
Sampler(s): JR/MS

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 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=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		TAL METALS							
09	SED 1	9/17	15:20	C	SO		1											
	SED 1 MS																	
	SED 1 MSD																	
10	SED 2		14:30															
11	SED 3		13:30															
12	SED 4		14:00															
13	SED 5	9/18	11:20															
14	SED 6		10:50															
15	SED N FD		10:40															
16	SED N FD	9/17	14:30															

Containers:

Analyses:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____
State specific reporting standards:
_____

☐ E-mail to _____
EDD Format _____

Relinquished by:	Received by:	Date:	Time:
John Rollins	FED EX	9/18	
John Rollins	[signature]	9/19/12	8:50

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 10°

5

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

Received By:	Page 01 of 00
Reviewed By:	Log-in Date 09/19/2012
Work Order: L1949	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.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — FedEx 8010 9796 7760
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	10 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	09/19/2012
12. Time Received	08:50

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
L1949-01	<2						
L1949-02	<2						
L1949-03	<2						
L1949-04	<2						
L1949-05	<2						
L1949-06	<2						
L1949-07	<2						
L1949-08	<2						
L1949-09							
L1949-10							
L1949-11							
L1949-12							
L1949-13							
L1949-14							
L1949-15							
L1949-16							

IR Temp Gun ID:MT-1

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
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

Spectrum Analytical, Inc. RI Division Sample Condition Notification

Project#: L1949
Date of Receipt: 9/19/12
Client: AECOM
Received By: JV
Client project #/name: Multi Site

Unusual Occurance Description:

The samples were received with a temperature of 10°C

Client Contacted:

Contacted via: Phone/Fax/E-mail
Date:_____ **Time:**_____
Contacted By:_____
Name of person contacted:_____

Client Response:

Responded via: Phone/Fax/E-mail
Date:_____
Name of person responding:_____
Responding to:_____

Action Taken:

Form ID: QAF.0005

Agnes Huntley [Warwick]

From: Kareth, Paul [Paul.Kareth@aecom.com]
Sent: Thursday, September 20, 2012 4:39 PM
To: Agnes Huntley [Warwick]
Subject: RE: Dzus

Yes. Proceed with the analysis.

From: Agnes Huntley [Warwick] [ang@spectrum-analytical.com]
Sent: Thursday, September 20, 2012 8:33 AM
To: Kareth, Paul
Subject: Dzus

Hi Paul,

We received water and soil samples for Metals on Sept. 19. The temperature of the cooler was measured at 10 degrees C. Temperature of coolers received should be within the range of 2 to 6 degrees C. Shall we proceed with analysis of the metals samples?

Thank you,
Agnes

Agnes (Ng) Huntley
CLP Project Manager
Spectrum Analytical, featuring Hanibal Technology
Rhode Island Division
Formerly Mitkem Laboratories
(P) 401-732-3400
(F) 401-732-3499
****
Due to rising cost of rush shipments, Spectrum Analytical requests that you allow sufficient time for all sample bottle order requests, 3 days notice at a minimum. If you need an expedited bottle order request Spectrum Analytical will provide the bottles but will request that you pay for the shipping. Spectrum Analytical will continue to pay for all shipping previously agreed to, given proper notification. Thank you for your understanding and cooperation

This message is intended for the use of the individual to whom it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message in not the intended recipient, or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at 401-732-3400.

Agnes Huntley [Warwick]

From: Kareth, Paul [Paul.Kareth@aecom.com]
Sent: Tuesday, September 25, 2012 11:44 AM
To: Agnes Huntley [Warwick]
Subject: RE: Dzus

Remove the sample from the analytical list. We won't have a field blank. I'll need to talk to my field crew and find out what they were thinking.

From: Agnes Huntley [Warwick] [mailto:ang@spectrum-analytical.com]
Sent: Tuesday, September 25, 2012 10:43 AM
To: Kareth, Paul
Subject: Dzus

Hi Paul,

Sample SED X FB is a field blank. The laboratory received a 2oz jar, which is insufficient sample volume for TAL metals. The metals aqueous sample should be in a 500mL plastic with HNO3. How is the laboratory to proceed with this sample?

Thank you,
Agnes

Agnes (Ng) Huntley
CLP Project Manager
Spectrum Analytical, featuring Hanibal Technology
Rhode Island Division
Formerly Mitkem Laboratories
(P) 401-732-3400
(F) 401-732-3499
****
Due to rising cost of rush shipments, Spectrum Analytical requests that you allow sufficient time for all sample bottle order requests, 3 days notice at a minimum. If you need an expedited bottle order request Spectrum Analytical will provide the bottles but will request that you pay for the shipping. Spectrum Analytical will continue to pay for all shipping previously agreed to, given proper notification. Thank you for your understanding and cooperation

This message is intended for the use of the individual to whom it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message in not the intended recipient, or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at 401-732-3400.

* Metals *

REPORT NARRATIVE

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

Client : AECOM Environment

Project: Multi Site G- Dzus

Laboratory Workorder / SDG #: L1949

SW846 6010C, SW846 7470A, SW846 7471B

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, SW846 7471B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A
Soil Samples were prepared following procedures in laboratory test code:

SW3050
Soil Samples were prepared following procedures in laboratory test code: SW7471B

V. INSTRUMENTATION

The following instrumentation was used to perform

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:

Method blanks were within the acceptance criteria except for the following:

MB-68437 in batch 68437: the concentration of Iron was greater than the reporting limit of 200ug/L at 210ug/L. Since all associated samples had greater than ten times these method blank concentration for Iron, no corrective action was taken.

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: SED 1 (L1949-09AMS) and SW 3 (L1949-03AMS).

Percent recoveries were within the QC limits.

D. **Post Digestion Spike (PDS):**

No Post-digestion spike analysis was included in this report.

E. **Duplicate sample:**

Duplicate analyses were performed on samples: SED 1 (L1949-09ADUP) and SW 3 (L1949-03ADUP).

Relative percent differences were within the QC limits.

F. **Serial Dilution (SD):**

Serial Dilution analysis was performed on samples: SED 1 (L1949-09ASD) and SW 3 (L1949-03ASD).

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 RI, 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: 10/10/12

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.: SL1949

SOW No.: SW846

EPA Sample No.	Lab Sample ID
SED 1	L1949-09
SED 1D	L1949-09DUP
SED 1S	L1949-09MS
SED 2	L1949-10
SED 3	L1949-11
SED 4	L1949-12
SED 5	L1949-13
SED 6	L1949-14
SED X FD	L1949-16
SW 1	L1949-01
SW 2	L1949-02
SW 3	L1949-03
SW 3D	L1949-03DUP
SW 3S	L1949-03MS
SW 4	L1949-04
SW 5	L1949-05
SW 6	L1949-06
SW FB	L1949-08
SW X-FD	L1949-07

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: Huiyan Zhao Anderson

Date: 10/10/12 Title: Inorganics Department Manager

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED 1

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Lab Sample ID: L1949-09

Level (low/med): MED Date Received: 09/19/2012

% Solids: 10.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10800			P
7440-36-0	Antimony	3.4	U		P
7440-38-2	Arsenic	18.1			P
7440-39-3	Barium	203			P
7440-41-7	Beryllium	0.34	B		P
7440-43-9	Cadmium	89.8			P
7440-70-2	Calcium	3340			P
7440-47-3	Chromium	57.4			P
7440-48-4	Cobalt	19.7	B		P
7440-50-8	Copper	144			P
7439-89-6	Iron	26700			P
7439-92-1	Lead	289			P
7439-95-4	Magnesium	2170			P
7439-96-5	Manganese	3620			P
7439-97-6	Mercury	0.52			CV
7440-02-0	Nickel	27.3			P
7440-09-7	Potassium	660			P
7782-49-2	Selenium	6.1	B		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	388	B		P
7440-28-0	Thallium	8.6	B		P
7440-62-2	Vanadium	90.5			P
7440-66-6	Zinc	642			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED 2

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Lab Sample ID: L1949-10

Level (low/med): MED Date Received: 09/19/2012

% Solids: 17.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8300			P
7440-36-0	Antimony	1.7	U		P
7440-38-2	Arsenic	19.2			P
7440-39-3	Barium	209			P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	122			P
7440-70-2	Calcium	4090			P
7440-47-3	Chromium	47.7			P
7440-48-4	Cobalt	16.5			P
7440-50-8	Copper	91.0			P
7439-89-6	Iron	25400			P
7439-92-1	Lead	408			P
7439-95-4	Magnesium	1500			P
7439-96-5	Manganese	3790			P
7439-97-6	Mercury	0.49			CV
7440-02-0	Nickel	21.9			P
7440-09-7	Potassium	428			P
7782-49-2	Selenium	6.2	B		P
7440-22-4	Silver	0.28	U		P
7440-23-5	Sodium	228			P
7440-28-0	Thallium	9.8			P
7440-62-2	Vanadium	60.8			P
7440-66-6	Zinc	526			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED 3

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Lab Sample ID: L1949-11

Level (low/med): MED Date Received: 09/19/2012

% Solids: 71.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1580			P
7440-36-0	Antimony	0.46	U		P
7440-38-2	Arsenic	2.3			P
7440-39-3	Barium	10.2	B		P
7440-41-7	Beryllium	0.037	B		P
7440-43-9	Cadmium	14.1			P
7440-70-2	Calcium	199			P
7440-47-3	Chromium	3.7			P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	8.5			P
7439-89-6	Iron	1830			P
7439-92-1	Lead	21.4			P
7439-95-4	Magnesium	158			P
7439-96-5	Manganese	132			P
7439-97-6	Mercury	0.032	B		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	68.7			P
7782-49-2	Selenium	0.78	U		P
7440-22-4	Silver	0.078	U		P
7440-23-5	Sodium	21.8	B		P
7440-28-0	Thallium	0.36	B		P
7440-62-2	Vanadium	3.3			P
7440-66-6	Zinc	44.7			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED 4

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Lab Sample ID: L1949-12

Level (low/med): MED Date Received: 09/19/2012

% Solids: 14.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700			P
7440-36-0	Antimony	2.4	U		P
7440-38-2	Arsenic	6.2	B		P
7440-39-3	Barium	103			P
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	79.5			P
7440-70-2	Calcium	3200			P
7440-47-3	Chromium	45.4			P
7440-48-4	Cobalt	13.3	B		P
7440-50-8	Copper	117			P
7439-89-6	Iron	12800			P
7439-92-1	Lead	297			P
7439-95-4	Magnesium	1650			P
7439-96-5	Manganese	1820			P
7439-97-6	Mercury	0.39			CV
7440-02-0	Nickel	25.3			P
7440-09-7	Potassium	623			P
7782-49-2	Selenium	4.6	B		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	312	B		P
7440-28-0	Thallium	4.6	B		P
7440-62-2	Vanadium	41.2			P
7440-66-6	Zinc	323			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED 5

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Lab Sample ID: L1949-13

Level (low/med): MED Date Received: 09/19/2012

% Solids: 79.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	345			P
7440-36-0	Antimony	0.41	U		P
7440-38-2	Arsenic	1.6			P
7440-39-3	Barium	15.1			P
7440-41-7	Beryllium	0.010	B		P
7440-43-9	Cadmium	1.7			P
7440-70-2	Calcium	330			P
7440-47-3	Chromium	3.5			P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	9.0			P
7439-89-6	Iron	4180			P
7439-92-1	Lead	9.4			P
7439-95-4	Magnesium	75.8			P
7439-96-5	Manganese	417			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	29.6	B		P
7782-49-2	Selenium	0.87	B		P
7440-22-4	Silver	0.084	B		P
7440-23-5	Sodium	11.7	B		P
7440-28-0	Thallium	0.76	B		P
7440-62-2	Vanadium	7.8			P
7440-66-6	Zinc	24.2			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED 6

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Lab Sample ID: L1949-14

Level (low/med): MED Date Received: 09/19/2012

% Solids: 79.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	574			P
7440-36-0	Antimony	0.42	U		P
7440-38-2	Arsenic	0.64	B		P
7440-39-3	Barium	2.7	B		P
7440-41-7	Beryllium	0.0016	U		P
7440-43-9	Cadmium	0.30			P
7440-70-2	Calcium	299			P
7440-47-3	Chromium	5.4			P
7440-48-4	Cobalt	0.50	B		P
7440-50-8	Copper	8.0			P
7439-89-6	Iron	2120			P
7439-92-1	Lead	8.7			P
7439-95-4	Magnesium	263			P
7439-96-5	Manganese	16.2			P
7439-97-6	Mercury	0.011	B		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium	54.2	B		P
7782-49-2	Selenium	0.70	U		P
7440-22-4	Silver	0.080	B		P
7440-23-5	Sodium	22.0	B		P
7440-28-0	Thallium	0.24	U		P
7440-62-2	Vanadium	3.2			P
7440-66-6	Zinc	38.9			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED X FD

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Lab Sample ID: L1949-16

Level (low/med): MED Date Received: 09/19/2012

% Solids: 17.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7820			P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	16.0			P
7440-39-3	Barium	228			P
7440-41-7	Beryllium	0.34	B		P
7440-43-9	Cadmium	104			P
7440-70-2	Calcium	5620			P
7440-47-3	Chromium	43.9			P
7440-48-4	Cobalt	17.8			P
7440-50-8	Copper	93.6			P
7439-89-6	Iron	27900			P
7439-92-1	Lead	331			P
7439-95-4	Magnesium	1490			P
7439-96-5	Manganese	4990			P
7439-97-6	Mercury	0.40			CV
7440-02-0	Nickel	21.3			P
7440-09-7	Potassium	465			P
7782-49-2	Selenium	5.7	B		P
7440-22-4	Silver	0.31	U		P
7440-23-5	Sodium	263			P
7440-28-0	Thallium	11.4			P
7440-62-2	Vanadium	68.8			P
7440-66-6	Zinc	491			P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 1

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-01

Level (low/med): MED Date Received: 09/19/2012

% 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	20.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14900			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	172	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3420			P
7439-96-5	Manganese	552			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2300			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	24600			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	10.1	B		P

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 2

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-02

Level (low/med): MED Date Received: 09/19/2012

% 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	20.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14700			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	176	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3360			P
7439-96-5	Manganese	564			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2330			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	23800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	5.3	B		P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 3

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-03

Level (low/med): MED Date Received: 09/19/2012

% 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	17.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14500			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	144	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3310			P
7439-96-5	Manganese	355			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2210			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	4.9	U		P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 4

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-04

Level (low/med): MED Date Received: 09/19/2012

% 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	19.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	13900			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	152	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3190			P
7439-96-5	Manganese	463			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2150			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	23900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	5.3	B		P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 5

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-05

Level (low/med): MED Date Received: 09/19/2012

% 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	31.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	4.1	B		P
7440-70-2	Calcium	15200			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.8	B		P
7439-89-6	Iron	690			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3510			P
7439-96-5	Manganese	519			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2240			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	28100			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	15.9	B		P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 6

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-06

Level (low/med): MED Date Received: 09/19/2012

% 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	84.4	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	23.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	21400			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	6840			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4860			P
7439-96-5	Manganese	1160			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.91	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	32100			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	21.3	B		P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW FB

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-08

Level (low/med): MED Date Received: 09/19/2012

% 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	1.1	U		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	110	U		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	76.0	U		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	76.0	U		P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	47.0	B		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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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW X-FD

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): WATER Lab Sample ID: L1949-07

Level (low/med): MED Date Received: 09/19/2012

% 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	19.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14500			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	154	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3270			P
7439-96-5	Manganese	475			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2190			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	23600			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	9.0	B		P

Comments:

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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	09/25/12 12:33				09/25/12 12:51		09/25/12 13:09		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	5.17	103.5	5.0	5.13	102.5	4.92	98.4	CV

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

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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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	10/03/12 10:44				10/03/12 11:02		10/03/12 11:21		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	5.12	102.3	5.0	5.05	101.0	5.04	100.9	CV

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

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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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	09/26/12 7:55				09/26/12 8:19		09/26/12 08:41		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9806.75	98.1	10000.0	9985.53	99.9	9767.71	97.7	P
Antimony	500.0	516.78	103.4	500.0	512.77	102.6	508.80	101.8	P
Arsenic	500.0	505.03	101.0	500.0	504.02	100.8	489.24	97.8	P
Barium	10000.0	10380.60	103.8	10000.0	10239.71	102.4	10166.61	101.7	P
Beryllium	250.0	249.93	100	250.0	249.48	99.8	248.12	99.2	P
Cadmium	250.0	248.71	99.5	250.0	251.84	100.7	247.35	98.9	P
Calcium	25000.0	24465.30	97.9	25000.0	24395.22	97.6	24090.81	96.4	P
Chromium	1000.0	986.27	98.6	1000.0	993.70	99.4	971.09	97.1	P
Cobalt	2500.0	2574.85	103.0	2500.0	2592.88	103.7	2559.81	102.4	P
Copper	1250.0	1258.32	100.7	1250.0	1222.20	97.8	1201.36	96.1	P
Iron	5000.0	5039.17	100.8	5000.0	5154.77	103.1	5010.07	100.2	P
Lead	500.0	507.82	101.6	500.0	505.99	101.2	494.77	99.0	P
Magnesium	25000.0	25430.38	101.7	25000.0	25388.26	101.6	25118.24	100.5	P
Manganese	2500.0	2552.32	102.1	2500.0	2542.47	101.7	2541.02	101.6	P
Nickel	2500.0	2547.58	101.9	2500.0	2568.56	102.7	2517.87	100.7	P
Potassium	25000.0	25407.35	101.6	25000.0	25177.56	100.7	24900.90	99.6	P
Selenium	500.0	502.95	100.6	500.0	500.26	100.1	482.42	96.5	P
Silver	1250.0	1294.53	103.6	1250.0	1302.48	104.2	1278.56	102.3	P
Sodium	25000.0	25674.27	102.7	25000.0	24855.34	99.4	24472.35	97.9	P
Thallium	500.0	477.18	95.4	500.0	474.12	94.8	478.53	95.7	P
Vanadium	2500.0	2488.68	99.5	2500.0	2511.48	100.5	2459.34	98.4	P
Zinc	2500.0	2544.74	101.8	2500.0	2566.48	102.7	2518.58	100.7	P

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

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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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					09/26/12 9:27		09/26/12 10:09		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9555.62	95.6	9752.15	97.5	P
Antimony				500.0	520.54	104.1	531.89	106.4	P
Arsenic				500.0	492.33	98.5	497.28	99.5	P
Barium				10000.0	10007.56	100.1	10174.73	101.7	P
Beryllium				250.0	245.43	98.2	249.05	99.6	P
Cadmium				250.0	245.51	98.2	247.23	98.9	P
Calcium				25000.0	23919.35	95.7	24195.44	96.8	P
Chromium				1000.0	961.49	96.1	969.59	97.0	P
Cobalt				2500.0	2524.84	101.0	2558.03	102.3	P
Copper				1250.0	1177.18	94.2	1194.77	95.6	P
Iron				5000.0	4971.62	99.4	5092.58	101.9	P
Lead				500.0	497.66	99.5	499.28	99.9	P
Magnesium				25000.0	24851.22	99.4	25259.60	101.0	P
Manganese				2500.0	2516.54	100.7	2549.21	102.0	P
Nickel				2500.0	2493.80	99.8	2517.05	100.7	P
Potassium				25000.0	24784.66	99.1	25435.50	101.7	P
Selenium				500.0	486.06	97.2	485.30	97.1	P
Silver				1250.0	1263.88	101.1	1275.72	102.1	P
Sodium				25000.0	24617.49	98.5	24969.76	99.9	P
Thallium				500.0	477.24	95.4	482.89	96.6	P
Vanadium				2500.0	2437.83	97.5	2456.47	98.3	P
Zinc				2500.0	2492.55	99.7	2520.98	100.8	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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					09/26/12 10:49		09/26/12 11:33		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9500.87	95.0	9519.02	95.2	P
Antimony				500.0	523.61	104.7	533.80	106.8	P
Arsenic				500.0	487.19	97.4	490.94	98.2	P
Barium				10000.0	9970.38	99.7	10103.06	101.0	P
Beryllium				250.0	245.06	98.0	247.67	99.1	P
Cadmium				250.0	244.28	97.7	245.36	98.1	P
Calcium				25000.0	23461.92	93.8	23696.14	94.8	P
Chromium				1000.0	957.81	95.8	959.46	95.9	P
Cobalt				2500.0	2514.63	100.6	2515.61	100.6	P
Copper				1250.0	1173.60	93.9	1177.76	94.2	P
Iron				5000.0	4957.08	99.1	4946.96	98.9	P
Lead				500.0	488.57	97.7	492.57	98.5	P
Magnesium				25000.0	24826.49	99.3	25130.37	100.5	P
Manganese				2500.0	2499.82	100	2523.98	101.0	P
Nickel				2500.0	2483.67	99.3	2491.04	99.6	P
Potassium				25000.0	25376.75	101.5	25835.05	103.3	P
Selenium				500.0	475.21	95.0	484.40	96.9	P
Silver				1250.0	1259.28	100.7	1259.20	100.7	P
Sodium				25000.0	24856.71	99.4	25279.04	101.1	P
Thallium				500.0	467.51	93.5	469.50	93.9	P
Vanadium				2500.0	2424.55	97.0	2429.33	97.2	P
Zinc				2500.0	2484.95	99.4	2483.56	99.3	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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					09/26/12 11:55		09/26/12 12:36		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9687.36	96.9	9448.04	94.5	P
Antimony				500.0	541.01	108.2	487.11	97.4	P
Arsenic				500.0	493.17	98.6	483.30	96.7	P
Barium				10000.0	10091.63	100.9	9951.71	99.5	P
Beryllium				250.0	247.22	98.9	244.29	97.7	P
Cadmium				250.0	247.80	99.1	242.22	96.9	P
Calcium				25000.0	23870.36	95.5	23388.70	93.6	P
Chromium				1000.0	974.45	97.4	951.37	95.1	P
Cobalt				2500.0	2560.67	102.4	2495.43	99.8	P
Copper				1250.0	1196.78	95.7	1170.31	93.6	P
Iron				5000.0	5045.56	100.9	4903.44	98.1	P
Lead				500.0	497.97	99.6	485.36	97.1	P
Magnesium				25000.0	25060.27	100.2	24707.30	98.8	P
Manganese				2500.0	2522.58	100.9	2490.79	99.6	P
Nickel				2500.0	2528.06	101.1	2469.05	98.8	P
Potassium				25000.0	25887.23	103.5	24990.62	100	P
Selenium				500.0	484.06	96.8	473.75	94.8	P
Silver				1250.0	1277.87	102.2	1249.74	100	P
Sodium				25000.0	25387.13	101.5	24419.59	97.7	P
Thallium				500.0	472.27	94.5	462.84	92.6	P
Vanadium				2500.0	2463.54	98.5	2409.45	96.4	P
Zinc				2500.0	2523.59	100.9	2456.13	98.2	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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					09/26/12 13:14				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9384.88	93.8			P
Antimony				500.0	495.87	99.2			P
Arsenic				500.0	477.38	95.5			P
Barium				10000.0	9807.52	98.1			P
Beryllium				250.0	240.88	96.4			P
Cadmium				250.0	240.97	96.4			P
Calcium				25000.0	23054.85	92.2			P
Chromium				1000.0	945.49	94.5			P
Cobalt				2500.0	2480.48	99.2			P
Copper				1250.0	1161.13	92.9			P
Iron				5000.0	5056.21	101.1			P
Lead				500.0	479.16	95.8			P
Magnesium				25000.0	24359.25	97.4			P
Manganese				2500.0	2456.08	98.2			P
Nickel				2500.0	2452.45	98.1			P
Potassium				25000.0	25027.84	100.1			P
Selenium				500.0	465.39	93.1			P
Silver				1250.0	1243.12	99.4			P
Sodium				25000.0	24140.43	96.6			P
Thallium				500.0	456.24	91.2			P
Vanadium				2500.0	2394.30	95.8			P
Zinc				2500.0	2441.64	97.7			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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	10/01/12 10:38				10/01/12 10:57		10/01/12 11:37		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9929.00	99.3	10000.0	9906.47	99.1	9731.26	97.3	P
Antimony	500.0	500.53	100.1	500.0	482.00	96.4	479.80	96.0	P
Arsenic	500.0	500.79	100.2	500.0	494.38	98.9	495.41	99.1	P
Barium	10000.0	10283.23	102.8	10000.0	10230.39	102.3	10201.05	102.0	P
Beryllium	250.0	246.31	98.5	250.0	244.73	97.9	244.55	97.8	P
Cadmium	250.0	252.15	100.9	250.0	250.31	100.1	246.61	98.6	P
Calcium	25000.0	23997.52	96.0	25000.0	23763.39	95.1	23721.66	94.9	P
Chromium	1000.0	1001.35	100.1	1000.0	991.17	99.1	978.28	97.8	P
Cobalt	2500.0	2603.52	104.1	2500.0	2586.83	103.5	2553.16	102.1	P
Copper	1250.0	1232.09	98.6	1250.0	1221.91	97.8	1206.47	96.5	P
Iron	5000.0	5092.41	101.8	5000.0	5100.22	102.0	4998.09	100	P
Lead	500.0	504.03	100.8	500.0	496.80	99.4	495.99	99.2	P
Magnesium	25000.0	25051.07	100.2	25000.0	25060.36	100.2	24863.34	99.5	P
Manganese	2500.0	2509.29	100.4	2500.0	2497.13	99.9	2492.94	99.7	P
Nickel	2500.0	2580.65	103.2	2500.0	2566.90	102.7	2528.09	101.1	P
Potassium	25000.0	24203.89	96.8	25000.0	24657.76	98.6	24861.36	99.4	P
Selenium	500.0	499.65	99.9	500.0	493.14	98.6	485.66	97.1	P
Silver	1250.0	1280.80	102.5	1250.0	1274.69	102.0	1257.31	100.6	P
Sodium	25000.0	25597.26	102.4	25000.0	25597.38	102.4	25567.21	102.3	P
Thallium	500.0	478.32	95.7	500.0	468.81	93.8	467.22	93.4	P
Vanadium	2500.0	2514.79	100.6	2500.0	2493.16	99.7	2459.79	98.4	P
Zinc	2500.0	2570.38	102.8	2500.0	2555.44	102.2	2516.92	100.7	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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					10/01/12 12:14				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9780.30	97.8			P
Antimony				500.0	477.28	95.5			P
Arsenic				500.0	495.88	99.2			P
Barium				10000.0	10194.43	101.9			P
Beryllium				250.0	244.83	97.9			P
Cadmium				250.0	247.49	99.0			P
Calcium				25000.0	23705.36	94.8			P
Chromium				1000.0	981.43	98.1			P
Cobalt				2500.0	2565.88	102.6			P
Copper				1250.0	1209.93	96.8			P
Iron				5000.0	5022.45	100.4			P
Lead				500.0	495.50	99.1			P
Magnesium				25000.0	24983.23	99.9			P
Manganese				2500.0	2497.76	99.9			P
Nickel				2500.0	2539.09	101.6			P
Potassium				25000.0	25971.44	103.9			P
Selenium				500.0	491.15	98.2			P
Silver				1250.0	1264.05	101.1			P
Sodium				25000.0	26202.79	104.8			P
Thallium				500.0	467.87	93.6			P
Vanadium				2500.0	2468.20	98.7			P
Zinc				2500.0	2535.97	101.4			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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
	10/04/12 8:43				10/04/12 9:00		10/04/12 09:29		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron	5000.0	5030.86	100.6	5000.0	5153.55	103.1	4955.15	99.1	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.: SL1949

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
					10/04/12 9:50				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron				5000.0	5018.43	100.4			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.: SL1949

Preparation Blank Matrix (soil/water): SOIL Method Blank ID: **MB-68310**

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

FIMS2_120925B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	09/25/12 12:53	C	09/25/12 13:11	C		C		C	M
Mercury	0.028	U	0.028	U	0.028	U			0.002	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.: SL1949

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-68486**

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

FIMS2_121003A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	10/03/12 11:04	C	10/03/12 11:23	C		C		C	M
Mercury	0.028	U	0.028	U	0.028	U			0.028	U	CV

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.: SL1949

Preparation Blank Matrix (soil/water): SOIL Method Blank ID: **MB-68292**

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

OPTIMA3_120926A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 09/26/12 8:22	C	09/26/12 8:44	C	09/26/12 9:30	C	Preparation Blank	C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	1.200	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	0.380	U	P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U	0.410	U	P
Barium	3.2	B	1.1	U	1.6	B	1.1	U	0.035	B	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.002	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.015	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.022	B	P
Cobalt	1.0	B	0.7	U	0.7	U	0.7	U	0.044	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	0.110	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	1.656	B	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	0.630	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	0.130	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	0.043	U	P
Potassium	76.0	U	242.0	B	77.0	B	76.0	U	3.400	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	0.640	U	P
Silver	8.4	B	6.9	U	6.9	U	6.9	U	0.074	B	P
Sodium	29.0	U	29.0	U	29.0	U	29.0	U	1.100	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	0.287	B	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.: SL1949

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

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

OPTIMA3_120926A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 09/26/12 10:12	C	09/26/12 10:53	C	09/26/12 11:37	C	Preparation Blank	C	M
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	110.0	U	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			76.0	U	76.0	U	-108.8	B			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	-34.2	B	-34.3	B			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

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.: SL1949

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

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

OPTIMA3_120926A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 09/26/12 11:59	C	09/26/12 12:40	C	09/26/12 13:18	C	Preparation Blank	C	M
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	4.6	B			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	110.0	U	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			-85.7	B	-87.2	B	-115.3	B			P
Selenium			12.0	U	12.0	U	12.0	U			P
Silver			6.9	U	6.9	U	6.9	U			P
Sodium			-34.5	B	29.0	U	-30.4	B			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

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.: SL1949

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-68437**

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

OPTIMA3_121001A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	10/01/12 11:01	C	10/01/12 11:41	C	10/01/12 12:18	C		C	M
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	1.6	B	1.1	U	1.9	B	1.4	B	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	207.299		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	76.6	B	114.9	B	174.6	B	96.0	B	76.000	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	12.000	U	P
Silver	11.4	B	6.9	U	6.9	U	6.9	U	6.900	U	P
Sodium	34.6	B	29.0	U	34.2	B	29.0	U	54.690	B	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

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3

BLANKS

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-68496**

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

OPTIMA3_121004A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 10/04/12 9:04	C	10/04/12 9:32	C	10/04/12 9:53	C	Preparation Blank	C	M
Iron	31.0	U	31.0	U	31.0	U	31.0	U	31.000	U	P

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4

ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	526032	523010.7	104.6				
Antimony	0	600	-14	637	106.2				
Arsenic	0	100	-3	96.2	96.2				
Barium	0	500	0	514.2	102.8				
Beryllium	0	500	0	494.7	98.9				
Cadmium	0	1000	0	937.5	93.8				
Calcium	500000	500000	541680	534837.9	107.0				
Chromium	0	500	3	492.4	98.5				
Cobalt	0	500	0	464.5	92.9				
Copper	0	500	3	525.2	105.0				
Iron	200000	200000	183731	181850.7	90.9				
Lead	0	500	-3	496.3	99.3				
Magnesium	500000	500000	496390	491628.6	98.3				
Manganese	0	500	-11	485.5	97.1				
Nickel	0	1000	-3	903.1	90.3				
Potassium	0	25000	15	26240.9	105.0				
Selenium	0	500	3	515.1	103.0				
Silver	0	200	0	224.9	112.5				
Sodium	0	25000	72	25651.3	102.6				
Thallium	0	100	9	103.4	103.4				
Vanadium	0	500	-7	494.4	98.9				
Zinc	0	1000	8	933	93.3				

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4

ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	500000	500000	522052	533714.4	106.7				
Antimony	0	600	-2	658.2	109.7				
Arsenic	0	100	-10	92.6	92.6				
Barium	0	500	0	528.5	105.7				
Beryllium	0	500	0	503.6	100.7				
Cadmium	0	1000	-3	964.4	96.4				
Calcium	500000	500000	542433	544789.3	109.0				
Chromium	0	500	3	506.7	101.3				
Cobalt	0	500	0	479.6	95.9				
Copper	0	500	2	541.1	108.2				
Iron	200000	200000	184757	186156.9	93.1				
Lead	0	500	3	520	104.0				
Magnesium	500000	500000	493023	497856.9	99.6				
Manganese	0	500	-11	492.8	98.6				
Nickel	0	1000	-2	935.3	93.5				
Potassium	0	25000	188	24857.6	99.4				
Selenium	0	500	12	534.3	106.9				
Silver	0	200	6	228.7	114.3				
Sodium	0	25000	97	25910.6	103.6				
Thallium	0	100	-6	83.4	83.4				
Vanadium	0	500	-3	508.8	101.8				
Zinc	0	1000	11	972.1	97.2				

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4

ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Iron	200000	200000	186088	189355.5	94.7				

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SED 1S

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 10.7

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	150		3.4	U	200	75		P
Arsenic	75-125	211		18.1		200	97		P
Barium	75-125	4190		203		3990	100		P
Beryllium	75-125	97.3		0.34	B	99.6	97		P
Cadmium	75-125	186		89.8		99.6	96		P
Chromium	75-125	446		57.4		399	97		P
Cobalt	75-125	1020		19.7	B	996	100		P
Copper	75-125	656		144		496	103		P
Lead	75-125	494		289		200	103		P
Nickel	75-125	1020		27.3		996	100		P
Selenium	75-125	187		6.1	B	200	91		P
Silver	75-125	488		0.57	U	496	99		P
Thallium	75-125	187		8.6	B	200	90		P
Vanadium	75-125	1050		90.5		996	96		P
Zinc	75-125	1610		642		996	97		P
Mercury	75-125	9.2		0.52		7.8	110		CV

Comments:

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW 3S

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

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	8950		66.0	U	9100	98		P
Antimony	75-125	484		9.3	U	456	106		P
Arsenic	75-125	464		4.3	U	456	102		P
Barium	75-125	9210		17.2	B	9100	101		P
Beryllium	75-125	226		0.26	U	227	100		P
Cadmium	75-125	228		0.89	U	227	100		P
Chromium	75-125	901		0.64	U	910	99		P
Cobalt	75-125	2260		0.67	U	2270	100		P
Copper	75-125	1110		3.6	U	1130	98		P
Iron	75-125	4680		144	B	4550	100		P
Lead	75-125	454		4.2	U	455	100		P
Manganese	75-125	2600		355		2270	99		P
Nickel	75-125	2270		0.85	U	2270	100		P
Selenium	75-125	448		12.0	U	455	99		P
Silver	75-125	1140		6.9	U	1130	101		P
Thallium	75-125	416		6.2	U	455	92		P
Vanadium	75-125	2240		1.1	U	2270	99		P
Zinc	75-125	2250		4.9	U	2270	99		P
Mercury	75-125	4.5		0.028	U	4.6	98		CV

Comments:

U.S. EPA - CLP

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DUPLICATES

EPA SAMPLE NO.

SW 3D

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

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		17.2405	B	17.0699	B	1		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium		0.8900	U	0.8900	U			P
Calcium		14490.3377		14527.4506		0.3		P
Chromium		0.6400	U	0.6913	B	200		P
Cobalt		0.6700	U	0.6700	U			P
Copper		3.6000	U	3.6000	U			P
Iron		144.0867	B	138.5441	B	3.9		P
Lead		4.2000	U	4.2000	U			P
Magnesium		3313.1278		3319.7319		0.2		P
Manganese		355.2209		354.9471		0.1		P
Nickel		0.8500	U	0.8500	U			P
Potassium	1000.0	2212.7491		2095.3224		5.5		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		23470.6969		23583.0413		0.5		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		1.1000	U	1.1000	U			P
Zinc		4.9000	U	4.9000	U			P
Mercury		0.0280	U	0.0280	U			CV

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DUPLICATES

EPA SAMPLE NO.

SED 1D

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 10.7 % Solids for Duplicate: 10.7

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		10824.3666		10340.4477		4.6		P
Antimony		3.4000	U	3.3000	U			P
Arsenic	8.9	18.1378		17.6837		2.5		P
Barium	89.0	203.2087		193.9416		4.7		P
Beryllium		0.3401	B	0.3275	B	3.8		P
Cadmium		89.8427		86.1991		4.1		P
Calcium		3343.1359		3291.6034		1.6		P
Chromium		57.3705		55.7673		2.8		P
Cobalt		19.6614	B	19.0519	B	3.1		P
Copper		144.2523		142.4610		1.2		P
Iron		26684.9966		25881.2465		3.1		P
Lead		289.3222		285.0393		1.5		P
Magnesium		2170.2684		2098.0851		3.4		P
Manganese		3619.6280		3526.9795		2.6		P
Nickel	22.0	27.2613		25.6640		6		P
Potassium	440.0	660.4583		664.4232		0.6		P
Selenium		6.0878	B	6.4347	B	5.5		P
Silver		0.5700	U	0.5600	U			P
Sodium		388.3438	B	395.7585	B	1.9		P
Thallium		8.5517	B	8.7192	B	1.9		P
Vanadium	22.0	90.4641		86.0713		5		P
Zinc		641.6934		621.7012		3.2		P
Mercury	0.3	0.5225		0.7426		34.8		CV

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LABORATORY CONTROL SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-68292**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum				455.0	433.5		364	546.0	95.3
Antimony				22.8	23.3		18.2	27.3	102.2
Arsenic				22.8	22.2		18.2	27.3	97.4
Barium				455.0	455.7		364	546.0	100.2
Beryllium				11.4	11.2		9.1	13.6	98.2
Cadmium				11.4	11.0		9.1	13.6	96.5
Calcium				1135.0	1054.4		908	1362.0	92.9
Chromium				45.5	44.2		36.4	54.6	97.1
Cobalt				113.5	111.0		90.8	136.2	97.8
Copper				56.5	53.7		45.2	67.8	95.0
Iron				227.5	226.4		182	273.0	99.5
Lead				22.8	22.4		18.2	27.3	98.2
Magnesium				1135.0	1122.9		908	1362.0	98.9
Manganese				113.5	113.8		90.8	136.2	100.3
Nickel				113.5	110.9		90.8	136.2	97.7
Potassium				1135.0	1143.6		908	1362.0	100.8
Selenium				22.8	20.4		18.2	27.3	89.5
Silver				56.5	55.7		42.4	67.8	98.6
Sodium				1135.0	1114.3		908	1362.0	98.2
Thallium				22.8	20.3		18.2	27.3	89.0
Vanadium				113.5	109.8		90.8	136.2	96.7
Zinc				113.5	108.8		90.8	136.2	95.9

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LABORATORY CONTROL SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-68310**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury				0.8	0.7		0.6	0.9	87.5

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LABORATORY CONTROL SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-68437**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum	9100.0	8994.43	98.8						
Antimony	455.0	490.56	107.8						
Arsenic	455.0	459.10	100.9						
Barium	9100.0	9165.18	100.7						
Beryllium	227.0	227.10	100.0						
Cadmium	227.0	228.31	100.6						
Calcium	22700.0	21718.11	95.7						
Chromium	910.0	905.36	99.5						
Cobalt	2270.0	2266.60	99.9						
Copper	1130.0	1129.93	100.0						
Iron	4550.0	4577.76	100.6						
Lead	455.0	458.25	100.7						
Magnesium	22700.0	22658.61	99.8						
Manganese	2270.0	2250.63	99.1						
Nickel	2270.0	2286.31	100.7						
Potassium	22700.0	21807.40	96.1						
Selenium	455.0	454.66	99.9						
Silver	1130.0	1163.49	103.0						
Sodium	22700.0	22687.67	99.9						
Thallium	455.0	419.41	92.2						
Vanadium	2270.0	2259.93	99.6						
Zinc	2270.0	2267.83	99.9						

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LABORATORY CONTROL SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-68486**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury	4.6	4.63	100.7						

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LABORATORY CONTROL SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-68496**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Iron	4550.0	4753.14	104.5						

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LABORATORY CONTROL SAMPLE

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCSD-68496**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Iron	4550.0	4756.79	104.5						

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW 3

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

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	22.26				P
Barium	17.24	B	21.86	B	27		P
Beryllium	0.26	U	1.30	U			P
Cadmium	0.89	U	4.45	U			P
Calcium	14490.34		14134.13		3		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	144.09	B	156.87	B	9		P
Lead	4.20	U	21.00	U			P
Magnesium	3313.13		3372.57		2		P
Manganese	355.22		362.72		2		P
Nickel	0.85	U	4.25	U			P
Potassium	2212.75		2511.58		14		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	23470.70		23786.10		1		P
Thallium	6.20	U	31.00	U			P
Vanadium	1.10	U	5.50	U			P
Zinc	4.90	U	24.50	U			P

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SED 1

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Matrix (soil/water): SOIL 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	24434.17		23866.70		2		P
Antimony	9.30	U	46.50	U			P
Arsenic	40.94		58.45		43		P
Barium	458.71		467.56		2		P
Beryllium	0.77	B	1.30	U	100		P
Cadmium	202.80		206.60		2		P
Calcium	7546.56		7369.21		2		P
Chromium	129.50		131.42		2		P
Cobalt	44.38	B	46.32		4		P
Copper	325.62		317.28		3		P
Iron	60236.84		60871.12		1		P
Lead	653.10		659.49		1		P
Magnesium	4899.01		5000.20		2		P
Manganese	8170.69		8382.85		3		P
Nickel	61.54		63.15		3		P
Potassium	1490.87		1089.19		27		P
Selenium	13.74	B	60.00	U	100		P
Silver	6.90	U	34.50	U			P
Sodium	876.62	B	800.10		9		P
Thallium	19.30	B	31.00	U	100		P
Vanadium	204.21		208.70		2		P
Zinc	1448.51		1483.86		2		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.: SL1949

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.: SL1949

Instrument Type: CV InstrumentID: FIMS2 Date: 02/09/2011

Preparation Method: 7471B

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

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.03	0.0021

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.: SL1949

Instrument Type: P InstrumentID: OPTIMA3 Date: 06/03/2010

Preparation Method: 3050B

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

Analyte	Wavelength /Mass	CRDL	MDL
Aluminum	308.21	10	1.2
Antimony	206.83	1.0	0.38
Arsenic	188.98	1.0	0.41
Barium	233.53	10	0.031
Beryllium	313.11	0.25	0.0015
Cadmium	226.50	0.25	0.015
Calcium	227.54	40	6.1
Chromium	267.72	1.0	0.019
Cobalt	228.62	2.5	0.044
Copper	324.75	1.5	0.11
Iron	273.96	10	1.5
Lead	220.35	0.50	0.17
Magnesium	279.08	25	0.63
Manganese	257.61	2.5	0.13
Nickel	231.60	2.5	0.043
Potassium	766.49	50	3.4
Selenium	196.03	1.5	0.64
Silver	328.07	1.5	0.064
Sodium	589.59	50	1.1
Thallium	190.80	1.0	0.22
Vanadium	292.40	2.5	0.060
Zinc	206.20	2.5	0.18

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.: SL1949

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

11A

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

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.: SL1949

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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11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

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.: SL1949

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.: SL1949

Preparation Method: 3050B Batch ID: 68292

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	09/25/2012	1.00	50
PBS	09/25/2012	1.00	50
SED 1	09/25/2012	1.05	50
SED 1D	09/25/2012	1.06	50
SED 1S	09/25/2012	1.06	50
SED 2	09/25/2012	1.29	50
SED 3	09/25/2012	1.15	50
SED 4	09/25/2012	1.08	50
SED 5	09/25/2012	1.17	50
SED 6	09/25/2012	1.15	50
SED X FD	09/25/2012	1.16	50

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.: SL1949

Preparation Method: 7471B Batch ID: 68310

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	09/25/2012	0.60	100
CCV	09/25/2012	0.60	100
ICB	09/25/2012	0.60	100
ICV	09/25/2012	0.60	100
S0	09/25/2012	0.60	100
S0.2	09/25/2012	0.60	100
S1.0	09/25/2012	0.60	100
S10.0	09/25/2012	0.60	100
S2.0	09/25/2012	0.60	100
S5.0	09/25/2012	0.60	100
LCSS	09/25/2012	0.60	100
PBS	09/25/2012	0.60	100
SED 1	09/25/2012	0.54	100
SED 1D	09/25/2012	0.54	100
SED 1S	09/25/2012	0.54	100
SED 2	09/25/2012	0.59	100
SED 3	09/25/2012	0.59	100
SED 4	09/25/2012	0.52	100
SED 5	09/25/2012	0.53	100
SED 6	09/25/2012	0.51	100
SED X FD	09/25/2012	0.55	100

Comments:

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PREPARATION LOG

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Preparation Method: 7471B Batch ID: 68310

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	09/25/2012	0.60	100
CCV	09/25/2012	0.60	100
ICB	09/25/2012	0.60	100
ICV	09/25/2012	0.60	100
S0	09/25/2012	0.60	100
S0.2	09/25/2012	0.60	100
S1.0	09/25/2012	0.60	100
S10.0	09/25/2012	0.60	100
S2.0	09/25/2012	0.60	100
S5.0	09/25/2012	0.60	100
LCSS	09/25/2012	0.60	100
PBS	09/25/2012	0.60	100
SED 1	09/25/2012	0.54	100
SED 1D	09/25/2012	0.54	100
SED 1S	09/25/2012	0.54	100
SED 2	09/25/2012	0.59	100
SED 3	09/25/2012	0.59	100
SED 4	09/25/2012	0.52	100
SED 5	09/25/2012	0.53	100
SED 6	09/25/2012	0.51	100
SED X FD	09/25/2012	0.55	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.: SL1949

Preparation Method: 3005A Batch ID: 68437

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	09/30/2012		50
PBW	09/30/2012		50
SW 1	09/30/2012		50
SW 2	09/30/2012		50
SW 3	09/30/2012		50
SW 3D	09/30/2012		50
SW 3S	09/30/2012		50
SW 4	09/30/2012		50
SW 5	09/30/2012		50
SW 6	09/30/2012		50
SW FB	09/30/2012		50
SW X-FD	09/30/2012		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.: SL1949

Preparation Method: 7470A Batch ID: 68486

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	10/02/2012		100
CCV	10/02/2012		100
ICB	10/02/2012		100
ICV	10/02/2012		100
S0	10/02/2012		100
S0.2	10/02/2012		100
S1.0	10/02/2012		100
S10.0	10/02/2012		100
S2.0	10/02/2012		100
S5.0	10/02/2012		100
LCSW	10/02/2012		100
PBW	10/02/2012		100
SW 1	10/02/2012		100
SW 2	10/02/2012		100
SW 3	10/02/2012		100
SW 3D	10/02/2012		100
SW 3S	10/02/2012		100
SW 4	10/02/2012		100
SW 5	10/02/2012		100
SW 6	10/02/2012		100
SW FB	10/02/2012		100
SW X-FD	10/02/2012		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.: SL1949

Preparation Method: 3005A Batch ID: 68496

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	10/03/2012		50
LCSW02	10/03/2012		50
PBW	10/03/2012		50
SW 5	10/03/2012		50

Comments:

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ANALYSIS RUN LOG

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Instrument ID Number: FIMS2 Method: CV

Start Date: 09/25/2012 End Date: 09/25/2012

FIMS2_120925B

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1223																X									
S0.2	1.0	1224																X									
S1.0	1.0	1226																X									
S2.0	1.0	1228																X									
S5.0	1.0	1229																X									
S10.0	1.0	1231																X									
ICV	1.0	1233																X									
ICB	1.0	1234																X									
PBS	1.0	1236																X									
LCSS	1.0	1238																X									
SED 1	1.0	1239																X									
SED 1D	1.0	1241																X									
SED 1S	1.0	1243																X									
SED 2	1.0	1244																X									
SED 3	1.0	1246																X									
SED 4	1.0	1248																X									
SED 5	1.0	1249																X									
CCV	1.0	1251																X									
CCB	1.0	1253																X									
SED 6	1.0	1254																X									
ZZZZZZ	1.0	1256																									
SED X FD	1.0	1258																X									
ZZZZZZ	1.0	1259																									
ZZZZZZ	1.0	1301																									
ZZZZZZ	1.0	1303																									
ZZZZZZ	1.0	1304																									
ZZZZZZ	1.0	1306																									
ZZZZZZ	1.0	1308																									
CCV	1.0	1309																X									
CCB	1.0	1311																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.: SL1949

Instrument ID Number: FIMS2 Method: CV

Start Date: 10/03/2012 End Date: 10/03/2012

FIMS2_121003A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1034																X									
S0.2	1.0	1036																X									
S1.0	1.0	1038																X									
S2.0	1.0	1039																X									
S5.0	1.0	1041																X									
S10.0	1.0	1042																X									
ICV	1.0	1044																X									
ICB	1.0	1046																X									
PBW	1.0	1048																X									
LCSW	1.0	1049																X									
ZZZZZZ	1.0	1051																									
ZZZZZZ	1.0	1052																									
SW 1	1.0	1054																X									
SW 2	1.0	1056																X									
SW 3	1.0	1057																X									
SW 3D	1.0	1059																X									
SW 3S	1.0	1101																X									
CCV	1.0	1102																X									
CCB	1.0	1104																X									
SW 4	1.0	1106																X									
SW 5	1.0	1108																X									
SW 6	1.0	1109																X									
SW X-FD	1.0	1111																X									
SW FB	1.0	1113																X									
ZZZZZZ	1.0	1114																									
ZZZZZZ	1.0	1116																									
ZZZZZZ	1.0	1118																									
ZZZZZZ	1.0	1119																									
CCV	1.0	1121																X									
CCB	1.0	1123																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.: SL1949

Instrument ID Number: OPTIMA3 Method: P

Start Date: 09/26/2012 End Date: 09/26/2012

OPTIMA3_120926A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0741		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	0744		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	0748		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	0752		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	0755		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	0759		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	0803																									
ZZZZZZ	1.0	0807																									
ICSA	1.0	0811		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	0815		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	0819		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	0822		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	0826																									
ZZZZZZ	1.0	0830																									
ZZZZZZ	1.0	0833																									
ZZZZZZ	5.0	0837																									
CCV	1.0	0841		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	0844		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	0848																									
ZZZZZZ	1.0	0852																									
ZZZZZZ	1.0	0855																									
ZZZZZZ	1.0	0859																									
ZZZZZZ	1.0	0903																									
ZZZZZZ	1.0	0907																									
ZZZZZZ	1.0	0911																									
ZZZZZZ	1.0	0915																									
ZZZZZZ	1.0	0919																									
ZZZZZZ	20.0	0923																									
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	0930		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	0934																									
ZZZZZZ	1.0	0938																									

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ANALYSIS RUN LOG

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Instrument ID Number: OPTIMA3 Method: P

Start Date: 09/26/2012 End Date: 09/26/2012

OPTIMA3_120926A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	0941																									
ZZZZZZ	1.0	0945																									
ZZZZZZ	1.0	0950																									
ZZZZZZ	1.0	0954																									
ZZZZZZ	1.0	0958																									
ZZZZZZ	1.0	1002																									
ZZZZZZ	5.0	1005																									
CCV	1.0	1009		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	
ZZZZZZ	1.0	1016																									
ZZZZZZ	1.0	1019																									
ZZZZZZ	1.0	1022																									
ZZZZZZ	1.0	1026																									
ZZZZZZ	1.0	1031																									
ZZZZZZ	1.0	1034																									
ZZZZZZ	20.0	1038																									
ZZZZZZ	20.0	1042																									
ZZZZZZ	20.0	1045																									
CCV	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	
CCB	1.0	1053		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	20.0	1056																									
ZZZZZZ	20.0	1100																									
ZZZZZZ	20.0	1104																									
ZZZZZZ	20.0	1107																									
ZZZZZZ	20.0	1111																									
ZZZZZZ	20.0	1115																									
ZZZZZZ	20.0	1119																									
ZZZZZZ	20.0	1122																									
ZZZZZZ	20.0	1126																									
ZZZZZZ	100.0	1130																									
CCV	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	
CCB	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	

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ANALYSIS RUN LOG

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

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL1949

Instrument ID Number: OPTIMA3 Method: P

Start Date: 09/26/2012 End Date: 09/26/2012

OPTIMA3_120926A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	20.0	1141																									
ZZZZZZ	20.0	1144																									
ZZZZZZ	20.0	1148																									
ZZZZZZ	20.0	1152																									
CCV	1.0	1155		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	1159		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBS	1.0	1203		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSS	1.0	1206		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	1210																									
ZZZZZZ	1.0	1214																									
SED 1	1.0	1218		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SED 1D	1.0	1221		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SED 1S	1.0	1225			X	X	X	X	X		X	X	X		X				X		X	X		X	X	X	
SED 1L	5.0	1229		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	20.0	1233																									
CCV	1.0	1236		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	1240		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	1244																									
SED 2	1.0	1248		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SED 3	1.0	1252		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SED 4	1.0	1255		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SED 5	1.0	1259		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SED 6	1.0	1303		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SED X FD	1.0	1306		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	1310																									
CCV	1.0	1314		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	1318		X	X	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.: SL1949

Instrument ID Number: OPTIMA3 Method: P

Start Date: 10/01/2012 End Date: 10/01/2012

OPTIMA3_121001A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1024		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	1027		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	1031		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	1035		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	1038		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	1042		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	1046																									
ICSA	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	
ICSAB	1.0	1053		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	1057		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	1101		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	1104																									
LCSW	1.0	1108		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW 1	1.0	1111		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW 2	1.0	1115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW 3	1.0	1119		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW 3D	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	
SW 3S	1.0	1126		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
SW 3L	5.0	1130		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	1134		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	1137		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	1141		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	1145																									
SW 4	1.0	1148		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW 5	1.0	1152		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SW 6	1.0	1156		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW X-FD	1.0	1159		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW FB	1.0	1203		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	1207																									
ZZZZZZ	1.0	1210																									
CCV	1.0	1214		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	1218		X	X	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.: SL1949

Instrument ID Number: OPTIMA3 Method: P

Start Date: 10/04/2012 End Date: 10/04/2012

OPTIMA3_121004A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0829												X													
S1	1.0	0832												X													
S2	1.0	0836												X													
S3	1.0	0839												X													
ICV	1.0	0843												X													
ICB	1.0	0846												X													
ZZZZZZ	1.0	0850																									
ICSA	1.0	0853												X													
ICSAB	1.0	0857												X													
CCV	1.0	0900												X													
CCB	1.0	0904												X													
ZZZZZZ	1.0	0908																									
PBW	1.0	0911												X													
LCSW	1.0	0915												X													
LCSW02	1.0	0918												X													
ZZZZZZ	1.0	0922																									
ZZZZZZ	5.0	0925																									
CCV	1.0	0929												X													
CCB	1.0	0932												X													
ZZZZZZ	1.0	0936																									
ZZZZZZ	1.0	0939																									
ZZZZZZ	1.0	0943																									
SW 5	1.0	0946												X													
CCV	1.0	0950												X													
CCB	1.0	0953												X													

Instrument Raw Data

==========

Reprocessing Begun
Logged In Analyst: mitOptima3 **Technique: ICP Continuous**

Results Data Set (original): B12092601
Results Library (original): C:\pe\Administrator\Results\Results.mdb
Results Data Set (reprocessed): B12092601A
Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 9/26/2012 7:41:15 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:29 PM**
Logged In Analyst (Original) : mitOptima3
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	2074238.8	6896.88	0.33%	100.00	%
Lu 261.542	1464293.1	5318.50	0.36%	100.0	%
Ag 328.068†	-3600.6	41.22	1.14%	[0.00]	mg/L
Al 308.215†	3509.0	55.70	1.59%	[0.00]	mg/L
As 188.979†	-15.7	2.97	18.97%	[0.00]	mg/L
Ba 233.527†	-95.0	6.81	7.16%	[0.00]	mg/L
Be 313.107†	-1171.3	15.79	1.35%	[0.00]	mg/L
Co 228.616†	-26.4	5.24	19.82%	[0.00]	mg/L
Cr 267.716†	60.4	4.92	8.16%	[0.00]	mg/L
Cu 324.752†	4372.9	84.43	1.93%	[0.00]	mg/L
Fe 273.955†	128.7	7.25	5.63%	[0.00]	mg/L
Mg 279.077†	-873.2	48.56	5.56%	[0.00]	mg/L
Mn 257.610†	-99.9	14.67	14.69%	[0.00]	mg/L
Ni 231.604†	-19.9	5.11	25.71%	[0.00]	mg/L
Pb 220.353†	43.2	0.73	1.68%	[0.00]	mg/L
Sb 206.836†	78.6	2.72	3.46%	[0.00]	mg/L
Se 196.026†	-1.9	2.86	154.46%	[0.00]	mg/L
Tl 190.801†	-3.0	2.88	97.27%	[0.00]	mg/L
V 292.402†	-65.4	18.24	27.89%	[0.00]	mg/L
Zn 206.200†	247.2	2.87	1.16%	[0.00]	mg/L
Cd 226.502†	-82.8	4.47	5.40%	[0.00]	mg/L
Ti 334.940†	-13.6	32.49	239.49%	[0.00]	mg/L
Ca 227.546†	174.5	14.52	8.32%	[0.00]	mg/L
Na 589.592	-200.1	128.07	64.01%	[0.00]	mg/L
K 766.490	1232.4	97.29	7.89%	[0.00]	mg/L

==========

Sequence No.: 2 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 9/26/2012 7:44:53 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:32 PM**
Logged In Analyst (Original) : mitOptima3
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	2009630.3	25658.62	1.28%	96.885	%
Lu 261.542	1422029.9	17488.63	1.23%	97.11	%
Ag 328.068†	415605.7	6616.84	1.59%	[2.5]	mg/L
Al 308.215†	405765.8	6909.75	1.70%	[20]	mg/L
As 188.979†	1715.9	29.56	1.72%	[1]	mg/L
Ba 233.527†	1962111.5	561.33	0.03%	[20]	mg/L
Be 313.107†	1251057.9	391.81	0.03%	[0.5]	mg/L
Co 228.616†	214768.1	3561.08	1.66%	[5]	mg/L
Cr 267.716†	150086.4	2285.81	1.52%	[2]	mg/L
Cu 324.752†	565031.8	348.57	0.06%	[2.5]	mg/L
Fe 273.955†	248513.8	4054.68	1.63%	[10]	mg/L

Mg 279.077†	887728.0	1140.57	0.13%	[50]	mg/L
Mn 257.610†	3036611.7	2400.15	0.08%	[5]	mg/L
Ni 231.604†	172492.2	2786.38	1.62%	[5]	mg/L
Pb 220.353†	7241.9	98.73	1.36%	[1]	mg/L
Sb 206.836†	2311.4	33.23	1.44%	[1]	mg/L
Se 196.026†	1120.3	21.40	1.91%	[1]	mg/L
Tl 190.801†	1912.6	28.61	1.50%	[1]	mg/L
V 292.402†	635006.2	304.79	0.05%	[5]	mg/L
Zn 206.200†	212616.7	3790.33	1.78%	[5]	mg/L
Cd 226.502†	33797.4	636.14	1.88%	[0.5]	mg/L
Ti 334.940†	560450.0	813.57	0.15%	[1]	mg/L
Ca 227.546†	12018.6	191.93	1.60%	[50]	mg/L
Na 589.592	215003.8	1322.84	0.62%	[50]	mg/L
K 766.490	59784.6	447.36	0.75%	[50]	mg/L

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 9/26/2012 7:48:36 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:32 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2046014.4	8409.43	0.41%	98.639	%
Lu 261.542	1450011.4	6753.62	0.47%	99.02	%
Ag 328.068†	210046.8	6067.07	2.89%	[1.25]	mg/L
Al 308.215†	199346.8	754.33	0.38%	[10]	mg/L
As 188.979†	842.9	6.69	0.79%	[0.5]	mg/L
Ba 233.527†	999559.8	1603.01	0.16%	[10]	mg/L
Be 313.107†	624224.4	670.38	0.11%	[0.25]	mg/L
Co 228.616†	108334.7	321.59	0.30%	[2.5]	mg/L
Cr 267.716†	75222.2	134.26	0.18%	[1]	mg/L
Cu 324.752†	275582.7	964.60	0.35%	[1.25]	mg/L
Fe 273.955†	124722.8	434.95	0.35%	[5]	mg/L
Mg 279.077†	444729.7	540.55	0.12%	[25]	mg/L
Mn 257.610†	1534039.5	1102.74	0.07%	[2.5]	mg/L
Ni 231.604†	87409.5	185.90	0.21%	[2.5]	mg/L
Pb 220.353†	3652.5	15.73	0.43%	[0.5]	mg/L
Sb 206.836†	1167.9	9.84	0.84%	[0.5]	mg/L
Se 196.026†	553.3	7.38	1.33%	[0.5]	mg/L
Tl 190.801†	957.9	6.97	0.73%	[0.5]	mg/L
V 292.402†	314089.9	972.57	0.31%	[2.5]	mg/L
Zn 206.200†	108076.3	352.53	0.33%	[2.5]	mg/L
Cd 226.502†	16988.0	54.32	0.32%	[0.25]	mg/L
Ti 334.940†	278426.0	486.03	0.17%	[0.5]	mg/L
Ca 227.546†	5892.4	34.19	0.58%	[25]	mg/L
Na 589.592	110465.2	388.36	0.35%	[25]	mg/L
K 766.490	30301.3	109.88	0.36%	[25]	mg/L

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 9/26/2012 7:52:18 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:33 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2083772.6	12803.74	0.61%	100.46	%
Lu 261.542	1476146.0	10136.65	0.69%	100.8	%
Ag 328.068†	5817.0	130.17	2.24%	[0.025]	mg/L
Al 308.215†	3827.7	84.74	2.21%	[0.2]	mg/L
As 188.979†	17.6	3.49	19.86%	[0.01]	mg/L
Ba 233.527†	21068.2	263.89	1.25%	[0.2]	mg/L

Be 313.107†	12520.6	151.30	1.21%	[0.005]	mg/L
Co 228.616†	2217.5	30.14	1.36%	[0.05]	mg/L
Cr 267.716†	1539.9	21.54	1.40%	[0.02]	mg/L
Cu 324.752†	5327.1	177.78	3.34%	[0.025]	mg/L
Fe 273.955†	2363.3	24.30	1.03%	[0.1]	mg/L
Mg 279.077†	9196.5	157.07	1.71%	[0.5]	mg/L
Mn 257.610†	32452.7	529.97	1.63%	[0.05]	mg/L
Ni 231.604†	1767.4	24.44	1.38%	[0.05]	mg/L
Pb 220.353†	77.7	2.81	3.61%	[0.01]	mg/L
Sb 206.836†	40.1	3.96	9.88%	[0.01]	mg/L
Se 196.026†	13.1	1.79	13.71%	[0.01]	mg/L
Tl 190.801†	18.5	2.62	14.17%	[0.01]	mg/L
V 292.402†	6416.6	69.21	1.08%	[0.05]	mg/L
Zn 206.200†	2184.9	21.59	0.99%	[0.05]	mg/L
Cd 226.502†	356.6	5.25	1.47%	[0.005]	mg/L
Ti 334.940†	5630.8	92.29	1.64%	[0.01]	mg/L
Ca 227.546†	127.3	6.59	5.17%	[0.5]	mg/L
Na 589.592	2548.2	68.54	2.69%	[0.5]	mg/L
K 766.490	575.3	122.59	21.31%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	166600	0.00000	0.999984	
Al 308.215	3	Lin Thru 0	0.0	20220	0.00000	0.999975	
As 188.979	3	Lin Thru 0	0.0	1710	0.00000	0.999975	
Ba 233.527	3	Lin Thru 0	0.0	98480	0.00000	0.999972	
Be 313.107	3	Lin Thru 0	0.0	2501000	0.00000	1.000000	
Co 228.616	3	Lin Thru 0	0.0	43030	0.00000	0.999994	
Cr 267.716	3	Lin Thru 0	0.0	75080	0.00000	1.000000	
Cu 324.752	3	Lin Thru 0	0.0	224900	0.00000	0.999951	
Fe 273.955	3	Lin Thru 0	0.0	24870	0.00000	0.999999	
Mg 279.077	3	Lin Thru 0	0.0	17760	0.00000	1.000000	
Mn 257.610	3	Lin Thru 0	0.0	608600	0.00000	0.999991	
Ni 231.604	3	Lin Thru 0	0.0	34590	0.00000	0.999986	
Pb 220.353	3	Lin Thru 0	0.0	7255	0.00000	0.999994	
Sb 206.836	3	Lin Thru 0	0.0	2316	0.00000	0.999970	
Se 196.026	3	Lin Thru 0	0.0	1118	0.00000	0.999987	
Tl 190.801	3	Lin Thru 0	0.0	1913	0.00000	1.000000	
V 292.402	3	Lin Thru 0	0.0	126700	0.00000	0.999991	
Zn 206.200	3	Lin Thru 0	0.0	42660	0.00000	0.999978	
Cd 226.502	3	Lin Thru 0	0.0	67670	0.00000	0.999998	
Ti 334.940	3	Lin Thru 0	0.0	559700	0.00000	0.999997	
Ca 227.546	3	Lin Thru 0	0.0	239.4	0.00000	0.999969	
Na 589.592	3	Lin Thru 0	0.0	4324	0.00000	0.999939	
K 766.490	3	Lin Thru 0	0.0	1199	0.00000	0.999985	

Sequence No.: 5 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 9/26/2012 7:55:58 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:34 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2008308.4	96.821	%	0.6654				0.69%
Lu 261.542	1427949.9	97.52	%	0.593				0.61%
Ag 328.068†	214977.9	1.2945	mg/L	0.00710	1.2945	mg/L	0.00710	0.55%
QC value within limits for Ag 328.068 Recovery = 103.56%								
Al 308.215†	198459.7	9.8068	mg/L	0.04838	9.8068	mg/L	0.04838	0.49%
QC value within limits for Al 308.215 Recovery = 98.07%								
As 188.979†	849.5	0.50503	mg/L	0.005825	0.50503	mg/L	0.005825	1.15%
QC value within limits for As 188.979 Recovery = 101.01%								
Ba 233.527†	1021894.1	10.381	mg/L	0.0082	10.381	mg/L	0.0082	0.08%
QC value within limits for Ba 233.527 Recovery = 103.81%								
Be 313.107†	622615.2	0.24993	mg/L	0.000343	0.24993	mg/L	0.000343	0.14%

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   QC value within limits for Be 313.107  Recovery = 99.97%
Co 228.616†           110867.3      2.5749 mg/L       0.01574      2.5749 mg/L       0.01574   0.61%
   QC value within limits for Co 228.616  Recovery = 102.99%
Cr 267.716†            74029.6     0.98627 mg/L      0.005268     0.98627 mg/L      0.005268   0.53%
   QC value within limits for Cr 267.716  Recovery = 98.63%
Cu 324.752†           282727.2      1.2583 mg/L       0.00250      1.2583 mg/L       0.00250   0.20%
   QC value within limits for Cu 324.752  Recovery = 100.67%
Fe 273.955†           125222.0      5.0392 mg/L       0.03328      5.0392 mg/L       0.03328   0.66%
   QC value within limits for Fe 273.955  Recovery = 100.78%
Mg 279.077†           451726.2      25.430 mg/L        0.0332      25.430 mg/L        0.0332   0.13%
   QC value within limits for Mg 279.077  Recovery = 101.72%
Mn 257.610†          1553685.1      2.5523 mg/L       0.00395      2.5523 mg/L       0.00395   0.15%
   QC value within limits for Mn 257.610  Recovery = 102.09%
Ni 231.604†            88143.6      2.5476 mg/L       0.01705      2.5476 mg/L       0.01705   0.67%
   QC value within limits for Ni 231.604  Recovery = 101.90%
Pb 220.353†             3671.0     0.50782 mg/L      0.002923     0.50782 mg/L      0.002923   0.58%
   QC value within limits for Pb 220.353  Recovery = 101.56%
Sb 206.836†             1235.2     0.51678 mg/L      0.003262     0.51678 mg/L      0.003262   0.63%
   QC value within limits for Sb 206.836  Recovery = 103.36%
Se 196.026†              555.8     0.50295 mg/L      0.003421     0.50295 mg/L      0.003421   0.68%
   QC value within limits for Se 196.026  Recovery = 100.59%
Tl 190.801†              957.6     0.47718 mg/L      0.003789     0.47718 mg/L      0.003789   0.79%
   QC value within limits for Tl 190.801  Recovery = 95.44%
V 292.402†            315218.2      2.4887 mg/L       0.01334      2.4887 mg/L       0.01334   0.54%
   QC value within limits for V 292.402  Recovery = 99.55%
Zn 206.200†           108328.5      2.5447 mg/L       0.01630      2.5447 mg/L       0.01630   0.64%
   QC value within limits for Zn 206.200  Recovery = 101.79%
Cd 226.502†            16815.4     0.24871 mg/L      0.001353     0.24871 mg/L      0.001353   0.54%
   QC value within limits for Cd 226.502  Recovery = 99.49%
Ti 334.940†           279153.5     0.49847 mg/L      0.001344     0.49847 mg/L      0.001344   0.27%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             6056.8      24.465 mg/L        0.1245      24.465 mg/L        0.1245   0.51%
   QC value within limits for Ca 227.546  Recovery = 97.86%
Na 589.592            111011.5      25.674 mg/L        0.0214      25.674 mg/L        0.0214   0.08%
   QC value within limits for Na 589.592  Recovery = 102.70%
K 766.490              30462.4      25.407 mg/L        0.0364      25.407 mg/L        0.0364   0.14%
   QC value within limits for K 766.490  Recovery = 101.63%
All analyte(s) passed QC.
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Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 9/26/2012 7:59:40 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:35 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2114511.9	101.94	%	1.096				1.08%
Lu 261.542	1496271.7	102.2	%	1.15				1.12%
Ag 328.068†	1392.1	0.00836	mg/L	0.001580	0.00836	mg/L	0.001580	18.91%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	29.9	0.00148	mg/L	0.001671	0.00148	mg/L	0.001671	112.92%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.9	0.00169	mg/L	0.001214	0.00169	mg/L	0.001214	71.82%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	318.1	0.00323	mg/L	0.001043	0.00323	mg/L	0.001043	32.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	194.2	0.00008	mg/L	0.000022	0.00008	mg/L	0.000022	27.69%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	41.1	0.00095	mg/L	0.000382	0.00095	mg/L	0.000382	40.00%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	26.9	0.00036	mg/L	0.000267	0.00036	mg/L	0.000267	74.50%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-101.7	-0.00045	mg/L	0.000103	-0.00045	mg/L	0.000103	22.77%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	39.5	0.00159	mg/L	0.000782	0.00159	mg/L	0.000782	49.18%
QC value within limits for Fe 273.955 Recovery = Not calculated								

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Mg 279.077†              151.7     0.00854 mg/L      0.006122     0.00854 mg/L      0.006122  71.68%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              561.9     0.00092 mg/L      0.000221     0.00092 mg/L      0.000221  23.97%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†               25.4     0.00073 mg/L      0.000596     0.00073 mg/L      0.000596  81.27%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                8.3     0.00114 mg/L      0.000850     0.00114 mg/L      0.000850  74.28%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               11.1     0.00477 mg/L      0.001539     0.00477 mg/L      0.001539  32.28%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.8     0.00254 mg/L      0.006487     0.00254 mg/L      0.006487 255.20%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†                2.5     0.00131 mg/L      0.002359     0.00131 mg/L      0.002359 179.70%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†                99.3     0.00078 mg/L      0.000534     0.00078 mg/L      0.000534  68.08%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†               80.1     0.00188 mg/L      0.000580     0.00188 mg/L      0.000580  30.86%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†               11.9     0.00018 mg/L      0.000083     0.00018 mg/L      0.000083  47.36%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              223.4     0.00040 mg/L      0.000066     0.00040 mg/L      0.000066  16.60%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†               -2.7    -0.01174 mg/L      0.013856    -0.01174 mg/L      0.013856 118.03%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592                80.6     0.01865 mg/L      0.013498     0.01865 mg/L      0.013498  72.38%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490                -19.1    -0.01593 mg/L      0.078012    -0.01593 mg/L      0.078012 489.71%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 7 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 9/26/2012 8:03:19 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:36 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2110630.9	101.75	%	1.203				1.18%
Lu 261.542	1494238.0	102.0	%	1.18				1.15%
Ag 328.068†	6010.1	0.03616	mg/L	0.000544	0.03616	mg/L	0.000544	1.51%
QC value within limits for Ag 328.068 Recovery = 120.53%								
Al 308.215†	5785.7	0.28592	mg/L	0.009347	0.28592	mg/L	0.009347	3.27%
QC value greater than the upper limit for Al 308.215 Recovery = 142.96%								
As 188.979†	39.5	0.02330	mg/L	0.001370	0.02330	mg/L	0.001370	5.88%
QC value within limits for As 188.979 Recovery = 116.49%								
Ba 233.527†	20895.2	0.21226	mg/L	0.004166	0.21226	mg/L	0.004166	1.96%
QC value within limits for Ba 233.527 Recovery = 106.13%								
Be 313.107†	12511.4	0.00504	mg/L	0.000099	0.00504	mg/L	0.000099	1.96%
QC value within limits for Be 313.107 Recovery = 100.78%								
Co 228.616†	2217.3	0.05147	mg/L	0.000789	0.05147	mg/L	0.000789	1.53%
QC value within limits for Co 228.616 Recovery = 102.94%								
Cr 267.716†	1519.6	0.02025	mg/L	0.000821	0.02025	mg/L	0.000821	4.06%
QC value within limits for Cr 267.716 Recovery = 101.23%								
Cu 324.752†	6214.4	0.02766	mg/L	0.001018	0.02766	mg/L	0.001018	3.68%
QC value within limits for Cu 324.752 Recovery = 92.21%								
Fe 273.955†	4803.0	0.19321	mg/L	0.004333	0.19321	mg/L	0.004333	2.24%
QC value within limits for Fe 273.955 Recovery = 96.60%								
Mg 279.077†	9388.6	0.52854	mg/L	0.008992	0.52854	mg/L	0.008992	1.70%
QC value within limits for Mg 279.077 Recovery = 105.71%								
Mn 257.610†	32032.3	0.05262	mg/L	0.001033	0.05262	mg/L	0.001033	1.96%
QC value within limits for Mn 257.610 Recovery = 105.24%								
Ni 231.604†	1798.9	0.05199	mg/L	0.000804	0.05199	mg/L	0.000804	1.55%
QC value within limits for Ni 231.604 Recovery = 103.97%								
Pb 220.353†	71.3	0.00988	mg/L	0.000062	0.00988	mg/L	0.000062	0.63%
QC value within limits for Pb 220.353 Recovery = 98.82%								
Sb 206.836†	48.4	0.02055	mg/L	0.003131	0.02055	mg/L	0.003131	15.23%

```
   QC value within limits for Sb 206.836  Recovery = 102.76%
Se 196.026†              36.8     0.03309 mg/L      0.002512     0.03309 mg/L      0.002512   7.59%
   QC value within limits for Se 196.026  Recovery = 110.29%
Tl 190.801†              37.9     0.01938 mg/L      0.001911     0.01938 mg/L      0.001911   9.86%
   QC value within limits for Tl 190.801  Recovery = 96.91%
V 292.402†             6354.0     0.05016 mg/L      0.000894     0.05016 mg/L      0.000894   1.78%
   QC value within limits for V 292.402  Recovery = 100.31%
Zn 206.200†            2156.9     0.05069 mg/L      0.000919     0.05069 mg/L      0.000919   1.81%
   QC value within limits for Zn 206.200  Recovery = 101.37%
Cd 226.502†             351.9     0.00520 mg/L      0.000114     0.00520 mg/L      0.000114   2.19%
   QC value within limits for Cd 226.502  Recovery = 103.94%
Ti 334.940†           10700.2     0.01911 mg/L      0.000352     0.01911 mg/L      0.000352   1.84%
   QC value within limits for Ti 334.940  Recovery = 95.57%
Ca 227.546†             182.7     0.74604 mg/L      0.032197     0.74604 mg/L      0.032197   4.32%
   QC value within limits for Ca 227.546  Recovery = 93.26%
Na 589.592             4660.9      1.0779 mg/L       0.01471      1.0779 mg/L       0.01471   1.36%
   QC value within limits for Na 589.592  Recovery = 107.79%
K 766.490              1200.5      1.0012 mg/L       0.02881      1.0012 mg/L       0.02881   2.88%
   QC value within limits for K 766.490  Recovery = 100.12%
QC Failed.  Continue with analysis.
```

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Sequence No.: 8 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 9/26/2012 8:07:54 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:36 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2081217.9	100.34	%	0.522				0.52%
Lu 261.542	1474424.8	100.7	%	0.59				0.59%
Ag 328.068†	5558.6	0.03345	mg/L	0.000135	0.03345	mg/L	0.000135	0.40%
QC value within limits for Ag 328.068 Recovery = 111.49%								
Al 308.215†	3540.9	0.17490	mg/L	0.001813	0.17490	mg/L	0.001813	1.04%
QC value within limits for Al 308.215 Recovery = 87.45%								
As 188.979†	39.0	0.02298	mg/L	0.002419	0.02298	mg/L	0.002419	10.53%
QC value within limits for As 188.979 Recovery = 114.92%								
Ba 233.527†	20294.2	0.20615	mg/L	0.000451	0.20615	mg/L	0.000451	0.22%
QC value within limits for Ba 233.527 Recovery = 103.08%								
Be 313.107†	12174.0	0.00490	mg/L	0.000028	0.00490	mg/L	0.000028	0.56%
QC value within limits for Be 313.107 Recovery = 98.06%								
Co 228.616†	2178.1	0.05056	mg/L	0.000349	0.05056	mg/L	0.000349	0.69%
QC value within limits for Co 228.616 Recovery = 101.12%								
Cr 267.716†	1432.1	0.01908	mg/L	0.000372	0.01908	mg/L	0.000372	1.95%
QC value within limits for Cr 267.716 Recovery = 95.40%								
Cu 324.752†	6221.0	0.02769	mg/L	0.000454	0.02769	mg/L	0.000454	1.64%
QC value within limits for Cu 324.752 Recovery = 92.31%								
Fe 273.955†	4675.6	0.18808	mg/L	0.001752	0.18808	mg/L	0.001752	0.93%
QC value within limits for Fe 273.955 Recovery = 94.04%								
Mg 279.077†	8988.5	0.50602	mg/L	0.002681	0.50602	mg/L	0.002681	0.53%
QC value within limits for Mg 279.077 Recovery = 101.20%								
Mn 257.610†	31211.8	0.05127	mg/L	0.000151	0.05127	mg/L	0.000151	0.30%
QC value within limits for Mn 257.610 Recovery = 102.55%								
Ni 231.604†	1761.5	0.05090	mg/L	0.000327	0.05090	mg/L	0.000327	0.64%
QC value within limits for Ni 231.604 Recovery = 101.81%								
Pb 220.353†	71.0	0.00982	mg/L	0.000815	0.00982	mg/L	0.000815	8.30%
QC value within limits for Pb 220.353 Recovery = 98.22%								
Sb 206.836†	37.8	0.01599	mg/L	0.003029	0.01599	mg/L	0.003029	18.94%
QC value within limits for Sb 206.836 Recovery = 79.97%								
Se 196.026†	32.2	0.02896	mg/L	0.001825	0.02896	mg/L	0.001825	6.30%
QC value within limits for Se 196.026 Recovery = 96.53%								
Tl 190.801†	40.4	0.02067	mg/L	0.003235	0.02067	mg/L	0.003235	15.65%
QC value within limits for Tl 190.801 Recovery = 103.37%								
V 292.402†	6212.1	0.04903	mg/L	0.000354	0.04903	mg/L	0.000354	0.72%
QC value within limits for V 292.402 Recovery = 98.07%								
Zn 206.200†	2070.2	0.04865	mg/L	0.000115	0.04865	mg/L	0.000115	0.24%
QC value within limits for Zn 206.200 Recovery = 97.31%								

```
Cd 226.502†              345.6     0.00510 mg/L      0.000061     0.00510 mg/L      0.000061   1.19%
   QC value within limits for Cd 226.502  Recovery = 102.08%
Ti 334.940†            10392.2     0.01856 mg/L      0.000043     0.01856 mg/L      0.000043   0.23%
   QC value within limits for Ti 334.940  Recovery = 92.82%
Ca 227.546†              173.2     0.70690 mg/L      0.034557     0.70690 mg/L      0.034557   4.89%
   QC value within limits for Ca 227.546  Recovery = 88.36%
Na 589.592              4365.8      1.0097 mg/L       0.00834      1.0097 mg/L       0.00834   0.83%
   QC value within limits for Na 589.592  Recovery = 100.97%
K 766.490               1118.0     0.93250 mg/L      0.046123     0.93250 mg/L      0.046123   4.95%
   QC value within limits for K 766.490  Recovery = 93.25%
All analyte(s) passed QC.
```

Sequence No.: 9 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 9/26/2012 8:11:32 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:37 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1805377.0	87.038	%	0.9380				1.08%
Lu 261.542	1279601.2	87.39	%	0.894				1.02%
Ag 328.068†	72.6	0.00041	mg/L	0.000429	0.00041	mg/L	0.000429	104.06%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	10637380.3	526.03	mg/L	3.178	526.03	mg/L	3.178	0.60%
QC value within limits for Al 308.215 Recovery = 105.21%								
As 188.979†	-44.6	-0.00277	mg/L	0.001981	-0.00277	mg/L	0.001981	71.59%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	18.1	0.00017	mg/L	0.000103	0.00017	mg/L	0.000103	62.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-281.7	-0.00013	mg/L	0.000015	-0.00013	mg/L	0.000015	10.98%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	164.2	-0.00059	mg/L	0.000194	-0.00059	mg/L	0.000194	32.63%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	218.2	0.00290	mg/L	0.000392	0.00290	mg/L	0.000392	13.52%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-3200.9	0.00271	mg/L	0.001007	0.00271	mg/L	0.001007	37.11%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	4569383.3	183.73	mg/L	0.287	183.73	mg/L	0.287	0.16%
QC value within limits for Fe 273.955 Recovery = 91.87%								
Mg 279.077†	8816643.2	496.39	mg/L	2.928	496.39	mg/L	2.928	0.59%
QC value within limits for Mg 279.077 Recovery = 99.28%								
Mn 257.610†	-552.2	-0.01084	mg/L	0.000022	-0.01084	mg/L	0.000022	0.20%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-33.6	-0.00308	mg/L	0.000304	-0.00308	mg/L	0.000304	9.87%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-296.2	-0.00260	mg/L	0.001427	-0.00260	mg/L	0.001427	54.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	124.8	-0.01446	mg/L	0.004908	-0.01446	mg/L	0.004908	33.94%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-93.1	0.00308	mg/L	0.004363	0.00308	mg/L	0.004363	141.45%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-77.5	0.00930	mg/L	0.004795	0.00930	mg/L	0.004795	51.54%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-1603.3	-0.00697	mg/L	0.000308	-0.00697	mg/L	0.000308	4.41%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-32.2	0.00843	mg/L	0.000282	0.00843	mg/L	0.000282	3.35%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	983.7	-0.00064	mg/L	0.000052	-0.00064	mg/L	0.000052	8.18%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	-6678.7	-0.01187	mg/L	0.000109	-0.01187	mg/L	0.000109	0.92%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	129854.0	541.68	mg/L	0.258	541.68	mg/L	0.258	0.05%
QC value within limits for Ca 227.546 Recovery = 108.34%								
Na 589.592	312.3	0.07224	mg/L	0.012745	0.07224	mg/L	0.012745	17.64%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	17.5	0.01460	mg/L	0.067997	0.01460	mg/L	0.067997	465.80%

QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 10 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 9/26/2012 8:15:18 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:38 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1799308.4	86.745	%	0.2908				0.34%
Lu 261.542	1276734.4	87.19	%	0.297				0.34%
Ag 328.068†	37324.3	0.22485	mg/L	0.000845	0.22485	mg/L	0.000845	0.38%
QC value within limits for Ag 328.068 Recovery = 112.43%								
Al 308.215†	10576281.2	523.01	mg/L	3.975	523.01	mg/L	3.975	0.76%
QC value within limits for Al 308.215 Recovery = 104.60%								
As 188.979†	118.2	0.09619	mg/L	0.002895	0.09619	mg/L	0.002895	3.01%
QC value within limits for As 188.979 Recovery = 96.19%								
Ba 233.527†	50564.5	0.51416	mg/L	0.000863	0.51416	mg/L	0.000863	0.17%
QC value within limits for Ba 233.527 Recovery = 102.83%								
Be 313.107†	1237212.6	0.49467	mg/L	0.000546	0.49467	mg/L	0.000546	0.11%
QC value within limits for Be 313.107 Recovery = 98.93%								
Co 228.616†	20180.1	0.46447	mg/L	0.001627	0.46447	mg/L	0.001627	0.35%
QC value within limits for Co 228.616 Recovery = 92.89%								
Cr 267.716†	36964.8	0.49239	mg/L	0.001086	0.49239	mg/L	0.001086	0.22%
QC value within limits for Cr 267.716 Recovery = 98.48%								
Cu 324.752†	114317.3	0.52521	mg/L	0.001525	0.52521	mg/L	0.001525	0.29%
QC value within limits for Cu 324.752 Recovery = 105.04%								
Fe 273.955†	4522591.0	181.85	mg/L	0.387	181.85	mg/L	0.387	0.21%
QC value within limits for Fe 273.955 Recovery = 90.93%								
Mg 279.077†	8732100.0	491.63	mg/L	4.214	491.63	mg/L	4.214	0.86%
QC value within limits for Mg 279.077 Recovery = 98.33%								
Mn 257.610†	301507.2	0.48555	mg/L	0.000749	0.48555	mg/L	0.000749	0.15%
QC value within limits for Mn 257.610 Recovery = 97.11%								
Ni 231.604†	31312.6	0.90309	mg/L	0.003815	0.90309	mg/L	0.003815	0.42%
QC value within limits for Ni 231.604 Recovery = 90.31%								
Pb 220.353†	3323.9	0.49629	mg/L	0.002892	0.49629	mg/L	0.002892	0.58%
QC value within limits for Pb 220.353 Recovery = 99.26%								
Sb 206.836†	1652.7	0.63704	mg/L	0.004129	0.63704	mg/L	0.004129	0.65%
QC value within limits for Sb 206.836 Recovery = 106.17%								
Se 196.026†	479.2	0.51507	mg/L	0.011136	0.51507	mg/L	0.011136	2.16%
QC value within limits for Se 196.026 Recovery = 103.01%								
Tl 190.801†	112.5	0.10345	mg/L	0.005364	0.10345	mg/L	0.005364	5.19%
QC value within limits for Tl 190.801 Recovery = 103.45%								
V 292.402†	61826.2	0.49444	mg/L	0.001498	0.49444	mg/L	0.001498	0.30%
QC value within limits for V 292.402 Recovery = 98.89%								
Zn 206.200†	39346.9	0.93298	mg/L	0.005325	0.93298	mg/L	0.005325	0.57%
QC value within limits for Zn 206.200 Recovery = 93.30%								
Cd 226.502†	64437.0	0.93747	mg/L	0.001494	0.93747	mg/L	0.001494	0.16%
QC value within limits for Cd 226.502 Recovery = 93.75%								
Ti 334.940†	-6439.1	-0.01155	mg/L	0.000230	-0.01155	mg/L	0.000230	1.99%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	128252.7	534.84	mg/L	1.051	534.84	mg/L	1.051	0.20%
QC value within limits for Ca 227.546 Recovery = 106.97%								
Na 589.592	110912.4	25.651	mg/L	0.4972	25.651	mg/L	0.4972	1.94%
QC value within limits for Na 589.592 Recovery = 102.61%								
K 766.490	31461.8	26.241	mg/L	0.5140	26.241	mg/L	0.5140	1.96%
QC value within limits for K 766.490 Recovery = 104.96%								

All analyte(s) passed QC.

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Sequence No.: 11 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 8:19:03 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:39 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	1990911.1	95.983	%	0.9529				0.99%
Lu 261.542	1420506.4	97.01	%	0.932				0.96%
Ag 328.068†	216295.2	1.3025	mg/L	0.00904	1.3025	mg/L	0.00904	0.69%
QC value within limits for Ag 328.068 Recovery = 104.20%								
Al 308.215†	202073.1	9.9855	mg/L	0.13971	9.9855	mg/L	0.13971	1.40%
QC value within limits for Al 308.215 Recovery = 99.86%								
As 188.979†	847.6	0.50402	mg/L	0.004289	0.50402	mg/L	0.004289	0.85%
QC value within limits for As 188.979 Recovery = 100.80%								
Ba 233.527†	1008016.3	10.240	mg/L	0.0108	10.240	mg/L	0.0108	0.11%
QC value within limits for Ba 233.527 Recovery = 102.40%								
Be 313.107†	621521.9	0.24948	mg/L	0.000404	0.24948	mg/L	0.000404	0.16%
QC value within limits for Be 313.107 Recovery = 99.79%								
Co 228.616†	111642.2	2.5929	mg/L	0.01946	2.5929	mg/L	0.01946	0.75%
QC value within limits for Co 228.616 Recovery = 103.72%								
Cr 267.716†	74586.7	0.99370	mg/L	0.005830	0.99370	mg/L	0.005830	0.59%
QC value within limits for Cr 267.716 Recovery = 99.37%								
Cu 324.752†	274600.4	1.2222	mg/L	0.00774	1.2222	mg/L	0.00774	0.63%
QC value within limits for Cu 324.752 Recovery = 97.78%								
Fe 273.955†	128096.1	5.1548	mg/L	0.06625	5.1548	mg/L	0.06625	1.29%
QC value within limits for Fe 273.955 Recovery = 103.10%								
Mg 279.077†	450978.4	25.388	mg/L	0.0835	25.388	mg/L	0.0835	0.33%
QC value within limits for Mg 279.077 Recovery = 101.55%								
Mn 257.610†	1547691.9	2.5425	mg/L	0.00279	2.5425	mg/L	0.00279	0.11%
QC value within limits for Mn 257.610 Recovery = 101.70%								
Ni 231.604†	88869.4	2.5686	mg/L	0.01919	2.5686	mg/L	0.01919	0.75%
QC value within limits for Ni 231.604 Recovery = 102.74%								
Pb 220.353†	3657.6	0.50599	mg/L	0.007057	0.50599	mg/L	0.007057	1.39%
QC value within limits for Pb 220.353 Recovery = 101.20%								
Sb 206.836†	1226.3	0.51277	mg/L	0.009344	0.51277	mg/L	0.009344	1.82%
QC value within limits for Sb 206.836 Recovery = 102.55%								
Se 196.026†	552.8	0.50026	mg/L	0.009265	0.50026	mg/L	0.009265	1.85%
QC value within limits for Se 196.026 Recovery = 100.05%								
Tl 190.801†	952.2	0.47412	mg/L	0.007178	0.47412	mg/L	0.007178	1.51%
QC value within limits for Tl 190.801 Recovery = 94.82%								
V 292.402†	318102.5	2.5115	mg/L	0.01742	2.5115	mg/L	0.01742	0.69%
QC value within limits for V 292.402 Recovery = 100.46%								
Zn 206.200†	109255.9	2.5665	mg/L	0.01620	2.5665	mg/L	0.01620	0.63%
QC value within limits for Zn 206.200 Recovery = 102.66%								
Cd 226.502†	17027.3	0.25184	mg/L	0.001412	0.25184	mg/L	0.001412	0.56%
QC value within limits for Cd 226.502 Recovery = 100.74%								
Ti 334.940†	273399.2	0.48819	mg/L	0.001937	0.48819	mg/L	0.001937	0.40%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	6041.4	24.395	mg/L	0.3378	24.395	mg/L	0.3378	1.38%
QC value within limits for Ca 227.546 Recovery = 97.58%								
Na 589.592	107470.6	24.855	mg/L	0.0461	24.855	mg/L	0.0461	0.19%
QC value within limits for Na 589.592 Recovery = 99.42%								
K 766.490	30186.9	25.178	mg/L	0.0384	25.178	mg/L	0.0384	0.15%
QC value within limits for K 766.490 Recovery = 100.71%								

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 8:22:45 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:39 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2060581.4	99.342	%	0.7903				0.80%
Lu 261.542	1458942.3	99.63	%	0.945				0.95%
Ag 328.068†	296.2	0.00178	mg/L	0.000612	0.00178	mg/L	0.000612	34.38%

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   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 308.215†            -252.6    -0.01250 mg/L      0.002228    -0.01250 mg/L      0.002228  17.82%
   QC value within limits for Al 308.215  Recovery = Not calculated
As 188.979†               7.0     0.00410 mg/L      0.001607     0.00410 mg/L      0.001607  39.15%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†             105.1     0.00107 mg/L      0.000371     0.00107 mg/L      0.000371  34.78%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 313.107†              70.7     0.00003 mg/L      0.000016     0.00003 mg/L      0.000016  56.14%
   QC value within limits for Be 313.107  Recovery = Not calculated
Co 228.616†              15.8     0.00037 mg/L      0.000118     0.00037 mg/L      0.000118  32.18%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              14.2     0.00019 mg/L      0.000361     0.00019 mg/L      0.000361 191.39%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -255.5    -0.00114 mg/L      0.000318    -0.00114 mg/L      0.000318  28.00%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 273.955†             106.8     0.00429 mg/L      0.001166     0.00429 mg/L      0.001166  27.16%
   QC value within limits for Fe 273.955  Recovery = Not calculated
Mg 279.077†             177.1     0.00997 mg/L      0.002890     0.00997 mg/L      0.002890  28.99%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             197.0     0.00032 mg/L      0.000125     0.00032 mg/L      0.000125  38.63%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†               4.1     0.00012 mg/L      0.000159     0.00012 mg/L      0.000159 134.70%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               5.4     0.00074 mg/L      0.000815     0.00074 mg/L      0.000815 110.03%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               3.0     0.00131 mg/L      0.001730     0.00131 mg/L      0.001730 131.61%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -0.4    -0.00033 mg/L      0.001892    -0.00033 mg/L      0.001892 577.56%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†              -0.9    -0.00046 mg/L      0.001273    -0.00046 mg/L      0.001273 279.31%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†               73.9     0.00058 mg/L      0.000111     0.00058 mg/L      0.000111  19.04%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†              68.8     0.00161 mg/L      0.000338     0.00161 mg/L      0.000338  20.94%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†              17.5     0.00026 mg/L      0.000025     0.00026 mg/L      0.000025   9.63%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              59.8     0.00011 mg/L      0.000041     0.00011 mg/L      0.000041  38.00%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†               8.8     0.03668 mg/L      0.043284     0.03668 mg/L      0.043284 118.00%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592               98.5     0.02279 mg/L      0.011311     0.02279 mg/L      0.011311  49.63%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490               290.1     0.24196 mg/L      0.050718     0.24196 mg/L      0.050718  20.96%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 13 **Autosampler Location: 38**
Sample ID: MB-68255~PBS **Date Collected: 9/26/2012 8:26:24 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:40 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-68255~PBS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2039254.0	98.313	%	0.5278				0.54%
Lu 261.542	1451220.4	99.11	%	0.638				0.64%
Ag 328.068†	437.6	0.00263	mg/L	0.000143	0.00263	mg/L	0.000143	5.46%
Al 308.215†	-350.5	-0.01735	mg/L	0.001310	-0.01735	mg/L	0.001310	7.55%
As 188.979†	4.9	0.00290	mg/L	0.001646	0.00290	mg/L	0.001646	56.79%
Ba 233.527†	98.8	0.00100	mg/L	0.000081	0.00100	mg/L	0.000081	8.10%
Be 313.107†	25.7	0.00001	mg/L	0.000018	0.00001	mg/L	0.000018	151.99%
Co 228.616†	2.6	0.00006	mg/L	0.000149	0.00006	mg/L	0.000149	255.75%
Cr 267.716†	31.9	0.00042	mg/L	0.000495	0.00042	mg/L	0.000495	116.58%
Cu 324.752†	763.2	0.00340	mg/L	0.000149	0.00340	mg/L	0.000149	4.39%
Fe 273.955†	451.9	0.01817	mg/L	0.000705	0.01817	mg/L	0.000705	3.88%
Mg 279.077†	32.0	0.00180	mg/L	0.004553	0.00180	mg/L	0.004553	252.57%

Mn 257.610†	860.0	0.00141	mg/L	0.000044	0.00141	mg/L	0.000044	3.12%
Ni 231.604†	12.5	0.00036	mg/L	0.000128	0.00036	mg/L	0.000128	35.62%
Pb 220.353†	38.9	0.00535	mg/L	0.001149	0.00535	mg/L	0.001149	21.45%
Sb 206.836†	13.4	0.00579	mg/L	0.001975	0.00579	mg/L	0.001975	34.13%
Se 196.026†	8.3	0.00740	mg/L	0.001813	0.00740	mg/L	0.001813	24.49%
Tl 190.801†	0.2	0.00009	mg/L	0.001923	0.00009	mg/L	0.001923	>999.9%
V 292.402†	50.5	0.00040	mg/L	0.000204	0.00040	mg/L	0.000204	51.20%
Zn 206.200†	591.1	0.01386	mg/L	0.000880	0.01386	mg/L	0.000880	6.35%
Cd 226.502†	-1.3	-0.00002	mg/L	0.000106	-0.00002	mg/L	0.000106	495.65%
Ti 334.940†	534.1	0.00096	mg/L	0.000068	0.00096	mg/L	0.000068	7.07%
Ca 227.546†	19.8	0.08258	mg/L	0.054795	0.08258	mg/L	0.054795	66.35%
Na 589.592	85.3	0.01973	mg/L	0.000523	0.01973	mg/L	0.000523	2.65%
K 766.490	102.0	0.08507	mg/L	0.083054	0.08507	mg/L	0.083054	97.63%

Sequence No.: 14 **Autosampler Location: 39**
Sample ID: LCS-68255~LCS **Date Collected: 9/26/2012 8:30:03 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:41 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-68255~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1946594.6	93.846	%	0.4503				0.48%
Lu 261.542	1385762.7	94.64	%	0.355				0.38%
Ag 328.068†	192386.3	1.1586	mg/L	0.01368	1.1586	mg/L	0.01368	1.18%
Al 308.215†	183084.2	9.0479	mg/L	0.10900	9.0479	mg/L	0.10900	1.20%
As 188.979†	785.0	0.46666	mg/L	0.003026	0.46666	mg/L	0.003026	0.65%
Ba 233.527†	915434.1	9.2992	mg/L	0.00745	9.2992	mg/L	0.00745	0.08%
Be 313.107†	575073.9	0.23000	mg/L	0.000143	0.23000	mg/L	0.000143	0.06%
Co 228.616†	99189.7	2.3047	mg/L	0.02543	2.3047	mg/L	0.02543	1.10%
Cr 267.716†	69017.3	0.91949	mg/L	0.011553	0.91949	mg/L	0.011553	1.26%
Cu 324.752†	253355.3	1.1276	mg/L	0.01515	1.1276	mg/L	0.01515	1.34%
Fe 273.955†	115769.1	4.6587	mg/L	0.05041	4.6587	mg/L	0.05041	1.08%
Mg 279.077†	405313.1	22.817	mg/L	0.0485	22.817	mg/L	0.0485	0.21%
Mn 257.610†	1419392.0	2.3317	mg/L	0.00367	2.3317	mg/L	0.00367	0.16%
Ni 231.604†	79770.6	2.3058	mg/L	0.02560	2.3058	mg/L	0.02560	1.11%
Pb 220.353†	3445.2	0.47610	mg/L	0.003279	0.47610	mg/L	0.003279	0.69%
Sb 206.836†	1185.9	0.49553	mg/L	0.003140	0.49553	mg/L	0.003140	0.63%
Se 196.026†	486.7	0.44034	mg/L	0.000690	0.44034	mg/L	0.000690	0.16%
Tl 190.801†	871.0	0.43402	mg/L	0.000180	0.43402	mg/L	0.000180	0.04%
V 292.402†	288983.1	2.2822	mg/L	0.02590	2.2822	mg/L	0.02590	1.14%
Zn 206.200†	96757.7	2.2727	mg/L	0.02511	2.2727	mg/L	0.02511	1.11%
Cd 226.502†	15768.7	0.23322	mg/L	0.003031	0.23322	mg/L	0.003031	1.30%
Ti 334.940†	570.0	0.00079	mg/L	0.000018	0.00079	mg/L	0.000018	2.34%
Ca 227.546†	5512.5	22.280	mg/L	0.1524	22.280	mg/L	0.1524	0.68%
Na 589.592	95235.4	22.026	mg/L	0.0831	22.026	mg/L	0.0831	0.38%
K 766.490	26646.6	22.225	mg/L	0.1242	22.225	mg/L	0.1242	0.56%

Sequence No.: 15 **Autosampler Location: 40**
Sample ID: L1942-01A~COMPOST PHASE **Date Collected: 9/26/2012 8:33:44 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:41 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1942-01A~COMPOST PHASE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2079733.4	100.26	%	0.266				0.27%
Lu 261.542	1383558.6	94.49	%	0.390				0.41%
Ag 328.068†	224.5	0.00058	mg/L	0.000487	0.00058	mg/L	0.000487	83.33%
Al 308.215†	633598.9	31.305	mg/L	0.0091	31.305	mg/L	0.0091	0.03%
As 188.979†	51.8	0.03900	mg/L	0.003225	0.03900	mg/L	0.003225	8.27%
Ba 233.527†	89082.2	0.90470	mg/L	0.008872	0.90470	mg/L	0.008872	0.98%
Be 313.107†	-8605.6	0.00123	mg/L	0.000053	0.00123	mg/L	0.000053	4.28%

Co 228.616†	1100.6	0.01799	mg/L	0.000260	0.01799	mg/L	0.000260	1.44%
Cr 267.716†	6974.4	0.09206	mg/L	0.000510	0.09206	mg/L	0.000510	0.55%
Cu 324.752†	72200.1	0.32768	mg/L	0.002782	0.32768	mg/L	0.002782	0.85%
Fe 273.955†	1788617.0	71.919	mg/L	0.0277	71.919	mg/L	0.0277	0.04%
Mg 279.077†	398219.6	22.420	mg/L	0.0103	22.420	mg/L	0.0103	0.05%
Mn 257.610†	2538532.8	4.1708	mg/L	0.00086	4.1708	mg/L	0.00086	0.02%
Ni 231.604†	1886.6	0.05295	mg/L	0.000948	0.05295	mg/L	0.000948	1.79%
Pb 220.353†	5619.5	0.77829	mg/L	0.004794	0.77829	mg/L	0.004794	0.62%
Sb 206.836†	19.7	0.00440	mg/L	0.003303	0.00440	mg/L	0.003303	75.05%
Se 196.026†	-29.2	0.01007	mg/L	0.007589	0.01007	mg/L	0.007589	75.37%
Tl 190.801†	-7.5	0.00758	mg/L	0.002676	0.00758	mg/L	0.002676	35.29%
V 292.402†	8238.5	0.06379	mg/L	0.001138	0.06379	mg/L	0.001138	1.78%
Zn 206.200†	76273.8	1.7955	mg/L	0.01875	1.7955	mg/L	0.01875	1.04%
Cd 226.502†	707.8	0.00471	mg/L	0.000177	0.00471	mg/L	0.000177	3.76%
Ti 334.940†	1419472.0	2.5380	mg/L	0.00667	2.5380	mg/L	0.00667	0.26%
Ca 227.546†	34526.8	144.00	mg/L	1.157	144.00	mg/L	1.157	0.80%
Na 589.592	13163.4	3.0444	mg/L	0.02486	3.0444	mg/L	0.02486	0.82%
K 766.490	42277.2	35.262	mg/L	0.3141	35.262	mg/L	0.3141	0.89%

Sequence No.: 16 **Autosampler Location: 41**
Sample ID: L1942-01ASD~COMPOST PHASE **Date Collected: 9/26/2012 8:37:25 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:42 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1942-01ASD~COMPOST PHASE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	2074002.1	99.989	%	1.3118				1.31%
Lu 261.542	1450554.1	99.06	%	1.327				1.34%
Ag 328.068†	224.4	0.00119	mg/L	0.000513	0.00119	mg/L	0.000513	43.24%
Al 308.215†	125435.6	6.1976	mg/L	0.07965	6.1976	mg/L	0.07965	1.29%
As 188.979†	16.7	0.01155	mg/L	0.002937	0.01155	mg/L	0.002937	25.44%
Ba 233.527†	18247.8	0.18532	mg/L	0.002138	0.18532	mg/L	0.002138	1.15%
Be 313.107†	-1758.1	0.00025	mg/L	0.000028	0.00025	mg/L	0.000028	11.07%
Co 228.616†	225.8	0.00370	mg/L	0.000156	0.00370	mg/L	0.000156	4.23%
Cr 267.716†	1390.4	0.01835	mg/L	0.000266	0.01835	mg/L	0.000266	1.45%
Cu 324.752†	14086.5	0.06400	mg/L	0.000991	0.06400	mg/L	0.000991	1.55%
Fe 273.955†	368412.0	14.814	mg/L	0.1953	14.814	mg/L	0.1953	1.32%
Mg 279.077†	83029.4	4.6746	mg/L	0.05996	4.6746	mg/L	0.05996	1.28%
Mn 257.610†	526927.0	0.86573	mg/L	0.001704	0.86573	mg/L	0.001704	0.20%
Ni 231.604†	379.4	0.01065	mg/L	0.000056	0.01065	mg/L	0.000056	0.52%
Pb 220.353†	1170.8	0.16212	mg/L	0.002840	0.16212	mg/L	0.002840	1.75%
Sb 206.836†	-0.4	-0.00100	mg/L	0.002905	-0.00100	mg/L	0.002905	290.83%
Se 196.026†	-4.5	0.00340	mg/L	0.002142	0.00340	mg/L	0.002142	62.99%
Tl 190.801†	-2.3	0.00120	mg/L	0.002110	0.00120	mg/L	0.002110	176.41%
V 292.402†	1633.5	0.01265	mg/L	0.000412	0.01265	mg/L	0.000412	3.26%
Zn 206.200†	15950.5	0.37545	mg/L	0.005027	0.37545	mg/L	0.005027	1.34%
Cd 226.502†	155.2	0.00111	mg/L	0.000151	0.00111	mg/L	0.000151	13.56%
Ti 334.940†	289189.4	0.51704	mg/L	0.001824	0.51704	mg/L	0.001824	0.35%
Ca 227.546†	6772.4	28.243	mg/L	0.3597	28.243	mg/L	0.3597	1.27%
Na 589.592	2784.2	0.64392	mg/L	0.029760	0.64392	mg/L	0.029760	4.62%
K 766.490	8825.6	7.3611	mg/L	0.06008	7.3611	mg/L	0.06008	0.82%

Sequence No.: 17 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 8:41:05 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:43 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.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1999249.4	96.385	%	0.4940				0.51%
Lu 261.542	1423665.7	97.23	%	0.491				0.51%

Ag 328.068†	212326.5	1.2786	mg/L	0.02273	1.2786	mg/L	0.02273	1.78%
QC value within limits for Ag 328.068 Recovery = 102.29%								
Al 308.215†	197668.2	9.7677	mg/L	0.18061	9.7677	mg/L	0.18061	1.85%
QC value within limits for Al 308.215 Recovery = 97.68%								
As 188.979†	822.7	0.48924	mg/L	0.002548	0.48924	mg/L	0.002548	0.52%
QC value within limits for As 188.979 Recovery = 97.85%								
Ba 233.527†	1000825.6	10.167	mg/L	0.0172	10.167	mg/L	0.0172	0.17%
QC value within limits for Ba 233.527 Recovery = 101.67%								
Be 313.107†	618152.0	0.24812	mg/L	0.000367	0.24812	mg/L	0.000367	0.15%
QC value within limits for Be 313.107 Recovery = 99.25%								
Co 228.616†	110218.4	2.5598	mg/L	0.04911	2.5598	mg/L	0.04911	1.92%
QC value within limits for Co 228.616 Recovery = 102.39%								
Cr 267.716†	72890.1	0.97109	mg/L	0.018105	0.97109	mg/L	0.018105	1.86%
QC value within limits for Cr 267.716 Recovery = 97.11%								
Cu 324.752†	269919.0	1.2014	mg/L	0.02287	1.2014	mg/L	0.02287	1.90%
QC value within limits for Cu 324.752 Recovery = 96.11%								
Fe 273.955†	124499.5	5.0101	mg/L	0.09542	5.0101	mg/L	0.09542	1.90%
QC value within limits for Fe 273.955 Recovery = 100.20%								
Mg 279.077†	446181.3	25.118	mg/L	0.0392	25.118	mg/L	0.0392	0.16%
QC value within limits for Mg 279.077 Recovery = 100.47%								
Mn 257.610†	1546801.6	2.5410	mg/L	0.00190	2.5410	mg/L	0.00190	0.07%
QC value within limits for Mn 257.610 Recovery = 101.64%								
Ni 231.604†	87115.9	2.5179	mg/L	0.04609	2.5179	mg/L	0.04609	1.83%
QC value within limits for Ni 231.604 Recovery = 100.71%								
Pb 220.353†	3576.4	0.49477	mg/L	0.002233	0.49477	mg/L	0.002233	0.45%
QC value within limits for Pb 220.353 Recovery = 98.95%								
Sb 206.836†	1216.2	0.50880	mg/L	0.003181	0.50880	mg/L	0.003181	0.63%
QC value within limits for Sb 206.836 Recovery = 101.76%								
Se 196.026†	533.0	0.48242	mg/L	0.003577	0.48242	mg/L	0.003577	0.74%
QC value within limits for Se 196.026 Recovery = 96.48%								
Tl 190.801†	959.8	0.47853	mg/L	0.002075	0.47853	mg/L	0.002075	0.43%
QC value within limits for Tl 190.801 Recovery = 95.71%								
V 292.402†	311500.0	2.4593	mg/L	0.04594	2.4593	mg/L	0.04594	1.87%
QC value within limits for V 292.402 Recovery = 98.37%								
Zn 206.200†	107215.7	2.5186	mg/L	0.04644	2.5186	mg/L	0.04644	1.84%
QC value within limits for Zn 206.200 Recovery = 100.74%								
Cd 226.502†	16723.6	0.24735	mg/L	0.005359	0.24735	mg/L	0.005359	2.17%
QC value within limits for Cd 226.502 Recovery = 98.94%								
Ti 334.940†	271672.5	0.48511	mg/L	0.001849	0.48511	mg/L	0.001849	0.38%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5965.7	24.091	mg/L	0.0362	24.091	mg/L	0.0362	0.15%
QC value within limits for Ca 227.546 Recovery = 96.36%								
Na 589.592	105814.6	24.472	mg/L	0.1391	24.472	mg/L	0.1391	0.57%
QC value within limits for Na 589.592 Recovery = 97.89%								
K 766.490	29855.2	24.901	mg/L	0.1167	24.901	mg/L	0.1167	0.47%
QC value within limits for K 766.490 Recovery = 99.60%								

All analyte(s) passed QC.

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Sequence No.: 18 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 8:44:47 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:44 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2076493.8	100.11	%	0.940				0.94%
Lu 261.542	1471838.6	100.5	%	1.05				1.04%
Ag 328.068†	281.9	0.00169	mg/L	0.000720	0.00169	mg/L	0.000720	42.49%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-447.6	-0.02213	mg/L	0.001103	-0.02213	mg/L	0.001103	4.98%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	7.3	0.00424	mg/L	0.000581	0.00424	mg/L	0.000581	13.69%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	162.2	0.00165	mg/L	0.000317	0.00165	mg/L	0.000317	19.25%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	96.3	0.00004	mg/L	0.000006	0.00004	mg/L	0.000006	16.38%

QC value within limits for Be 313.107 Recovery = Not calculated
Co 228.616† 23.0 0.00053 mg/L 0.000170 0.00053 mg/L 0.000170 31.97%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 15.0 0.00020 mg/L 0.000057 0.00020 mg/L 0.000057 28.45%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† -219.1 -0.00097 mg/L 0.000401 -0.00097 mg/L 0.000401 41.15%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 273.955† -43.7 -0.00176 mg/L 0.000308 -0.00176 mg/L 0.000308 17.52%
QC value within limits for Fe 273.955 Recovery = Not calculated
Mg 279.077† 72.9 0.00410 mg/L 0.004700 0.00410 mg/L 0.004700 114.58%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† 269.2 0.00044 mg/L 0.000152 0.00044 mg/L 0.000152 34.31%
QC value within limits for Mn 257.610 Recovery = Not calculated
Ni 231.604† 5.7 0.00017 mg/L 0.000036 0.00017 mg/L 0.000036 21.48%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† -5.1 -0.00070 mg/L 0.001087 -0.00070 mg/L 0.001087 155.01%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 10.8 0.00467 mg/L 0.001778 0.00467 mg/L 0.001778 38.08%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 3.5 0.00314 mg/L 0.001731 0.00314 mg/L 0.001731 55.07%
QC value within limits for Se 196.026 Recovery = Not calculated
Tl 190.801† 3.2 0.00169 mg/L 0.000839 0.00169 mg/L 0.000839 49.76%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 114.8 0.00091 mg/L 0.000462 0.00091 mg/L 0.000462 50.98%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 206.200† -20.5 -0.00048 mg/L 0.000228 -0.00048 mg/L 0.000228 47.66%
QC value within limits for Zn 206.200 Recovery = Not calculated
Cd 226.502† 16.9 0.00025 mg/L 0.000070 0.00025 mg/L 0.000070 27.98%
QC value within limits for Cd 226.502 Recovery = Not calculated
Ti 334.940† 157.8 0.00028 mg/L 0.000061 0.00028 mg/L 0.000061 21.80%
QC value within limits for Ti 334.940 Recovery = Not calculated
Ca 227.546† -10.5 -0.04405 mg/L 0.027785 -0.04405 mg/L 0.027785 63.08%
QC value within limits for Ca 227.546 Recovery = Not calculated
Na 589.592 -28.9 -0.00668 mg/L 0.011323 -0.00668 mg/L 0.011323 169.41%
QC value within limits for Na 589.592 Recovery = Not calculated
K 766.490 92.3 0.07695 mg/L 0.050768 0.07695 mg/L 0.050768 65.97%
QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 19 **Autosampler Location: 42**
Sample ID: MB-68291~PBS **Date Collected: 9/26/2012 8:48:26 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:44 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-68291~PBS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2061556.6	99.389	%	0.8159				0.82%
Lu 261.542	1474542.0	100.7	%	0.86				0.85%
Ag 328.068†	345.9	0.00208	mg/L	0.000243	0.00208	mg/L	0.000243	11.73%
Al 308.215†	-281.3	-0.01393	mg/L	0.004460	-0.01393	mg/L	0.004460	32.03%
As 188.979†	3.8	0.00224	mg/L	0.002987	0.00224	mg/L	0.002987	133.40%
Ba 233.527†	88.9	0.00090	mg/L	0.000028	0.00090	mg/L	0.000028	3.15%
Be 313.107†	-42.0	-0.00002	mg/L	0.000019	-0.00002	mg/L	0.000019	118.96%
Co 228.616†	9.0	0.00021	mg/L	0.000053	0.00021	mg/L	0.000053	25.60%
Cr 267.716†	25.4	0.00034	mg/L	0.000191	0.00034	mg/L	0.000191	56.55%
Cu 324.752†	572.9	0.00255	mg/L	0.000191	0.00255	mg/L	0.000191	7.48%
Fe 273.955†	1228.7	0.04940	mg/L	0.001748	0.04940	mg/L	0.001748	3.54%
Mg 279.077†	45.6	0.00257	mg/L	0.003633	0.00257	mg/L	0.003633	141.42%
Mn 257.610†	1034.9	0.00170	mg/L	0.000053	0.00170	mg/L	0.000053	3.13%
Ni 231.604†	1.5	0.00004	mg/L	0.000153	0.00004	mg/L	0.000153	343.41%
Pb 220.353†	7.9	0.00109	mg/L	0.000734	0.00109	mg/L	0.000734	67.54%
Sb 206.836†	10.0	0.00431	mg/L	0.002358	0.00431	mg/L	0.002358	54.65%
Se 196.026†	4.6	0.00411	mg/L	0.003797	0.00411	mg/L	0.003797	92.48%
Tl 190.801†	-4.2	-0.00217	mg/L	0.001734	-0.00217	mg/L	0.001734	80.02%
V 292.402†	48.5	0.00038	mg/L	0.000321	0.00038	mg/L	0.000321	83.72%
Zn 206.200†	392.2	0.00920	mg/L	0.000493	0.00920	mg/L	0.000493	5.36%

Cd 226.502†	-2.1	-0.00004	mg/L	0.000155	-0.00004	mg/L	0.000155	442.98%
Ti 334.940†	260.8	0.00047	mg/L	0.000096	0.00047	mg/L	0.000096	20.50%
Ca 227.546†	15.6	0.06506	mg/L	0.085989	0.06506	mg/L	0.085989	132.17%
Na 589.592	59.4	0.01373	mg/L	0.008361	0.01373	mg/L	0.008361	60.91%
K 766.490	135.6	0.11306	mg/L	0.048039	0.11306	mg/L	0.048039	42.49%

Sequence No.: 20 **Autosampler Location: 43**
Sample ID: LCS-68291~LCS **Date Collected: 9/26/2012 8:52:05 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:45 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-68291~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1996882.9	96.271	%	0.9166				0.95%
Lu 261.542	1425017.6	97.32	%	0.910				0.93%
Ag 328.068†	190363.5	1.1464	mg/L	0.01523	1.1464	mg/L	0.01523	1.33%
Al 308.215†	181053.3	8.9474	mg/L	0.12687	8.9474	mg/L	0.12687	1.42%
As 188.979†	780.5	0.46394	mg/L	0.004953	0.46394	mg/L	0.004953	1.07%
Ba 233.527†	914661.4	9.2914	mg/L	0.01128	9.2914	mg/L	0.01128	0.12%
Be 313.107†	575240.1	0.23007	mg/L	0.000229	0.23007	mg/L	0.000229	0.10%
Co 228.616†	98587.1	2.2907	mg/L	0.03391	2.2907	mg/L	0.03391	1.48%
Cr 267.716†	68421.1	0.91154	mg/L	0.013403	0.91154	mg/L	0.013403	1.47%
Cu 324.752†	249128.7	1.1088	mg/L	0.01529	1.1088	mg/L	0.01529	1.38%
Fe 273.955†	116092.6	4.6717	mg/L	0.06992	4.6717	mg/L	0.06992	1.50%
Mg 279.077†	406285.5	22.872	mg/L	0.0293	22.872	mg/L	0.0293	0.13%
Mn 257.610†	1422456.3	2.3368	mg/L	0.00348	2.3368	mg/L	0.00348	0.15%
Ni 231.604†	79212.1	2.2897	mg/L	0.03463	2.2897	mg/L	0.03463	1.51%
Pb 220.353†	3383.1	0.46752	mg/L	0.007257	0.46752	mg/L	0.007257	1.55%
Sb 206.836†	1156.1	0.48279	mg/L	0.009095	0.48279	mg/L	0.009095	1.88%
Se 196.026†	473.7	0.42866	mg/L	0.007870	0.42866	mg/L	0.007870	1.84%
Tl 190.801†	861.7	0.42933	mg/L	0.007354	0.42933	mg/L	0.007354	1.71%
V 292.402†	286607.9	2.2635	mg/L	0.03031	2.2635	mg/L	0.03031	1.34%
Zn 206.200†	95669.7	2.2471	mg/L	0.03455	2.2471	mg/L	0.03455	1.54%
Cd 226.502†	15582.3	0.23046	mg/L	0.004677	0.23046	mg/L	0.004677	2.03%
Ti 334.940†	720.3	0.00105	mg/L	0.000069	0.00105	mg/L	0.000069	6.58%
Ca 227.546†	5463.1	22.078	mg/L	0.2405	22.078	mg/L	0.2405	1.09%
Na 589.592	99100.8	22.920	mg/L	0.3828	22.920	mg/L	0.3828	1.67%
K 766.490	27508.0	22.943	mg/L	0.3863	22.943	mg/L	0.3863	1.68%

Sequence No.: 21 **Autosampler Location: 44**
Sample ID: L1993-01A~TS-5 **Date Collected: 9/26/2012 8:55:46 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:46 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1993-01A~TS-5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1967733.7	94.865	%	0.5450				0.57%
Lu 261.542	1327341.6	90.65	%	0.600				0.66%
Ag 328.068†	83.4	-0.00058	mg/L	0.000567	-0.00058	mg/L	0.000567	97.88%
Al 308.215†	3997695.7	197.64	mg/L	0.113	197.64	mg/L	0.113	0.06%
As 188.979†	209.6	0.15895	mg/L	0.001642	0.15895	mg/L	0.001642	1.03%
Ba 233.527†	160570.0	1.6311	mg/L	0.01543	1.6311	mg/L	0.01543	0.95%
Be 313.107†	17373.0	0.00921	mg/L	0.000087	0.00921	mg/L	0.000087	0.94%
Co 228.616†	6360.6	0.13703	mg/L	0.000503	0.13703	mg/L	0.000503	0.37%
Cr 267.716†	23139.4	0.30659	mg/L	0.001327	0.30659	mg/L	0.001327	0.43%
Cu 324.752†	106806.6	0.50520	mg/L	0.005817	0.50520	mg/L	0.005817	1.15%
Fe 273.955†	8147649.8	327.61	mg/L	0.379	327.61	mg/L	0.379	0.12%
Mg 279.077†	1695481.7	95.457	mg/L	0.1080	95.457	mg/L	0.1080	0.11%
Mn 257.610†	5147957.1	8.4570	mg/L	0.00918	8.4570	mg/L	0.00918	0.11%
Ni 231.604†	12036.9	0.34686	mg/L	0.002011	0.34686	mg/L	0.002011	0.58%
Pb 220.353†	5577.9	0.77950	mg/L	0.002538	0.77950	mg/L	0.002538	0.33%

Sb 206.836†	95.7	-0.00193	mg/L	0.002926	-0.00193	mg/L	0.002926	151.28%
Se 196.026†	-151.1	0.02486	mg/L	0.006270	0.02486	mg/L	0.006270	25.22%
Tl 190.801†	-75.5	0.00792	mg/L	0.000485	0.00792	mg/L	0.000485	6.12%
V 292.402†	47746.9	0.38569	mg/L	0.003738	0.38569	mg/L	0.003738	0.97%
Zn 206.200†	85580.6	2.0276	mg/L	0.02002	2.0276	mg/L	0.02002	0.99%
Cd 226.502†	2419.1	0.01003	mg/L	0.000241	0.01003	mg/L	0.000241	2.40%
Ti 334.940†	684510.3	1.2293	mg/L	0.00285	1.2293	mg/L	0.00285	0.23%
Ca 227.546†	116183.6	484.42	mg/L	4.954	484.42	mg/L	4.954	1.02%
Na 589.592	26635.5	6.1601	mg/L	0.04329	6.1601	mg/L	0.04329	0.70%
K 766.490	33221.9	27.709	mg/L	0.2353	27.709	mg/L	0.2353	0.85%

Sequence No.: 22 **Autosampler Location: 45**
Sample ID: L1993-02A~TS-6 **Date Collected: 9/26/2012 8:59:30 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:47 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1993-02A~TS-6

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1966167.7	94.790	%	0.1299				0.14%
Lu 261.542	1320044.8	90.15	%	0.118				0.13%
Ag 328.068†	9.0	-0.00164	mg/L	0.000487	-0.00164	mg/L	0.000487	29.59%
Al 308.215†	4828776.8	238.74	mg/L	0.476	238.74	mg/L	0.476	0.20%
As 188.979†	234.9	0.17681	mg/L	0.004110	0.17681	mg/L	0.004110	2.32%
Ba 233.527†	192441.8	1.9548	mg/L	0.00428	1.9548	mg/L	0.00428	0.22%
Be 313.107†	22372.3	0.01127	mg/L	0.000029	0.01127	mg/L	0.000029	0.26%
Co 228.616†	7153.8	0.15454	mg/L	0.000466	0.15454	mg/L	0.000466	0.30%
Cr 267.716†	26015.5	0.34422	mg/L	0.000601	0.34422	mg/L	0.000601	0.17%
Cu 324.752†	125853.2	0.59314	mg/L	0.002176	0.59314	mg/L	0.002176	0.37%
Fe 273.955†	9021373.7	362.74	mg/L	0.787	362.74	mg/L	0.787	0.22%
Mg 279.077†	1650522.8	92.926	mg/L	0.2329	92.926	mg/L	0.2329	0.25%
Mn 257.610†	7198548.1	11.826	mg/L	0.0327	11.826	mg/L	0.0327	0.28%
Ni 231.604†	13368.8	0.38535	mg/L	0.001852	0.38535	mg/L	0.001852	0.48%
Pb 220.353†	5977.6	0.83736	mg/L	0.002927	0.83736	mg/L	0.002927	0.35%
Sb 206.836†	115.9	0.00077	mg/L	0.001469	0.00077	mg/L	0.001469	190.26%
Se 196.026†	-155.7	0.03806	mg/L	0.004875	0.03806	mg/L	0.004875	12.81%
Tl 190.801†	-70.9	0.01610	mg/L	0.002450	0.01610	mg/L	0.002450	15.22%
V 292.402†	54240.9	0.43803	mg/L	0.001407	0.43803	mg/L	0.001407	0.32%
Zn 206.200†	93191.8	2.2093	mg/L	0.00331	2.2093	mg/L	0.00331	0.15%
Cd 226.502†	2714.7	0.01169	mg/L	0.000216	0.01169	mg/L	0.000216	1.85%
Ti 334.940†	703627.3	1.2640	mg/L	0.00364	1.2640	mg/L	0.00364	0.29%
Ca 227.546†	123121.8	513.31	mg/L	1.320	513.31	mg/L	1.320	0.26%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592	28700.3	6.6377	mg/L	0.09592	6.6377	mg/L	0.09592	1.45%
K 766.490	37759.0	31.493	mg/L	0.3265	31.493	mg/L	0.3265	1.04%

Sequence No.: 23 **Autosampler Location: 46**
Sample ID: L1956-01A~SS-14 **Date Collected: 9/26/2012 9:03:15 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:47 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-01A~SS-14

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2055769.1	99.110	%	0.9460				0.95%
Lu 261.542	1352192.0	92.34	%	0.360				0.39%
Ag 328.068†	-1580.2	-0.01145	mg/L	0.000592	-0.01145	mg/L	0.000592	5.17%
Al 308.215†	2077711.0	102.73	mg/L	0.774	102.73	mg/L	0.774	0.75%
As 188.979†	34.8	0.16186	mg/L	0.002494	0.16186	mg/L	0.002494	1.54%
Ba 233.527†	419694.2	4.2628	mg/L	0.03008	4.2628	mg/L	0.03008	0.71%
Be 313.107†	-20144.8	0.00157	mg/L	0.000020	0.00157	mg/L	0.000020	1.27%
Co 228.616†	18938.4	0.39100	mg/L	0.002798	0.39100	mg/L	0.002798	0.72%
Cr 267.716†	46778.2	0.62019	mg/L	0.003886	0.62019	mg/L	0.003886	0.63%

Cu 324.752†	503007.5	2.3781	mg/L	0.01315	2.3781	mg/L	0.01315	0.55%
Fe 273.955†	38104380.0	1532.1	mg/L	4.61	1532.1	mg/L	4.61	0.30%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	834440.8	46.979	mg/L	0.3760	46.979	mg/L	0.3760	0.80%
Mn 257.610†	9115350.1	14.977	mg/L	0.0211	14.977	mg/L	0.0211	0.14%
Ni 231.604†	24516.9	0.70556	mg/L	0.008547	0.70556	mg/L	0.008547	1.21%
Pb 220.353†	111142.1	15.302	mg/L	0.1308	15.302	mg/L	0.1308	0.86%
Sb 206.836†	293.7	0.03378	mg/L	0.003146	0.03378	mg/L	0.003146	9.31%
Se 196.026†	-930.1	-0.06241	mg/L	0.014273	-0.06241	mg/L	0.014273	22.87%
Tl 190.801†	-536.2	-0.06878	mg/L	0.002108	-0.06878	mg/L	0.002108	3.06%
V 292.402†	80957.3	0.67941	mg/L	0.003828	0.67941	mg/L	0.003828	0.56%
Zn 206.200†	830417.2	19.553	mg/L	0.1618	19.553	mg/L	0.1618	0.83%
Cd 226.502†	13039.3	0.07795	mg/L	0.001980	0.07795	mg/L	0.001980	2.54%
Ti 334.940†	2920146.2	5.2169	mg/L	0.03182	5.2169	mg/L	0.03182	0.61%
Ca 227.546†	10768.8	41.632	mg/L	0.7042	41.632	mg/L	0.7042	1.69%
Na 589.592	14763.3	3.4144	mg/L	0.02118	3.4144	mg/L	0.02118	0.62%
K 766.490	18721.9	15.615	mg/L	0.1575	15.615	mg/L	0.1575	1.01%

Sequence No.: 24 **Autosampler Location: 47**
Sample ID: L1956-02A~SS-15 **Date Collected: 9/26/2012 9:07:28 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:48 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-02A~SS-15

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2168451.6	104.54	%	0.416				0.40%
Lu 261.542	1347645.0	92.03	%	0.278				0.30%
Ag 328.068†	52.2	-0.00160	mg/L	0.001050	-0.00160	mg/L	0.001050	65.62%
Al 308.215†	2591113.5	128.10	mg/L	0.538	128.10	mg/L	0.538	0.42%
As 188.979†	74.3	0.10105	mg/L	0.006284	0.10105	mg/L	0.006284	6.22%
Ba 233.527†	240505.0	2.4432	mg/L	0.01135	2.4432	mg/L	0.01135	0.46%
Be 313.107†	-90983.8	-0.00938	mg/L	0.000075	-0.00938	mg/L	0.000075	0.80%
Co 228.616†	36567.6	0.80134	mg/L	0.004076	0.80134	mg/L	0.004076	0.51%
Cr 267.716†	20597.1	0.27154	mg/L	0.001676	0.27154	mg/L	0.001676	0.62%
Cu 324.752†	458974.6	2.0968	mg/L	0.00809	2.0968	mg/L	0.00809	0.39%
Fe 273.955†	15043266.9	604.88	mg/L	0.867	604.88	mg/L	0.867	0.14%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	2530767.1	142.49	mg/L	0.741	142.49	mg/L	0.741	0.52%
Mn 257.610†	8914696.4	14.645	mg/L	0.0183	14.645	mg/L	0.0183	0.12%
Ni 231.604†	25643.3	0.73210	mg/L	0.004378	0.73210	mg/L	0.004378	0.60%
Pb 220.353†	1934.1	0.27915	mg/L	0.003083	0.27915	mg/L	0.003083	1.10%
Sb 206.836†	24.9	-0.00684	mg/L	0.001147	-0.00684	mg/L	0.001147	16.77%
Se 196.026†	-303.3	0.04065	mg/L	0.006832	0.04065	mg/L	0.006832	16.81%
Tl 190.801†	-91.6	0.04315	mg/L	0.002707	0.04315	mg/L	0.002707	6.27%
V 292.402†	79865.8	0.62835	mg/L	0.002889	0.62835	mg/L	0.002889	0.46%
Zn 206.200†	101159.2	2.4216	mg/L	0.01965	2.4216	mg/L	0.01965	0.81%
Cd 226.502†	3773.6	0.01047	mg/L	0.000534	0.01047	mg/L	0.000534	5.10%
Ti 334.940†	8198924.1	14.646	mg/L	0.0622	14.646	mg/L	0.0622	0.42%
Ca 227.546†	15584.0	63.374	mg/L	0.2817	63.374	mg/L	0.2817	0.44%
Na 589.592	6483.9	1.4996	mg/L	0.02614	1.4996	mg/L	0.02614	1.74%
K 766.490	59908.9	49.967	mg/L	0.4877	49.967	mg/L	0.4877	0.98%

Sequence No.: 25 **Autosampler Location: 48**
Sample ID: L1956-03A~SS-16 **Date Collected: 9/26/2012 9:11:18 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:49 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-03A~SS-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2019693.7	97.370	%	1.2931				1.33%
Lu 261.542	1363227.8	93.10	%	0.180				0.19%

Ag 328.068†	274.3	0.00115	mg/L	0.000722	0.00115	mg/L	0.000722	62.91%
Al 308.215†	3345650.1	165.46	mg/L	1.873	165.46	mg/L	1.873	1.13%
As 188.979†	-112.9	0.03693	mg/L	0.001622	0.03693	mg/L	0.001622	4.39%
Ba 233.527†	344110.5	3.4955	mg/L	0.05934	3.4955	mg/L	0.05934	1.70%
Be 313.107†	-9999.1	0.00051	mg/L	0.000108	0.00051	mg/L	0.000108	21.25%
Co 228.616†	25714.6	0.56426	mg/L	0.000259	0.56426	mg/L	0.000259	0.05%
Cr 267.716†	16347.6	0.21607	mg/L	0.000476	0.21607	mg/L	0.000476	0.22%
Cu 324.752†	656851.0	3.0265	mg/L	0.03896	3.0265	mg/L	0.03896	1.29%
Fe 273.955†	28495287.8	1145.8	mg/L	1.12	1145.8	mg/L	1.12	0.10%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	977122.1	55.013	mg/L	0.6473	55.013	mg/L	0.6473	1.18%
Mn 257.610†	5685668.6	9.3413	mg/L	0.10051	9.3413	mg/L	0.10051	1.08%
Ni 231.604†	16136.9	0.46488	mg/L	0.000419	0.46488	mg/L	0.000419	0.09%
Pb 220.353†	751.0	0.09494	mg/L	0.001437	0.09494	mg/L	0.001437	1.51%
Sb 206.836†	190.9	0.00688	mg/L	0.003881	0.00688	mg/L	0.003881	56.41%
Se 196.026†	-618.1	0.02272	mg/L	0.008995	0.02272	mg/L	0.008995	39.59%
Tl 190.801†	-353.0	-0.02737	mg/L	0.003593	-0.02737	mg/L	0.003593	13.13%
V 292.402†	98875.2	0.81165	mg/L	0.010523	0.81165	mg/L	0.010523	1.30%
Zn 206.200†	53759.7	1.3250	mg/L	0.02395	1.3250	mg/L	0.02395	1.81%
Cd 226.502†	7476.7	0.02481	mg/L	0.002727	0.02481	mg/L	0.002727	10.99%
Ti 334.940†	1361796.6	2.4316	mg/L	0.03400	2.4316	mg/L	0.03400	1.40%
Ca 227.546†	-4475.8	-21.264	mg/L	0.0322	-21.264	mg/L	0.0322	0.15%
Na 589.592	564.4	0.13053	mg/L	0.005554	0.13053	mg/L	0.005554	4.25%
K 766.490	14969.8	12.486	mg/L	0.0464	12.486	mg/L	0.0464	0.37%

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Sequence No.: 26 **Autosampler Location: 49**
Sample ID: L1956-04A~SS-17 **Date Collected: 9/26/2012 9:15:32 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:49 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-04A~SS-17

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2167654.5	104.50	%	0.898				0.86%
Lu 261.542	1343590.7	91.76	%	0.810				0.88%
Ag 328.068†	3381.9	0.02060	mg/L	0.000366	0.02060	mg/L	0.000366	1.78%
Al 308.215†	2228579.4	110.20	mg/L	0.515	110.20	mg/L	0.515	0.47%
As 188.979†	24.3	0.11280	mg/L	0.002764	0.11280	mg/L	0.002764	2.45%
Ba 233.527†	404696.6	4.1110	mg/L	0.02955	4.1110	mg/L	0.02955	0.72%
Be 313.107†	-28811.7	-0.00226	mg/L	0.000057	-0.00226	mg/L	0.000057	2.53%
Co 228.616†	16821.3	0.35331	mg/L	0.002117	0.35331	mg/L	0.002117	0.60%
Cr 267.716†	16373.1	0.21680	mg/L	0.001328	0.21680	mg/L	0.001328	0.61%
Cu 324.752†	276214.6	1.3277	mg/L	0.00941	1.3277	mg/L	0.00941	0.71%
Fe 273.955†	26792412.9	1077.3	mg/L	0.44	1077.3	mg/L	0.44	0.04%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	764365.6	43.034	mg/L	0.1325	43.034	mg/L	0.1325	0.31%
Mn 257.610†	4749064.3	7.8026	mg/L	0.02894	7.8026	mg/L	0.02894	0.37%
Ni 231.604†	13114.9	0.37605	mg/L	0.001857	0.37605	mg/L	0.001857	0.49%
Pb 220.353†	4453.8	0.60536	mg/L	0.001573	0.60536	mg/L	0.001573	0.26%
Sb 206.836†	150.7	0.00430	mg/L	0.004497	0.00430	mg/L	0.004497	104.51%
Se 196.026†	-568.2	0.03357	mg/L	0.005780	0.03357	mg/L	0.005780	17.22%
Tl 190.801†	-335.1	-0.02916	mg/L	0.007304	-0.02916	mg/L	0.007304	25.05%
V 292.402†	130145.6	1.0532	mg/L	0.00761	1.0532	mg/L	0.00761	0.72%
Zn 206.200†	48749.4	1.2052	mg/L	0.00418	1.2052	mg/L	0.00418	0.35%
Cd 226.502†	7069.2	0.02375	mg/L	0.001280	0.02375	mg/L	0.001280	5.39%
Ti 334.940†	2804393.8	5.0101	mg/L	0.00940	5.0101	mg/L	0.00940	0.19%
Ca 227.546†	8601.8	33.540	mg/L	0.2290	33.540	mg/L	0.2290	0.68%
Na 589.592	2028.2	0.46908	mg/L	0.018273	0.46908	mg/L	0.018273	3.90%
K 766.490	29577.0	24.669	mg/L	0.0991	24.669	mg/L	0.0991	0.40%

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Sequence No.: 27 **Autosampler Location: 50**
Sample ID: L1956-05A~SS-18 **Date Collected: 9/26/2012 9:19:33 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:50 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-05A~SS-18

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2137239.2	103.04	%	0.952				0.92%
Lu 261.542	1352677.5	92.38	%	0.683				0.74%
Ag 328.068†	-1187.7	-0.00708	mg/L	0.000418	-0.00708	mg/L	0.000418	5.90%
Al 308.215†	2410370.5	119.19	mg/L	0.933	119.19	mg/L	0.933	0.78%
As 188.979†	-24.1	0.10101	mg/L	0.002231	0.10101	mg/L	0.002231	2.21%
Ba 233.527†	418053.1	4.2468	mg/L	0.03001	4.2468	mg/L	0.03001	0.71%
Be 313.107†	-49940.4	-0.00446	mg/L	0.000046	-0.00446	mg/L	0.000046	1.04%
Co 228.616†	20050.6	0.41634	mg/L	0.003488	0.41634	mg/L	0.003488	0.84%
Cr 267.716†	23285.5	0.30845	mg/L	0.001974	0.30845	mg/L	0.001974	0.64%
Cu 324.752†	2088491.2	9.4018	mg/L	0.06233	9.4018	mg/L	0.06233	0.66%
Fe 273.955†	31108776.2	1250.9	mg/L	1.80	1250.9	mg/L	1.80	0.14%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1067683.9	60.111	mg/L	0.5627	60.111	mg/L	0.5627	0.94%
Mn 257.610†	6099700.8	10.022	mg/L	0.0808	10.022	mg/L	0.0808	0.81%
Ni 231.604†	15449.2	0.44147	mg/L	0.003649	0.44147	mg/L	0.003649	0.83%
Pb 220.353†	12392.7	1.6978	mg/L	0.01599	1.6978	mg/L	0.01599	0.94%
Sb 206.836†	159.3	0.00141	mg/L	0.005042	0.00141	mg/L	0.005042	357.22%
Se 196.026†	-687.7	0.01777	mg/L	0.003327	0.01777	mg/L	0.003327	18.72%
Tl 190.801†	-389.9	-0.03131	mg/L	0.006365	-0.03131	mg/L	0.006365	20.33%
V 292.402†	145005.5	1.1688	mg/L	0.00661	1.1688	mg/L	0.00661	0.57%
Zn 206.200†	127761.9	3.0725	mg/L	0.02233	3.0725	mg/L	0.02233	0.73%
Cd 226.502†	8703.8	0.03497	mg/L	0.000694	0.03497	mg/L	0.000694	1.98%
Ti 334.940†	4701431.4	8.3986	mg/L	0.05701	8.3986	mg/L	0.05701	0.68%
Ca 227.546†	4223.6	14.812	mg/L	0.0753	14.812	mg/L	0.0753	0.51%
Na 589.592	3333.8	0.77102	mg/L	0.019187	0.77102	mg/L	0.019187	2.49%
K 766.490	33839.8	28.224	mg/L	0.2541	28.224	mg/L	0.2541	0.90%

Sequence No.: 28
Sample ID: L1993-02A~TS-6 20XCa
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 9/26/2012 9:23:32 AM
Data Type: Reprocessed on 9/26/2012 2:50:51 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1993-02A~TS-6 20XCa

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2062636.1	99.441	%	0.1181				0.12%
Lu 261.542	1463675.0	99.96	%	0.114				0.11%
Ag 328.068†	352.8	0.00203	mg/L	0.000763	0.00203	mg/L	0.000763	37.66%
Al 308.215†	224074.7	11.078	mg/L	0.1201	11.078	mg/L	0.1201	1.08%
As 188.979†	15.6	0.01124	mg/L	0.000768	0.01124	mg/L	0.000768	6.83%
Ba 233.527†	9879.0	0.10035	mg/L	0.001288	0.10035	mg/L	0.001288	1.28%
Be 313.107†	1065.1	0.00054	mg/L	0.000019	0.00054	mg/L	0.000019	3.45%
Co 228.616†	377.9	0.00815	mg/L	0.000238	0.00815	mg/L	0.000238	2.92%
Cr 267.716†	1289.8	0.01706	mg/L	0.000137	0.01706	mg/L	0.000137	0.80%
Cu 324.752†	6085.1	0.02890	mg/L	0.000431	0.02890	mg/L	0.000431	1.49%
Fe 273.955†	494618.3	19.888	mg/L	0.0697	19.888	mg/L	0.0697	0.35%
Mg 279.077†	86604.9	4.8759	mg/L	0.05747	4.8759	mg/L	0.05747	1.18%
Mn 257.610†	377595.2	0.62035	mg/L	0.006722	0.62035	mg/L	0.006722	1.08%
Ni 231.604†	690.0	0.01989	mg/L	0.000052	0.01989	mg/L	0.000052	0.26%
Pb 220.353†	321.8	0.04493	mg/L	0.001288	0.04493	mg/L	0.001288	2.87%
Sb 206.836†	0.5	-0.00225	mg/L	0.003432	-0.00225	mg/L	0.003432	152.42%
Se 196.026†	-4.1	0.00607	mg/L	0.006625	0.00607	mg/L	0.006625	109.16%
Tl 190.801†	-7.6	-0.00106	mg/L	0.001858	-0.00106	mg/L	0.001858	175.62%
V 292.402†	2710.5	0.02194	mg/L	0.000402	0.02194	mg/L	0.000402	1.83%
Zn 206.200†	4946.3	0.11728	mg/L	0.000198	0.11728	mg/L	0.000198	0.17%
Cd 226.502†	140.1	0.00052	mg/L	0.000012	0.00052	mg/L	0.000012	2.35%
Ti 334.940†	34946.8	0.06274	mg/L	0.001044	0.06274	mg/L	0.001044	1.66%
Ca 227.546†	5622.7	23.434	mg/L	0.0246	23.434	mg/L	0.0246	0.10%
Na 589.592	1410.8	0.32628	mg/L	0.015324	0.32628	mg/L	0.015324	4.70%
K 766.490	1831.8	1.5278	mg/L	0.01565	1.5278	mg/L	0.01565	1.02%

Sequence No.: 29 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 9:27:12 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:52 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2010829.6	96.943	%	0.4850				0.50%
Lu 261.542	1433784.6	97.92	%	0.520				0.53%
Ag 328.068†	209886.1	1.2639	mg/L	0.01154	1.2639	mg/L	0.01154	0.91%
QC value within limits for Ag 328.068 Recovery = 101.11%								
Al 308.215†	193378.3	9.5556	mg/L	0.09327	9.5556	mg/L	0.09327	0.98%
QC value within limits for Al 308.215 Recovery = 95.56%								
As 188.979†	828.1	0.49233	mg/L	0.002601	0.49233	mg/L	0.002601	0.53%
QC value within limits for As 188.979 Recovery = 98.47%								
Ba 233.527†	985165.4	10.008	mg/L	0.0115	10.008	mg/L	0.0115	0.11%
QC value within limits for Ba 233.527 Recovery = 100.08%								
Be 313.107†	611490.0	0.24543	mg/L	0.000190	0.24543	mg/L	0.000190	0.08%
QC value within limits for Be 313.107 Recovery = 98.17%								
Co 228.616†	108712.4	2.5248	mg/L	0.02335	2.5248	mg/L	0.02335	0.92%
QC value within limits for Co 228.616 Recovery = 100.99%								
Cr 267.716†	72170.1	0.96149	mg/L	0.008503	0.96149	mg/L	0.008503	0.88%
QC value within limits for Cr 267.716 Recovery = 96.15%								
Cu 324.752†	264485.4	1.1772	mg/L	0.01211	1.1772	mg/L	0.01211	1.03%
QC value within limits for Cu 324.752 Recovery = 94.17%								
Fe 273.955†	123544.2	4.9716	mg/L	0.04884	4.9716	mg/L	0.04884	0.98%
QC value within limits for Fe 273.955 Recovery = 99.43%								
Mg 279.077†	441438.3	24.851	mg/L	0.0091	24.851	mg/L	0.0091	0.04%
QC value within limits for Mg 279.077 Recovery = 99.40%								
Mn 257.610†	1531899.7	2.5165	mg/L	0.00231	2.5165	mg/L	0.00231	0.09%
QC value within limits for Mn 257.610 Recovery = 100.66%								
Ni 231.604†	86282.7	2.4938	mg/L	0.02228	2.4938	mg/L	0.02228	0.89%
QC value within limits for Ni 231.604 Recovery = 99.75%								
Pb 220.353†	3597.6	0.49766	mg/L	0.002361	0.49766	mg/L	0.002361	0.47%
QC value within limits for Pb 220.353 Recovery = 99.53%								
Sb 206.836†	1243.0	0.52054	mg/L	0.003071	0.52054	mg/L	0.003071	0.59%
QC value within limits for Sb 206.836 Recovery = 104.11%								
Se 196.026†	537.1	0.48606	mg/L	0.005892	0.48606	mg/L	0.005892	1.21%
QC value within limits for Se 196.026 Recovery = 97.21%								
Tl 190.801†	956.9	0.47724	mg/L	0.006609	0.47724	mg/L	0.006609	1.38%
QC value within limits for Tl 190.801 Recovery = 95.45%								
V 292.402†	308773.9	2.4378	mg/L	0.02343	2.4378	mg/L	0.02343	0.96%
QC value within limits for V 292.402 Recovery = 97.51%								
Zn 206.200†	106108.1	2.4925	mg/L	0.02409	2.4925	mg/L	0.02409	0.97%
QC value within limits for Zn 206.200 Recovery = 99.70%								
Cd 226.502†	16599.2	0.24551	mg/L	0.003130	0.24551	mg/L	0.003130	1.27%
QC value within limits for Cd 226.502 Recovery = 98.20%								
Ti 334.940†	264377.8	0.47208	mg/L	0.002063	0.47208	mg/L	0.002063	0.44%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5922.1	23.919	mg/L	0.0903	23.919	mg/L	0.0903	0.38%
QC value within limits for Ca 227.546 Recovery = 95.68%								
Na 589.592	106442.2	24.617	mg/L	0.3022	24.617	mg/L	0.3022	1.23%
QC value within limits for Na 589.592 Recovery = 98.47%								
K 766.490	29715.8	24.785	mg/L	0.2951	24.785	mg/L	0.2951	1.19%
QC value within limits for K 766.490 Recovery = 99.14%								

All analyte(s) passed QC.

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Sequence No.: 30 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 9:30:54 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:52 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2074850.1	100.03	%	1.513				1.51%
Lu 261.542	1474187.3	100.7	%	1.51				1.50%
Ag 328.068†	433.8	0.00260	mg/L	0.000429	0.00260	mg/L	0.000429	16.47%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-363.2	-0.01798	mg/L	0.001469	-0.01798	mg/L	0.001469	8.17%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	5.0	0.00292	mg/L	0.002203	0.00292	mg/L	0.002203	75.52%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	93.2	0.00095	mg/L	0.000291	0.00095	mg/L	0.000291	30.75%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	30.3	0.00001	mg/L	0.000022	0.00001	mg/L	0.000022	171.76%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	10.8	0.00025	mg/L	0.000163	0.00025	mg/L	0.000163	65.43%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	16.3	0.00022	mg/L	0.000142	0.00022	mg/L	0.000142	65.31%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-56.0	-0.00025	mg/L	0.000186	-0.00025	mg/L	0.000186	74.92%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	231.2	0.00930	mg/L	0.001934	0.00930	mg/L	0.001934	20.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	83.6	0.00470	mg/L	0.004045	0.00470	mg/L	0.004045	85.99%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	198.2	0.00033	mg/L	0.000104	0.00033	mg/L	0.000104	32.00%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	1.1	0.00003	mg/L	0.000306	0.00003	mg/L	0.000306	966.66%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-5.0	-0.00068	mg/L	0.000969	-0.00068	mg/L	0.000969	141.53%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.8	0.00121	mg/L	0.002789	0.00121	mg/L	0.002789	230.26%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.5	0.00133	mg/L	0.001175	0.00133	mg/L	0.001175	88.10%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	3.2	0.00166	mg/L	0.001505	0.00166	mg/L	0.001505	90.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	55.8	0.00044	mg/L	0.000478	0.00044	mg/L	0.000478	108.52%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	5.0	0.00012	mg/L	0.000240	0.00012	mg/L	0.000240	199.95%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	7.3	0.00011	mg/L	0.000107	0.00011	mg/L	0.000107	100.28%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	206.9	0.00037	mg/L	0.000018	0.00037	mg/L	0.000018	4.74%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	13.5	0.05648	mg/L	0.038858	0.05648	mg/L	0.038858	68.80%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592	-25.3	-0.00585	mg/L	0.005911	-0.00585	mg/L	0.005911	101.10%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	5.4	0.00452	mg/L	0.030793	0.00452	mg/L	0.030793	681.54%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 31 **Autosampler Location: 51**
Sample ID: L1956-06A~SS-19 **Date Collected: 9/26/2012 9:34:33 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:53 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-06A~SS-19

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2232375.1	107.62	%	0.750				0.70%
Lu 261.542	1344401.1	91.81	%	0.418				0.46%
Ag 328.068†	-2171.1	-0.01331	mg/L	0.000634	-0.01331	mg/L	0.000634	4.76%
Al 308.215†	3187275.7	157.61	mg/L	0.730	157.61	mg/L	0.730	0.46%
As 188.979†	87.7	0.16296	mg/L	0.004203	0.16296	mg/L	0.004203	2.58%
Ba 233.527†	1219591.2	12.386	mg/L	0.0530	12.386	mg/L	0.0530	0.43%
Be 313.107†	-28245.6	0.00117	mg/L	0.000072	0.00117	mg/L	0.000072	6.17%

Co 228.616†	18173.5	0.37699	mg/L	0.001559	0.37699	mg/L	0.001559	0.41%
Cr 267.716†	15654.6	0.20625	mg/L	0.001064	0.20625	mg/L	0.001064	0.52%
Cu 324.752†	526024.3	2.4528	mg/L	0.00338	2.4528	mg/L	0.00338	0.14%
Fe 273.955†	30635494.3	1231.8	mg/L	1.48	1231.8	mg/L	1.48	0.12%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	1043421.0	58.746	mg/L	0.2036	58.746	mg/L	0.2036	0.35%
Mn 257.610†	7938990.2	13.044	mg/L	0.0036	13.044	mg/L	0.0036	0.03%
Ni 231.604†	15048.3	0.43086	mg/L	0.002065	0.43086	mg/L	0.002065	0.48%
Pb 220.353†	1010.1	0.13295	mg/L	0.002716	0.13295	mg/L	0.002716	2.04%
Sb 206.836†	164.8	0.00192	mg/L	0.005325	0.00192	mg/L	0.005325	276.69%
Se 196.026†	-683.6	0.00879	mg/L	0.004915	0.00879	mg/L	0.004915	55.93%
Tl 190.801†	-371.3	-0.02491	mg/L	0.004748	-0.02491	mg/L	0.004748	19.06%
V 292.402†	165588.7	1.3349	mg/L	0.00102	1.3349	mg/L	0.00102	0.08%
Zn 206.200†	42700.2	1.0752	mg/L	0.00168	1.0752	mg/L	0.00168	0.16%
Cd 226.502†	8210.8	0.02903	mg/L	0.000804	0.02903	mg/L	0.000804	2.77%
Ti 334.940†	3777424.6	6.7483	mg/L	0.02422	6.7483	mg/L	0.02422	0.36%
Ca 227.546†	10946.4	42.961	mg/L	0.1254	42.961	mg/L	0.1254	0.29%
Na 589.592	3677.2	0.85044	mg/L	0.016050	0.85044	mg/L	0.016050	1.89%
K 766.490	34191.2	28.517	mg/L	0.0911	28.517	mg/L	0.0911	0.32%

Sequence No.: 32 **Autosampler Location: 52**
Sample ID: L1956-07A~SS-20 **Date Collected: 9/26/2012 9:38:37 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:54 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-07A~SS-20

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2123834.1	102.39	%	0.592				0.58%
Lu 261.542	1330120.0	90.84	%	0.068				0.08%
Ag 328.068†	-3217.3	-0.01760	mg/L	0.000586	-0.01760	mg/L	0.000586	3.33%
Al 308.215†	2938789.1	145.33	mg/L	1.023	145.33	mg/L	1.023	0.70%
As 188.979†	-147.5	0.06709	mg/L	0.009906	0.06709	mg/L	0.009906	14.77%
Ba 233.527†	1809229.8	18.375	mg/L	0.1243	18.375	mg/L	0.1243	0.68%
Be 313.107†	-32420.9	-0.00117	mg/L	0.000044	-0.00117	mg/L	0.000044	3.75%
Co 228.616†	21497.9	0.44418	mg/L	0.007672	0.44418	mg/L	0.007672	1.73%
Cr 267.716†	23044.6	0.30558	mg/L	0.005545	0.30558	mg/L	0.005545	1.81%
Cu 324.752†	638002.7	2.9925	mg/L	0.01968	2.9925	mg/L	0.01968	0.66%
Fe 273.955†	41881771.8	1684.0	mg/L	9.17	1684.0	mg/L	9.17	0.54%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	797313.7	44.889	mg/L	0.3214	44.889	mg/L	0.3214	0.72%
Mn 257.610†	5866133.4	9.6381	mg/L	0.06475	9.6381	mg/L	0.06475	0.67%
Ni 231.604†	19172.3	0.55040	mg/L	0.007743	0.55040	mg/L	0.007743	1.41%
Pb 220.353†	2798.8	0.36838	mg/L	0.009941	0.36838	mg/L	0.009941	2.70%
Sb 206.836†	236.3	0.00760	mg/L	0.006825	0.00760	mg/L	0.006825	89.75%
Se 196.026†	-1051.0	-0.09332	mg/L	0.054285	-0.09332	mg/L	0.054285	58.17%
Tl 190.801†	-593.8	-0.08511	mg/L	0.017848	-0.08511	mg/L	0.017848	20.97%
V 292.402†	250260.1	2.0175	mg/L	0.01235	2.0175	mg/L	0.01235	0.61%
Zn 206.200†	40440.3	1.0436	mg/L	0.01625	1.0436	mg/L	0.01625	1.56%
Cd 226.502†	12504.1	0.05876	mg/L	0.001382	0.05876	mg/L	0.001382	2.35%
Ti 334.940†	3565910.0	6.3699	mg/L	0.04222	6.3699	mg/L	0.04222	0.66%
Ca 227.546†	-1182.6	-8.6171	mg/L	0.49296	-8.6171	mg/L	0.49296	5.72%
Na 589.592	3039.2	0.70290	mg/L	0.014024	0.70290	mg/L	0.014024	2.00%
K 766.490	14073.3	11.738	mg/L	0.1923	11.738	mg/L	0.1923	1.64%

Sequence No.: 33 **Autosampler Location: 53**
Sample ID: L1956-08A~SS-21 **Date Collected: 9/26/2012 9:41:47 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:55 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-08A~SS-21

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

Y 360.073	1987642.7	95.825	%	0.3088				0.32%
Lu 261.542	1358270.7	92.76	%	0.590				0.64%
Ag 328.068†	-2338.5	-0.01180	mg/L	0.000450	-0.01180	mg/L	0.000450	3.82%
Al 308.215†	1582949.0	78.280	mg/L	0.7243	78.280	mg/L	0.7243	0.93%
As 188.979†	-219.8	0.01516	mg/L	0.005652	0.01516	mg/L	0.005652	37.28%
Ba 233.527†	226110.0	2.2991	mg/L	0.01115	2.2991	mg/L	0.01115	0.49%
Be 313.107†	-29446.5	-0.00201	mg/L	0.000113	-0.00201	mg/L	0.000113	5.63%
Co 228.616†	22110.4	0.46347	mg/L	0.001220	0.46347	mg/L	0.001220	0.26%
Cr 267.716†	23391.1	0.31053	mg/L	0.001617	0.31053	mg/L	0.001617	0.52%
Cu 324.752†	272538.5	1.3579	mg/L	0.00799	1.3579	mg/L	0.00799	0.59%
Fe 273.955†	39292653.1	1579.9	mg/L	21.49	1579.9	mg/L	21.49	1.36%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	361435.5	20.349	mg/L	0.0983	20.349	mg/L	0.0983	0.48%
Mn 257.610†	4974729.5	8.1738	mg/L	0.08502	8.1738	mg/L	0.08502	1.04%
Ni 231.604†	18155.1	0.52174	mg/L	0.001481	0.52174	mg/L	0.001481	0.28%
Pb 220.353†	565.1	0.05663	mg/L	0.002808	0.05663	mg/L	0.002808	4.96%
Sb 206.836†	222.5	0.01155	mg/L	0.001738	0.01155	mg/L	0.001738	15.05%
Se 196.026†	-978.2	-0.08097	mg/L	0.019005	-0.08097	mg/L	0.019005	23.47%
Tl 190.801†	-548.5	-0.07895	mg/L	0.004590	-0.07895	mg/L	0.004590	5.81%
V 292.402†	264482.4	2.1286	mg/L	0.01407	2.1286	mg/L	0.01407	0.66%
Zn 206.200†	32106.3	0.84101	mg/L	0.004224	0.84101	mg/L	0.004224	0.50%
Cd 226.502†	11574.0	0.05289	mg/L	0.001873	0.05289	mg/L	0.001873	3.54%
Ti 334.940†	2948279.7	5.2663	mg/L	0.04025	5.2663	mg/L	0.04025	0.76%
Ca 227.546†	-8880.8	-40.533	mg/L	0.1415	-40.533	mg/L	0.1415	0.35%
Na 589.592	1211.1	0.28010	mg/L	0.012044	0.28010	mg/L	0.012044	4.30%
K 766.490	11093.0	9.2522	mg/L	0.11821	9.2522	mg/L	0.11821	1.28%

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Sequence No.: 34 **Autosampler Location: 54**
Sample ID: L1956-09A~SS-22 **Date Collected: 9/26/2012 9:45:54 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:55 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-09A~SS-22

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2101618.5	101.32	%	0.054				0.05%
Lu 261.542	1336280.9	91.26	%	0.298				0.33%
Ag 328.068†	-520.3	-0.00164	mg/L	0.000416	-0.00164	mg/L	0.000416	25.35%
Al 308.215†	3516995.5	173.93	mg/L	1.021	173.93	mg/L	1.021	0.59%
As 188.979†	-126.0	0.07714	mg/L	0.003813	0.07714	mg/L	0.003813	4.94%
Ba 233.527†	1033341.8	10.496	mg/L	0.0541	10.496	mg/L	0.0541	0.52%
Be 313.107†	-29221.0	0.00280	mg/L	0.000092	0.00280	mg/L	0.000092	3.31%
Co 228.616†	22710.2	0.46966	mg/L	0.002436	0.46966	mg/L	0.002436	0.52%
Cr 267.716†	25642.3	0.33976	mg/L	0.003352	0.33976	mg/L	0.003352	0.99%
Cu 324.752†	245529.7	1.2449	mg/L	0.00902	1.2449	mg/L	0.00902	0.72%
Fe 273.955†	41196561.9	1656.5	mg/L	3.28	1656.5	mg/L	3.28	0.20%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	984346.2	55.419	mg/L	0.2728	55.419	mg/L	0.2728	0.49%
Mn 257.610†	7221615.0	11.865	mg/L	0.0618	11.865	mg/L	0.0618	0.52%
Ni 231.604†	19435.4	0.55710	mg/L	0.002334	0.55710	mg/L	0.002334	0.42%
Pb 220.353†	794.7	0.09714	mg/L	0.003130	0.09714	mg/L	0.003130	3.22%
Sb 206.836†	229.0	0.00711	mg/L	0.005668	0.00711	mg/L	0.005668	79.68%
Se 196.026†	-1025.4	-0.08355	mg/L	0.009553	-0.08355	mg/L	0.009553	11.43%
Tl 190.801†	-582.1	-0.08149	mg/L	0.006519	-0.08149	mg/L	0.006519	8.00%
V 292.402†	266149.4	2.1406	mg/L	0.01777	2.1406	mg/L	0.01777	0.83%
Zn 206.200†	45804.1	1.1696	mg/L	0.00914	1.1696	mg/L	0.00914	0.78%
Cd 226.502†	12293.2	0.05775	mg/L	0.001064	0.05775	mg/L	0.001064	1.84%
Ti 334.940†	4381451.1	7.8264	mg/L	0.04578	7.8264	mg/L	0.04578	0.58%
Ca 227.546†	-4794.4	-23.676	mg/L	0.1360	-23.676	mg/L	0.1360	0.57%
Na 589.592	4095.5	0.94719	mg/L	0.015791	0.94719	mg/L	0.015791	1.67%
K 766.490	33902.8	28.277	mg/L	0.3698	28.277	mg/L	0.3698	1.31%

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Sequence No.: 35 **Autosampler Location: 55**
Sample ID: L1956-10A~SS-23 **Date Collected: 9/26/2012 9:50:03 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:56 PM**
Logged In Analyst (Original) : mitOptima3

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-10A~SS-23

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2007206.9	96.768	%	0.2100				0.22%
Lu 261.542	1357407.4	92.70	%	0.610				0.66%
Ag 328.068†	-2569.0	-0.01290	mg/L	0.001009	-0.01290	mg/L	0.001009	7.82%
Al 308.215†	1805766.4	89.302	mg/L	0.4159	89.302	mg/L	0.4159	0.47%
As 188.979†	-220.2	0.02330	mg/L	0.003060	0.02330	mg/L	0.003060	13.13%
Ba 233.527†	290394.1	2.9521	mg/L	0.01534	2.9521	mg/L	0.01534	0.52%
Be 313.107†	-23579.7	-0.00049	mg/L	0.000073	-0.00049	mg/L	0.000073	14.95%
Co 228.616†	19093.1	0.39199	mg/L	0.001275	0.39199	mg/L	0.001275	0.33%
Cr 267.716†	20549.5	0.27271	mg/L	0.001893	0.27271	mg/L	0.001893	0.69%
Cu 324.752†	195047.4	1.0226	mg/L	0.00794	1.0226	mg/L	0.00794	0.78%
Fe 273.955†	41772571.5	1679.6	mg/L	14.79	1679.6	mg/L	14.79	0.88%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	493198.2	27.767	mg/L	0.1749	27.767	mg/L	0.1749	0.63%
Mn 257.610†	5039989.8	8.2809	mg/L	0.04550	8.2809	mg/L	0.04550	0.55%
Ni 231.604†	15152.2	0.43517	mg/L	0.002172	0.43517	mg/L	0.002172	0.50%
Pb 220.353†	621.3	0.06283	mg/L	0.000366	0.06283	mg/L	0.000366	0.58%
Sb 206.836†	225.9	0.00650	mg/L	0.005349	0.00650	mg/L	0.005349	82.25%
Se 196.026†	-1042.7	-0.08923	mg/L	0.003029	-0.08923	mg/L	0.003029	3.39%
Tl 190.801†	-601.0	-0.09281	mg/L	0.005785	-0.09281	mg/L	0.005785	6.23%
V 292.402†	284326.2	2.2889	mg/L	0.02227	2.2889	mg/L	0.02227	0.97%
Zn 206.200†	49866.5	1.2617	mg/L	0.00561	1.2617	mg/L	0.00561	0.44%
Cd 226.502†	12596.7	0.06054	mg/L	0.002206	0.06054	mg/L	0.002206	3.64%
Ti 334.940†	2697393.7	4.8178	mg/L	0.02590	4.8178	mg/L	0.02590	0.54%
Ca 227.546†	-11307.0	-50.848	mg/L	0.4792	-50.848	mg/L	0.4792	0.94%
Na 589.592	2037.9	0.47132	mg/L	0.012963	0.47132	mg/L	0.012963	2.75%
K 766.490	13722.5	11.445	mg/L	0.1104	11.445	mg/L	0.1104	0.96%

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Sequence No.: 36 **Autosampler Location: 56**
Sample ID: L1956-11A~SS-24 **Date Collected: 9/26/2012 9:54:10 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:57 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11A~SS-24

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2043687.4	98.527	%	0.8922				0.91%
Lu 261.542	1367904.6	93.42	%	0.970				1.04%
Ag 328.068†	-1531.3	-0.00793	mg/L	0.000854	-0.00793	mg/L	0.000854	10.77%
Al 308.215†	2122151.6	104.94	mg/L	0.421	104.94	mg/L	0.421	0.40%
As 188.979†	-102.4	0.06663	mg/L	0.001761	0.06663	mg/L	0.001761	2.64%
Ba 233.527†	425530.2	4.3235	mg/L	0.05606	4.3235	mg/L	0.05606	1.30%
Be 313.107†	-29053.3	-0.00144	mg/L	0.000147	-0.00144	mg/L	0.000147	10.20%
Co 228.616†	19387.8	0.40412	mg/L	0.003739	0.40412	mg/L	0.003739	0.93%
Cr 267.716†	16927.2	0.22415	mg/L	0.003632	0.22415	mg/L	0.003632	1.62%
Cu 324.752†	212310.9	1.0731	mg/L	0.01402	1.0731	mg/L	0.01402	1.31%
Fe 273.955†	34718958.7	1396.0	mg/L	3.88	1396.0	mg/L	3.88	0.28%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	578020.8	32.543	mg/L	0.4512	32.543	mg/L	0.4512	1.39%
Mn 257.610†	5421254.0	8.9073	mg/L	0.03796	8.9073	mg/L	0.03796	0.43%
Ni 231.604†	16293.7	0.46772	mg/L	0.005152	0.46772	mg/L	0.005152	1.10%
Pb 220.353†	771.4	0.09136	mg/L	0.002252	0.09136	mg/L	0.002252	2.46%
Sb 206.836†	175.8	0.00064	mg/L	0.004238	0.00064	mg/L	0.004238	664.41%
Se 196.026†	-807.0	-0.01995	mg/L	0.008811	-0.01995	mg/L	0.008811	44.17%
Tl 190.801†	-452.7	-0.05038	mg/L	0.003105	-0.05038	mg/L	0.003105	6.16%
V 292.402†	209993.8	1.6925	mg/L	0.02423	1.6925	mg/L	0.02423	1.43%
Zn 206.200†	33239.5	0.85852	mg/L	0.008862	0.85852	mg/L	0.008862	1.03%
Cd 226.502†	9504.6	0.03602	mg/L	0.001543	0.03602	mg/L	0.001543	4.28%
Ti 334.940†	3076630.9	5.4957	mg/L	0.01574	5.4957	mg/L	0.01574	0.29%
Ca 227.546†	-4340.6	-21.185	mg/L	0.1128	-21.185	mg/L	0.1128	0.53%
Na 589.592	2251.5	0.52071	mg/L	0.014756	0.52071	mg/L	0.014756	2.83%

K 766.490	16610.2	13.854	mg/L	0.0950	13.854	mg/L	0.0950	0.69%

Sequence No.: 37 **Autosampler Location: 57**
Sample ID: L1956-11ADUP~SS-24D **Date Collected: 9/26/2012 9:58:08 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:57 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11ADUP~SS-24D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2076886.2	100.13	%	0.385				0.38%
Lu 261.542	1377281.1	94.06	%	0.251				0.27%
Ag 328.068†	-1782.3	-0.00920	mg/L	0.000049	-0.00920	mg/L	0.000049	0.53%
Al 308.215†	1694145.6	83.778	mg/L	0.5817	83.778	mg/L	0.5817	0.69%
As 188.979†	-116.6	0.05364	mg/L	0.001825	0.05364	mg/L	0.001825	3.40%
Ba 233.527†	331690.4	3.3705	mg/L	0.01003	3.3705	mg/L	0.01003	0.30%
Be 313.107†	-26828.2	-0.00127	mg/L	0.000130	-0.00127	mg/L	0.000130	10.24%
Co 228.616†	16738.0	0.34479	mg/L	0.002199	0.34479	mg/L	0.002199	0.64%
Cr 267.716†	17004.2	0.22550	mg/L	0.001056	0.22550	mg/L	0.001056	0.47%
Cu 324.752†	180496.5	0.92651	mg/L	0.001550	0.92651	mg/L	0.001550	0.17%
Fe 273.955†	33337814.5	1340.5	mg/L	1.78	1340.5	mg/L	1.78	0.13%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	447092.7	25.171	mg/L	0.0853	25.171	mg/L	0.0853	0.34%
Mn 257.610†	4399524.9	7.2286	mg/L	0.04257	7.2286	mg/L	0.04257	0.59%
Ni 231.604†	14427.1	0.41402	mg/L	0.003088	0.41402	mg/L	0.003088	0.75%
Pb 220.353†	687.0	0.07875	mg/L	0.001872	0.07875	mg/L	0.001872	2.38%
Sb 206.836†	173.5	0.00357	mg/L	0.001856	0.00357	mg/L	0.001856	52.00%
Se 196.026†	-769.9	-0.01486	mg/L	0.011613	-0.01486	mg/L	0.011613	78.17%
Tl 190.801†	-435.7	-0.04967	mg/L	0.003485	-0.04967	mg/L	0.003485	7.02%
V 292.402†	201688.3	1.6259	mg/L	0.00417	1.6259	mg/L	0.00417	0.26%
Zn 206.200†	28417.5	0.74163	mg/L	0.004843	0.74163	mg/L	0.004843	0.65%
Cd 226.502†	9074.6	0.03382	mg/L	0.000860	0.03382	mg/L	0.000860	2.54%
Ti 334.940†	2858943.1	5.1069	mg/L	0.03543	5.1069	mg/L	0.03543	0.69%
Ca 227.546†	-4543.7	-21.889	mg/L	0.1133	-21.889	mg/L	0.1133	0.52%
Na 589.592	1921.3	0.44436	mg/L	0.007633	0.44436	mg/L	0.007633	1.72%
K 766.490	10686.6	8.9133	mg/L	0.07701	8.9133	mg/L	0.07701	0.86%

Sequence No.: 38 **Autosampler Location: 58**
Sample ID: L1956-11AMS~SS-24S **Date Collected: 9/26/2012 10:02:13 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:58 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11AMS~SS-24S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1996595.5	96.257	%	0.4504				0.47%
Lu 261.542	1350837.2	92.25	%	1.244				1.35%
Ag 328.068†	192673.2	1.1620	mg/L	0.00982	1.1620	mg/L	0.00982	0.84%
Al 308.215†	2168168.8	107.22	mg/L	0.881	107.22	mg/L	0.881	0.82%
As 188.979†	611.4	0.50305	mg/L	0.013946	0.50305	mg/L	0.013946	2.77%
Ba 233.527†	1216089.5	12.355	mg/L	0.0974	12.355	mg/L	0.0974	0.79%
Be 313.107†	521779.8	0.21795	mg/L	0.001786	0.21795	mg/L	0.001786	0.82%
Co 228.616†	115007.0	2.6238	mg/L	0.01981	2.6238	mg/L	0.01981	0.75%
Cr 267.716†	83973.4	1.1176	mg/L	0.01028	1.1176	mg/L	0.01028	0.92%
Cu 324.752†	543798.0	2.5602	mg/L	0.02271	2.5602	mg/L	0.02271	0.89%
Fe 273.955†	38074727.4	1531.0	mg/L	15.73	1531.0	mg/L	15.73	1.03%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	883493.7	49.739	mg/L	0.3825	49.739	mg/L	0.3825	0.77%
Mn 257.610†	6483406.6	10.652	mg/L	0.0939	10.652	mg/L	0.0939	0.88%
Ni 231.604†	94428.1	2.7266	mg/L	0.02367	2.7266	mg/L	0.02367	0.87%
Pb 220.353†	4006.3	0.53455	mg/L	0.009560	0.53455	mg/L	0.009560	1.79%
Sb 206.836†	1067.5	0.36209	mg/L	0.016834	0.36209	mg/L	0.016834	4.65%
Se 196.026†	-503.2	0.32165	mg/L	0.029831	0.32165	mg/L	0.029831	9.27%

Tl 190.801†	286.8	0.33182	mg/L	0.007894	0.33182	mg/L	0.007894	2.38%
V 292.402†	517406.1	4.1247	mg/L	0.03567	4.1247	mg/L	0.03567	0.86%
Zn 206.200†	123472.1	2.9841	mg/L	0.02370	2.9841	mg/L	0.02370	0.79%
Cd 226.502†	25500.2	0.26284	mg/L	0.002472	0.26284	mg/L	0.002472	0.94%
Ti 334.940†	2798402.0	4.9984	mg/L	0.03795	4.9984	mg/L	0.03795	0.76%
Ca 227.546†	-1145.4	-8.8166	mg/L	0.29078	-8.8166	mg/L	0.29078	3.30%
Na 589.592	98915.1	22.877	mg/L	0.2899	22.877	mg/L	0.2899	1.27%
K 766.490	40459.4	33.745	mg/L	0.4272	33.745	mg/L	0.4272	1.27%

Sequence No.: 39 **Autosampler Location: 59**
Sample ID: L1956-11ASD~SS-24 **Date Collected: 9/26/2012 10:05:27 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:50:59 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11ASD~SS-24

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2087158.9	100.62	%	1.028				1.02%
Lu 261.542	1454123.5	99.31	%	0.965				0.97%
Ag 328.068†	-1.5	0.00023	mg/L	0.000602	0.00023	mg/L	0.000602	261.02%
Al 308.215†	414311.2	20.488	mg/L	0.3158	20.488	mg/L	0.3158	1.54%
As 188.979†	-24.2	0.01754	mg/L	0.001263	0.01754	mg/L	0.001263	7.20%
Ba 233.527†	88290.3	0.89704	mg/L	0.013531	0.89704	mg/L	0.013531	1.51%
Be 313.107†	-5796.4	-0.00023	mg/L	0.000060	-0.00023	mg/L	0.000060	26.36%
Co 228.616†	4240.9	0.08748	mg/L	0.000685	0.08748	mg/L	0.000685	0.78%
Cr 267.716†	3413.1	0.04518	mg/L	0.000232	0.04518	mg/L	0.000232	0.51%
Cu 324.752†	41028.2	0.21481	mg/L	0.002831	0.21481	mg/L	0.002831	1.32%
Fe 273.955†	8712873.7	350.34	mg/L	0.689	350.34	mg/L	0.689	0.20%
Mg 279.077†	125244.4	7.0513	mg/L	0.09579	7.0513	mg/L	0.09579	1.36%
Mn 257.610†	1149241.9	1.8882	mg/L	0.00411	1.8882	mg/L	0.00411	0.22%
Ni 231.604†	3463.0	0.09943	mg/L	0.000513	0.09943	mg/L	0.000513	0.52%
Pb 220.353†	156.4	0.01707	mg/L	0.001706	0.01707	mg/L	0.001706	9.99%
Sb 206.836†	42.1	-0.00068	mg/L	0.002289	-0.00068	mg/L	0.002289	334.54%
Se 196.026†	-163.0	0.03019	mg/L	0.001138	0.03019	mg/L	0.001138	3.77%
Tl 190.801†	-93.2	-0.00189	mg/L	0.002464	-0.00189	mg/L	0.002464	130.10%
V 292.402†	42601.9	0.34542	mg/L	0.004620	0.34542	mg/L	0.004620	1.34%
Zn 206.200†	7068.9	0.18521	mg/L	0.001130	0.18521	mg/L	0.001130	0.61%
Cd 226.502†	1899.2	0.00185	mg/L	0.000296	0.00185	mg/L	0.000296	16.00%
Ti 334.940†	631707.1	1.1284	mg/L	0.00135	1.1284	mg/L	0.00135	0.12%
Ca 227.546†	-853.9	-4.3231	mg/L	0.06492	-4.3231	mg/L	0.06492	1.50%
Na 589.592	379.1	0.08767	mg/L	0.011842	0.08767	mg/L	0.011842	13.51%
K 766.490	3275.4	2.7319	mg/L	0.04245	2.7319	mg/L	0.04245	1.55%

Sequence No.: 40 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 10:09:10 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:00 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2004818.2	96.653	%	0.3796				0.39%
Lu 261.542	1424310.0	97.27	%	0.394				0.40%
Ag 328.068†	211854.6	1.2757	mg/L	0.00482	1.2757	mg/L	0.00482	0.38%
QC value within limits for Ag 328.068 Recovery = 102.06%								
Al 308.215†	197354.5	9.7522	mg/L	0.05990	9.7522	mg/L	0.05990	0.61%
QC value within limits for Al 308.215 Recovery = 97.52%								
As 188.979†	836.5	0.49728	mg/L	0.000944	0.49728	mg/L	0.000944	0.19%
QC value within limits for As 188.979 Recovery = 99.46%								
Ba 233.527†	1001625.0	10.175	mg/L	0.0087	10.175	mg/L	0.0087	0.09%
QC value within limits for Ba 233.527 Recovery = 101.75%								
Be 313.107†	620475.7	0.24905	mg/L	0.000253	0.24905	mg/L	0.000253	0.10%
QC value within limits for Be 313.107 Recovery = 99.62%								

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Co 228.616†          110141.8      2.5580 mg/L       0.01409      2.5580 mg/L       0.01409   0.55%
   QC value within limits for Co 228.616  Recovery = 102.32%
Cr 267.716†           72777.7     0.96959 mg/L      0.003630     0.96959 mg/L      0.003630   0.37%
   QC value within limits for Cr 267.716  Recovery = 96.96%
Cu 324.752†          268435.2      1.1948 mg/L       0.00866      1.1948 mg/L       0.00866   0.72%
   QC value within limits for Cu 324.752  Recovery = 95.58%
Fe 273.955†          126551.7      5.0926 mg/L       0.03908      5.0926 mg/L       0.03908   0.77%
   QC value within limits for Fe 273.955  Recovery = 101.85%
Mg 279.077†          448692.2      25.260 mg/L        0.0315      25.260 mg/L        0.0315   0.12%
   QC value within limits for Mg 279.077  Recovery = 101.04%
Mn 257.610†         1551787.0      2.5492 mg/L       0.00446      2.5492 mg/L       0.00446   0.17%
   QC value within limits for Mn 257.610  Recovery = 101.97%
Ni 231.604†           87087.4      2.5170 mg/L       0.01034      2.5170 mg/L       0.01034   0.41%
   QC value within limits for Ni 231.604  Recovery = 100.68%
Pb 220.353†            3609.1     0.49928 mg/L      0.001368     0.49928 mg/L      0.001368   0.27%
   QC value within limits for Pb 220.353  Recovery = 99.86%
Sb 206.836†            1269.6     0.53189 mg/L      0.003102     0.53189 mg/L      0.003102   0.58%
   QC value within limits for Sb 206.836  Recovery = 106.38%
Se 196.026†             536.1     0.48530 mg/L      0.006151     0.48530 mg/L      0.006151   1.27%
   QC value within limits for Se 196.026  Recovery = 97.06%
Tl 190.801†             968.1     0.48289 mg/L      0.001347     0.48289 mg/L      0.001347   0.28%
   QC value within limits for Tl 190.801  Recovery = 96.58%
V 292.402†           311135.8      2.4565 mg/L       0.01161      2.4565 mg/L       0.01161   0.47%
   QC value within limits for V 292.402  Recovery = 98.26%
Zn 206.200†          107318.2      2.5210 mg/L       0.01163      2.5210 mg/L       0.01163   0.46%
   QC value within limits for Zn 206.200  Recovery = 100.84%
Cd 226.502†           16715.4     0.24723 mg/L      0.001431     0.24723 mg/L      0.001431   0.58%
   QC value within limits for Cd 226.502  Recovery = 98.89%
Ti 334.940†          271651.8     0.48507 mg/L      0.001160     0.48507 mg/L      0.001160   0.24%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†            5990.7      24.195 mg/L        0.1335      24.195 mg/L        0.1335   0.55%
   QC value within limits for Ca 227.546  Recovery = 96.78%
Na 589.592           107965.3      24.970 mg/L        0.3656      24.970 mg/L        0.3656   1.46%
   QC value within limits for Na 589.592  Recovery = 99.88%
K 766.490             30496.2      25.436 mg/L        0.4090      25.436 mg/L        0.4090   1.61%
   QC value within limits for K 766.490  Recovery = 101.74%
All analyte(s) passed QC.
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Sequence No.: 41 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 10:12:53 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:00 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2078784.8	100.22	%	1.428				1.43%
Lu 261.542	1470923.6	100.5	%	1.53				1.53%
Ag 328.068†	313.4	0.00188	mg/L	0.000096	0.00188	mg/L	0.000096	5.11%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-477.1	-0.02360	mg/L	0.003710	-0.02360	mg/L	0.003710	15.72%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	6.9	0.00406	mg/L	0.001790	0.00406	mg/L	0.001790	44.06%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	105.5	0.00107	mg/L	0.000293	0.00107	mg/L	0.000293	27.33%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	16.3	0.00001	mg/L	0.000019	0.00001	mg/L	0.000019	269.49%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	20.6	0.00048	mg/L	0.000099	0.00048	mg/L	0.000099	20.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-3.9	-0.00005	mg/L	0.000118	-0.00005	mg/L	0.000118	225.57%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-314.8	-0.00140	mg/L	0.000278	-0.00140	mg/L	0.000278	19.89%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	464.3	0.01867	mg/L	0.000604	0.01867	mg/L	0.000604	3.23%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	5.9	0.00033	mg/L	0.001675	0.00033	mg/L	0.001675	507.13%

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   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              192.8     0.00032 mg/L      0.000029     0.00032 mg/L      0.000029   9.30%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†              -10.4    -0.00030 mg/L      0.000244    -0.00030 mg/L      0.000244  81.35%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               -8.1    -0.00112 mg/L      0.002127    -0.00112 mg/L      0.002127 189.45%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                2.2     0.00096 mg/L      0.001423     0.00096 mg/L      0.001423 148.68%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                5.0     0.00452 mg/L      0.003280     0.00452 mg/L      0.003280  72.57%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†                4.1     0.00212 mg/L      0.000891     0.00212 mg/L      0.000891  42.02%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†                80.4     0.00063 mg/L      0.000506     0.00063 mg/L      0.000506  79.70%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†              -32.0    -0.00075 mg/L      0.000289    -0.00075 mg/L      0.000289  38.62%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†                8.5     0.00012 mg/L      0.000097     0.00012 mg/L      0.000097  78.42%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              191.4     0.00034 mg/L      0.000052     0.00034 mg/L      0.000052  15.15%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†                8.7     0.03633 mg/L      0.035617     0.03633 mg/L      0.035617  98.04%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592               -95.7    -0.02212 mg/L      0.017845    -0.02212 mg/L      0.017845  80.66%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490                -59.2    -0.04938 mg/L      0.046116    -0.04938 mg/L      0.046116  93.39%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 42 **Autosampler Location: 60**
Sample ID: L1956-11APDS~SS-24 **Date Collected: 9/26/2012 10:16:32 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:01 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11APDS~SS-24

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2024453.9	97.600	%	0.2440				0.25%
Lu 261.542	1335452.8	91.20	%	0.303				0.33%
Ag 328.068†	193305.9	1.1653	mg/L	0.00217	1.1653	mg/L	0.00217	0.19%
Al 308.215†	2285327.7	113.01	mg/L	0.153	113.01	mg/L	0.153	0.14%
As 188.979†	633.8	0.50285	mg/L	0.012365	0.50285	mg/L	0.012365	2.46%
Ba 233.527†	1325283.0	13.463	mg/L	0.0097	13.463	mg/L	0.0097	0.07%
Be 313.107†	525399.3	0.22025	mg/L	0.000259	0.22025	mg/L	0.000259	0.12%
Co 228.616†	114234.8	2.6084	mg/L	0.00323	2.6084	mg/L	0.00323	0.12%
Cr 267.716†	83442.8	1.1104	mg/L	0.00119	1.1104	mg/L	0.00119	0.11%
Cu 324.752†	482753.0	2.2749	mg/L	0.00185	2.2749	mg/L	0.00185	0.08%
Fe 273.955†	34360185.7	1381.6	mg/L	3.86	1381.6	mg/L	3.86	0.28%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	965052.4	54.331	mg/L	0.0697	54.331	mg/L	0.0697	0.13%
Mn 257.610†	6702864.4	11.013	mg/L	0.0153	11.013	mg/L	0.0153	0.14%
Ni 231.604†	92527.6	2.6714	mg/L	0.00396	2.6714	mg/L	0.00396	0.15%
Pb 220.353†	3834.7	0.51504	mg/L	0.004507	0.51504	mg/L	0.004507	0.88%
Sb 206.836†	1284.1	0.46428	mg/L	0.011064	0.46428	mg/L	0.011064	2.38%
Se 196.026†	-353.8	0.38077	mg/L	0.018998	0.38077	mg/L	0.018998	4.99%
Tl 190.801†	331.2	0.33618	mg/L	0.011880	0.33618	mg/L	0.011880	3.53%
V 292.402†	494409.5	3.9381	mg/L	0.00505	3.9381	mg/L	0.00505	0.13%
Zn 206.200†	123301.5	2.9731	mg/L	0.00525	2.9731	mg/L	0.00525	0.18%
Cd 226.502†	23926.0	0.25073	mg/L	0.001471	0.25073	mg/L	0.001471	0.59%
Ti 334.940†	3059719.9	5.4653	mg/L	0.01630	5.4653	mg/L	0.01630	0.30%
Ca 227.546†	1253.7	1.5059	mg/L	0.15482	1.5059	mg/L	0.15482	10.28%
Na 589.592	96217.4	22.253	mg/L	0.1901	22.253	mg/L	0.1901	0.85%
K 766.490	42537.1	35.478	mg/L	0.2950	35.478	mg/L	0.2950	0.83%

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Sequence No.: 43 **Autosampler Location: 61**
Sample ID: L1956-12A~SS-DUP **Date Collected: 9/26/2012 10:19:37 AM**

Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:02 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-12A~SS-DUP

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2142698.0	103.30	%	0.673				0.65%
Lu 261.542	1324635.2	90.46	%	1.204				1.33%
Ag 328.068†	-2275.0	-0.01308	mg/L	0.000568	-0.01308	mg/L	0.000568	4.34%
Al 308.215†	3224774.6	159.47	mg/L	1.730	159.47	mg/L	1.730	1.08%
As 188.979†	-95.1	0.10026	mg/L	0.010404	0.10026	mg/L	0.010404	10.38%
Ba 233.527†	1269299.1	12.892	mg/L	0.1433	12.892	mg/L	0.1433	1.11%
Be 313.107†	-40946.6	-0.00190	mg/L	0.000048	-0.00190	mg/L	0.000048	2.54%
Co 228.616†	25155.7	0.52539	mg/L	0.012316	0.52539	mg/L	0.012316	2.34%
Cr 267.716†	34956.7	0.46351	mg/L	0.009139	0.46351	mg/L	0.009139	1.97%
Cu 324.752†	980080.6	4.5151	mg/L	0.04697	4.5151	mg/L	0.04697	1.04%
Fe 273.955†	42315804.9	1701.5	mg/L	24.34	1701.5	mg/L	24.34	1.43%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	995892.6	56.069	mg/L	0.6191	56.069	mg/L	0.6191	1.10%
Mn 257.610†	7836572.0	12.876	mg/L	0.0637	12.876	mg/L	0.0637	0.49%
Ni 231.604†	21704.8	0.62270	mg/L	0.010829	0.62270	mg/L	0.010829	1.74%
Pb 220.353†	14337.0	1.9608	mg/L	0.03603	1.9608	mg/L	0.03603	1.84%
Sb 206.836†	265.0	0.01745	mg/L	0.010062	0.01745	mg/L	0.010062	57.66%
Se 196.026†	-1067.1	-0.09767	mg/L	0.026719	-0.09767	mg/L	0.026719	27.36%
Tl 190.801†	-607.8	-0.08706	mg/L	0.011203	-0.08706	mg/L	0.011203	12.87%
V 292.402†	220389.5	1.7802	mg/L	0.01837	1.7802	mg/L	0.01837	1.03%
Zn 206.200†	57387.9	1.4451	mg/L	0.02740	1.4451	mg/L	0.02740	1.90%
Cd 226.502†	12949.7	0.06406	mg/L	0.001305	0.06406	mg/L	0.001305	2.04%
Ti 334.940†	4382385.5	7.8283	mg/L	0.08087	7.8283	mg/L	0.08087	1.03%
Ca 227.546†	-1876.5	-11.604	mg/L	0.2533	-11.604	mg/L	0.2533	2.18%
Na 589.592	3920.7	0.90677	mg/L	0.012403	0.90677	mg/L	0.012403	1.37%
K 766.490	42899.9	35.781	mg/L	0.2095	35.781	mg/L	0.2095	0.59%

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Sequence No.: 44 **Autosampler Location: 62**
Sample ID: L1956-13A~SS-25 **Date Collected: 9/26/2012 10:22:52 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:02 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-13A~SS-25

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2297679.6	110.77	%	0.478				0.43%
Lu 261.542	1351454.5	92.29	%	0.718				0.78%
Ag 328.068†	-1146.5	-0.00628	mg/L	0.000888	-0.00628	mg/L	0.000888	14.14%
Al 308.215†	2461192.8	121.71	mg/L	0.792	121.71	mg/L	0.792	0.65%
As 188.979†	-22.9	0.08871	mg/L	0.002712	0.08871	mg/L	0.002712	3.06%
Ba 233.527†	1025715.4	10.417	mg/L	0.0597	10.417	mg/L	0.0597	0.57%
Be 313.107†	-19628.6	-0.00169	mg/L	0.000003	-0.00169	mg/L	0.000003	0.17%
Co 228.616†	22271.2	0.48292	mg/L	0.004414	0.48292	mg/L	0.004414	0.91%
Cr 267.716†	15696.1	0.20807	mg/L	0.001624	0.20807	mg/L	0.001624	0.78%
Cu 324.752†	278846.5	1.3430	mg/L	0.00665	1.3430	mg/L	0.00665	0.49%
Fe 273.955†	27736510.3	1115.3	mg/L	1.26	1115.3	mg/L	1.26	0.11%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	725467.3	40.844	mg/L	0.2493	40.844	mg/L	0.2493	0.61%
Mn 257.610†	3906526.1	6.4182	mg/L	0.04330	6.4182	mg/L	0.04330	0.67%
Ni 231.604†	14040.4	0.40381	mg/L	0.003390	0.40381	mg/L	0.003390	0.84%
Pb 220.353†	2236.3	0.29807	mg/L	0.002800	0.29807	mg/L	0.002800	0.94%
Sb 206.836†	181.4	0.01059	mg/L	0.002109	0.01059	mg/L	0.002109	19.91%
Se 196.026†	-528.3	0.08712	mg/L	0.006201	0.08712	mg/L	0.006201	7.12%
Tl 190.801†	-354.9	-0.03621	mg/L	0.004069	-0.03621	mg/L	0.004069	11.24%
V 292.402†	130686.1	1.0610	mg/L	0.00404	1.0610	mg/L	0.00404	0.38%
Zn 206.200†	41649.2	1.0387	mg/L	0.00883	1.0387	mg/L	0.00883	0.85%
Cd 226.502†	7180.3	0.02250	mg/L	0.000337	0.02250	mg/L	0.000337	1.50%
Ti 334.940†	1861974.7	3.3268	mg/L	0.01922	3.3268	mg/L	0.01922	0.58%

Ca 227.546†	13916.1	55.644	mg/L	0.3944	55.644	mg/L	0.3944	0.71%
Na 589.592	2472.3	0.57177	mg/L	0.006790	0.57177	mg/L	0.006790	1.19%
K 766.490	29503.9	24.608	mg/L	0.0645	24.608	mg/L	0.0645	0.26%

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Sequence No.: 45 **Autosampler Location: 63**
Sample ID: L1956-14A~SS-26 **Date Collected: 9/26/2012 10:26:52 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:03 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-14A~SS-26

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2015670.5	97.176	%	0.3289				0.34%
Lu 261.542	1343866.1	91.78	%	0.705				0.77%
Ag 328.068†	-3071.6	-0.01595	mg/L	0.000230	-0.01595	mg/L	0.000230	1.44%
Al 308.215†	1995592.9	98.689	mg/L	0.4194	98.689	mg/L	0.4194	0.42%
As 188.979†	-263.4	0.00912	mg/L	0.008129	0.00912	mg/L	0.008129	89.13%
Ba 233.527†	295255.4	3.0016	mg/L	0.00722	3.0016	mg/L	0.00722	0.24%
Be 313.107†	-25943.3	-0.00086	mg/L	0.000019	-0.00086	mg/L	0.000019	2.20%
Co 228.616†	23786.9	0.49737	mg/L	0.005120	0.49737	mg/L	0.005120	1.03%
Cr 267.716†	22457.5	0.29792	mg/L	0.001384	0.29792	mg/L	0.001384	0.46%
Cu 324.752†	200932.8	1.0602	mg/L	0.00180	1.0602	mg/L	0.00180	0.17%
Fe 273.955†	44832412.3	1802.7	mg/L	12.79	1802.7	mg/L	12.79	0.71%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	488959.3	27.528	mg/L	0.0679	27.528	mg/L	0.0679	0.25%
Mn 257.610†	5748876.1	9.4457	mg/L	0.04426	9.4457	mg/L	0.04426	0.47%
Ni 231.604†	20992.1	0.60382	mg/L	0.002491	0.60382	mg/L	0.002491	0.41%
Pb 220.353†	3438.1	0.44969	mg/L	0.006006	0.44969	mg/L	0.006006	1.34%
Sb 206.836†	260.5	0.01429	mg/L	0.002280	0.01429	mg/L	0.002280	15.96%
Se 196.026†	-1152.2	-0.12540	mg/L	0.004645	-0.12540	mg/L	0.004645	3.70%
Tl 190.801†	-673.2	-0.11447	mg/L	0.005726	-0.11447	mg/L	0.005726	5.00%
V 292.402†	298978.8	2.4079	mg/L	0.00546	2.4079	mg/L	0.00546	0.23%
Zn 206.200†	33972.6	0.89622	mg/L	0.002822	0.89622	mg/L	0.002822	0.31%
Cd 226.502†	13690.6	0.06752	mg/L	0.000669	0.06752	mg/L	0.000669	0.99%
Ti 334.940†	2868998.4	5.1244	mg/L	0.02674	5.1244	mg/L	0.02674	0.52%
Ca 227.546†	-11078.0	-50.180	mg/L	0.2046	-50.180	mg/L	0.2046	0.41%
Na 589.592	1681.3	0.38885	mg/L	0.004523	0.38885	mg/L	0.004523	1.16%
K 766.490	11788.0	9.8319	mg/L	0.03661	9.8319	mg/L	0.03661	0.37%

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Sequence No.: 46 **Autosampler Location: 64**
Sample ID: L1956-15A~SS-27 **Date Collected: 9/26/2012 10:31:00 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:04 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-15A~SS-27

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2088255.6	100.68	%	0.834				0.83%
Lu 261.542	1363832.6	93.14	%	0.644				0.69%
Ag 328.068†	-1405.4	-0.00753	mg/L	0.000653	-0.00753	mg/L	0.000653	8.68%
Al 308.215†	2349162.8	116.17	mg/L	1.336	116.17	mg/L	1.336	1.15%
As 188.979†	-87.8	0.07667	mg/L	0.002401	0.07667	mg/L	0.002401	3.13%
Ba 233.527†	475024.5	4.8260	mg/L	0.02499	4.8260	mg/L	0.02499	0.52%
Be 313.107†	-30528.4	-0.00062	mg/L	0.000172	-0.00062	mg/L	0.000172	27.70%
Co 228.616†	21374.9	0.44821	mg/L	0.002353	0.44821	mg/L	0.002353	0.52%
Cr 267.716†	19290.7	0.25536	mg/L	0.002333	0.25536	mg/L	0.002333	0.91%
Cu 324.752†	410363.1	1.9549	mg/L	0.00869	1.9549	mg/L	0.00869	0.44%
Fe 273.955†	35030341.9	1408.5	mg/L	0.78	1408.5	mg/L	0.78	0.06%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	720532.6	40.566	mg/L	0.2059	40.566	mg/L	0.2059	0.51%
Mn 257.610†	6189729.8	10.170	mg/L	0.1215	10.170	mg/L	0.1215	1.20%
Ni 231.604†	19205.3	0.55142	mg/L	0.002958	0.55142	mg/L	0.002958	0.54%
Pb 220.353†	56240.9	7.7387	mg/L	0.04420	7.7387	mg/L	0.04420	0.57%

Sb 206.836†	155.9	-0.00896	mg/L	0.004305	-0.00896	mg/L	0.004305	48.03%
Se 196.026†	-812.3	-0.01784	mg/L	0.004760	-0.01784	mg/L	0.004760	26.69%
Tl 190.801†	-492.5	-0.06838	mg/L	0.003550	-0.06838	mg/L	0.003550	5.19%
V 292.402†	204252.8	1.6463	mg/L	0.00831	1.6463	mg/L	0.00831	0.50%
Zn 206.200†	48309.8	1.2139	mg/L	0.00794	1.2139	mg/L	0.00794	0.65%
Cd 226.502†	9826.6	0.03982	mg/L	0.001958	0.03982	mg/L	0.001958	4.92%
Ti 334.940†	3506537.7	6.2639	mg/L	0.06623	6.2639	mg/L	0.06623	1.06%
Ca 227.546†	-569.7	-5.4919	mg/L	0.12428	-5.4919	mg/L	0.12428	2.26%
Na 589.592	3740.9	0.86517	mg/L	0.022132	0.86517	mg/L	0.022132	2.56%
K 766.490	18297.6	15.261	mg/L	0.1286	15.261	mg/L	0.1286	0.84%

Sequence No.: 47 **Autosampler Location: 65**
Sample ID: L1956-16A~SS-28 **Date Collected: 9/26/2012 10:34:59 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:05 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-16A~SS-28

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2008972.4	96.853	%	0.1887				0.19%
Lu 261.542	1403278.3	95.83	%	0.194				0.20%
Ag 328.068†	239.0	0.00164	mg/L	0.000147	0.00164	mg/L	0.000147	8.93%
Al 308.215†	295161.4	14.581	mg/L	0.0423	14.581	mg/L	0.0423	0.29%
As 188.979†	-22.8	0.01318	mg/L	0.002176	0.01318	mg/L	0.002176	16.51%
Ba 233.527†	148539.3	1.5087	mg/L	0.00377	1.5087	mg/L	0.00377	0.25%
Be 313.107†	-9910.3	-0.00104	mg/L	0.000046	-0.00104	mg/L	0.000046	4.44%
Co 228.616†	5618.7	0.12024	mg/L	0.000403	0.12024	mg/L	0.000403	0.34%
Cr 267.716†	4745.4	0.06301	mg/L	0.000234	0.06301	mg/L	0.000234	0.37%
Cu 324.752†	54879.4	0.26954	mg/L	0.000859	0.26954	mg/L	0.000859	0.32%
Fe 273.955†	6867298.8	276.13	mg/L	0.126	276.13	mg/L	0.126	0.05%
Mg 279.077†	200546.3	11.291	mg/L	0.0536	11.291	mg/L	0.0536	0.48%
Mn 257.610†	835195.1	1.3721	mg/L	0.00065	1.3721	mg/L	0.00065	0.05%
Ni 231.604†	4072.2	0.11675	mg/L	0.000403	0.11675	mg/L	0.000403	0.34%
Pb 220.353†	3679.9	0.50425	mg/L	0.004298	0.50425	mg/L	0.004298	0.85%
Sb 206.836†	32.7	-0.00052	mg/L	0.004235	-0.00052	mg/L	0.004235	809.72%
Se 196.026†	-123.9	0.02750	mg/L	0.002338	0.02750	mg/L	0.002338	8.50%
Tl 190.801†	-79.9	-0.00562	mg/L	0.001826	-0.00562	mg/L	0.001826	32.50%
V 292.402†	33170.2	0.26810	mg/L	0.001343	0.26810	mg/L	0.001343	0.50%
Zn 206.200†	51373.3	1.2202	mg/L	0.00435	1.2202	mg/L	0.00435	0.36%
Cd 226.502†	1955.8	0.00802	mg/L	0.000019	0.00802	mg/L	0.000019	0.24%
Ti 334.940†	886211.0	1.5845	mg/L	0.00063	1.5845	mg/L	0.00063	0.04%
Ca 227.546†	20681.0	85.754	mg/L	0.3335	85.754	mg/L	0.3335	0.39%
Na 589.592	853.6	0.19741	mg/L	0.005326	0.19741	mg/L	0.005326	2.70%
K 766.490	9678.8	8.0726	mg/L	0.05863	8.0726	mg/L	0.05863	0.73%

Sequence No.: 48 **Autosampler Location: 66**
Sample ID: L1956-01A~SS-14 20xFe **Date Collected: 9/26/2012 10:38:43 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:05 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-01A~SS-14 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2077573.7	100.16	%	0.298				0.30%
Lu 261.542	1466755.3	100.2	%	0.35				0.35%
Ag 328.068†	217.9	0.00120	mg/L	0.000257	0.00120	mg/L	0.000257	21.45%
Al 308.215†	99709.6	4.9297	mg/L	0.04532	4.9297	mg/L	0.04532	0.92%
As 188.979†	3.0	0.01144	mg/L	0.002927	0.01144	mg/L	0.002927	25.59%
Ba 233.527†	21899.8	0.22243	mg/L	0.001640	0.22243	mg/L	0.001640	0.74%
Be 313.107†	-1052.5	0.00007	mg/L	0.000013	0.00007	mg/L	0.000013	18.69%
Co 228.616†	1106.9	0.02255	mg/L	0.000221	0.02255	mg/L	0.000221	0.98%
Cr 267.716†	2356.8	0.03123	mg/L	0.000105	0.03123	mg/L	0.000105	0.34%
Cu 324.752†	23833.9	0.11576	mg/L	0.000859	0.11576	mg/L	0.000859	0.74%

Fe 273.955†	2637144.3	106.04	mg/L	0.164	106.04	mg/L	0.164	0.15%
Mg 279.077†	46230.7	2.6028	mg/L	0.02541	2.6028	mg/L	0.02541	0.98%
Mn 257.610†	494328.9	0.81221	mg/L	0.001571	0.81221	mg/L	0.001571	0.19%
Ni 231.604†	1315.6	0.03787	mg/L	0.000414	0.03787	mg/L	0.000414	1.09%
Pb 220.353†	6021.9	0.82854	mg/L	0.004905	0.82854	mg/L	0.004905	0.59%
Sb 206.836†	16.3	0.00081	mg/L	0.001650	0.00081	mg/L	0.001650	203.96%
Se 196.026†	-44.6	0.01327	mg/L	0.004525	0.01327	mg/L	0.004525	34.10%
Tl 190.801†	-28.3	-0.00026	mg/L	0.001784	-0.00026	mg/L	0.001784	684.03%
V 292.402†	4067.4	0.03503	mg/L	0.000959	0.03503	mg/L	0.000959	2.74%
Zn 206.200†	47642.7	1.1227	mg/L	0.00933	1.1227	mg/L	0.00933	0.83%
Cd 226.502†	649.6	0.00166	mg/L	0.000229	0.00166	mg/L	0.000229	13.77%
Ti 334.940†	148813.8	0.26585	mg/L	0.002095	0.26585	mg/L	0.002095	0.79%
Ca 227.546†	488.6	1.8133	mg/L	0.02739	1.8133	mg/L	0.02739	1.51%
Na 589.592	626.0	0.14479	mg/L	0.017415	0.14479	mg/L	0.017415	12.03%
K 766.490	825.0	0.68809	mg/L	0.012004	0.68809	mg/L	0.012004	1.74%

Sequence No.: 49 **Autosampler Location: 67**
Sample ID: L1956-02A~SS-15 20xFe **Date Collected: 9/26/2012 10:42:24 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:06 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-02A~SS-15 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2102093.7	101.34	%	0.683				0.67%
Lu 261.542	1478575.6	101.0	%	0.71				0.70%
Ag 328.068†	277.5	0.00156	mg/L	0.000324	0.00156	mg/L	0.000324	20.83%
Al 308.215†	121364.7	5.9996	mg/L	0.03903	5.9996	mg/L	0.03903	0.65%
As 188.979†	8.5	0.00823	mg/L	0.000699	0.00823	mg/L	0.000699	8.50%
Ba 233.527†	12162.4	0.12355	mg/L	0.001109	0.12355	mg/L	0.001109	0.90%
Be 313.107†	-4449.8	-0.00038	mg/L	0.000027	-0.00038	mg/L	0.000027	7.24%
Co 228.616†	1947.6	0.04266	mg/L	0.000321	0.04266	mg/L	0.000321	0.75%
Cr 267.716†	1030.0	0.01357	mg/L	0.000183	0.01357	mg/L	0.000183	1.35%
Cu 324.752†	21139.4	0.09721	mg/L	0.000372	0.09721	mg/L	0.000372	0.38%
Fe 273.955†	865395.4	34.797	mg/L	0.0231	34.797	mg/L	0.0231	0.07%
Mg 279.077†	130992.7	7.3750	mg/L	0.04209	7.3750	mg/L	0.04209	0.57%
Mn 257.610†	476194.5	0.78231	mg/L	0.000289	0.78231	mg/L	0.000289	0.04%
Ni 231.604†	1355.7	0.03871	mg/L	0.000477	0.03871	mg/L	0.000477	1.23%
Pb 220.353†	93.0	0.01336	mg/L	0.001240	0.01336	mg/L	0.001240	9.28%
Sb 206.836†	-1.7	-0.00177	mg/L	0.002610	-0.00177	mg/L	0.002610	147.60%
Se 196.026†	-14.2	0.00517	mg/L	0.004187	0.00517	mg/L	0.004187	81.05%
Tl 190.801†	-1.2	0.00458	mg/L	0.001912	0.00458	mg/L	0.001912	41.78%
V 292.402†	3919.0	0.03093	mg/L	0.000235	0.03093	mg/L	0.000235	0.76%
Zn 206.200†	5231.7	0.12542	mg/L	0.000854	0.12542	mg/L	0.000854	0.68%
Cd 226.502†	193.2	0.00025	mg/L	0.000067	0.00025	mg/L	0.000067	26.95%
Ti 334.940†	425750.1	0.76055	mg/L	0.001510	0.76055	mg/L	0.001510	0.20%
Ca 227.546†	733.8	2.9686	mg/L	0.04851	2.9686	mg/L	0.04851	1.63%
Na 589.592	181.0	0.04186	mg/L	0.009451	0.04186	mg/L	0.009451	22.58%
K 766.490	3201.8	2.6705	mg/L	0.05604	2.6705	mg/L	0.05604	2.10%

Sequence No.: 50 **Autosampler Location: 68**
Sample ID: L1956-03A~SS-16 20xFe **Date Collected: 9/26/2012 10:45:55 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:07 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-03A~SS-16 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2085530.3	100.54	%	0.209				0.21%
Lu 261.542	1473076.8	100.6	%	0.29				0.29%
Ag 328.068†	338.4	0.00200	mg/L	0.000499	0.00200	mg/L	0.000499	24.96%
Al 308.215†	161293.1	7.9769	mg/L	0.09267	7.9769	mg/L	0.09267	1.16%
As 188.979†	-1.9	0.00544	mg/L	0.003295	0.00544	mg/L	0.003295	60.61%

Ba 233.527†	17661.7	0.17940	mg/L	0.001714	0.17940	mg/L	0.001714	0.96%
Be 313.107†	-501.4	0.00003	mg/L	0.000019	0.00003	mg/L	0.000019	71.31%
Co 228.616†	1428.7	0.03116	mg/L	0.000298	0.03116	mg/L	0.000298	0.96%
Cr 267.716†	824.4	0.01089	mg/L	0.000154	0.01089	mg/L	0.000154	1.41%
Cu 324.752†	31017.9	0.14466	mg/L	0.001974	0.14466	mg/L	0.001974	1.36%
Fe 273.955†	1814721.9	72.969	mg/L	0.2266	72.969	mg/L	0.2266	0.31%
Mg 279.077†	52671.1	2.9654	mg/L	0.04234	2.9654	mg/L	0.04234	1.43%
Mn 257.610†	301769.7	0.49579	mg/L	0.005486	0.49579	mg/L	0.005486	1.11%
Ni 231.604†	857.7	0.02471	mg/L	0.000670	0.02471	mg/L	0.000670	2.71%
Pb 220.353†	26.2	0.00284	mg/L	0.000788	0.00284	mg/L	0.000788	27.79%
Sb 206.836†	10.1	-0.00024	mg/L	0.001605	-0.00024	mg/L	0.001605	671.39%
Se 196.026†	-27.9	0.01162	mg/L	0.002642	0.01162	mg/L	0.002642	22.73%
Tl 190.801†	-18.3	0.00042	mg/L	0.001557	0.00042	mg/L	0.001557	371.26%
V 292.402†	4894.1	0.04067	mg/L	0.000883	0.04067	mg/L	0.000883	2.17%
Zn 206.200†	2779.7	0.06920	mg/L	0.000380	0.06920	mg/L	0.000380	0.55%
Cd 226.502†	379.3	0.00015	mg/L	0.000145	0.00015	mg/L	0.000145	98.82%
Ti 334.940†	68463.1	0.12224	mg/L	0.001809	0.12224	mg/L	0.001809	1.48%
Ca 227.546†	-225.9	-1.1045	mg/L	0.03493	-1.1045	mg/L	0.03493	3.16%
Na 589.592	-169.3	-0.03915	mg/L	0.011434	-0.03915	mg/L	0.011434	29.20%
K 766.490	680.8	0.56782	mg/L	0.022145	0.56782	mg/L	0.022145	3.90%

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Sequence No.: 51 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 10:49:35 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:08 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.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2047534.3	98.713	%	0.5562				0.56%
Lu 261.542	1456399.9	99.46	%	0.579				0.58%
Ag 328.068†	209123.1	1.2593	mg/L	0.01990	1.2593	mg/L	0.01990	1.58%
QC value within limits for Ag 328.068 Recovery = 100.74%								
Al 308.215†	192269.4	9.5009	mg/L	0.15420	9.5009	mg/L	0.15420	1.62%
QC value within limits for Al 308.215 Recovery = 95.01%								
As 188.979†	819.4	0.48719	mg/L	0.004959	0.48719	mg/L	0.004959	1.02%
QC value within limits for As 188.979 Recovery = 97.44%								
Ba 233.527†	981505.8	9.9704	mg/L	0.00747	9.9704	mg/L	0.00747	0.07%
QC value within limits for Ba 233.527 Recovery = 99.70%								
Be 313.107†	610562.7	0.24506	mg/L	0.000057	0.24506	mg/L	0.000057	0.02%
QC value within limits for Be 313.107 Recovery = 98.03%								
Co 228.616†	108273.1	2.5146	mg/L	0.04262	2.5146	mg/L	0.04262	1.69%
QC value within limits for Co 228.616 Recovery = 100.59%								
Cr 267.716†	71893.3	0.95781	mg/L	0.017236	0.95781	mg/L	0.017236	1.80%
QC value within limits for Cr 267.716 Recovery = 95.78%								
Cu 324.752†	263679.7	1.1736	mg/L	0.02058	1.1736	mg/L	0.02058	1.75%
QC value within limits for Cu 324.752 Recovery = 93.89%								
Fe 273.955†	123183.3	4.9571	mg/L	0.08525	4.9571	mg/L	0.08525	1.72%
QC value within limits for Fe 273.955 Recovery = 99.14%								
Mg 279.077†	440998.9	24.826	mg/L	0.0075	24.826	mg/L	0.0075	0.03%
QC value within limits for Mg 279.077 Recovery = 99.31%								
Mn 257.610†	1521724.4	2.4998	mg/L	0.00202	2.4998	mg/L	0.00202	0.08%
QC value within limits for Mn 257.610 Recovery = 99.99%								
Ni 231.604†	85932.3	2.4837	mg/L	0.04230	2.4837	mg/L	0.04230	1.70%
QC value within limits for Ni 231.604 Recovery = 99.35%								
Pb 220.353†	3531.7	0.48857	mg/L	0.004204	0.48857	mg/L	0.004204	0.86%
QC value within limits for Pb 220.353 Recovery = 97.71%								
Sb 206.836†	1250.0	0.52361	mg/L	0.006347	0.52361	mg/L	0.006347	1.21%
QC value within limits for Sb 206.836 Recovery = 104.72%								
Se 196.026†	525.0	0.47521	mg/L	0.005872	0.47521	mg/L	0.005872	1.24%
QC value within limits for Se 196.026 Recovery = 95.04%								
Tl 190.801†	938.0	0.46751	mg/L	0.002743	0.46751	mg/L	0.002743	0.59%
QC value within limits for Tl 190.801 Recovery = 93.50%								
V 292.402†	307092.8	2.4246	mg/L	0.04165	2.4246	mg/L	0.04165	1.72%
QC value within limits for V 292.402 Recovery = 96.98%								
Zn 206.200†	105784.9	2.4849	mg/L	0.04719	2.4849	mg/L	0.04719	1.90%
QC value within limits for Zn 206.200 Recovery = 99.40%								

```
Cd 226.502†            16515.9     0.24428 mg/L      0.005069     0.24428 mg/L      0.005069   2.08%
   QC value within limits for Cd 226.502  Recovery = 97.71%
Ti 334.940†           264796.5     0.47282 mg/L      0.000661     0.47282 mg/L      0.000661   0.14%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             5811.8      23.462 mg/L        0.1829      23.462 mg/L        0.1829   0.78%
   QC value within limits for Ca 227.546  Recovery = 93.85%
Na 589.592            107476.5      24.857 mg/L        0.0916      24.857 mg/L        0.0916   0.37%
   QC value within limits for Na 589.592  Recovery = 99.43%
K 766.490              30425.7      25.377 mg/L        0.1136      25.377 mg/L        0.1136   0.45%
   QC value within limits for K 766.490  Recovery = 101.51%
All analyte(s) passed QC.
```

Sequence No.: 52 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 10:53:17 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:08 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2081103.7	100.33	%	0.977				0.97%
Lu 261.542	1474721.9	100.7	%	1.03				1.02%
Ag 328.068†	357.2	0.00214	mg/L	0.000076	0.00214	mg/L	0.000076	3.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-179.7	-0.00889	mg/L	0.003046	-0.00889	mg/L	0.003046	34.26%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.0	0.00116	mg/L	0.001424	0.00116	mg/L	0.001424	122.79%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	107.4	0.00109	mg/L	0.000318	0.00109	mg/L	0.000318	29.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1.7	0.00000	mg/L	0.000012	0.00000	mg/L	0.000012	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	21.5	0.00050	mg/L	0.000147	0.00050	mg/L	0.000147	29.33%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-2.4	-0.00003	mg/L	0.000123	-0.00003	mg/L	0.000123	391.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	22.3	0.00010	mg/L	0.000382	0.00010	mg/L	0.000382	381.57%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	243.8	0.00980	mg/L	0.001297	0.00980	mg/L	0.001297	13.23%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	87.4	0.00492	mg/L	0.004976	0.00492	mg/L	0.004976	101.16%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	168.8	0.00028	mg/L	0.000134	0.00028	mg/L	0.000134	48.28%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	3.5	0.00010	mg/L	0.000160	0.00010	mg/L	0.000160	158.65%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-8.2	-0.00113	mg/L	0.000792	-0.00113	mg/L	0.000792	70.20%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.5	0.00110	mg/L	0.002434	0.00110	mg/L	0.002434	221.11%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.2	0.00290	mg/L	0.005828	0.00290	mg/L	0.005828	200.80%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-1.5	-0.00078	mg/L	0.001824	-0.00078	mg/L	0.001824	234.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	58.3	0.00046	mg/L	0.000504	0.00046	mg/L	0.000504	109.51%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-52.3	-0.00122	mg/L	0.000217	-0.00122	mg/L	0.000217	17.74%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	11.3	0.00017	mg/L	0.000056	0.00017	mg/L	0.000056	33.43%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	86.5	0.00015	mg/L	0.000029	0.00015	mg/L	0.000029	18.88%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	3.2	0.01302	mg/L	0.059042	0.01302	mg/L	0.059042	453.37%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592	-147.8	-0.03419	mg/L	0.006636	-0.03419	mg/L	0.006636	19.41%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	-88.6	-0.07390	mg/L	0.052182	-0.07390	mg/L	0.052182	70.61%

QC value within limits for K 766.490 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 53 **Autosampler Location: 69**
Sample ID: L1956-04A~SS-17 20xFe **Date Collected: 9/26/2012 10:56:56 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:09 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-04A~SS-17 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2107037.7	101.58	%	0.961				0.95%
Lu 261.542	1483280.4	101.3	%	1.04				1.03%
Ag 328.068†	456.4	0.00275	mg/L	0.000454	0.00275	mg/L	0.000454	16.51%
Al 308.215†	106642.8	5.2733	mg/L	0.08888	5.2733	mg/L	0.08888	1.69%
As 188.979†	8.1	0.01092	mg/L	0.000884	0.01092	mg/L	0.000884	8.09%
Ba 233.527†	20914.9	0.21246	mg/L	0.003428	0.21246	mg/L	0.003428	1.61%
Be 313.107†	-1436.7	-0.00011	mg/L	0.000017	-0.00011	mg/L	0.000017	15.62%
Co 228.616†	934.2	0.01949	mg/L	0.000101	0.01949	mg/L	0.000101	0.52%
Cr 267.716†	834.6	0.01105	mg/L	0.000073	0.01105	mg/L	0.000073	0.66%
Cu 324.752†	12798.7	0.06318	mg/L	0.001138	0.06318	mg/L	0.001138	1.80%
Fe 273.955†	1687091.9	67.837	mg/L	0.2003	67.837	mg/L	0.2003	0.30%
Mg 279.077†	41268.1	2.3234	mg/L	0.03579	2.3234	mg/L	0.03579	1.54%
Mn 257.610†	249842.4	0.41048	mg/L	0.005802	0.41048	mg/L	0.005802	1.41%
Ni 231.604†	709.2	0.02035	mg/L	0.000279	0.02035	mg/L	0.000279	1.37%
Pb 220.353†	217.8	0.02928	mg/L	0.000646	0.02928	mg/L	0.000646	2.21%
Sb 206.836†	6.1	-0.00114	mg/L	0.000436	-0.00114	mg/L	0.000436	38.34%
Se 196.026†	-31.9	0.00553	mg/L	0.002598	0.00553	mg/L	0.002598	47.01%
Tl 190.801†	-15.6	0.00103	mg/L	0.002073	0.00103	mg/L	0.002073	200.77%
V 292.402†	6417.8	0.05239	mg/L	0.000789	0.05239	mg/L	0.000789	1.51%
Zn 206.200†	2523.5	0.06298	mg/L	0.000726	0.06298	mg/L	0.000726	1.15%
Cd 226.502†	352.7	0.00013	mg/L	0.000086	0.00013	mg/L	0.000086	66.66%
Ti 334.940†	140546.0	0.25108	mg/L	0.003598	0.25108	mg/L	0.003598	1.43%
Ca 227.546†	407.6	1.5542	mg/L	0.05096	1.5542	mg/L	0.05096	3.28%
Na 589.592	-84.5	-0.01954	mg/L	0.017307	-0.01954	mg/L	0.017307	88.58%
K 766.490	1409.1	1.1752	mg/L	0.04612	1.1752	mg/L	0.04612	3.92%

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Sequence No.: 54 **Autosampler Location: 70**
Sample ID: L1956-05A~SS-18 20xFe **Date Collected: 9/26/2012 11:00:36 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:10 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-05A~SS-18 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2058404.6	99.237	%	0.6165				0.62%
Lu 261.542	1448260.4	98.91	%	0.551				0.56%
Ag 328.068†	167.1	0.00100	mg/L	0.000339	0.00100	mg/L	0.000339	33.88%
Al 308.215†	115293.3	5.7008	mg/L	0.03780	5.7008	mg/L	0.03780	0.66%
As 188.979†	4.4	0.01000	mg/L	0.002246	0.01000	mg/L	0.002246	22.47%
Ba 233.527†	22323.1	0.22677	mg/L	0.001923	0.22677	mg/L	0.001923	0.85%
Be 313.107†	-2647.2	-0.00026	mg/L	0.000021	-0.00026	mg/L	0.000021	7.95%
Co 228.616†	1151.0	0.02379	mg/L	0.000237	0.02379	mg/L	0.000237	0.99%
Cr 267.716†	1185.3	0.01570	mg/L	0.000128	0.01570	mg/L	0.000128	0.81%
Cu 324.752†	99967.0	0.45198	mg/L	0.002252	0.45198	mg/L	0.002252	0.50%
Fe 273.955†	2015887.2	81.057	mg/L	0.2733	81.057	mg/L	0.2733	0.34%
Mg 279.077†	58459.4	3.2913	mg/L	0.02330	3.2913	mg/L	0.02330	0.71%
Mn 257.610†	326907.8	0.53709	mg/L	0.003512	0.53709	mg/L	0.003512	0.65%
Ni 231.604†	846.9	0.02422	mg/L	0.000318	0.02422	mg/L	0.000318	1.31%
Pb 220.353†	678.6	0.09263	mg/L	0.002064	0.09263	mg/L	0.002064	2.23%
Sb 206.836†	9.7	-0.00014	mg/L	0.000989	-0.00014	mg/L	0.000989	719.84%
Se 196.026†	-32.0	0.01228	mg/L	0.003838	0.01228	mg/L	0.003838	31.24%
Tl 190.801†	-23.8	-0.00132	mg/L	0.002801	-0.00132	mg/L	0.002801	212.85%

V 292.402†	7506.9	0.06102	mg/L	0.000678	0.06102	mg/L	0.000678	1.11%
Zn 206.200†	7025.5	0.16951	mg/L	0.000940	0.16951	mg/L	0.000940	0.55%
Cd 226.502†	441.7	0.00046	mg/L	0.000090	0.00046	mg/L	0.000090	19.61%
Ti 334.940†	241506.1	0.43142	mg/L	0.001211	0.43142	mg/L	0.001211	0.28%
Ca 227.546†	194.3	0.63171	mg/L	0.084996	0.63171	mg/L	0.084996	13.45%
Na 589.592	24.9	0.00576	mg/L	0.017717	0.00576	mg/L	0.017717	307.76%
K 766.490	1605.0	1.3387	mg/L	0.03369	1.3387	mg/L	0.03369	2.52%

Sequence No.: 55 **Autosampler Location: 71**
Sample ID: L1956-06A~SS-19 20xFe **Date Collected: 9/26/2012 11:04:17 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:10 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-06A~SS-19 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2106777.3	101.57	%	0.271				0.27%
Lu 261.542	1485664.2	101.5	%	0.36				0.36%
Ag 328.068†	210.2	0.00124	mg/L	0.000678	0.00124	mg/L	0.000678	54.78%
Al 308.215†	145069.0	7.1733	mg/L	0.03171	7.1733	mg/L	0.03171	0.44%
As 188.979†	6.0	0.01051	mg/L	0.003150	0.01051	mg/L	0.003150	29.96%
Ba 233.527†	61886.2	0.62853	mg/L	0.002661	0.62853	mg/L	0.002661	0.42%
Be 313.107†	-1430.9	0.00003	mg/L	0.000014	0.00003	mg/L	0.000014	41.23%
Co 228.616†	1009.9	0.02084	mg/L	0.000086	0.02084	mg/L	0.000086	0.41%
Cr 267.716†	777.5	0.01024	mg/L	0.000103	0.01024	mg/L	0.000103	1.01%
Cu 324.752†	24540.9	0.11630	mg/L	0.000436	0.11630	mg/L	0.000436	0.37%
Fe 273.955†	1932255.6	77.695	mg/L	0.1476	77.695	mg/L	0.1476	0.19%
Mg 279.077†	55049.6	3.0993	mg/L	0.01131	3.0993	mg/L	0.01131	0.36%
Mn 257.610†	417441.4	0.68586	mg/L	0.000969	0.68586	mg/L	0.000969	0.14%
Ni 231.604†	800.5	0.02294	mg/L	0.000151	0.02294	mg/L	0.000151	0.66%
Pb 220.353†	40.5	0.00487	mg/L	0.000348	0.00487	mg/L	0.000348	7.14%
Sb 206.836†	4.9	-0.00220	mg/L	0.000534	-0.00220	mg/L	0.000534	24.24%
Se 196.026†	-33.1	0.00942	mg/L	0.005020	0.00942	mg/L	0.005020	53.31%
Tl 190.801†	-20.6	-0.00014	mg/L	0.000775	-0.00014	mg/L	0.000775	560.44%
V 292.402†	8124.9	0.06603	mg/L	0.000264	0.06603	mg/L	0.000264	0.40%
Zn 206.200†	2180.4	0.05563	mg/L	0.000436	0.05563	mg/L	0.000436	0.78%
Cd 226.502†	400.6	0.00010	mg/L	0.000133	0.00010	mg/L	0.000133	134.83%
Ti 334.940†	183577.4	0.32795	mg/L	0.001609	0.32795	mg/L	0.001609	0.49%
Ca 227.546†	492.1	1.8843	mg/L	0.03418	1.8843	mg/L	0.03418	1.81%
Na 589.592	50.7	0.01174	mg/L	0.032562	0.01174	mg/L	0.032562	277.44%
K 766.490	1653.8	1.3793	mg/L	0.10064	1.3793	mg/L	0.10064	7.30%

Sequence No.: 56 **Autosampler Location: 72**
Sample ID: L1956-07A~SS-20 20xFe **Date Collected: 9/26/2012 11:07:58 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:11 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-07A~SS-20 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2086639.2	100.60	%	0.669				0.67%
Lu 261.542	1474261.9	100.7	%	0.76				0.75%
Ag 328.068†	260.6	0.00164	mg/L	0.000569	0.00164	mg/L	0.000569	34.63%
Al 308.215†	133930.9	6.6231	mg/L	0.07341	6.6231	mg/L	0.07341	1.11%
As 188.979†	-5.8	0.00719	mg/L	0.003237	0.00719	mg/L	0.003237	45.04%
Ba 233.527†	92289.9	0.93732	mg/L	0.009731	0.93732	mg/L	0.009731	1.04%
Be 313.107†	-1655.4	-0.00009	mg/L	0.000011	-0.00009	mg/L	0.000011	12.47%
Co 228.616†	1222.9	0.02488	mg/L	0.000349	0.02488	mg/L	0.000349	1.40%
Cr 267.716†	1162.9	0.01542	mg/L	0.000406	0.01542	mg/L	0.000406	2.63%
Cu 324.752†	28804.3	0.13888	mg/L	0.001903	0.13888	mg/L	0.001903	1.37%
Fe 273.955†	2907203.8	116.90	mg/L	0.599	116.90	mg/L	0.599	0.51%
Mg 279.077†	42538.9	2.3950	mg/L	0.02494	2.3950	mg/L	0.02494	1.04%
Mn 257.610†	302397.5	0.49684	mg/L	0.004883	0.49684	mg/L	0.004883	0.98%

Ni 231.604†	1025.7	0.02946	mg/L	0.000309	0.02946	mg/L	0.000309	1.05%
Pb 220.353†	133.2	0.01674	mg/L	0.000238	0.01674	mg/L	0.000238	1.42%
Sb 206.836†	10.9	-0.00177	mg/L	0.001966	-0.00177	mg/L	0.001966	110.85%
Se 196.026†	-52.7	0.01151	mg/L	0.005138	0.01151	mg/L	0.005138	44.64%
Tl 190.801†	-29.4	0.00028	mg/L	0.002348	0.00028	mg/L	0.002348	849.62%
V 292.402†	12220.9	0.09959	mg/L	0.001061	0.09959	mg/L	0.001061	1.07%
Zn 206.200†	2119.5	0.05610	mg/L	0.000588	0.05610	mg/L	0.000588	1.05%
Cd 226.502†	605.7	0.00020	mg/L	0.000195	0.00020	mg/L	0.000195	97.71%
Ti 334.940†	173240.2	0.30946	mg/L	0.004171	0.30946	mg/L	0.004171	1.35%
Ca 227.546†	-47.1	-0.44677	mg/L	0.010245	-0.44677	mg/L	0.010245	2.29%
Na 589.592	30.6	0.00708	mg/L	0.005377	0.00708	mg/L	0.005377	75.93%
K 766.490	589.6	0.49172	mg/L	0.051987	0.49172	mg/L	0.051987	10.57%

Sequence No.: 57 **Autosampler Location: 73**
Sample ID: L1956-08A~SS-21 20xFe **Date Collected: 9/26/2012 11:11:39 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:12 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-08A~SS-21 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2047366.7	98.704	%	0.5766				0.58%
Lu 261.542	1449709.4	99.00	%	0.498				0.50%
Ag 328.068†	159.2	0.00106	mg/L	0.001145	0.00106	mg/L	0.001145	107.63%
Al 308.215†	75179.1	3.7176	mg/L	0.02028	3.7176	mg/L	0.02028	0.55%
As 188.979†	-6.1	0.00633	mg/L	0.003076	0.00633	mg/L	0.003076	48.62%
Ba 233.527†	11613.4	0.11808	mg/L	0.001067	0.11808	mg/L	0.001067	0.90%
Be 313.107†	-1565.3	-0.00013	mg/L	0.000032	-0.00013	mg/L	0.000032	24.80%
Co 228.616†	1283.8	0.02658	mg/L	0.000449	0.02658	mg/L	0.000449	1.69%
Cr 267.716†	1175.8	0.01560	mg/L	0.000121	0.01560	mg/L	0.000121	0.77%
Cu 324.752†	12854.9	0.06726	mg/L	0.000439	0.06726	mg/L	0.000439	0.65%
Fe 273.955†	2718546.4	109.31	mg/L	0.154	109.31	mg/L	0.154	0.14%
Mg 279.077†	19878.7	1.1192	mg/L	0.01000	1.1192	mg/L	0.01000	0.89%
Mn 257.610†	265035.7	0.43547	mg/L	0.002075	0.43547	mg/L	0.002075	0.48%
Ni 231.604†	1004.8	0.02889	mg/L	0.000072	0.02889	mg/L	0.000072	0.25%
Pb 220.353†	22.4	0.00138	mg/L	0.000358	0.00138	mg/L	0.000358	25.88%
Sb 206.836†	10.6	-0.00131	mg/L	0.001020	-0.00131	mg/L	0.001020	77.95%
Se 196.026†	-48.1	0.01182	mg/L	0.007398	0.01182	mg/L	0.007398	62.59%
Tl 190.801†	-29.7	-0.00106	mg/L	0.001410	-0.00106	mg/L	0.001410	133.59%
V 292.402†	13364.8	0.10847	mg/L	0.000780	0.10847	mg/L	0.000780	0.72%
Zn 206.200†	1659.1	0.04484	mg/L	0.000119	0.04484	mg/L	0.000119	0.27%
Cd 226.502†	579.6	0.00039	mg/L	0.000179	0.00039	mg/L	0.000179	46.12%
Ti 334.940†	149571.2	0.26717	mg/L	0.003050	0.26717	mg/L	0.003050	1.14%
Ca 227.546†	-433.8	-2.0458	mg/L	0.05237	-2.0458	mg/L	0.05237	2.56%
Na 589.592	-81.6	-0.01886	mg/L	0.012396	-0.01886	mg/L	0.012396	65.72%
K 766.490	400.7	0.33418	mg/L	0.066551	0.33418	mg/L	0.066551	19.91%

Sequence No.: 58 **Autosampler Location: 74**
Sample ID: L1956-09A~SS-22 20xFe **Date Collected: 9/26/2012 11:15:20 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:13 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-09A~SS-22 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2089939.2	100.76	%	0.817				0.81%
Lu 261.542	1478697.6	101.0	%	0.87				0.86%
Ag 328.068†	275.6	0.00172	mg/L	0.000680	0.00172	mg/L	0.000680	39.53%
Al 308.215†	161945.8	8.0086	mg/L	0.04269	8.0086	mg/L	0.04269	0.53%
As 188.979†	-3.0	0.00875	mg/L	0.000617	0.00875	mg/L	0.000617	7.05%
Ba 233.527†	52982.6	0.53817	mg/L	0.003494	0.53817	mg/L	0.003494	0.65%
Be 313.107†	-1477.2	0.00012	mg/L	0.000010	0.00012	mg/L	0.000010	8.05%
Co 228.616†	1301.6	0.02655	mg/L	0.000260	0.02655	mg/L	0.000260	0.98%

Cr 267.716†	1283.8	0.01700	mg/L	0.000231	0.01700	mg/L	0.000231	1.36%
Cu 324.752†	11267.2	0.06084	mg/L	0.000383	0.06084	mg/L	0.000383	0.63%
Fe 273.955†	2889757.3	116.20	mg/L	0.145	116.20	mg/L	0.145	0.12%
Mg 279.077†	53347.9	3.0035	mg/L	0.01780	3.0035	mg/L	0.01780	0.59%
Mn 257.610†	382138.0	0.62785	mg/L	0.000956	0.62785	mg/L	0.000956	0.15%
Ni 231.604†	1046.4	0.03002	mg/L	0.000182	0.03002	mg/L	0.000182	0.61%
Pb 220.353†	29.5	0.00270	mg/L	0.001729	0.00270	mg/L	0.001729	64.16%
Sb 206.836†	10.6	-0.00182	mg/L	0.002146	-0.00182	mg/L	0.002146	117.72%
Se 196.026†	-51.1	0.01265	mg/L	0.005791	0.01265	mg/L	0.005791	45.79%
Tl 190.801†	-32.8	-0.00152	mg/L	0.002835	-0.00152	mg/L	0.002835	186.63%
V 292.402†	13260.3	0.10770	mg/L	0.000488	0.10770	mg/L	0.000488	0.45%
Zn 206.200†	2404.1	0.06283	mg/L	0.000819	0.06283	mg/L	0.000819	1.30%
Cd 226.502†	603.3	0.00022	mg/L	0.000169	0.00022	mg/L	0.000169	77.05%
Ti 334.940†	216143.6	0.38609	mg/L	0.002012	0.38609	mg/L	0.002012	0.52%
Ca 227.546†	-238.4	-1.2463	mg/L	0.05991	-1.2463	mg/L	0.05991	4.81%
Na 589.592	-6.7	-0.00155	mg/L	0.023330	-0.00155	mg/L	0.023330	>999.9%
K 766.490	1701.5	1.4191	mg/L	0.10150	1.4191	mg/L	0.10150	7.15%

Sequence No.: 59 **Autosampler Location: 75**
Sample ID: L1956-10A~SS-23 20xFe **Date Collected: 9/26/2012 11:19:01 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:13 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-10A~SS-23 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2090668.7	100.79	%	0.998				0.99%
Lu 261.542	1477848.8	100.9	%	0.99				0.98%
Ag 328.068†	120.8	0.00085	mg/L	0.000413	0.00085	mg/L	0.000413	48.85%
Al 308.215†	85819.5	4.2440	mg/L	0.03566	4.2440	mg/L	0.03566	0.84%
As 188.979†	-10.4	0.00455	mg/L	0.000923	0.00455	mg/L	0.000923	20.27%
Ba 233.527†	15005.9	0.15254	mg/L	0.001543	0.15254	mg/L	0.001543	1.01%
Be 313.107†	-1227.2	-0.00004	mg/L	0.000017	-0.00004	mg/L	0.000017	46.02%
Co 228.616†	1124.9	0.02273	mg/L	0.000320	0.02273	mg/L	0.000320	1.41%
Cr 267.716†	1014.8	0.01346	mg/L	0.000186	0.01346	mg/L	0.000186	1.38%
Cu 324.752†	8743.4	0.04978	mg/L	0.000561	0.04978	mg/L	0.000561	1.13%
Fe 273.955†	2933477.0	117.95	mg/L	0.348	117.95	mg/L	0.348	0.30%
Mg 279.077†	27379.2	1.5415	mg/L	0.01438	1.5415	mg/L	0.01438	0.93%
Mn 257.610†	266893.2	0.43852	mg/L	0.004128	0.43852	mg/L	0.004128	0.94%
Ni 231.604†	829.8	0.02384	mg/L	0.000353	0.02384	mg/L	0.000353	1.48%
Pb 220.353†	19.9	0.00087	mg/L	0.000849	0.00087	mg/L	0.000849	97.23%
Sb 206.836†	10.5	-0.00186	mg/L	0.001899	-0.00186	mg/L	0.001899	102.34%
Se 196.026†	-56.5	0.00862	mg/L	0.002141	0.00862	mg/L	0.002141	24.84%
Tl 190.801†	-34.6	-0.00245	mg/L	0.003194	-0.00245	mg/L	0.003194	130.57%
V 292.402†	14245.2	0.11571	mg/L	0.001061	0.11571	mg/L	0.001061	0.92%
Zn 206.200†	2624.6	0.06788	mg/L	0.000812	0.06788	mg/L	0.000812	1.20%
Cd 226.502†	615.8	0.00027	mg/L	0.000120	0.00027	mg/L	0.000120	43.86%
Ti 334.940†	136637.6	0.24405	mg/L	0.003937	0.24405	mg/L	0.003937	1.61%
Ca 227.546†	-523.8	-2.4380	mg/L	0.06748	-2.4380	mg/L	0.06748	2.77%
Na 589.592	-44.9	-0.01039	mg/L	0.018676	-0.01039	mg/L	0.018676	179.67%
K 766.490	582.2	0.48561	mg/L	0.023663	0.48561	mg/L	0.023663	4.87%

Sequence No.: 60 **Autosampler Location: 76**
Sample ID: L1956-11A~SS-24 20xFe **Date Collected: 9/26/2012 11:22:42 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:14 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11A~SS-24 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2115975.0	102.01	%	0.962				0.94%
Lu 261.542	1494618.9	102.1	%	0.86				0.84%
Ag 328.068†	223.1	0.00140	mg/L	0.000883	0.00140	mg/L	0.000883	63.21%

Al 308.215†	99668.3	4.9287	mg/L	0.07912	4.9287	mg/L	0.07912	1.61%
As 188.979†	4.8	0.01117	mg/L	0.001130	0.01117	mg/L	0.001130	10.12%
Ba 233.527†	21798.4	0.22147	mg/L	0.003574	0.22147	mg/L	0.003574	1.61%
Be 313.107†	-1417.9	-0.00006	mg/L	0.000006	-0.00006	mg/L	0.000006	9.84%
Co 228.616†	1098.1	0.02266	mg/L	0.000265	0.02266	mg/L	0.000265	1.17%
Cr 267.716†	830.6	0.01099	mg/L	0.000206	0.01099	mg/L	0.000206	1.88%
Cu 324.752†	9563.9	0.05105	mg/L	0.000791	0.05105	mg/L	0.000791	1.55%
Fe 273.955†	2293371.5	92.215	mg/L	0.0545	92.215	mg/L	0.0545	0.06%
Mg 279.077†	31364.4	1.7658	mg/L	0.02489	1.7658	mg/L	0.02489	1.41%
Mn 257.610†	285428.7	0.46897	mg/L	0.007377	0.46897	mg/L	0.007377	1.57%
Ni 231.604†	868.7	0.02495	mg/L	0.000210	0.02495	mg/L	0.000210	0.84%
Pb 220.353†	24.5	0.00214	mg/L	0.000787	0.00214	mg/L	0.000787	36.82%
Sb 206.836†	9.0	-0.00110	mg/L	0.001354	-0.00110	mg/L	0.001354	123.59%
Se 196.026†	-40.7	0.00985	mg/L	0.002890	0.00985	mg/L	0.002890	29.33%
Tl 190.801†	-23.4	0.00008	mg/L	0.002305	0.00008	mg/L	0.002305	>999.9%
V 292.402†	10437.8	0.08483	mg/L	0.001093	0.08483	mg/L	0.001093	1.29%
Zn 206.200†	1678.3	0.04444	mg/L	0.000420	0.04444	mg/L	0.000420	0.94%
Cd 226.502†	476.4	0.00014	mg/L	0.000129	0.00014	mg/L	0.000129	92.99%
Ti 334.940†	153209.7	0.27367	mg/L	0.004837	0.27367	mg/L	0.004837	1.77%
Ca 227.546†	-214.8	-1.0955	mg/L	0.04699	-1.0955	mg/L	0.04699	4.29%
Na 589.592	-61.4	-0.01420	mg/L	0.017005	-0.01420	mg/L	0.017005	119.75%
K 766.490	764.2	0.63741	mg/L	0.067481	0.63741	mg/L	0.067481	10.59%

Sequence No.: 61 **Autosampler Location: 77**
Sample ID: L1956-11ADUP~SS-24D 20xFe **Date Collected: 9/26/2012 11:26:22 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11ADUP~SS-24D 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2067826.4	99.691	%	0.6194				0.62%
Lu 261.542	1459428.4	99.67	%	0.521				0.52%
Ag 328.068†	127.4	0.00084	mg/L	0.000682	0.00084	mg/L	0.000682	81.45%
Al 308.215†	81538.4	4.0321	mg/L	0.01254	4.0321	mg/L	0.01254	0.31%
As 188.979†	-1.2	0.00735	mg/L	0.001867	0.00735	mg/L	0.001867	25.41%
Ba 233.527†	17389.0	0.17670	mg/L	0.000239	0.17670	mg/L	0.000239	0.14%
Be 313.107†	-1427.7	-0.00009	mg/L	0.000024	-0.00009	mg/L	0.000024	27.08%
Co 228.616†	980.5	0.02004	mg/L	0.000177	0.02004	mg/L	0.000177	0.88%
Cr 267.716†	855.1	0.01134	mg/L	0.000148	0.01134	mg/L	0.000148	1.30%
Cu 324.752†	8381.6	0.04549	mg/L	0.000386	0.04549	mg/L	0.000386	0.85%
Fe 273.955†	2211915.6	88.940	mg/L	0.0975	88.940	mg/L	0.0975	0.11%
Mg 279.077†	24752.4	1.3936	mg/L	0.00181	1.3936	mg/L	0.00181	0.13%
Mn 257.610†	234745.1	0.38569	mg/L	0.001018	0.38569	mg/L	0.001018	0.26%
Ni 231.604†	794.3	0.02281	mg/L	0.000158	0.02281	mg/L	0.000158	0.69%
Pb 220.353†	23.7	0.00201	mg/L	0.000858	0.00201	mg/L	0.000858	42.65%
Sb 206.836†	4.2	-0.00294	mg/L	0.002189	-0.00294	mg/L	0.002189	74.52%
Se 196.026†	-38.4	0.01034	mg/L	0.004024	0.01034	mg/L	0.004024	38.90%
Tl 190.801†	-19.2	0.00181	mg/L	0.001660	0.00181	mg/L	0.001660	91.90%
V 292.402†	10302.3	0.08368	mg/L	0.000348	0.08368	mg/L	0.000348	0.42%
Zn 206.200†	1466.1	0.03926	mg/L	0.000227	0.03926	mg/L	0.000227	0.58%
Cd 226.502†	456.4	0.00009	mg/L	0.000059	0.00009	mg/L	0.000059	65.25%
Ti 334.940†	145386.9	0.25970	mg/L	0.000414	0.25970	mg/L	0.000414	0.16%
Ca 227.546†	-232.4	-1.1613	mg/L	0.07010	-1.1613	mg/L	0.07010	6.04%
Na 589.592	-67.3	-0.01557	mg/L	0.016542	-0.01557	mg/L	0.016542	106.23%
K 766.490	445.3	0.37139	mg/L	0.084420	0.37139	mg/L	0.084420	22.73%

Sequence No.: 62 **Autosampler Location: 78**
Sample ID: L1956-11ASD~SS-24 100xFe **Date Collected: 9/26/2012 11:30:02 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:15 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-11ASD~SS-24 100xFe

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2078432.5	100.20	%	0.786				0.78%
Lu 261.542	1474323.0	100.7	%	0.84				0.83%
Ag 328.068†	280.5	0.00169	mg/L	0.000932	0.00169	mg/L	0.000932	55.03%
Al 308.215†	19502.7	0.96441	mg/L	0.024895	0.96441	mg/L	0.024895	2.58%
As 188.979†	3.9	0.00397	mg/L	0.000640	0.00397	mg/L	0.000640	16.15%
Ba 233.527†	4324.5	0.04394	mg/L	0.000319	0.04394	mg/L	0.000319	0.73%
Be 313.107†	-399.3	-0.00006	mg/L	0.000008	-0.00006	mg/L	0.000008	14.31%
Co 228.616†	229.7	0.00476	mg/L	0.000174	0.00476	mg/L	0.000174	3.66%
Cr 267.716†	168.6	0.00223	mg/L	0.000044	0.00223	mg/L	0.000044	1.97%
Cu 324.752†	1878.5	0.01007	mg/L	0.000446	0.01007	mg/L	0.000446	4.43%
Fe 273.955†	463186.1	18.624	mg/L	0.0165	18.624	mg/L	0.0165	0.09%
Mg 279.077†	6310.5	0.35529	mg/L	0.004311	0.35529	mg/L	0.004311	1.21%
Mn 257.610†	58147.4	0.09554	mg/L	0.001851	0.09554	mg/L	0.001851	1.94%
Ni 231.604†	176.0	0.00506	mg/L	0.000208	0.00506	mg/L	0.000208	4.11%
Pb 220.353†	-3.5	-0.00073	mg/L	0.000774	-0.00073	mg/L	0.000774	106.13%
Sb 206.836†	-2.6	-0.00214	mg/L	0.000354	-0.00214	mg/L	0.000354	16.51%
Se 196.026†	-4.1	0.00570	mg/L	0.002092	0.00570	mg/L	0.002092	36.68%
Tl 190.801†	-8.0	-0.00169	mg/L	0.001324	-0.00169	mg/L	0.001324	78.56%
V 292.402†	2093.9	0.01702	mg/L	0.000503	0.01702	mg/L	0.000503	2.95%
Zn 206.200†	232.9	0.00649	mg/L	0.000049	0.00649	mg/L	0.000049	0.76%
Cd 226.502†	105.4	0.00016	mg/L	0.000060	0.00016	mg/L	0.000060	36.46%
Ti 334.940†	31065.0	0.05549	mg/L	0.001152	0.05549	mg/L	0.001152	2.08%
Ca 227.546†	-37.6	-0.19725	mg/L	0.079278	-0.19725	mg/L	0.079278	40.19%
Na 589.592	-182.4	-0.04219	mg/L	0.008021	-0.04219	mg/L	0.008021	19.01%
K 766.490	30.8	0.02572	mg/L	0.098725	0.02572	mg/L	0.098725	383.87%

Sequence No.: 63
Sample ID: CCV
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/26/2012 11:33:42 AM
Data Type: Reprocessed on 9/26/2012 2:51:16 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2022243.2	97.493	%	0.4423				0.45%
Lu 261.542	1441075.3	98.41	%	0.447				0.45%
Ag 328.068†	209108.9	1.2592	mg/L	0.00624	1.2592	mg/L	0.00624	0.50%
QC value within limits for Ag 328.068 Recovery = 100.74%								
Al 308.215†	192638.6	9.5190	mg/L	0.05734	9.5190	mg/L	0.05734	0.60%
QC value within limits for Al 308.215 Recovery = 95.19%								
As 188.979†	825.8	0.49094	mg/L	0.000423	0.49094	mg/L	0.000423	0.09%
QC value within limits for As 188.979 Recovery = 98.19%								
Ba 233.527†	994571.8	10.103	mg/L	0.0541	10.103	mg/L	0.0541	0.54%
QC value within limits for Ba 233.527 Recovery = 101.03%								
Be 313.107†	617040.0	0.24767	mg/L	0.001641	0.24767	mg/L	0.001641	0.66%
QC value within limits for Be 313.107 Recovery = 99.07%								
Co 228.616†	108316.0	2.5156	mg/L	0.01594	2.5156	mg/L	0.01594	0.63%
QC value within limits for Co 228.616 Recovery = 100.62%								
Cr 267.716†	72017.6	0.95946	mg/L	0.005195	0.95946	mg/L	0.005195	0.54%
QC value within limits for Cr 267.716 Recovery = 95.95%								
Cu 324.752†	264617.0	1.1778	mg/L	0.00487	1.1778	mg/L	0.00487	0.41%
QC value within limits for Cu 324.752 Recovery = 94.22%								
Fe 273.955†	122931.3	4.9470	mg/L	0.03852	4.9470	mg/L	0.03852	0.78%
QC value within limits for Fe 273.955 Recovery = 98.94%								
Mg 279.077†	446396.4	25.130	mg/L	0.1731	25.130	mg/L	0.1731	0.69%
QC value within limits for Mg 279.077 Recovery = 100.52%								
Mn 257.610†	1536433.9	2.5240	mg/L	0.02059	2.5240	mg/L	0.02059	0.82%
QC value within limits for Mn 257.610 Recovery = 100.96%								
Ni 231.604†	86187.5	2.4910	mg/L	0.01262	2.4910	mg/L	0.01262	0.51%
QC value within limits for Ni 231.604 Recovery = 99.64%								
Pb 220.353†	3560.7	0.49257	mg/L	0.002868	0.49257	mg/L	0.002868	0.58%
QC value within limits for Pb 220.353 Recovery = 98.51%								
Sb 206.836†	1273.6	0.53380	mg/L	0.001777	0.53380	mg/L	0.001777	0.33%
QC value within limits for Sb 206.836 Recovery = 106.76%								
Se 196.026†	535.3	0.48440	mg/L	0.001764	0.48440	mg/L	0.001764	0.36%

```
   QC value within limits for Se 196.026  Recovery = 96.88%
Tl 190.801†              941.9     0.46950 mg/L      0.001197     0.46950 mg/L      0.001197   0.26%
   QC value within limits for Tl 190.801  Recovery = 93.90%
V 292.402†            307698.7      2.4293 mg/L       0.01263      2.4293 mg/L       0.01263   0.52%
   QC value within limits for V 292.402  Recovery = 97.17%
Zn 206.200†           105724.7      2.4836 mg/L       0.01244      2.4836 mg/L       0.01244   0.50%
   QC value within limits for Zn 206.200  Recovery = 99.34%
Cd 226.502†            16588.6     0.24536 mg/L      0.000832     0.24536 mg/L      0.000832   0.34%
   QC value within limits for Cd 226.502  Recovery = 98.14%
Ti 334.940†           268890.6     0.48013 mg/L      0.001170     0.48013 mg/L      0.001170   0.24%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             5868.1      23.696 mg/L        0.0337      23.696 mg/L        0.0337   0.14%
   QC value within limits for Ca 227.546  Recovery = 94.78%
Na 589.592            109302.6      25.279 mg/L        0.0867      25.279 mg/L        0.0867   0.34%
   QC value within limits for Na 589.592  Recovery = 101.12%
K 766.490              30975.2      25.835 mg/L        0.2469      25.835 mg/L        0.2469   0.96%
   QC value within limits for K 766.490  Recovery = 103.34%
All analyte(s) passed QC.
```

Sequence No.: 64 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 11:37:24 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:17 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2109698.6	101.71	%	0.337				0.33%
Lu 261.542	1487303.8	101.6	%	0.41				0.40%
Ag 328.068†	279.8	0.00168	mg/L	0.000277	0.00168	mg/L	0.000277	16.51%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-515.0	-0.02547	mg/L	0.001344	-0.02547	mg/L	0.001344	5.28%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.9	0.00167	mg/L	0.000612	0.00167	mg/L	0.000612	36.65%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	106.8	0.00109	mg/L	0.000315	0.00109	mg/L	0.000315	29.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	36.1	0.00001	mg/L	0.000014	0.00001	mg/L	0.000014	93.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	16.9	0.00039	mg/L	0.000038	0.00039	mg/L	0.000038	9.83%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-5.9	-0.00008	mg/L	0.000075	-0.00008	mg/L	0.000075	94.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-458.9	-0.00204	mg/L	0.000166	-0.00204	mg/L	0.000166	8.12%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	170.5	0.00686	mg/L	0.001238	0.00686	mg/L	0.001238	18.06%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	17.2	0.00097	mg/L	0.001396	0.00097	mg/L	0.001396	144.13%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	130.4	0.00021	mg/L	0.000105	0.00021	mg/L	0.000105	48.81%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-6.0	-0.00017	mg/L	0.000200	-0.00017	mg/L	0.000200	114.31%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-14.1	-0.00194	mg/L	0.000956	-0.00194	mg/L	0.000956	49.29%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-0.1	-0.00006	mg/L	0.002126	-0.00006	mg/L	0.002126	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.8	0.00159	mg/L	0.005573	0.00159	mg/L	0.005573	350.44%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	1.0	0.00050	mg/L	0.003790	0.00050	mg/L	0.003790	750.60%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	82.9	0.00065	mg/L	0.000203	0.00065	mg/L	0.000203	31.01%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-66.9	-0.00157	mg/L	0.000137	-0.00157	mg/L	0.000137	8.73%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	10.6	0.00016	mg/L	0.000037	0.00016	mg/L	0.000037	23.42%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Ti 334.940†	111.6	0.00020	mg/L	0.000095	0.00020	mg/L	0.000095	47.36%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5.0	0.02070	mg/L	0.024362	0.02070	mg/L	0.024362	117.70%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592	-148.4	-0.03433	mg/L	0.020918	-0.03433	mg/L	0.020918	60.94%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	-130.5	-0.10884	mg/L	0.037390	-0.10884	mg/L	0.037390	34.35%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 65 **Autosampler Location: 79**
Sample ID: L1956-12A~SS-DUP 20xFe **Date Collected: 9/26/2012 11:41:04 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:18 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-12A~SS-DUP 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2063469.2	99.481	%	0.4205				0.42%
Lu 261.542	1458346.0	99.59	%	0.399				0.40%
Ag 328.068†	215.1	0.00131	mg/L	0.000410	0.00131	mg/L	0.000410	31.22%
Al 308.215†	154231.1	7.6267	mg/L	0.04482	7.6267	mg/L	0.04482	0.59%
As 188.979†	-0.9	0.01065	mg/L	0.004562	0.01065	mg/L	0.004562	42.85%
Ba 233.527†	67505.5	0.68563	mg/L	0.004410	0.68563	mg/L	0.004410	0.64%
Be 313.107†	-2193.5	-0.00014	mg/L	0.000024	-0.00014	mg/L	0.000024	17.77%
Co 228.616†	1477.9	0.03046	mg/L	0.000098	0.03046	mg/L	0.000098	0.32%
Cr 267.716†	1842.9	0.02443	mg/L	0.000072	0.02443	mg/L	0.000072	0.29%
Cu 324.752†	46223.5	0.21683	mg/L	0.000881	0.21683	mg/L	0.000881	0.41%
Fe 273.955†	3043110.0	122.36	mg/L	0.121	122.36	mg/L	0.121	0.10%
Mg 279.077†	55709.9	3.1365	mg/L	0.02516	3.1365	mg/L	0.02516	0.80%
Mn 257.610†	424035.4	0.69669	mg/L	0.000749	0.69669	mg/L	0.000749	0.11%
Ni 231.604†	1206.6	0.03464	mg/L	0.000121	0.03464	mg/L	0.000121	0.35%
Pb 220.353†	793.6	0.10782	mg/L	0.001452	0.10782	mg/L	0.001452	1.35%
Sb 206.836†	15.2	-0.00033	mg/L	0.003389	-0.00033	mg/L	0.003389	>999.9%
Se 196.026†	-55.7	0.01165	mg/L	0.002660	0.01165	mg/L	0.002660	22.84%
Tl 190.801†	-30.3	0.00070	mg/L	0.002350	0.00070	mg/L	0.002350	334.91%
V 292.402†	11304.8	0.09240	mg/L	0.000329	0.09240	mg/L	0.000329	0.36%
Zn 206.200†	3193.1	0.08174	mg/L	0.000492	0.08174	mg/L	0.000492	0.60%
Cd 226.502†	638.7	0.00028	mg/L	0.000150	0.00028	mg/L	0.000150	53.42%
Ti 334.940†	223934.0	0.40001	mg/L	0.001522	0.40001	mg/L	0.001522	0.38%
Ca 227.546†	-92.7	-0.65186	mg/L	0.040934	-0.65186	mg/L	0.040934	6.28%
Na 589.592	81.0	0.01873	mg/L	0.015903	0.01873	mg/L	0.015903	84.92%
K 766.490	2147.6	1.7912	mg/L	0.02680	1.7912	mg/L	0.02680	1.50%

Sequence No.: 66 **Autosampler Location: 80**
Sample ID: L1956-13A~SS-25 20xFe **Date Collected: 9/26/2012 11:44:45 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:18 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-13A~SS-25 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2087664.4	100.65	%	0.484				0.48%
Lu 261.542	1471552.2	100.5	%	0.51				0.50%
Ag 328.068†	235.7	0.00144	mg/L	0.000630	0.00144	mg/L	0.000630	43.69%
Al 308.215†	114341.6	5.6543	mg/L	0.01162	5.6543	mg/L	0.01162	0.21%
As 188.979†	2.1	0.00753	mg/L	0.002745	0.00753	mg/L	0.002745	36.48%
Ba 233.527†	52767.3	0.53591	mg/L	0.001675	0.53591	mg/L	0.001675	0.31%
Be 313.107†	-1096.2	-0.00014	mg/L	0.000008	-0.00014	mg/L	0.000008	5.64%
Co 228.616†	1212.3	0.02613	mg/L	0.000293	0.02613	mg/L	0.000293	1.12%
Cr 267.716†	786.6	0.01042	mg/L	0.000191	0.01042	mg/L	0.000191	1.83%
Cu 324.752†	12946.2	0.06394	mg/L	0.000254	0.06394	mg/L	0.000254	0.40%
Fe 273.955†	1714897.4	68.955	mg/L	0.0493	68.955	mg/L	0.0493	0.07%

Mg 279.077†	38820.9	2.1856	mg/L	0.00493	2.1856	mg/L	0.00493	0.23%
Mn 257.610†	203302.5	0.33401	mg/L	0.000532	0.33401	mg/L	0.000532	0.16%
Ni 231.604†	754.3	0.02170	mg/L	0.000092	0.02170	mg/L	0.000092	0.42%
Pb 220.353†	107.6	0.01401	mg/L	0.000227	0.01401	mg/L	0.000227	1.62%
Sb 206.836†	7.6	-0.00079	mg/L	0.001891	-0.00079	mg/L	0.001891	238.62%
Se 196.026†	-30.5	0.00733	mg/L	0.004471	0.00733	mg/L	0.004471	60.98%
Tl 190.801†	-16.6	0.00055	mg/L	0.002642	0.00055	mg/L	0.002642	482.65%
V 292.402†	6469.3	0.05295	mg/L	0.000624	0.05295	mg/L	0.000624	1.18%
Zn 206.200†	2131.4	0.05374	mg/L	0.000374	0.05374	mg/L	0.000374	0.70%
Cd 226.502†	356.9	0.00011	mg/L	0.000122	0.00011	mg/L	0.000122	115.15%
Ti 334.940†	91149.4	0.16285	mg/L	0.000489	0.16285	mg/L	0.000489	0.30%
Ca 227.546†	654.2	2.5813	mg/L	0.04151	2.5813	mg/L	0.04151	1.61%
Na 589.592	-78.9	-0.01825	mg/L	0.007101	-0.01825	mg/L	0.007101	38.90%
K 766.490	1440.7	1.2016	mg/L	0.02486	1.2016	mg/L	0.02486	2.07%

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Sequence No.: 67 **Autosampler Location: 81**
Sample ID: L1956-14A~SS-26 20xFe **Date Collected: 9/26/2012 11:48:25 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:19 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-14A~SS-26 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2057568.8	99.196	%	0.0392				0.04%
Lu 261.542	1451824.9	99.15	%	0.126				0.13%
Ag 328.068†	235.0	0.00153	mg/L	0.000874	0.00153	mg/L	0.000874	57.11%
Al 308.215†	92232.8	4.5611	mg/L	0.03199	4.5611	mg/L	0.03199	0.70%
As 188.979†	-14.3	0.00344	mg/L	0.002118	0.00344	mg/L	0.002118	61.59%
Ba 233.527†	14979.8	0.15228	mg/L	0.001435	0.15228	mg/L	0.001435	0.94%
Be 313.107†	-1350.2	-0.00007	mg/L	0.000032	-0.00007	mg/L	0.000032	43.45%
Co 228.616†	1381.4	0.02836	mg/L	0.000180	0.02836	mg/L	0.000180	0.64%
Cr 267.716†	1127.0	0.01495	mg/L	0.000097	0.01495	mg/L	0.000097	0.65%
Cu 324.752†	8994.1	0.05209	mg/L	0.000448	0.05209	mg/L	0.000448	0.86%
Fe 273.955†	3254670.6	130.87	mg/L	0.069	130.87	mg/L	0.069	0.05%
Mg 279.077†	26810.0	1.5094	mg/L	0.01138	1.5094	mg/L	0.01138	0.75%
Mn 257.610†	299973.5	0.49287	mg/L	0.002764	0.49287	mg/L	0.002764	0.56%
Ni 231.604†	1132.6	0.03259	mg/L	0.000625	0.03259	mg/L	0.000625	1.92%
Pb 220.353†	165.6	0.02073	mg/L	0.000280	0.02073	mg/L	0.000280	1.35%
Sb 206.836†	14.7	-0.00077	mg/L	0.000932	-0.00077	mg/L	0.000932	120.67%
Se 196.026†	-60.7	0.01137	mg/L	0.004272	0.01137	mg/L	0.004272	37.57%
Tl 190.801†	-38.8	-0.00295	mg/L	0.003060	-0.00295	mg/L	0.003060	103.66%
V 292.402†	14892.6	0.12121	mg/L	0.000645	0.12121	mg/L	0.000645	0.53%
Zn 206.200†	1779.5	0.04875	mg/L	0.000275	0.04875	mg/L	0.000275	0.56%
Cd 226.502†	676.7	0.00021	mg/L	0.000083	0.00021	mg/L	0.000083	39.78%
Ti 334.940†	140443.0	0.25085	mg/L	0.001472	0.25085	mg/L	0.001472	0.59%
Ca 227.546†	-523.2	-2.4634	mg/L	0.04598	-2.4634	mg/L	0.04598	1.87%
Na 589.592	-105.3	-0.02436	mg/L	0.019524	-0.02436	mg/L	0.019524	80.15%
K 766.490	475.2	0.39637	mg/L	0.043630	0.39637	mg/L	0.043630	11.01%

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Sequence No.: 68 **Autosampler Location: 82**
Sample ID: L1956-15A~SS-27 20xFe **Date Collected: 9/26/2012 11:52:05 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:20 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1956-15A~SS-27 20xFe

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2052670.7	98.960	%	0.5650				0.57%
Lu 261.542	1448045.1	98.89	%	0.573				0.58%
Ag 328.068†	228.5	0.00141	mg/L	0.000550	0.00141	mg/L	0.000550	39.02%
Al 308.215†	110373.9	5.4579	mg/L	0.06990	5.4579	mg/L	0.06990	1.28%
As 188.979†	-0.7	0.00816	mg/L	0.003436	0.00816	mg/L	0.003436	42.11%
Ba 233.527†	24490.6	0.24881	mg/L	0.003659	0.24881	mg/L	0.003659	1.47%

Be 313.107†	-1543.2	-0.00004	mg/L	0.000008	-0.00004	mg/L	0.000008	20.05%
Co 228.616†	1226.3	0.02549	mg/L	0.000201	0.02549	mg/L	0.000201	0.79%
Cr 267.716†	971.1	0.01285	mg/L	0.000093	0.01285	mg/L	0.000093	0.73%
Cu 324.752†	19247.8	0.09433	mg/L	0.001207	0.09433	mg/L	0.001207	1.28%
Fe 273.955†	2354090.9	94.656	mg/L	0.0820	94.656	mg/L	0.0820	0.09%
Mg 279.077†	39278.1	2.2114	mg/L	0.03320	2.2114	mg/L	0.03320	1.50%
Mn 257.610†	326054.0	0.53571	mg/L	0.006729	0.53571	mg/L	0.006729	1.26%
Ni 231.604†	1044.1	0.02999	mg/L	0.000280	0.02999	mg/L	0.000280	0.93%
Pb 220.353†	3015.7	0.41448	mg/L	0.002472	0.41448	mg/L	0.002472	0.60%
Sb 206.836†	4.3	-0.00325	mg/L	0.000535	-0.00325	mg/L	0.000535	16.43%
Se 196.026†	-44.2	0.00801	mg/L	0.002209	0.00801	mg/L	0.002209	27.59%
Tl 190.801†	-23.5	0.00045	mg/L	0.003923	0.00045	mg/L	0.003923	868.88%
V 292.402†	10172.5	0.08275	mg/L	0.000925	0.08275	mg/L	0.000925	1.12%
Zn 206.200†	2529.8	0.06460	mg/L	0.000497	0.06460	mg/L	0.000497	0.77%
Cd 226.502†	491.6	0.00018	mg/L	0.000045	0.00018	mg/L	0.000045	25.08%
Ti 334.940†	174419.7	0.31157	mg/L	0.004393	0.31157	mg/L	0.004393	1.41%
Ca 227.546†	-34.9	-0.35081	mg/L	0.046345	-0.35081	mg/L	0.046345	13.21%
Na 589.592	31.5	0.00729	mg/L	0.011424	0.00729	mg/L	0.011424	156.66%
K 766.490	822.3	0.68587	mg/L	0.045908	0.68587	mg/L	0.045908	6.69%

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Sequence No.: 69 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 11:55:45 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:20 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2008379.5	96.825	%	0.5998				0.62%
Lu 261.542	1429383.3	97.62	%	0.567				0.58%
Ag 328.068†	212209.1	1.2779	mg/L	0.02027	1.2779	mg/L	0.02027	1.59%
QC value within limits for Ag 328.068 Recovery = 102.23%								
Al 308.215†	196042.2	9.6874	mg/L	0.16200	9.6874	mg/L	0.16200	1.67%
QC value within limits for Al 308.215 Recovery = 96.87%								
As 188.979†	829.4	0.49317	mg/L	0.001723	0.49317	mg/L	0.001723	0.35%
QC value within limits for As 188.979 Recovery = 98.63%								
Ba 233.527†	993441.1	10.092	mg/L	0.0144	10.092	mg/L	0.0144	0.14%
QC value within limits for Ba 233.527 Recovery = 100.92%								
Be 313.107†	615906.9	0.24722	mg/L	0.000229	0.24722	mg/L	0.000229	0.09%
QC value within limits for Be 313.107 Recovery = 98.89%								
Co 228.616†	110255.2	2.5607	mg/L	0.04262	2.5607	mg/L	0.04262	1.66%
QC value within limits for Co 228.616 Recovery = 102.43%								
Cr 267.716†	73142.6	0.97445	mg/L	0.017366	0.97445	mg/L	0.017366	1.78%
QC value within limits for Cr 267.716 Recovery = 97.45%								
Cu 324.752†	268889.1	1.1968	mg/L	0.02267	1.1968	mg/L	0.02267	1.89%
QC value within limits for Cu 324.752 Recovery = 95.74%								
Fe 273.955†	125382.2	5.0456	mg/L	0.07851	5.0456	mg/L	0.07851	1.56%
QC value within limits for Fe 273.955 Recovery = 100.91%								
Mg 279.077†	445151.9	25.060	mg/L	0.0422	25.060	mg/L	0.0422	0.17%
QC value within limits for Mg 279.077 Recovery = 100.24%								
Mn 257.610†	1535580.7	2.5226	mg/L	0.00326	2.5226	mg/L	0.00326	0.13%
QC value within limits for Mn 257.610 Recovery = 100.90%								
Ni 231.604†	87468.0	2.5281	mg/L	0.04479	2.5281	mg/L	0.04479	1.77%
QC value within limits for Ni 231.604 Recovery = 101.12%								
Pb 220.353†	3599.7	0.49797	mg/L	0.004040	0.49797	mg/L	0.004040	0.81%
QC value within limits for Pb 220.353 Recovery = 99.59%								
Sb 206.836†	1290.9	0.54101	mg/L	0.003226	0.54101	mg/L	0.003226	0.60%
QC value within limits for Sb 206.836 Recovery = 108.20%								
Se 196.026†	534.8	0.48406	mg/L	0.004048	0.48406	mg/L	0.004048	0.84%
QC value within limits for Se 196.026 Recovery = 96.81%								
Tl 190.801†	947.9	0.47227	mg/L	0.000645	0.47227	mg/L	0.000645	0.14%
QC value within limits for Tl 190.801 Recovery = 94.45%								
V 292.402†	312030.9	2.4635	mg/L	0.04310	2.4635	mg/L	0.04310	1.75%
QC value within limits for V 292.402 Recovery = 98.54%								
Zn 206.200†	107430.0	2.5236	mg/L	0.04568	2.5236	mg/L	0.04568	1.81%
QC value within limits for Zn 206.200 Recovery = 100.94%								
Cd 226.502†	16753.8	0.24780	mg/L	0.004093	0.24780	mg/L	0.004093	1.65%

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   QC value within limits for Cd 226.502  Recovery = 99.12%
Ti 334.940†           268985.5     0.48030 mg/L      0.000730     0.48030 mg/L      0.000730   0.15%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             5913.0      23.870 mg/L        0.0985      23.870 mg/L        0.0985   0.41%
   QC value within limits for Ca 227.546  Recovery = 95.48%
Na 589.592            109770.0      25.387 mg/L        0.1564      25.387 mg/L        0.1564   0.62%
   QC value within limits for Na 589.592  Recovery = 101.55%
K 766.490              31037.8      25.887 mg/L        0.1204      25.887 mg/L        0.1204   0.47%
   QC value within limits for K 766.490  Recovery = 103.55%
All analyte(s) passed QC.
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Sequence No.: 70 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 11:59:27 AM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:21 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2068590.8	99.728	%	1.0166				1.02%
Lu 261.542	1459088.2	99.64	%	0.980				0.98%
Ag 328.068†	218.6	0.00131	mg/L	0.000592	0.00131	mg/L	0.000592	45.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-523.0	-0.02587	mg/L	0.002765	-0.02587	mg/L	0.002765	10.69%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	5.4	0.00318	mg/L	0.000875	0.00318	mg/L	0.000875	27.53%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	104.6	0.00106	mg/L	0.000269	0.00106	mg/L	0.000269	25.35%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	35.7	0.00001	mg/L	0.000023	0.00001	mg/L	0.000023	156.67%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	15.8	0.00037	mg/L	0.000168	0.00037	mg/L	0.000168	45.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	5.9	0.00008	mg/L	0.000467	0.00008	mg/L	0.000467	595.01%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-358.3	-0.00159	mg/L	0.000443	-0.00159	mg/L	0.000443	27.81%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	151.2	0.00608	mg/L	0.001815	0.00608	mg/L	0.001815	29.86%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	56.8	0.00320	mg/L	0.002146	0.00320	mg/L	0.002146	67.15%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	133.0	0.00022	mg/L	0.000155	0.00022	mg/L	0.000155	71.14%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-2.2	-0.00006	mg/L	0.000149	-0.00006	mg/L	0.000149	233.87%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-9.5	-0.00131	mg/L	0.000287	-0.00131	mg/L	0.000287	21.96%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	3.3	0.00144	mg/L	0.002823	0.00144	mg/L	0.002823	195.54%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.5	0.00134	mg/L	0.002813	0.00134	mg/L	0.002813	210.10%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-6.8	-0.00355	mg/L	0.002784	-0.00355	mg/L	0.002784	78.48%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	57.1	0.00045	mg/L	0.000429	0.00045	mg/L	0.000429	94.97%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-66.3	-0.00155	mg/L	0.000099	-0.00155	mg/L	0.000099	6.38%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	10.2	0.00015	mg/L	0.000111	0.00015	mg/L	0.000111	73.91%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	113.4	0.00020	mg/L	0.000159	0.00020	mg/L	0.000159	78.48%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	1.2	0.00494	mg/L	0.028511	0.00494	mg/L	0.028511	577.33%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592	-149.0	-0.03446	mg/L	0.014071	-0.03446	mg/L	0.014071	40.83%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	-102.8	-0.08572	mg/L	0.055016	-0.08572	mg/L	0.055016	64.18%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 71 **Autosampler Location: 83**
Sample ID: MB-68292~PBS **Date Collected: 9/26/2012 12:03:06 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:22 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-68292~PBS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2073609.4	99.970	%	0.9379				0.94%
Lu 261.542	1471323.1	100.5	%	0.97				0.97%
Ag 328.068†	247.6	0.00149	mg/L	0.000242	0.00149	mg/L	0.000242	16.30%
Al 308.215†	-43.7	-0.00218	mg/L	0.001090	-0.00218	mg/L	0.001090	49.99%
As 188.979†	6.8	0.00398	mg/L	0.002040	0.00398	mg/L	0.002040	51.28%
Ba 233.527†	68.8	0.00070	mg/L	0.000008	0.00070	mg/L	0.000008	1.14%
Be 313.107†	-39.5	-0.00002	mg/L	0.000014	-0.00002	mg/L	0.000014	92.55%
Co 228.616†	1.5	0.00003	mg/L	0.000239	0.00003	mg/L	0.000239	740.97%
Cr 267.716†	32.8	0.00044	mg/L	0.000059	0.00044	mg/L	0.000059	13.46%
Cu 324.752†	-140.5	-0.00062	mg/L	0.000184	-0.00062	mg/L	0.000184	29.53%
Fe 273.955†	823.5	0.03311	mg/L	0.002534	0.03311	mg/L	0.002534	7.65%
Mg 279.077†	14.7	0.00082	mg/L	0.002624	0.00082	mg/L	0.002624	318.30%
Mn 257.610†	663.3	0.00109	mg/L	0.000068	0.00109	mg/L	0.000068	6.21%
Ni 231.604†	1.5	0.00004	mg/L	0.000130	0.00004	mg/L	0.000130	291.95%
Pb 220.353†	10.3	0.00142	mg/L	0.000319	0.00142	mg/L	0.000319	22.55%
Sb 206.836†	1.6	0.00067	mg/L	0.001517	0.00067	mg/L	0.001517	226.53%
Se 196.026†	4.2	0.00377	mg/L	0.000406	0.00377	mg/L	0.000406	10.77%
Tl 190.801†	-3.1	-0.00160	mg/L	0.001166	-0.00160	mg/L	0.001166	72.99%
V 292.402†	30.0	0.00024	mg/L	0.000164	0.00024	mg/L	0.000164	68.63%
Zn 206.200†	244.9	0.00574	mg/L	0.000256	0.00574	mg/L	0.000256	4.45%
Cd 226.502†	4.3	0.00006	mg/L	0.000100	0.00006	mg/L	0.000100	164.01%
Ti 334.940†	177.5	0.00032	mg/L	0.000058	0.00032	mg/L	0.000058	18.33%
Ca 227.546†	25.4	0.10611	mg/L	0.060274	0.10611	mg/L	0.060274	56.80%
Na 589.592	-77.7	-0.01797	mg/L	0.015919	-0.01797	mg/L	0.015919	88.59%
K 766.490	-106.5	-0.08887	mg/L	0.072944	-0.08887	mg/L	0.072944	82.08%

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Sequence No.: 72 **Autosampler Location: 84**
Sample ID: LCS-68292~LCS **Date Collected: 9/26/2012 12:06:46 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:23 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-68292~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2040628.0	98.380	%	0.7089				0.72%
Lu 261.542	1449915.8	99.02	%	0.700				0.71%
Ag 328.068†	185025.1	1.1142	mg/L	0.01674	1.1142	mg/L	0.01674	1.50%
Al 308.215†	175457.5	8.6709	mg/L	0.14259	8.6709	mg/L	0.14259	1.64%
As 188.979†	747.7	0.44458	mg/L	0.004733	0.44458	mg/L	0.004733	1.06%
Ba 233.527†	897179.4	9.1137	mg/L	0.00367	9.1137	mg/L	0.00367	0.04%
Be 313.107†	560957.9	0.22435	mg/L	0.000185	0.22435	mg/L	0.000185	0.08%
Co 228.616†	95543.0	2.2199	mg/L	0.03529	2.2199	mg/L	0.03529	1.59%
Cr 267.716†	66335.8	0.88376	mg/L	0.015364	0.88376	mg/L	0.015364	1.74%
Cu 324.752†	241260.7	1.0738	mg/L	0.01621	1.0738	mg/L	0.01621	1.51%
Fe 273.955†	112509.6	4.5275	mg/L	0.07795	4.5275	mg/L	0.07795	1.72%
Mg 279.077†	398927.8	22.458	mg/L	0.0355	22.458	mg/L	0.0355	0.16%
Mn 257.610†	1385865.9	2.2766	mg/L	0.00286	2.2766	mg/L	0.00286	0.13%
Ni 231.604†	76704.2	2.2172	mg/L	0.03527	2.2172	mg/L	0.03527	1.59%
Pb 220.353†	3242.3	0.44808	mg/L	0.004818	0.44808	mg/L	0.004818	1.08%
Sb 206.836†	1115.5	0.46575	mg/L	0.006527	0.46575	mg/L	0.006527	1.40%
Se 196.026†	450.4	0.40767	mg/L	0.010139	0.40767	mg/L	0.010139	2.49%
Tl 190.801†	815.8	0.40599	mg/L	0.008248	0.40599	mg/L	0.008248	2.03%
V 292.402†	278008.2	2.1956	mg/L	0.03577	2.1956	mg/L	0.03577	1.63%

Zn 206.200†	92648.2	2.1762	mg/L	0.04022	2.1762	mg/L	0.04022	1.85%
Cd 226.502†	14924.1	0.22073	mg/L	0.004072	0.22073	mg/L	0.004072	1.84%
Ti 334.940†	545.0	0.00074	mg/L	0.000115	0.00074	mg/L	0.000115	15.62%
Ca 227.546†	5220.9	21.089	mg/L	0.1439	21.089	mg/L	0.1439	0.68%
Na 589.592	96358.0	22.285	mg/L	0.1211	22.285	mg/L	0.1211	0.54%
K 766.490	27421.6	22.871	mg/L	0.1346	22.871	mg/L	0.1346	0.59%

Sequence No.: 73 **Autosampler Location: 85**
Sample ID: L2019-06A~CALLAHAN-001-C **Date Collected: 9/26/2012 12:10:28 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:23 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L2019-06A~CALLAHAN-001-C

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1990108.1	95.944	%	0.6993				0.73%
Lu 261.542	1311766.4	89.58	%	0.564				0.63%
Ag 328.068†	-262.9	-0.00328	mg/L	0.000618	-0.00328	mg/L	0.000618	18.84%
Al 308.215†	3526625.5	174.32	mg/L	0.302	174.32	mg/L	0.302	0.17%
As 188.979†	64.2	0.07772	mg/L	0.002945	0.07772	mg/L	0.002945	3.79%
Ba 233.527†	49488.0	0.50283	mg/L	0.004278	0.50283	mg/L	0.004278	0.85%
Be 313.107†	12802.3	0.00610	mg/L	0.000022	0.00610	mg/L	0.000022	0.36%
Co 228.616†	6450.5	0.13974	mg/L	0.000962	0.13974	mg/L	0.000962	0.69%
Cr 267.716†	16626.7	0.21951	mg/L	0.001072	0.21951	mg/L	0.001072	0.49%
Cu 324.752†	71731.4	0.35298	mg/L	0.001526	0.35298	mg/L	0.001526	0.43%
Fe 273.955†	9161544.7	368.38	mg/L	0.269	368.38	mg/L	0.269	0.07%
Mg 279.077†	1977703.6	111.35	mg/L	0.109	111.35	mg/L	0.109	0.10%
Mn 257.610†	5997436.4	9.8525	mg/L	0.01312	9.8525	mg/L	0.01312	0.13%
Ni 231.604†	11342.6	0.32712	mg/L	0.002507	0.32712	mg/L	0.002507	0.77%
Pb 220.353†	1118.0	0.16144	mg/L	0.002114	0.16144	mg/L	0.002114	1.31%
Sb 206.836†	97.5	-0.00316	mg/L	0.003928	-0.00316	mg/L	0.003928	124.46%
Se 196.026†	-181.7	0.01627	mg/L	0.005787	0.01627	mg/L	0.005787	35.58%
Tl 190.801†	-84.8	0.00883	mg/L	0.001177	0.00883	mg/L	0.001177	13.33%
V 292.402†	26087.4	0.21685	mg/L	0.001972	0.21685	mg/L	0.001972	0.91%
Zn 206.200†	41607.2	0.99870	mg/L	0.007841	0.99870	mg/L	0.007841	0.79%
Cd 226.502†	2137.8	0.00252	mg/L	0.000253	0.00252	mg/L	0.000253	10.02%
Ti 334.940†	296701.7	0.53802	mg/L	0.009902	0.53802	mg/L	0.009902	1.84%
Ca 227.546†	142767.4	595.36	mg/L	4.081	595.36	mg/L	4.081	0.69%
Concentration greater than upper limit for Ca 227.546.								
Na 589.592	2470.5	0.57137	mg/L	0.018008	0.57137	mg/L	0.018008	3.15%
K 766.490	14616.0	12.191	mg/L	0.1049	12.191	mg/L	0.1049	0.86%

Sequence No.: 74 **Autosampler Location: 86**
Sample ID: L2019-08A~VANORDEN-002-C **Date Collected: 9/26/2012 12:14:16 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:24 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L2019-08A~VANORDEN-002-C

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2076307.4	100.10	%	0.760				0.76%
Lu 261.542	1312066.1	89.60	%	0.534				0.60%
Ag 328.068†	-949.7	-0.00639	mg/L	0.000533	-0.00639	mg/L	0.000533	8.34%
Al 308.215†	4532361.7	224.09	mg/L	2.636	224.09	mg/L	2.636	1.18%
As 188.979†	-11.0	0.04358	mg/L	0.004107	0.04358	mg/L	0.004107	9.42%
Ba 233.527†	120098.8	1.2206	mg/L	0.01554	1.2206	mg/L	0.01554	1.27%
Be 313.107†	-94688.5	-0.00881	mg/L	0.000486	-0.00881	mg/L	0.000486	5.51%
Co 228.616†	13109.7	0.25693	mg/L	0.002681	0.25693	mg/L	0.002681	1.04%
Cr 267.716†	29869.5	0.39604	mg/L	0.005468	0.39604	mg/L	0.005468	1.38%
Cu 324.752†	334610.6	1.5314	mg/L	0.01948	1.5314	mg/L	0.01948	1.27%
Fe 273.955†	11699939.9	470.45	mg/L	0.321	470.45	mg/L	0.321	0.07%
Mg 279.077†	3505424.8	197.36	mg/L	2.407	197.36	mg/L	2.407	1.22%
Mn 257.610†	6065227.2	9.9622	mg/L	0.01107	9.9622	mg/L	0.01107	0.11%

Ni 231.604†	13757.0	0.38759	mg/L	0.003206	0.38759	mg/L	0.003206	0.83%
Pb 220.353†	614.0	0.10861	mg/L	0.001970	0.10861	mg/L	0.001970	1.81%
Sb 206.836†	17.6	-0.01226	mg/L	0.002720	-0.01226	mg/L	0.002720	22.18%
Se 196.026†	-229.0	0.03857	mg/L	0.006704	0.03857	mg/L	0.006704	17.38%
Tl 190.801†	-64.3	0.04297	mg/L	0.001523	0.04297	mg/L	0.001523	3.54%
V 292.402†	95208.9	0.74419	mg/L	0.009976	0.74419	mg/L	0.009976	1.34%
Zn 206.200†	40141.1	0.98364	mg/L	0.010429	0.98364	mg/L	0.010429	1.06%
Cd 226.502†	2728.7	0.00462	mg/L	0.000223	0.00462	mg/L	0.000223	4.82%
Ti 334.940†	8821061.6	15.759	mg/L	0.0319	15.759	mg/L	0.0319	0.20%
Ca 227.546†	51021.1	211.77	mg/L	2.092	211.77	mg/L	2.092	0.99%
Na 589.592	49851.3	11.529	mg/L	0.0653	11.529	mg/L	0.0653	0.57%
K 766.490	65059.0	54.263	mg/L	0.1919	54.263	mg/L	0.1919	0.35%

Sequence No.: 75 **Autosampler Location: 87**
Sample ID: L1949-09A~SED 1 **Date Collected: 9/26/2012 12:18:07 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:25 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-09A~SED 1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2184936.8	105.34	%	0.854				0.81%
Lu 261.542	1456569.6	99.47	%	0.863				0.87%
Ag 328.068†	313.4	0.00053	mg/L	0.000797	0.00053	mg/L	0.000797	149.93%
Al 308.215†	494310.9	24.434	mg/L	0.0259	24.434	mg/L	0.0259	0.11%
As 188.979†	61.7	0.04094	mg/L	0.001191	0.04094	mg/L	0.001191	2.91%
Ba 233.527†	45143.5	0.45871	mg/L	0.005820	0.45871	mg/L	0.005820	1.27%
Be 313.107†	-2309.2	0.00077	mg/L	0.000031	0.00077	mg/L	0.000031	3.98%
Co 228.616†	2063.5	0.04438	mg/L	0.000429	0.04438	mg/L	0.000429	0.97%
Cr 267.716†	9843.7	0.12950	mg/L	0.001737	0.12950	mg/L	0.001737	1.34%
Cu 324.752†	71975.5	0.32562	mg/L	0.004813	0.32562	mg/L	0.004813	1.48%
Fe 273.955†	1498076.8	60.237	mg/L	0.0548	60.237	mg/L	0.0548	0.09%
Mg 279.077†	87019.8	4.8990	mg/L	0.06507	4.8990	mg/L	0.06507	1.33%
Mn 257.610†	4972617.6	8.1707	mg/L	0.00915	8.1707	mg/L	0.00915	0.11%
Ni 231.604†	2148.1	0.06154	mg/L	0.000672	0.06154	mg/L	0.000672	1.09%
Pb 220.353†	4723.2	0.65310	mg/L	0.007076	0.65310	mg/L	0.007076	1.08%
Sb 206.836†	23.9	0.00473	mg/L	0.000976	0.00473	mg/L	0.000976	20.61%
Se 196.026†	-19.0	0.01374	mg/L	0.006465	0.01374	mg/L	0.006465	47.05%
Tl 190.801†	16.9	0.01930	mg/L	0.001796	0.01930	mg/L	0.001796	9.30%
V 292.402†	25780.6	0.20421	mg/L	0.002960	0.20421	mg/L	0.002960	1.45%
Zn 206.200†	61480.8	1.4485	mg/L	0.01945	1.4485	mg/L	0.01945	1.34%
Cd 226.502†	14028.8	0.20280	mg/L	0.002971	0.20280	mg/L	0.002971	1.46%
Ti 334.940†	512038.1	0.91481	mg/L	0.002714	0.91481	mg/L	0.002714	0.30%
Ca 227.546†	1850.6	7.5466	mg/L	0.16606	7.5466	mg/L	0.16606	2.20%
Na 589.592	3790.4	0.87662	mg/L	0.018921	0.87662	mg/L	0.018921	2.16%
K 766.490	1787.5	1.4909	mg/L	0.04051	1.4909	mg/L	0.04051	2.72%

Sequence No.: 76 **Autosampler Location: 88**
Sample ID: L1949-09ADUP~SED 1D **Date Collected: 9/26/2012 12:21:51 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:26 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-09ADUP~SED 1D

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2176958.7	104.95	%	0.299				0.28%
Lu 261.542	1460394.2	99.73	%	0.226				0.23%
Ag 328.068†	361.8	0.00084	mg/L	0.000257	0.00084	mg/L	0.000257	30.75%
Al 308.215†	476715.7	23.564	mg/L	0.0366	23.564	mg/L	0.0366	0.16%
As 188.979†	60.8	0.04030	mg/L	0.005389	0.04030	mg/L	0.005389	13.37%
Ba 233.527†	43495.2	0.44196	mg/L	0.002207	0.44196	mg/L	0.002207	0.50%
Be 313.107†	-2328.3	0.00075	mg/L	0.000010	0.00075	mg/L	0.000010	1.31%
Co 228.616†	2019.8	0.04342	mg/L	0.000200	0.04342	mg/L	0.000200	0.46%

Cr 267.716†	9660.2	0.12708	mg/L	0.000449	0.12708	mg/L	0.000449	0.35%
Cu 324.752†	71781.3	0.32464	mg/L	0.001209	0.32464	mg/L	0.001209	0.37%
Fe 273.955†	1466792.7	58.979	mg/L	0.0563	58.979	mg/L	0.0563	0.10%
Mg 279.077†	84926.7	4.7812	mg/L	0.01748	4.7812	mg/L	0.01748	0.37%
Mn 257.610†	4891483.3	8.0374	mg/L	0.00518	8.0374	mg/L	0.00518	0.06%
Ni 231.604†	2042.3	0.05848	mg/L	0.000483	0.05848	mg/L	0.000483	0.83%
Pb 220.353†	4698.0	0.64956	mg/L	0.002810	0.64956	mg/L	0.002810	0.43%
Sb 206.836†	21.6	0.00390	mg/L	0.000953	0.00390	mg/L	0.000953	24.45%
Se 196.026†	-17.3	0.01466	mg/L	0.006093	0.01466	mg/L	0.006093	41.55%
Tl 190.801†	18.3	0.01987	mg/L	0.002796	0.01987	mg/L	0.002796	14.07%
V 292.402†	24762.7	0.19614	mg/L	0.001153	0.19614	mg/L	0.001153	0.59%
Zn 206.200†	60131.2	1.4168	mg/L	0.00681	1.4168	mg/L	0.00681	0.48%
Cd 226.502†	13591.3	0.19643	mg/L	0.000270	0.19643	mg/L	0.000270	0.14%
Ti 334.940†	507944.2	0.90750	mg/L	0.003642	0.90750	mg/L	0.003642	0.40%
Ca 227.546†	1838.8	7.5010	mg/L	0.04175	7.5010	mg/L	0.04175	0.56%
Na 589.592	3899.5	0.90187	mg/L	0.018791	0.90187	mg/L	0.018791	2.08%
K 766.490	1815.4	1.5141	mg/L	0.02911	1.5141	mg/L	0.02911	1.92%

Sequence No.: 77 **Autosampler Location: 89**
Sample ID: L1949-09AMS~SED 1S **Date Collected: 9/26/2012 12:25:38 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:26 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-09AMS~SED 1S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2120235.3	102.22	%	0.713				0.70%
Lu 261.542	1412159.5	96.44	%	0.619				0.64%
Ag 328.068†	184963.4	1.1125	mg/L	0.00923	1.1125	mg/L	0.00923	0.83%
Al 308.215†	728157.9	35.993	mg/L	0.0245	35.993	mg/L	0.0245	0.07%
As 188.979†	801.5	0.48104	mg/L	0.006108	0.48104	mg/L	0.006108	1.27%
Ba 233.527†	939169.2	9.5404	mg/L	0.01164	9.5404	mg/L	0.01164	0.12%
Be 313.107†	549990.5	0.22175	mg/L	0.000191	0.22175	mg/L	0.000191	0.09%
Co 228.616†	100154.5	2.3234	mg/L	0.02385	2.3234	mg/L	0.02385	1.03%
Cr 267.716†	76458.8	1.0170	mg/L	0.00844	1.0170	mg/L	0.00844	0.83%
Cu 324.752†	334709.7	1.4950	mg/L	0.00228	1.4950	mg/L	0.00228	0.15%
Fe 273.955†	1643054.3	66.070	mg/L	0.0497	66.070	mg/L	0.0497	0.08%
Mg 279.077†	485600.2	27.337	mg/L	0.0238	27.337	mg/L	0.0238	0.09%
Mn 257.610†	6301492.2	10.354	mg/L	0.0047	10.354	mg/L	0.0047	0.05%
Ni 231.604†	80572.0	2.3284	mg/L	0.02426	2.3284	mg/L	0.02426	1.04%
Pb 220.353†	8143.4	1.1259	mg/L	0.00781	1.1259	mg/L	0.00781	0.69%
Sb 206.836†	839.8	0.34085	mg/L	0.004415	0.34085	mg/L	0.004415	1.30%
Se 196.026†	436.2	0.42650	mg/L	0.001086	0.42650	mg/L	0.001086	0.25%
Tl 190.801†	835.5	0.42674	mg/L	0.003967	0.42674	mg/L	0.003967	0.93%
V 292.402†	301908.7	2.3849	mg/L	0.01970	2.3849	mg/L	0.01970	0.83%
Zn 206.200†	155558.7	3.6583	mg/L	0.03882	3.6583	mg/L	0.03882	1.06%
Cd 226.502†	28914.6	0.42288	mg/L	0.003550	0.42288	mg/L	0.003550	0.84%
Ti 334.940†	540029.7	0.96460	mg/L	0.002183	0.96460	mg/L	0.002183	0.23%
Ca 227.546†	7220.1	29.238	mg/L	0.1211	29.238	mg/L	0.1211	0.41%
Na 589.592	102076.6	23.608	mg/L	0.1714	23.608	mg/L	0.1714	0.73%
K 766.490	29076.8	24.252	mg/L	0.1628	24.252	mg/L	0.1628	0.67%

Sequence No.: 78 **Autosampler Location: 90**
Sample ID: L1949-09ASD~SED 1 **Date Collected: 9/26/2012 12:29:25 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:27 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-09ASD~SED 1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2085386.0	100.54	%	0.578				0.57%
Lu 261.542	1465459.3	100.1	%	0.56				0.56%
Ag 328.068†	372.7	0.00196	mg/L	0.000424	0.00196	mg/L	0.000424	21.64%

Al 308.215†	96568.7	4.7733	mg/L	0.08114	4.7733	mg/L	0.08114	1.70%
As 188.979†	18.3	0.01169	mg/L	0.000875	0.01169	mg/L	0.000875	7.49%
Ba 233.527†	9202.8	0.09351	mg/L	0.001737	0.09351	mg/L	0.001737	1.86%
Be 313.107†	-465.4	0.00015	mg/L	0.000038	0.00015	mg/L	0.000038	25.89%
Co 228.616†	429.1	0.00926	mg/L	0.000298	0.00926	mg/L	0.000298	3.21%
Cr 267.716†	1998.1	0.02628	mg/L	0.000782	0.02628	mg/L	0.000782	2.97%
Cu 324.752†	14017.1	0.06346	mg/L	0.001173	0.06346	mg/L	0.001173	1.85%
Fe 273.955†	302770.2	12.174	mg/L	0.0170	12.174	mg/L	0.0170	0.14%
Mg 279.077†	17763.4	1.0000	mg/L	0.02120	1.0000	mg/L	0.02120	2.12%
Mn 257.610†	1020346.7	1.6766	mg/L	0.00205	1.6766	mg/L	0.00205	0.12%
Ni 231.604†	440.7	0.01263	mg/L	0.000266	0.01263	mg/L	0.000266	2.11%
Pb 220.353†	954.0	0.13190	mg/L	0.000817	0.13190	mg/L	0.000817	0.62%
Sb 206.836†	-1.6	-0.00182	mg/L	0.001089	-0.00182	mg/L	0.001089	59.87%
Se 196.026†	2.5	0.00843	mg/L	0.004885	0.00843	mg/L	0.004885	57.95%
Tl 190.801†	5.0	0.00474	mg/L	0.001334	0.00474	mg/L	0.001334	28.14%
V 292.402†	5268.6	0.04174	mg/L	0.000782	0.04174	mg/L	0.000782	1.87%
Zn 206.200†	12596.9	0.29677	mg/L	0.006271	0.29677	mg/L	0.006271	2.11%
Cd 226.502†	2857.7	0.04132	mg/L	0.000237	0.04132	mg/L	0.000237	0.57%
Ti 334.940†	100300.7	0.17920	mg/L	0.000652	0.17920	mg/L	0.000652	0.36%
Ca 227.546†	361.7	1.4738	mg/L	0.01212	1.4738	mg/L	0.01212	0.82%
Na 589.592	691.9	0.16002	mg/L	0.019586	0.16002	mg/L	0.019586	12.24%
K 766.490	261.2	0.21784	mg/L	0.023201	0.21784	mg/L	0.023201	10.65%

Sequence No.: 79 **Autosampler Location: 36**
Sample ID: L2019-06A~CALLAHAN 20xCa **Date Collected: 9/26/2012 12:33:14 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:28 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L2019-06A~CALLAHAN 20xCa

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2056216.3	99.131	%	1.0402				1.05%
Lu 261.542	1453240.5	99.25	%	1.103				1.11%
Ag 328.068†	256.6	0.00145	mg/L	0.000323	0.00145	mg/L	0.000323	22.28%
Al 308.215†	160111.2	7.9141	mg/L	0.06379	7.9141	mg/L	0.06379	0.81%
As 188.979†	6.6	0.00598	mg/L	0.005840	0.00598	mg/L	0.005840	97.63%
Ba 233.527†	2493.3	0.02533	mg/L	0.000426	0.02533	mg/L	0.000426	1.68%
Be 313.107†	609.9	0.00029	mg/L	0.000010	0.00029	mg/L	0.000010	3.52%
Co 228.616†	347.0	0.00752	mg/L	0.000178	0.00752	mg/L	0.000178	2.37%
Cr 267.716†	845.5	0.01116	mg/L	0.000064	0.01116	mg/L	0.000064	0.58%
Cu 324.752†	3216.7	0.01617	mg/L	0.000496	0.01617	mg/L	0.000496	3.07%
Fe 273.955†	501875.0	20.180	mg/L	0.0050	20.180	mg/L	0.0050	0.02%
Mg 279.077†	102730.3	5.7838	mg/L	0.03501	5.7838	mg/L	0.03501	0.61%
Mn 257.610†	310635.7	0.51031	mg/L	0.004003	0.51031	mg/L	0.004003	0.78%
Ni 231.604†	606.2	0.01748	mg/L	0.000492	0.01748	mg/L	0.000492	2.81%
Pb 220.353†	41.3	0.00596	mg/L	0.001328	0.00596	mg/L	0.001328	22.30%
Sb 206.836†	0.2	-0.00217	mg/L	0.001572	-0.00217	mg/L	0.001572	72.35%
Se 196.026†	-6.1	0.00441	mg/L	0.002846	0.00441	mg/L	0.002846	64.49%
Tl 190.801†	-3.9	0.00090	mg/L	0.001636	0.00090	mg/L	0.001636	181.27%
V 292.402†	1304.7	0.01090	mg/L	0.000106	0.01090	mg/L	0.000106	0.97%
Zn 206.200†	2135.9	0.05133	mg/L	0.000878	0.05133	mg/L	0.000878	1.71%
Cd 226.502†	113.8	0.00010	mg/L	0.000136	0.00010	mg/L	0.000136	131.50%
Ti 334.940†	14161.2	0.02565	mg/L	0.000610	0.02565	mg/L	0.000610	2.38%
Ca 227.546†	6516.5	27.167	mg/L	0.3214	27.167	mg/L	0.3214	1.18%
Na 589.592	9.7	0.00225	mg/L	0.014567	0.00225	mg/L	0.014567	648.50%
K 766.490	590.8	0.49274	mg/L	0.026696	0.49274	mg/L	0.026696	5.42%

Sequence No.: 80 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 12:36:55 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:28 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	2008650.3	96.838	%	0.8458				0.87%
Lu 261.542	1431765.9	97.78	%	0.829				0.85%
Ag 328.068†	207538.7	1.2497	mg/L	0.01035	1.2497	mg/L	0.01035	0.83%
QC value within limits for Ag 328.068 Recovery = 99.98%								
Al 308.215†	191200.9	9.4480	mg/L	0.08997	9.4480	mg/L	0.08997	0.95%
QC value within limits for Al 308.215 Recovery = 94.48%								
As 188.979†	812.8	0.48330	mg/L	0.004764	0.48330	mg/L	0.004764	0.99%
QC value within limits for As 188.979 Recovery = 96.66%								
Ba 233.527†	979669.9	9.9517	mg/L	0.01076	9.9517	mg/L	0.01076	0.11%
QC value within limits for Ba 233.527 Recovery = 99.52%								
Be 313.107†	608612.4	0.24429	mg/L	0.000432	0.24429	mg/L	0.000432	0.18%
QC value within limits for Be 313.107 Recovery = 97.72%								
Co 228.616†	107447.1	2.4954	mg/L	0.02220	2.4954	mg/L	0.02220	0.89%
QC value within limits for Co 228.616 Recovery = 99.82%								
Cr 267.716†	71410.4	0.95137	mg/L	0.006914	0.95137	mg/L	0.006914	0.73%
QC value within limits for Cr 267.716 Recovery = 95.14%								
Cu 324.752†	262942.9	1.1703	mg/L	0.01120	1.1703	mg/L	0.01120	0.96%
QC value within limits for Cu 324.752 Recovery = 93.62%								
Fe 273.955†	121849.7	4.9034	mg/L	0.04004	4.9034	mg/L	0.04004	0.82%
QC value within limits for Fe 273.955 Recovery = 98.07%								
Mg 279.077†	438881.6	24.707	mg/L	0.0188	24.707	mg/L	0.0188	0.08%
QC value within limits for Mg 279.077 Recovery = 98.83%								
Mn 257.610†	1516226.3	2.4908	mg/L	0.00032	2.4908	mg/L	0.00032	0.01%
QC value within limits for Mn 257.610 Recovery = 99.63%								
Ni 231.604†	85426.7	2.4691	mg/L	0.01734	2.4691	mg/L	0.01734	0.70%
QC value within limits for Ni 231.604 Recovery = 98.76%								
Pb 220.353†	3508.4	0.48536	mg/L	0.006023	0.48536	mg/L	0.006023	1.24%
QC value within limits for Pb 220.353 Recovery = 97.07%								
Sb 206.836†	1165.1	0.48711	mg/L	0.009139	0.48711	mg/L	0.009139	1.88%
QC value within limits for Sb 206.836 Recovery = 97.42%								
Se 196.026†	523.4	0.47375	mg/L	0.007107	0.47375	mg/L	0.007107	1.50%
QC value within limits for Se 196.026 Recovery = 94.75%								
Tl 190.801†	928.8	0.46284	mg/L	0.005337	0.46284	mg/L	0.005337	1.15%
QC value within limits for Tl 190.801 Recovery = 92.57%								
V 292.402†	305180.8	2.4094	mg/L	0.01830	2.4094	mg/L	0.01830	0.76%
QC value within limits for V 292.402 Recovery = 96.38%								
Zn 206.200†	104556.5	2.4561	mg/L	0.02018	2.4561	mg/L	0.02018	0.82%
QC value within limits for Zn 206.200 Recovery = 98.25%								
Cd 226.502†	16376.4	0.24222	mg/L	0.002153	0.24222	mg/L	0.002153	0.89%
QC value within limits for Cd 226.502 Recovery = 96.89%								
Ti 334.940†	267679.3	0.47797	mg/L	0.001323	0.47797	mg/L	0.001323	0.28%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5792.8	23.389	mg/L	0.2712	23.389	mg/L	0.2712	1.16%
QC value within limits for Ca 227.546 Recovery = 93.55%								
Na 589.592	105586.5	24.420	mg/L	0.2784	24.420	mg/L	0.2784	1.14%
QC value within limits for Na 589.592 Recovery = 97.68%								
K 766.490	29962.8	24.991	mg/L	0.2702	24.991	mg/L	0.2702	1.08%
QC value within limits for K 766.490 Recovery = 99.96%								

All analyte(s) passed QC.

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Sequence No.: 81 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 12:40:43 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:29 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2091335.8	100.82	%	0.500				0.50%
Lu 261.542	1481103.0	101.1	%	0.42				0.41%
Ag 328.068†	428.9	0.00258	mg/L	0.000102	0.00258	mg/L	0.000102	3.96%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-363.2	-0.01797	mg/L	0.001374	-0.01797	mg/L	0.001374	7.64%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	6.8	0.00397	mg/L	0.000824	0.00397	mg/L	0.000824	20.73%

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   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              100.6     0.00102 mg/L      0.000251     0.00102 mg/L      0.000251  24.54%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 313.107†              -29.1    -0.00001 mg/L      0.000015    -0.00001 mg/L      0.000015 134.32%
   QC value within limits for Be 313.107  Recovery = Not calculated
Co 228.616†               14.2     0.00033 mg/L      0.000209     0.00033 mg/L      0.000209  63.40%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -5.9    -0.00008 mg/L      0.000093    -0.00008 mg/L      0.000093 118.22%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -156.0    -0.00069 mg/L      0.000211    -0.00069 mg/L      0.000211  30.43%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 273.955†              -50.0    -0.00201 mg/L      0.000232    -0.00201 mg/L      0.000232  11.56%
   QC value within limits for Fe 273.955  Recovery = Not calculated
Mg 279.077†               26.8     0.00151 mg/L      0.002309     0.00151 mg/L      0.002309 153.06%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              165.3     0.00027 mg/L      0.000053     0.00027 mg/L      0.000053  19.45%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†              -10.0    -0.00029 mg/L      0.000255    -0.00029 mg/L      0.000255  88.08%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -15.0    -0.00206 mg/L      0.000638    -0.00206 mg/L      0.000638  30.93%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                4.3     0.00188 mg/L      0.002188     0.00188 mg/L      0.002188 116.50%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                3.0     0.00271 mg/L      0.004674     0.00271 mg/L      0.004674 172.16%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†                1.2     0.00063 mg/L      0.001732     0.00063 mg/L      0.001732 275.05%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†                81.9     0.00065 mg/L      0.000128     0.00065 mg/L      0.000128  19.76%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†              -79.8    -0.00187 mg/L      0.000332    -0.00187 mg/L      0.000332  17.76%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†               17.6     0.00026 mg/L      0.000031     0.00026 mg/L      0.000031  12.02%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              104.5     0.00019 mg/L      0.000009     0.00019 mg/L      0.000009   4.97%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†                0.7     0.00270 mg/L      0.013670     0.00270 mg/L      0.013670 505.74%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592               -60.0    -0.01387 mg/L      0.020861    -0.01387 mg/L      0.020861 150.41%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490               -104.6    -0.08723 mg/L      0.072401    -0.08723 mg/L      0.072401  83.00%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 82 **Autosampler Location: 91**
Sample ID: L1949-09APDS~SED 1 **Date Collected: 9/26/2012 12:44:24 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:30 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-09APDS~SED 1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2120944.7	102.25	%	0.608				0.59%
Lu 261.542	1426089.2	97.39	%	0.565				0.58%
Ag 328.068†	187755.9	1.1294	mg/L	0.00304	1.1294	mg/L	0.00304	0.27%
Al 308.215†	663425.1	32.792	mg/L	0.0487	32.792	mg/L	0.0487	0.15%
As 188.979†	797.9	0.47867	mg/L	0.002358	0.47867	mg/L	0.002358	0.49%
Ba 233.527†	953264.5	9.6836	mg/L	0.01611	9.6836	mg/L	0.01611	0.17%
Be 313.107†	563289.6	0.22692	mg/L	0.000156	0.22692	mg/L	0.000156	0.07%
Co 228.616†	100992.7	2.3431	mg/L	0.00736	2.3431	mg/L	0.00736	0.31%
Cr 267.716†	76348.1	1.0156	mg/L	0.00296	1.0156	mg/L	0.00296	0.29%
Cu 324.752†	330717.6	1.4769	mg/L	0.00153	1.4769	mg/L	0.00153	0.10%
Fe 273.955†	1551621.6	62.393	mg/L	0.0659	62.393	mg/L	0.0659	0.11%
Mg 279.077†	488244.9	27.486	mg/L	0.0663	27.486	mg/L	0.0663	0.24%
Mn 257.610†	6136210.4	10.082	mg/L	0.0130	10.082	mg/L	0.0130	0.13%
Ni 231.604†	81443.2	2.3537	mg/L	0.00773	2.3537	mg/L	0.00773	0.33%
Pb 220.353†	7702.2	1.0648	mg/L	0.00830	1.0648	mg/L	0.00830	0.78%
Sb 206.836†	1163.7	0.48098	mg/L	0.000265	0.48098	mg/L	0.000265	0.06%

Se 196.026†	449.7	0.43668	mg/L	0.003671	0.43668	mg/L	0.003671	0.84%
Tl 190.801†	861.7	0.43953	mg/L	0.004515	0.43953	mg/L	0.004515	1.03%
V 292.402†	304559.6	2.4058	mg/L	0.00663	2.4058	mg/L	0.00663	0.28%
Zn 206.200†	152362.5	3.5830	mg/L	0.01049	3.5830	mg/L	0.01049	0.29%
Cd 226.502†	28305.5	0.41416	mg/L	0.001446	0.41416	mg/L	0.001446	0.35%
Ti 334.940†	494004.3	0.88236	mg/L	0.002379	0.88236	mg/L	0.002379	0.27%
Ca 227.546†	7188.8	29.110	mg/L	0.2904	29.110	mg/L	0.2904	1.00%
Na 589.592	104166.6	24.091	mg/L	0.2699	24.091	mg/L	0.2699	1.12%
K 766.490	29537.8	24.636	mg/L	0.2838	24.636	mg/L	0.2838	1.15%

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Sequence No.: 83 **Autosampler Location: 92**
Sample ID: L1949-10A~SED 2 **Date Collected: 9/26/2012 12:48:12 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:31 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-10A~SED 2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2261520.1	109.03	%	0.780				0.72%
Lu 261.542	1439723.2	98.32	%	0.713				0.73%
Ag 328.068†	408.2	-0.00066	mg/L	0.000137	-0.00066	mg/L	0.000137	20.74%
Al 308.215†	756495.8	37.386	mg/L	0.0533	37.386	mg/L	0.0533	0.14%
As 188.979†	133.4	0.08653	mg/L	0.003004	0.08653	mg/L	0.003004	3.47%
Ba 233.527†	92426.3	0.93895	mg/L	0.007162	0.93895	mg/L	0.007162	0.76%
Be 313.107†	-1124.6	0.00181	mg/L	0.000024	0.00181	mg/L	0.000024	1.30%
Co 228.616†	3443.0	0.07442	mg/L	0.000651	0.07442	mg/L	0.000651	0.88%
Cr 267.716†	16379.4	0.21476	mg/L	0.001097	0.21476	mg/L	0.001097	0.51%
Cu 324.752†	89759.4	0.40970	mg/L	0.003363	0.40970	mg/L	0.003363	0.82%
Fe 273.955†	2843709.2	114.34	mg/L	0.161	114.34	mg/L	0.161	0.14%
Mg 279.077†	119813.3	6.7451	mg/L	0.04593	6.7451	mg/L	0.04593	0.68%
Mn 257.610†	10389621.3	17.072	mg/L	0.1684	17.072	mg/L	0.1684	0.99%
Ni 231.604†	3442.2	0.09875	mg/L	0.000478	0.09875	mg/L	0.000478	0.48%
Pb 220.353†	13315.5	1.8382	mg/L	0.00982	1.8382	mg/L	0.00982	0.53%
Sb 206.836†	40.0	0.00673	mg/L	0.002280	0.00673	mg/L	0.002280	33.89%
Se 196.026†	-33.8	0.02771	mg/L	0.009377	0.02771	mg/L	0.009377	33.84%
Tl 190.801†	45.2	0.04418	mg/L	0.005877	0.04418	mg/L	0.005877	13.30%
V 292.402†	34424.6	0.27383	mg/L	0.001511	0.27383	mg/L	0.001511	0.55%
Zn 206.200†	100353.6	2.3664	mg/L	0.01467	2.3664	mg/L	0.01467	0.62%
Cd 226.502†	37702.9	0.54860	mg/L	0.001906	0.54860	mg/L	0.001906	0.35%
Ti 334.940†	683578.2	1.2214	mg/L	0.00308	1.2214	mg/L	0.00308	0.25%
Ca 227.546†	4494.6	18.432	mg/L	0.1988	18.432	mg/L	0.1988	1.08%
Na 589.592	4436.1	1.0260	mg/L	0.02060	1.0260	mg/L	0.02060	2.01%
K 766.490	2310.4	1.9270	mg/L	0.02224	1.9270	mg/L	0.02224	1.15%

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Sequence No.: 84 **Autosampler Location: 93**
Sample ID: L1949-11A~SED 3 **Date Collected: 9/26/2012 12:52:03 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:31 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-11A~SED 3

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2084709.3	100.50	%	0.364				0.36%
Lu 261.542	1449332.1	98.98	%	0.430				0.43%
Ag 328.068†	256.3	0.00118	mg/L	0.000766	0.00118	mg/L	0.000766	64.86%
Al 308.215†	526204.1	26.022	mg/L	0.0275	26.022	mg/L	0.0275	0.11%
As 188.979†	60.7	0.03838	mg/L	0.002159	0.03838	mg/L	0.002159	5.62%
Ba 233.527†	16442.5	0.16705	mg/L	0.001308	0.16705	mg/L	0.001308	0.78%
Be 313.107†	-1278.0	0.00060	mg/L	0.000040	0.00060	mg/L	0.000040	6.55%
Co 228.616†	1765.7	0.03891	mg/L	0.000102	0.03891	mg/L	0.000102	0.26%
Cr 267.716†	4650.1	0.06151	mg/L	0.000365	0.06151	mg/L	0.000365	0.59%
Cu 324.752†	30668.2	0.13916	mg/L	0.001241	0.13916	mg/L	0.001241	0.89%
Fe 273.955†	749301.2	30.129	mg/L	0.0615	30.129	mg/L	0.0615	0.20%

Mg 279.077†	46161.1	2.5988	mg/L	0.01979	2.5988	mg/L	0.01979	0.76%
Mn 257.610†	1319611.2	2.1683	mg/L	0.00439	2.1683	mg/L	0.00439	0.20%
Ni 231.604†	1380.6	0.03954	mg/L	0.000411	0.03954	mg/L	0.000411	1.04%
Pb 220.353†	2539.9	0.35227	mg/L	0.003831	0.35227	mg/L	0.003831	1.09%
Sb 206.836†	11.8	0.00157	mg/L	0.000691	0.00157	mg/L	0.000691	44.16%
Se 196.026†	-4.5	0.01150	mg/L	0.004017	0.01150	mg/L	0.004017	34.93%
Tl 190.801†	1.9	0.00596	mg/L	0.003634	0.00596	mg/L	0.003634	60.96%
V 292.402†	6876.0	0.05444	mg/L	0.000559	0.05444	mg/L	0.000559	1.03%
Zn 206.200†	31240.6	0.73532	mg/L	0.006309	0.73532	mg/L	0.006309	0.86%
Cd 226.502†	15837.0	0.23179	mg/L	0.001957	0.23179	mg/L	0.001957	0.84%
Ti 334.940†	338294.9	0.60439	mg/L	0.002974	0.60439	mg/L	0.002974	0.49%
Ca 227.546†	806.1	3.2787	mg/L	0.01141	3.2787	mg/L	0.01141	0.35%
Na 589.592	1548.8	0.35820	mg/L	0.020414	0.35820	mg/L	0.020414	5.70%
K 766.490	1353.5	1.1289	mg/L	0.02187	1.1289	mg/L	0.02187	1.94%

Sequence No.: 85
Sample ID: L1949-12A~SED 4
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 94
Date Collected: 9/26/2012 12:55:45 PM
Data Type: Reprocessed on 9/26/2012 2:51:32 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1949-12A~SED 4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2178625.5	105.03	%	0.488				0.46%
Lu 261.542	1463694.8	99.96	%	0.406				0.41%
Ag 328.068†	370.8	0.00125	mg/L	0.000643	0.00125	mg/L	0.000643	51.37%
Al 308.215†	748867.9	37.028	mg/L	0.0474	37.028	mg/L	0.0474	0.13%
As 188.979†	26.9	0.01961	mg/L	0.001071	0.01961	mg/L	0.001071	5.46%
Ba 233.527†	32149.3	0.32665	mg/L	0.001937	0.32665	mg/L	0.001937	0.59%
Be 313.107†	-2195.8	0.00114	mg/L	0.000041	0.00114	mg/L	0.000041	3.61%
Co 228.616†	1967.3	0.04221	mg/L	0.000527	0.04221	mg/L	0.000527	1.25%
Cr 267.716†	10872.1	0.14367	mg/L	0.000444	0.14367	mg/L	0.000444	0.31%
Cu 324.752†	82474.9	0.37046	mg/L	0.001200	0.37046	mg/L	0.001200	0.32%
Fe 273.955†	1003826.6	40.363	mg/L	0.0642	40.363	mg/L	0.0642	0.16%
Mg 279.077†	92841.0	5.2267	mg/L	0.02640	5.2267	mg/L	0.02640	0.51%
Mn 257.610†	3496161.2	5.7446	mg/L	0.00458	5.7446	mg/L	0.00458	0.08%
Ni 231.604†	2793.6	0.08009	mg/L	0.000728	0.08009	mg/L	0.000728	0.91%
Pb 220.353†	6790.4	0.93948	mg/L	0.008968	0.93948	mg/L	0.008968	0.95%
Sb 206.836†	14.0	0.00061	mg/L	0.002805	0.00061	mg/L	0.002805	456.90%
Se 196.026†	-7.3	0.01442	mg/L	0.002771	0.01442	mg/L	0.002771	19.22%
Tl 190.801†	13.1	0.01444	mg/L	0.001820	0.01444	mg/L	0.001820	12.60%
V 292.402†	16518.1	0.13027	mg/L	0.000082	0.13027	mg/L	0.000082	0.06%
Zn 206.200†	43324.3	1.0212	mg/L	0.00376	1.0212	mg/L	0.00376	0.37%
Cd 226.502†	17217.9	0.25142	mg/L	0.000981	0.25142	mg/L	0.000981	0.39%
Ti 334.940†	612990.0	1.0952	mg/L	0.00184	1.0952	mg/L	0.00184	0.17%
Ca 227.546†	2450.8	10.103	mg/L	0.1560	10.103	mg/L	0.1560	1.54%
Na 589.592	4271.1	0.98779	mg/L	0.015159	0.98779	mg/L	0.015159	1.53%
K 766.490	2361.8	1.9699	mg/L	0.03047	1.9699	mg/L	0.03047	1.55%

Sequence No.: 86
Sample ID: L1949-13A~SED 5
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 95
Date Collected: 9/26/2012 12:59:27 PM
Data Type: Reprocessed on 9/26/2012 2:51:33 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1949-13A~SED 5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2060655.1	99.345	%	0.5780				0.58%
Lu 261.542	1443185.6	98.56	%	0.631				0.64%
Ag 328.068†	490.6	0.00157	mg/L	0.000706	0.00157	mg/L	0.000706	45.12%
Al 308.215†	130453.0	6.4391	mg/L	0.14647	6.4391	mg/L	0.14647	2.27%
As 188.979†	40.9	0.02974	mg/L	0.001491	0.02974	mg/L	0.001491	5.01%
Ba 233.527†	27799.8	0.28250	mg/L	0.007233	0.28250	mg/L	0.007233	2.56%

Be 313.107†	-750.9	0.00019	mg/L	0.000016	0.00019	mg/L	0.000016	8.05%
Co 228.616†	1028.5	0.02140	mg/L	0.000285	0.02140	mg/L	0.000285	1.33%
Cr 267.716†	4993.9	0.06497	mg/L	0.000880	0.06497	mg/L	0.000880	1.36%
Cu 324.752†	36096.9	0.16773	mg/L	0.003731	0.16773	mg/L	0.003731	2.22%
Fe 273.955†	1940837.5	78.040	mg/L	0.3047	78.040	mg/L	0.3047	0.39%
Mg 279.077†	25133.0	1.4149	mg/L	0.03598	1.4149	mg/L	0.03598	2.54%
Mn 257.610†	4730475.6	7.7729	mg/L	0.02372	7.7729	mg/L	0.02372	0.31%
Ni 231.604†	1214.1	0.03494	mg/L	0.000799	0.03494	mg/L	0.000799	2.29%
Pb 220.353†	1272.0	0.17492	mg/L	0.003620	0.17492	mg/L	0.003620	2.07%
Sb 206.836†	16.2	0.00160	mg/L	0.001871	0.00160	mg/L	0.001871	116.75%
Se 196.026†	-25.6	0.01626	mg/L	0.008829	0.01626	mg/L	0.008829	54.31%
Tl 190.801†	3.1	0.01418	mg/L	0.001944	0.01418	mg/L	0.001944	13.71%
V 292.402†	18211.2	0.14583	mg/L	0.003127	0.14583	mg/L	0.003127	2.14%
Zn 206.200†	18930.4	0.45117	mg/L	0.011613	0.45117	mg/L	0.011613	2.57%
Cd 226.502†	2517.6	0.03135	mg/L	0.000530	0.03135	mg/L	0.000530	1.69%
Ti 334.940†	149075.0	0.26640	mg/L	0.007210	0.26640	mg/L	0.007210	2.71%
Ca 227.546†	1522.9	6.1598	mg/L	0.08561	6.1598	mg/L	0.08561	1.39%
Na 589.592	947.0	0.21902	mg/L	0.021175	0.21902	mg/L	0.021175	9.67%
K 766.490	662.1	0.55226	mg/L	0.034463	0.55226	mg/L	0.034463	6.24%

Sequence No.: 87 **Autosampler Location: 96**
Sample ID: L1949-14A~SED 6 **Date Collected: 9/26/2012 1:03:10 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:33 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-14A~SED 6

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2059683.3	99.298	%	0.5768				0.58%
Lu 261.542	1451615.9	99.13	%	0.564				0.57%
Ag 328.068†	236.2	0.00147	mg/L	0.000336	0.00147	mg/L	0.000336	22.91%
Al 308.215†	212458.8	10.506	mg/L	0.0428	10.506	mg/L	0.0428	0.41%
As 188.979†	12.3	0.01180	mg/L	0.000784	0.01180	mg/L	0.000784	6.64%
Ba 233.527†	4769.2	0.04851	mg/L	0.000251	0.04851	mg/L	0.000251	0.52%
Be 313.107†	-4470.4	-0.00031	mg/L	0.000032	-0.00031	mg/L	0.000032	10.46%
Co 228.616†	516.0	0.00920	mg/L	0.000166	0.00920	mg/L	0.000166	1.80%
Cr 267.716†	7485.2	0.09966	mg/L	0.000486	0.09966	mg/L	0.000486	0.49%
Cu 324.752†	32236.3	0.14693	mg/L	0.001037	0.14693	mg/L	0.001037	0.71%
Fe 273.955†	967118.9	38.887	mg/L	0.0722	38.887	mg/L	0.0722	0.19%
Mg 279.077†	85370.5	4.8062	mg/L	0.01708	4.8062	mg/L	0.01708	0.36%
Mn 257.610†	180019.4	0.29570	mg/L	0.001260	0.29570	mg/L	0.001260	0.43%
Ni 231.604†	1281.6	0.03656	mg/L	0.000270	0.03656	mg/L	0.000270	0.74%
Pb 220.353†	1155.5	0.16008	mg/L	0.000331	0.16008	mg/L	0.000331	0.21%
Sb 206.836†	10.2	0.00133	mg/L	0.002086	0.00133	mg/L	0.002086	156.54%
Se 196.026†	-17.3	0.00444	mg/L	0.004370	0.00444	mg/L	0.004370	98.43%
Tl 190.801†	-7.2	0.00181	mg/L	0.001838	0.00181	mg/L	0.001838	101.57%
V 292.402†	7455.6	0.05909	mg/L	0.000553	0.05909	mg/L	0.000553	0.94%
Zn 206.200†	30231.4	0.71159	mg/L	0.004196	0.71159	mg/L	0.004196	0.59%
Cd 226.502†	565.0	0.00543	mg/L	0.000142	0.00543	mg/L	0.000142	2.61%
Ti 334.940†	448651.2	0.80154	mg/L	0.003315	0.80154	mg/L	0.003315	0.41%
Ca 227.546†	1333.4	5.4750	mg/L	0.02662	5.4750	mg/L	0.02662	0.49%
Na 589.592	1743.7	0.40328	mg/L	0.018519	0.40328	mg/L	0.018519	4.59%
K 766.490	1189.1	0.99178	mg/L	0.025099	0.99178	mg/L	0.025099	2.53%

Sequence No.: 88 **Autosampler Location: 97**
Sample ID: L1949-16A~SED X FD **Date Collected: 9/26/2012 1:06:51 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:34 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-16A~SED X FD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2183541.7	105.27	%	1.046				0.99%

Lu 261.542	1424872.3	97.31	%	0.935				0.96%
Ag 328.068†	629.9	-0.00004	mg/L	0.000547	-0.00004	mg/L	0.000547	>999.9%
Al 308.215†	650307.9	32.128	mg/L	0.0366	32.128	mg/L	0.0366	0.11%
As 188.979†	99.6	0.06563	mg/L	0.002147	0.06563	mg/L	0.002147	3.27%
Ba 233.527†	92137.3	0.93603	mg/L	0.006840	0.93603	mg/L	0.006840	0.73%
Be 313.107†	-1412.4	0.00139	mg/L	0.000031	0.00139	mg/L	0.000031	2.20%
Co 228.616†	3369.6	0.07310	mg/L	0.000611	0.07310	mg/L	0.000611	0.84%
Cr 267.716†	13860.8	0.18051	mg/L	0.001275	0.18051	mg/L	0.001275	0.71%
Cu 324.752†	84090.8	0.38451	mg/L	0.003857	0.38451	mg/L	0.003857	1.00%
Fe 273.955†	2846627.1	114.46	mg/L	0.093	114.46	mg/L	0.093	0.08%
Mg 279.077†	108703.2	6.1197	mg/L	0.04343	6.1197	mg/L	0.04343	0.71%
Mn 257.610†	12481339.2	20.509	mg/L	0.1084	20.509	mg/L	0.1084	0.53%
Ni 231.604†	3051.3	0.08756	mg/L	0.000659	0.08756	mg/L	0.000659	0.75%
Pb 220.353†	9841.6	1.3590	mg/L	0.01175	1.3590	mg/L	0.01175	0.86%
Sb 206.836†	34.7	0.00505	mg/L	0.002122	0.00505	mg/L	0.002122	42.01%
Se 196.026†	-38.7	0.02326	mg/L	0.010037	0.02326	mg/L	0.010037	43.16%
Tl 190.801†	48.8	0.04699	mg/L	0.002414	0.04699	mg/L	0.002414	5.14%
V 292.402†	35527.4	0.28269	mg/L	0.002523	0.28269	mg/L	0.002523	0.89%
Zn 206.200†	85405.6	2.0172	mg/L	0.01318	2.0172	mg/L	0.01318	0.65%
Cd 226.502†	29623.0	0.42916	mg/L	0.003840	0.42916	mg/L	0.003840	0.89%
Ti 334.940†	591319.3	1.0567	mg/L	0.00263	1.0567	mg/L	0.00263	0.25%
Ca 227.546†	5611.0	23.083	mg/L	0.2171	23.083	mg/L	0.2171	0.94%
Na 589.592	4676.9	1.0817	mg/L	0.01522	1.0817	mg/L	0.01522	1.41%
K 766.490	2288.0	1.9084	mg/L	0.00513	1.9084	mg/L	0.00513	0.27%

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Sequence No.: 89 **Autosampler Location: 98**
Sample ID: L1957-01A~SS-29 **Date Collected: 9/26/2012 1:10:43 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:35 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1957-01A~SS-29

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2177406.3	104.97	%	0.440				0.42%
Lu 261.542	1357045.7	92.68	%	0.503				0.54%
Ag 328.068†	5396.1	0.03348	mg/L	0.000498	0.03348	mg/L	0.000498	1.49%
Al 308.215†	2370234.1	117.21	mg/L	0.493	117.21	mg/L	0.493	0.42%
As 188.979†	-70.9	0.08454	mg/L	0.001199	0.08454	mg/L	0.001199	1.42%
Ba 233.527†	392600.5	3.9887	mg/L	0.05562	3.9887	mg/L	0.05562	1.39%
Be 313.107†	-27201.8	-0.00259	mg/L	0.000133	-0.00259	mg/L	0.000133	5.15%
Co 228.616†	26819.9	0.57956	mg/L	0.003070	0.57956	mg/L	0.003070	0.53%
Cr 267.716†	19593.9	0.25998	mg/L	0.003765	0.25998	mg/L	0.003765	1.45%
Cu 324.752†	1198111.8	5.4548	mg/L	0.01278	5.4548	mg/L	0.01278	0.23%
Fe 273.955†	34321074.9	1380.0	mg/L	3.86	1380.0	mg/L	3.86	0.28%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	699891.9	39.404	mg/L	0.2239	39.404	mg/L	0.2239	0.57%
Mn 257.610†	4191849.5	6.8871	mg/L	0.02813	6.8871	mg/L	0.02813	0.41%
Ni 231.604†	20285.7	0.58370	mg/L	0.002362	0.58370	mg/L	0.002362	0.40%
Pb 220.353†	966.0	0.11700	mg/L	0.001255	0.11700	mg/L	0.001255	1.07%
Sb 206.836†	200.9	0.00607	mg/L	0.006457	0.00607	mg/L	0.006457	106.39%
Se 196.026†	-710.7	0.05851	mg/L	0.009898	0.05851	mg/L	0.009898	16.92%
Tl 190.801†	-443.2	-0.04722	mg/L	0.001400	-0.04722	mg/L	0.001400	2.96%
V 292.402†	169765.8	1.3747	mg/L	0.01762	1.3747	mg/L	0.01762	1.28%
Zn 206.200†	21109.5	0.57325	mg/L	0.002737	0.57325	mg/L	0.002737	0.48%
Cd 226.502†	9395.0	0.03555	mg/L	0.001641	0.03555	mg/L	0.001641	4.62%
Ti 334.940†	2506627.1	4.4778	mg/L	0.02120	4.4778	mg/L	0.02120	0.47%
Ca 227.546†	3555.5	11.781	mg/L	0.0739	11.781	mg/L	0.0739	0.63%
Na 589.592	1764.2	0.40802	mg/L	0.025217	0.40802	mg/L	0.025217	6.18%
K 766.490	27501.6	22.938	mg/L	0.0681	22.938	mg/L	0.0681	0.30%

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Sequence No.: 90 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 9/26/2012 1:14:44 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:36 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	2018170.0	97.297	%	1.1466				1.18%
Lu 261.542	1438051.2	98.21	%	1.102				1.12%
Ag 328.068†	206438.7	1.2431	mg/L	0.01852	1.2431	mg/L	0.01852	1.49%
QC value within limits for Ag 328.068 Recovery = 99.45%								
Al 308.215†	189921.4	9.3849	mg/L	0.13935	9.3849	mg/L	0.13935	1.48%
QC value within limits for Al 308.215 Recovery = 93.85%								
As 188.979†	802.8	0.47738	mg/L	0.003534	0.47738	mg/L	0.003534	0.74%
QC value within limits for As 188.979 Recovery = 95.48%								
Ba 233.527†	965472.7	9.8075	mg/L	0.00501	9.8075	mg/L	0.00501	0.05%
QC value within limits for Ba 233.527 Recovery = 98.08%								
Be 313.107†	600095.4	0.24088	mg/L	0.000084	0.24088	mg/L	0.000084	0.03%
QC value within limits for Be 313.107 Recovery = 96.35%								
Co 228.616†	106803.1	2.4805	mg/L	0.03467	2.4805	mg/L	0.03467	1.40%
QC value within limits for Co 228.616 Recovery = 99.22%								
Cr 267.716†	70968.5	0.94549	mg/L	0.012201	0.94549	mg/L	0.012201	1.29%
QC value within limits for Cr 267.716 Recovery = 94.55%								
Cu 324.752†	260875.3	1.1611	mg/L	0.01915	1.1611	mg/L	0.01915	1.65%
QC value within limits for Cu 324.752 Recovery = 92.89%								
Fe 273.955†	125649.8	5.0562	mg/L	0.07138	5.0562	mg/L	0.07138	1.41%
QC value within limits for Fe 273.955 Recovery = 101.12%								
Mg 279.077†	432699.5	24.359	mg/L	0.0359	24.359	mg/L	0.0359	0.15%
QC value within limits for Mg 279.077 Recovery = 97.44%								
Mn 257.610†	1495100.1	2.4561	mg/L	0.00614	2.4561	mg/L	0.00614	0.25%
QC value within limits for Mn 257.610 Recovery = 98.24%								
Ni 231.604†	84852.1	2.4524	mg/L	0.03639	2.4524	mg/L	0.03639	1.48%
QC value within limits for Ni 231.604 Recovery = 98.10%								
Pb 220.353†	3463.6	0.47916	mg/L	0.004145	0.47916	mg/L	0.004145	0.86%
QC value within limits for Pb 220.353 Recovery = 95.83%								
Sb 206.836†	1185.2	0.49587	mg/L	0.008313	0.49587	mg/L	0.008313	1.68%
QC value within limits for Sb 206.836 Recovery = 99.17%								
Se 196.026†	514.0	0.46539	mg/L	0.007458	0.46539	mg/L	0.007458	1.60%
QC value within limits for Se 196.026 Recovery = 93.08%								
Tl 190.801†	915.9	0.45624	mg/L	0.006433	0.45624	mg/L	0.006433	1.41%
QC value within limits for Tl 190.801 Recovery = 91.25%								
V 292.402†	303261.8	2.3943	mg/L	0.03338	2.3943	mg/L	0.03338	1.39%
QC value within limits for V 292.402 Recovery = 95.77%								
Zn 206.200†	103939.8	2.4416	mg/L	0.03305	2.4416	mg/L	0.03305	1.35%
QC value within limits for Zn 206.200 Recovery = 97.67%								
Cd 226.502†	16292.9	0.24097	mg/L	0.003213	0.24097	mg/L	0.003213	1.33%
QC value within limits for Cd 226.502 Recovery = 96.39%								
Ti 334.940†	264268.1	0.47188	mg/L	0.001264	0.47188	mg/L	0.001264	0.27%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5711.8	23.055	mg/L	0.2040	23.055	mg/L	0.2040	0.88%
QC value within limits for Ca 227.546 Recovery = 92.22%								
Na 589.592	104379.5	24.140	mg/L	0.1264	24.140	mg/L	0.1264	0.52%
QC value within limits for Na 589.592 Recovery = 96.56%								
K 766.490	30007.4	25.028	mg/L	0.1760	25.028	mg/L	0.1760	0.70%
QC value within limits for K 766.490 Recovery = 100.11%								

All analyte(s) passed QC.

Sequence No.: 91 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 9/26/2012 1:18:26 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:36 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2066625.5	99.633	%	1.9308				1.94%
Lu 261.542	1458438.4	99.60	%	2.048				2.06%
Ag 328.068†	294.8	0.00177	mg/L	0.000422	0.00177	mg/L	0.000422	23.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								

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Al 308.215†             -495.3    -0.02450 mg/L      0.004676    -0.02450 mg/L      0.004676  19.08%
   QC value within limits for Al 308.215  Recovery = Not calculated
As 188.979†                7.9     0.00465 mg/L      0.001063     0.00465 mg/L      0.001063  22.88%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              106.8     0.00109 mg/L      0.000429     0.00109 mg/L      0.000429  39.53%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 313.107†               59.2     0.00002 mg/L      0.000006     0.00002 mg/L      0.000006  24.02%
   QC value within limits for Be 313.107  Recovery = Not calculated
Co 228.616†               21.7     0.00050 mg/L      0.000051     0.00050 mg/L      0.000051  10.11%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                5.7     0.00008 mg/L      0.000316     0.00008 mg/L      0.000316 416.54%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -278.7    -0.00124 mg/L      0.000802    -0.00124 mg/L      0.000802  64.76%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 273.955†              297.4     0.01196 mg/L      0.001892     0.01196 mg/L      0.001892  15.82%
   QC value within limits for Fe 273.955  Recovery = Not calculated
Mg 279.077†                2.0     0.00011 mg/L      0.004657     0.00011 mg/L      0.004657 >999.9%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              217.5     0.00036 mg/L      0.000157     0.00036 mg/L      0.000157  44.04%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†               -4.9    -0.00014 mg/L      0.000221    -0.00014 mg/L      0.000221 155.89%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -13.7    -0.00188 mg/L      0.001095    -0.00188 mg/L      0.001095  58.16%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                0.9     0.00038 mg/L      0.003017     0.00038 mg/L      0.003017 791.13%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.8     0.00255 mg/L      0.003536     0.00255 mg/L      0.003536 138.83%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†               -1.9    -0.00098 mg/L      0.001167    -0.00098 mg/L      0.001167 118.84%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†                69.0     0.00055 mg/L      0.000152     0.00055 mg/L      0.000152  27.83%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†              -86.3    -0.00202 mg/L      0.000234    -0.00202 mg/L      0.000234  11.56%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†               14.8     0.00022 mg/L      0.000087     0.00022 mg/L      0.000087  40.08%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              119.6     0.00021 mg/L      0.000104     0.00021 mg/L      0.000104  48.47%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†                1.6     0.00671 mg/L      0.059460     0.00671 mg/L      0.059460 886.67%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592              -131.6    -0.03044 mg/L      0.018284    -0.03044 mg/L      0.018284  60.07%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490               -138.2    -0.11529 mg/L      0.006775    -0.11529 mg/L      0.006775   5.88%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 92 **Autosampler Location: 99**
Sample ID: L1957-02A~SS-34 **Date Collected: 9/26/2012 1:22:06 PM**
Analyst: **Data Type: Reprocessed on 9/26/2012 2:51:37 PM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1957-02A~SS-34

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2060011.2	99.314	%	0.8514				0.86%
Lu 261.542	1353906.7	92.46	%	0.377				0.41%
Ag 328.068†	1826.0	0.01180	mg/L	0.000638	0.01180	mg/L	0.000638	5.41%
Al 308.215†	1918511.2	94.877	mg/L	0.5800	94.877	mg/L	0.5800	0.61%
As 188.979†	-87.4	0.05593	mg/L	0.001517	0.05593	mg/L	0.001517	2.71%
Ba 233.527†	483653.2	4.9129	mg/L	0.02847	4.9129	mg/L	0.02847	0.58%
Be 313.107†	-24071.3	-0.00235	mg/L	0.000018	-0.00235	mg/L	0.000018	0.78%
Co 228.616†	19983.5	0.42690	mg/L	0.002944	0.42690	mg/L	0.002944	0.69%
Cr 267.716†	15453.1	0.20498	mg/L	0.001473	0.20498	mg/L	0.001473	0.72%
Cu 324.752†	635932.1	2.9363	mg/L	0.01750	2.9363	mg/L	0.01750	0.60%
Fe 273.955†	29244400.0	1175.9	mg/L	3.02	1175.9	mg/L	3.02	0.26%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	620946.6	34.960	mg/L	0.1994	34.960	mg/L	0.1994	0.57%

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Reprocessing Begun
Logged In Analyst: mitOptima3 **Technique: ICP Continuous**

Results Data Set (original): B12100101
Results Library (original): C:\pe\Administrator\Results\Results.mdb
Results Data Set (reprocessed): B12100101A
Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 10/1/2012 10:24:11 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 7:59:52 AM**
Logged In Analyst (Original) : mitOptima3
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	1877562.7	14255.63	0.76%	100.00	%
Lu 261.542	1266629.5	9416.27	0.74%	100.0	%
Ag 328.068†	-3603.7	64.67	1.79%	[0.00]	mg/L
Al 308.215†	3296.3	134.60	4.08%	[0.00]	mg/L
As 188.979†	-13.6	0.51	3.78%	[0.00]	mg/L
Ba 233.527†	-113.6	8.11	7.14%	[0.00]	mg/L
Be 313.107†	-1002.9	103.79	10.35%	[0.00]	mg/L
Co 228.616†	-28.4	2.03	7.16%	[0.00]	mg/L
Cr 267.716†	56.3	31.35	55.68%	[0.00]	mg/L
Cu 324.752†	3468.3	109.80	3.17%	[0.00]	mg/L
Fe 273.955†	-247.5	37.96	15.33%	[0.00]	mg/L
Mg 279.077†	-1044.8	25.28	2.42%	[0.00]	mg/L
Mn 257.610†	-99.4	16.58	16.68%	[0.00]	mg/L
Ni 231.604†	-13.6	2.91	21.43%	[0.00]	mg/L
Pb 220.353†	30.3	3.08	10.14%	[0.00]	mg/L
Sb 206.836†	76.6	4.01	5.23%	[0.00]	mg/L
Se 196.026†	-2.3	1.68	72.82%	[0.00]	mg/L
Tl 190.801†	0.6	4.48	732.66%	[0.00]	mg/L
V 292.402†	-63.9	38.29	59.88%	[0.00]	mg/L
Zn 206.200†	67.8	2.77	4.09%	[0.00]	mg/L
Cd 226.502†	-89.5	2.74	3.07%	[0.00]	mg/L
Ti 334.940†	-92.8	26.32	28.37%	[0.00]	mg/L
Ca 227.546†	188.2	7.23	3.84%	[0.00]	mg/L
Na 589.592	-430.8	72.61	16.85%	[0.00]	mg/L
K 766.490	724.3	35.53	4.91%	[0.00]	mg/L

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Sequence No.: 2 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 10/1/2012 10:27:48 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 7:59:54 AM**
Logged In Analyst (Original) : mitOptima3
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	1774833.9	10359.85	0.58%	94.529	%
Lu 261.542	1205164.8	7151.05	0.59%	95.15	%
Ag 328.068†	423154.4	4478.37	1.06%	[2.5]	mg/L
Al 308.215†	411603.5	4132.35	1.00%	[20]	mg/L
As 188.979†	1575.6	11.22	0.71%	[1]	mg/L
Ba 233.527†	1954675.4	1837.72	0.09%	[20]	mg/L
Be 313.107†	1230948.4	292.61	0.02%	[0.5]	mg/L
Co 228.616†	204891.5	2402.67	1.17%	[5]	mg/L
Cr 267.716†	146614.1	1756.93	1.20%	[2]	mg/L
Cu 324.752†	573569.6	248.62	0.04%	[2.5]	mg/L
Fe 273.955†	247603.7	2903.84	1.17%	[10]	mg/L

Mg 279.077†	894411.1	345.05	0.04%	[50]	mg/L
Mn 257.610†	2916619.1	5648.28	0.19%	[5]	mg/L
Ni 231.604†	165209.2	1969.34	1.19%	[5]	mg/L
Pb 220.353†	6855.4	51.92	0.76%	[1]	mg/L
Sb 206.836†	2095.5	31.89	1.52%	[1]	mg/L
Se 196.026†	1038.7	11.15	1.07%	[1]	mg/L
Tl 190.801†	1615.9	16.53	1.02%	[1]	mg/L
V 292.402†	621611.6	147.90	0.02%	[5]	mg/L
Zn 206.200†	193671.1	2411.73	1.25%	[5]	mg/L
Cd 226.502†	31915.6	423.75	1.33%	[0.5]	mg/L
Ti 334.940†	588635.2	1243.19	0.21%	[1]	mg/L
Ca 227.546†	11256.6	85.53	0.76%	[50]	mg/L
Na 589.592	215213.9	2867.09	1.33%	[50]	mg/L
K 766.490	46722.4	588.88	1.26%	[50]	mg/L

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 10/1/2012 10:31:31 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 7:59:55 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1837226.4	14966.31	0.81%	97.852	%
Lu 261.542	1252684.8	10551.60	0.84%	98.90	%
Ag 328.068†	202808.7	6715.20	3.31%	[1.25]	mg/L
Al 308.215†	200606.1	2441.05	1.22%	[10]	mg/L
As 188.979†	773.0	7.18	0.93%	[0.5]	mg/L
Ba 233.527†	991510.0	1459.87	0.15%	[10]	mg/L
Be 313.107†	610256.5	464.89	0.08%	[0.25]	mg/L
Co 228.616†	102778.1	1315.24	1.28%	[2.5]	mg/L
Cr 267.716†	73172.4	791.48	1.08%	[1]	mg/L
Cu 324.752†	274456.6	3354.13	1.22%	[1.25]	mg/L
Fe 273.955†	123411.2	1369.66	1.11%	[5]	mg/L
Mg 279.077†	445764.1	884.05	0.20%	[25]	mg/L
Mn 257.610†	1464342.8	818.97	0.06%	[2.5]	mg/L
Ni 231.604†	83310.1	893.25	1.07%	[2.5]	mg/L
Pb 220.353†	3438.1	30.35	0.88%	[0.5]	mg/L
Sb 206.836†	1043.4	12.73	1.22%	[0.5]	mg/L
Se 196.026†	514.1	5.44	1.06%	[0.5]	mg/L
Tl 190.801†	811.6	3.57	0.44%	[0.5]	mg/L
V 292.402†	303863.2	3249.59	1.07%	[2.5]	mg/L
Zn 206.200†	97670.7	1245.52	1.28%	[2.5]	mg/L
Cd 226.502†	15945.5	172.65	1.08%	[0.25]	mg/L
Ti 334.940†	289780.3	935.20	0.32%	[0.5]	mg/L
Ca 227.546†	5494.4	56.82	1.03%	[25]	mg/L
Na 589.592	110601.1	1089.46	0.99%	[25]	mg/L
K 766.490	22118.9	161.25	0.73%	[25]	mg/L

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 10/1/2012 10:35:14 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 7:59:55 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1881804.5	12512.42	0.66%	100.23	%
Lu 261.542	1270168.0	9423.44	0.74%	100.3	%
Ag 328.068†	6488.7	270.99	4.18%	[0.025]	mg/L
Al 308.215†	4068.9	48.53	1.19%	[0.2]	mg/L
As 188.979†	19.8	0.99	5.00%	[0.01]	mg/L
Ba 233.527†	21011.3	127.27	0.61%	[0.2]	mg/L

Be 313.107†	12283.3	51.24	0.42%	[0.005]	mg/L
Co 228.616†	2130.7	18.35	0.86%	[0.05]	mg/L
Cr 267.716†	1526.4	21.53	1.41%	[0.02]	mg/L
Cu 324.752†	5611.5	157.49	2.81%	[0.025]	mg/L
Fe 273.955†	2604.9	12.38	0.48%	[0.1]	mg/L
Mg 279.077†	9439.9	68.15	0.72%	[0.5]	mg/L
Mn 257.610†	31094.0	191.22	0.61%	[0.05]	mg/L
Ni 231.604†	1722.9	12.47	0.72%	[0.05]	mg/L
Pb 220.353†	76.7	5.77	7.52%	[0.01]	mg/L
Sb 206.836†	41.3	2.08	5.03%	[0.01]	mg/L
Se 196.026†	12.3	3.69	30.12%	[0.01]	mg/L
Tl 190.801†	16.2	3.43	21.17%	[0.01]	mg/L
V 292.402†	6254.5	93.36	1.49%	[0.05]	mg/L
Zn 206.200†	2102.4	17.92	0.85%	[0.05]	mg/L
Cd 226.502†	332.2	7.69	2.31%	[0.005]	mg/L
Ti 334.940†	6004.0	56.61	0.94%	[0.01]	mg/L
Ca 227.546†	98.1	3.82	3.89%	[0.5]	mg/L
Na 589.592	2407.6	61.45	2.55%	[0.5]	mg/L
K 766.490	532.6	33.50	6.29%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	167900	0.00000	0.999848	
Al 308.215	3	Lin Thru 0	0.0	20480	0.00000	0.999948	
As 188.979	3	Lin Thru 0	0.0	1570	0.00000	0.999969	
Ba 233.527	3	Lin Thru 0	0.0	98020	0.00000	0.999983	
Be 313.107	3	Lin Thru 0	0.0	2458000	0.00000	0.999994	
Co 228.616	3	Lin Thru 0	0.0	41010	0.00000	0.999999	
Cr 267.716	3	Lin Thru 0	0.0	73280	0.00000	1.000000	
Cu 324.752	3	Lin Thru 0	0.0	227500	0.00000	0.999850	
Fe 273.955	3	Lin Thru 0	0.0	24740	0.00000	0.999999	
Mg 279.077	3	Lin Thru 0	0.0	17880	0.00000	0.999999	
Mn 257.610	3	Lin Thru 0	0.0	583800	0.00000	0.999998	
Ni 231.604	3	Lin Thru 0	0.0	33100	0.00000	0.999994	
Pb 220.353	3	Lin Thru 0	0.0	6860	0.00000	0.999999	
Sb 206.836	3	Lin Thru 0	0.0	2094	0.00000	0.999961	
Se 196.026	3	Lin Thru 0	0.0	1037	0.00000	0.999990	
Tl 190.801	3	Lin Thru 0	0.0	1617	0.00000	0.999998	
V 292.402	3	Lin Thru 0	0.0	123800	0.00000	0.999960	
Zn 206.200	3	Lin Thru 0	0.0	38800	0.00000	0.999994	
Cd 226.502	3	Lin Thru 0	0.0	63820	0.00000	1.000000	
Ti 334.940	3	Lin Thru 0	0.0	586800	0.00000	0.999981	
Ca 227.546	3	Lin Thru 0	0.0	224.1	0.00000	0.999954	
Na 589.592	3	Lin Thru 0	0.0	4328	0.00000	0.999938	
K 766.490	3	Lin Thru 0	0.0	924.5	0.00000	0.999768	

Sequence No.: 5 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 10/1/2012 10:38:54 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 7:59:56 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1816648.4	96.756	%	0.2802				0.29%
Lu 261.542	1239631.7	97.87	%	0.271				0.28%
Ag 328.068†	214287.9	1.2808	mg/L	0.00867	1.2808	mg/L	0.00867	0.68%
QC value within limits for Ag 328.068 Recovery = 102.46%								
Al 308.215†	203499.7	9.9290	mg/L	0.06856	9.9290	mg/L	0.06856	0.69%
QC value within limits for Al 308.215 Recovery = 99.29%								
As 188.979†	773.0	0.50079	mg/L	0.001161	0.50079	mg/L	0.001161	0.23%
QC value within limits for As 188.979 Recovery = 100.16%								
Ba 233.527†	1007589.6	10.283	mg/L	0.0255	10.283	mg/L	0.0255	0.25%
QC value within limits for Ba 233.527 Recovery = 102.83%								
Be 313.107†	602909.0	0.24631	mg/L	0.000470	0.24631	mg/L	0.000470	0.19%

```
   QC value within limits for Be 313.107  Recovery = 98.52%
Co 228.616†           106826.3      2.6035 mg/L       0.02727      2.6035 mg/L       0.02727   1.05%
   QC value within limits for Co 228.616  Recovery = 104.14%
Cr 267.716†            73360.1      1.0014 mg/L       0.00823      1.0014 mg/L       0.00823   0.82%
   QC value within limits for Cr 267.716  Recovery = 100.14%
Cu 324.752†           279967.7      1.2321 mg/L       0.00806      1.2321 mg/L       0.00806   0.65%
   QC value within limits for Cu 324.752  Recovery = 98.57%
Fe 273.955†           125908.7      5.0924 mg/L       0.05005      5.0924 mg/L       0.05005   0.98%
   QC value within limits for Fe 273.955  Recovery = 101.85%
Mg 279.077†           447876.7      25.051 mg/L        0.0727      25.051 mg/L        0.0727   0.29%
   QC value within limits for Mg 279.077  Recovery = 100.20%
Mn 257.610†          1465313.8      2.5093 mg/L       0.00332      2.5093 mg/L       0.00332   0.13%
   QC value within limits for Mn 257.610  Recovery = 100.37%
Ni 231.604†            85433.5      2.5806 mg/L       0.02696      2.5806 mg/L       0.02696   1.04%
   QC value within limits for Ni 231.604  Recovery = 103.23%
Pb 220.353†             3444.3     0.50403 mg/L      0.001554     0.50403 mg/L      0.001554   0.31%
   QC value within limits for Pb 220.353  Recovery = 100.81%
Sb 206.836†             1082.3     0.50053 mg/L      0.004056     0.50053 mg/L      0.004056   0.81%
   QC value within limits for Sb 206.836  Recovery = 100.11%
Se 196.026†              511.8     0.49965 mg/L      0.005128     0.49965 mg/L      0.005128   1.03%
   QC value within limits for Se 196.026  Recovery = 99.93%
Tl 190.801†              813.0     0.47832 mg/L      0.004892     0.47832 mg/L      0.004892   1.02%
   QC value within limits for Tl 190.801  Recovery = 95.66%
V 292.402†            311079.0      2.5148 mg/L       0.02370      2.5148 mg/L       0.02370   0.94%
   QC value within limits for V 292.402  Recovery = 100.59%
Zn 206.200†            99512.8      2.5704 mg/L       0.02874      2.5704 mg/L       0.02874   1.12%
   QC value within limits for Zn 206.200  Recovery = 102.82%
Cd 226.502†            16079.0     0.25215 mg/L      0.002599     0.25215 mg/L      0.002599   1.03%
   QC value within limits for Cd 226.502  Recovery = 100.86%
Ti 334.940†           292900.9     0.49887 mg/L      0.001514     0.49887 mg/L      0.001514   0.30%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             5571.5      23.998 mg/L        0.1188      23.998 mg/L        0.1188   0.50%
   QC value within limits for Ca 227.546  Recovery = 95.99%
Na 589.592            110791.9      25.597 mg/L        0.1181      25.597 mg/L        0.1181   0.46%
   QC value within limits for Na 589.592  Recovery = 102.39%
K 766.490              22377.0      24.204 mg/L        0.2360      24.204 mg/L        0.2360   0.98%
   QC value within limits for K 766.490  Recovery = 96.82%
All analyte(s) passed QC.
```

Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 10/1/2012 10:42:36 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 7:59:58 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1918167.2	102.16	%	0.286				0.28%
Lu 261.542	1297293.4	102.4	%	0.25				0.25%
Ag 328.068†	1911.2	0.01139	mg/L	0.000116	0.01139	mg/L	0.000116	1.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	178.5	0.00873	mg/L	0.000690	0.00873	mg/L	0.000690	7.91%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.4	0.00087	mg/L	0.005098	0.00087	mg/L	0.005098	587.04%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	157.8	0.00161	mg/L	0.000349	0.00161	mg/L	0.000349	21.69%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	118.0	0.00005	mg/L	0.000023	0.00005	mg/L	0.000023	46.92%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	19.4	0.00047	mg/L	0.000119	0.00047	mg/L	0.000119	25.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	24.4	0.00033	mg/L	0.000252	0.00033	mg/L	0.000252	75.46%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	147.5	0.00065	mg/L	0.000441	0.00065	mg/L	0.000441	67.97%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	22.9	0.00093	mg/L	0.000984	0.00093	mg/L	0.000984	106.19%
QC value within limits for Fe 273.955 Recovery = Not calculated								

```
Mg 279.077†              157.1     0.00878 mg/L      0.002782     0.00878 mg/L      0.002782  31.67%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              192.6     0.00033 mg/L      0.000088     0.00033 mg/L      0.000088  26.75%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†               10.4     0.00032 mg/L      0.000170     0.00032 mg/L      0.000170  53.88%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                4.6     0.00067 mg/L      0.000509     0.00067 mg/L      0.000509  76.22%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               13.8     0.00657 mg/L      0.001098     0.00657 mg/L      0.001098  16.71%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                4.2     0.00403 mg/L      0.001545     0.00403 mg/L      0.001545  38.30%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†               -2.5    -0.00158 mg/L      0.001237    -0.00158 mg/L      0.001237  78.44%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†                84.4     0.00068 mg/L      0.000777     0.00068 mg/L      0.000777 113.93%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†               83.0     0.00214 mg/L      0.000190     0.00214 mg/L      0.000190   8.87%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†                3.5     0.00005 mg/L      0.000055     0.00005 mg/L      0.000055 100.78%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              182.6     0.00031 mg/L      0.000036     0.00031 mg/L      0.000036  11.45%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†              -11.4    -0.05109 mg/L      0.025420    -0.05109 mg/L      0.025420  49.76%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592               149.6     0.03456 mg/L      0.022957     0.03456 mg/L      0.022957  66.42%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490                 70.8     0.07661 mg/L      0.015000     0.07661 mg/L      0.015000  19.58%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 7 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 10/1/2012 10:46:15 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 7:59:59 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1913143.1	101.90	%	1.651				1.62%
Lu 261.542	1296282.6	102.3	%	1.64				1.60%
Ag 328.068†	6409.4	0.03826	mg/L	0.000392	0.03826	mg/L	0.000392	1.03%
QC value within limits for Ag 328.068 Recovery = 127.55%								
Al 308.215†	4065.7	0.19833	mg/L	0.003957	0.19833	mg/L	0.003957	2.00%
QC value within limits for Al 308.215 Recovery = 99.16%								
As 188.979†	33.4	0.02147	mg/L	0.001354	0.02147	mg/L	0.001354	6.31%
QC value within limits for As 188.979 Recovery = 107.37%								
Ba 233.527†	20145.7	0.20560	mg/L	0.003090	0.20560	mg/L	0.003090	1.50%
QC value within limits for Ba 233.527 Recovery = 102.80%								
Be 313.107†	11840.4	0.00485	mg/L	0.000099	0.00485	mg/L	0.000099	2.03%
QC value within limits for Be 313.107 Recovery = 97.07%								
Co 228.616†	2066.6	0.05034	mg/L	0.000702	0.05034	mg/L	0.000702	1.39%
QC value within limits for Co 228.616 Recovery = 100.68%								
Cr 267.716†	1474.3	0.02012	mg/L	0.000484	0.02012	mg/L	0.000484	2.40%
QC value within limits for Cr 267.716 Recovery = 100.61%								
Cu 324.752†	6563.8	0.02889	mg/L	0.000842	0.02889	mg/L	0.000842	2.92%
QC value within limits for Cu 324.752 Recovery = 96.30%								
Fe 273.955†	4798.4	0.19400	mg/L	0.003194	0.19400	mg/L	0.003194	1.65%
QC value within limits for Fe 273.955 Recovery = 97.00%								
Mg 279.077†	9247.5	0.51724	mg/L	0.004200	0.51724	mg/L	0.004200	0.81%
QC value within limits for Mg 279.077 Recovery = 103.45%								
Mn 257.610†	29526.8	0.05056	mg/L	0.000742	0.05056	mg/L	0.000742	1.47%
QC value within limits for Mn 257.610 Recovery = 101.13%								
Ni 231.604†	1703.3	0.05144	mg/L	0.000773	0.05144	mg/L	0.000773	1.50%
QC value within limits for Ni 231.604 Recovery = 102.89%								
Pb 220.353†	67.8	0.00993	mg/L	0.001493	0.00993	mg/L	0.001493	15.04%
QC value within limits for Pb 220.353 Recovery = 99.26%								
Sb 206.836†	46.5	0.02191	mg/L	0.002660	0.02191	mg/L	0.002660	12.14%

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   QC value within limits for Sb 206.836  Recovery = 109.55%
Se 196.026†              29.4     0.02852 mg/L      0.006819     0.02852 mg/L      0.006819  23.91%
   QC value within limits for Se 196.026  Recovery = 95.07%
Tl 190.801†              30.3     0.01830 mg/L      0.001943     0.01830 mg/L      0.001943  10.61%
   QC value within limits for Tl 190.801  Recovery = 91.51%
V 292.402†             6057.6     0.04896 mg/L      0.000845     0.04896 mg/L      0.000845   1.73%
   QC value within limits for V 292.402  Recovery = 97.92%
Zn 206.200†            1977.5     0.05110 mg/L      0.000845     0.05110 mg/L      0.000845   1.65%
   QC value within limits for Zn 206.200  Recovery = 102.19%
Cd 226.502†             328.8     0.00515 mg/L      0.000065     0.00515 mg/L      0.000065   1.26%
   QC value within limits for Cd 226.502  Recovery = 102.96%
Ti 334.940†           10989.2     0.01872 mg/L      0.000336     0.01872 mg/L      0.000336   1.79%
   QC value within limits for Ti 334.940  Recovery = 93.61%
Ca 227.546†             155.0     0.67388 mg/L      0.040839     0.67388 mg/L      0.040839   6.06%
   QC value within limits for Ca 227.546  Recovery = 84.23%
Na 589.592             4701.1      1.0861 mg/L       0.01062      1.0861 mg/L       0.01062   0.98%
   QC value within limits for Na 589.592  Recovery = 108.61%
K 766.490              1079.7      1.1678 mg/L       0.02170      1.1678 mg/L       0.02170   1.86%
   QC value within limits for K 766.490  Recovery = 116.78%
All analyte(s) passed QC.

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Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 10/1/2012 10:49:53 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:00 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1657354.4	88.272	%	0.4708				0.53%
Lu 261.542	1120725.3	88.48	%	0.499				0.56%
Ag 328.068†	978.4	0.00581	mg/L	0.000312	0.00581	mg/L	0.000312	5.36%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	10692031.2	522.05	mg/L	4.817	522.05	mg/L	4.817	0.92%
QC value within limits for Al 308.215 Recovery = 104.41%								
As 188.979†	-51.8	-0.00962	mg/L	0.007837	-0.00962	mg/L	0.007837	81.47%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	18.9	0.00018	mg/L	0.000109	0.00018	mg/L	0.000109	60.39%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-203.4	-0.00010	mg/L	0.000021	-0.00010	mg/L	0.000021	20.57%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	161.4	-0.00050	mg/L	0.000193	-0.00050	mg/L	0.000193	38.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	217.2	0.00296	mg/L	0.000256	0.00296	mg/L	0.000256	8.65%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-3469.3	0.00179	mg/L	0.000649	0.00179	mg/L	0.000649	36.27%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	4571794.8	184.76	mg/L	0.188	184.76	mg/L	0.188	0.10%
QC value within limits for Fe 273.955 Recovery = 92.38%								
Mg 279.077†	8813655.8	493.02	mg/L	4.505	493.02	mg/L	4.505	0.91%
QC value within limits for Mg 279.077 Recovery = 98.60%								
Mn 257.610†	-671.6	-0.01101	mg/L	0.000018	-0.01101	mg/L	0.000018	0.16%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-13.1	-0.00249	mg/L	0.000161	-0.00249	mg/L	0.000161	6.47%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-276.5	0.00280	mg/L	0.002647	0.00280	mg/L	0.002647	94.45%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	115.3	-0.00226	mg/L	0.002605	-0.00226	mg/L	0.002605	115.03%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-83.8	0.01151	mg/L	0.012605	0.01151	mg/L	0.012605	109.52%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-55.4	-0.00593	mg/L	0.004337	-0.00593	mg/L	0.004337	73.11%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-1067.4	-0.00291	mg/L	0.000225	-0.00291	mg/L	0.000225	7.73%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	61.4	0.01082	mg/L	0.000238	0.01082	mg/L	0.000238	2.20%
QC value within limits for Zn 206.200 Recovery = Not calculated								

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Cd 226.502†              807.2    -0.00261 mg/L      0.000032    -0.00261 mg/L      0.000032   1.21%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†            -6173.2    -0.01037 mg/L      0.000090    -0.01037 mg/L      0.000090   0.87%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†           121923.7      542.43 mg/L         1.041      542.43 mg/L         1.041   0.19%
   QC value within limits for Ca 227.546  Recovery = 108.49%
Na 589.592               420.2     0.09708 mg/L      0.006244     0.09708 mg/L      0.006244   6.43%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490                173.6     0.18780 mg/L      0.005214     0.18780 mg/L      0.005214   2.78%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 9 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 10/1/2012 10:53:39 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:00 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1617836.5	86.167	%	0.5918				0.69%
Lu 261.542	1095243.0	86.47	%	0.639				0.74%
Ag 328.068†	38244.0	0.22867	mg/L	0.000397	0.22867	mg/L	0.000397	0.17%
QC value within limits for Ag 328.068 Recovery = 114.34%								
Al 308.215†	10930864.3	533.71	mg/L	7.205	533.71	mg/L	7.205	1.35%
QC value within limits for Al 308.215 Recovery = 106.74%								
As 188.979†	101.8	0.09259	mg/L	0.001799	0.09259	mg/L	0.001799	1.94%
QC value within limits for As 188.979 Recovery = 92.59%								
Ba 233.527†	51731.2	0.52849	mg/L	0.001576	0.52849	mg/L	0.001576	0.30%
QC value within limits for Ba 233.527 Recovery = 105.70%								
Be 313.107†	1237656.9	0.50357	mg/L	0.000645	0.50357	mg/L	0.000645	0.13%
QC value within limits for Be 313.107 Recovery = 100.71%								
Co 228.616†	19853.5	0.47955	mg/L	0.002306	0.47955	mg/L	0.002306	0.48%
QC value within limits for Co 228.616 Recovery = 95.91%								
Cr 267.716†	37130.8	0.50675	mg/L	0.000794	0.50675	mg/L	0.000794	0.16%
QC value within limits for Cr 267.716 Recovery = 101.35%								
Cu 324.752†	119131.6	0.54108	mg/L	0.001768	0.54108	mg/L	0.001768	0.33%
QC value within limits for Cu 324.752 Recovery = 108.22%								
Fe 273.955†	4606404.3	186.16	mg/L	0.305	186.16	mg/L	0.305	0.16%
QC value within limits for Fe 273.955 Recovery = 93.08%								
Mg 279.077†	8900095.5	497.86	mg/L	7.896	497.86	mg/L	7.896	1.59%
QC value within limits for Mg 279.077 Recovery = 99.57%								
Mn 257.610†	293534.2	0.49279	mg/L	0.000417	0.49279	mg/L	0.000417	0.08%
QC value within limits for Mn 257.610 Recovery = 98.56%								
Ni 231.604†	31026.7	0.93526	mg/L	0.004969	0.93526	mg/L	0.004969	0.53%
QC value within limits for Ni 231.604 Recovery = 93.53%								
Pb 220.353†	3263.5	0.51998	mg/L	0.003474	0.51998	mg/L	0.003474	0.67%
QC value within limits for Pb 220.353 Recovery = 104.00%								
Sb 206.836†	1518.9	0.65817	mg/L	0.008224	0.65817	mg/L	0.008224	1.25%
QC value within limits for Sb 206.836 Recovery = 109.70%								
Se 196.026†	456.6	0.53428	mg/L	0.008320	0.53428	mg/L	0.008320	1.56%
QC value within limits for Se 196.026 Recovery = 106.86%								
Tl 190.801†	96.5	0.08342	mg/L	0.003494	0.08342	mg/L	0.003494	4.19%
QC value within limits for Tl 190.801 Recovery = 83.42%								
V 292.402†	62133.8	0.50876	mg/L	0.000406	0.50876	mg/L	0.000406	0.08%
QC value within limits for V 292.402 Recovery = 101.75%								
Zn 206.200†	37291.5	0.97210	mg/L	0.002263	0.97210	mg/L	0.002263	0.23%
QC value within limits for Zn 206.200 Recovery = 97.21%								
Cd 226.502†	62515.9	0.96440	mg/L	0.002440	0.96440	mg/L	0.002440	0.25%
QC value within limits for Cd 226.502 Recovery = 96.44%								
Ti 334.940†	-6179.1	-0.01051	mg/L	0.000259	-0.01051	mg/L	0.000259	2.46%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	122492.0	544.79	mg/L	0.453	544.79	mg/L	0.453	0.08%
QC value within limits for Ca 227.546 Recovery = 108.96%								
Na 589.592	112147.9	25.911	mg/L	0.2751	25.911	mg/L	0.2751	1.06%
QC value within limits for Na 589.592 Recovery = 103.64%								
K 766.490	22981.4	24.858	mg/L	0.2928	24.858	mg/L	0.2928	1.18%

QC value within limits for K 766.490 Recovery = 99.43%
All analyte(s) passed QC.

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Sequence No.: 10 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/1/2012 10:57:24 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:01 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	1846601.3	98.351	%	0.7098				0.72%
Lu 261.542	1257677.1	99.29	%	0.705				0.71%
Ag 328.068†	213268.5	1.2747	mg/L	0.01499	1.2747	mg/L	0.01499	1.18%
QC value within limits for Ag 328.068 Recovery = 101.97%								
Al 308.215†	203037.3	9.9065	mg/L	0.11674	9.9065	mg/L	0.11674	1.18%
QC value within limits for Al 308.215 Recovery = 99.06%								
As 188.979†	763.0	0.49438	mg/L	0.003982	0.49438	mg/L	0.003982	0.81%
QC value within limits for As 188.979 Recovery = 98.88%								
Ba 233.527†	1002413.5	10.230	mg/L	0.0114	10.230	mg/L	0.0114	0.11%
QC value within limits for Ba 233.527 Recovery = 102.30%								
Be 313.107†	599058.2	0.24473	mg/L	0.000260	0.24473	mg/L	0.000260	0.11%
QC value within limits for Be 313.107 Recovery = 97.89%								
Co 228.616†	106141.7	2.5868	mg/L	0.03395	2.5868	mg/L	0.03395	1.31%
QC value within limits for Co 228.616 Recovery = 103.47%								
Cr 267.716†	72614.2	0.99117	mg/L	0.013613	0.99117	mg/L	0.013613	1.37%
QC value within limits for Cr 267.716 Recovery = 99.12%								
Cu 324.752†	277654.5	1.2219	mg/L	0.01511	1.2219	mg/L	0.01511	1.24%
QC value within limits for Cu 324.752 Recovery = 97.75%								
Fe 273.955†	126102.8	5.1002	mg/L	0.06370	5.1002	mg/L	0.06370	1.25%
QC value within limits for Fe 273.955 Recovery = 102.00%								
Mg 279.077†	448042.4	25.060	mg/L	0.0667	25.060	mg/L	0.0667	0.27%
QC value within limits for Mg 279.077 Recovery = 100.24%								
Mn 257.610†	1458212.0	2.4971	mg/L	0.00510	2.4971	mg/L	0.00510	0.20%
QC value within limits for Mn 257.610 Recovery = 99.89%								
Ni 231.604†	84978.3	2.5669	mg/L	0.03449	2.5669	mg/L	0.03449	1.34%
QC value within limits for Ni 231.604 Recovery = 102.68%								
Pb 220.353†	3394.7	0.49680	mg/L	0.002905	0.49680	mg/L	0.002905	0.58%
QC value within limits for Pb 220.353 Recovery = 99.36%								
Sb 206.836†	1043.2	0.48200	mg/L	0.009352	0.48200	mg/L	0.009352	1.94%
QC value within limits for Sb 206.836 Recovery = 96.40%								
Se 196.026†	505.1	0.49314	mg/L	0.004146	0.49314	mg/L	0.004146	0.84%
QC value within limits for Se 196.026 Recovery = 98.63%								
Tl 190.801†	797.3	0.46881	mg/L	0.002416	0.46881	mg/L	0.002416	0.52%
QC value within limits for Tl 190.801 Recovery = 93.76%								
V 292.402†	308404.0	2.4932	mg/L	0.03206	2.4932	mg/L	0.03206	1.29%
QC value within limits for V 292.402 Recovery = 99.73%								
Zn 206.200†	98934.9	2.5554	mg/L	0.03249	2.5554	mg/L	0.03249	1.27%
QC value within limits for Zn 206.200 Recovery = 102.22%								
Cd 226.502†	15961.6	0.25031	mg/L	0.003407	0.25031	mg/L	0.003407	1.36%
QC value within limits for Cd 226.502 Recovery = 100.12%								
Ti 334.940†	291401.8	0.49631	mg/L	0.001414	0.49631	mg/L	0.001414	0.28%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5517.9	23.763	mg/L	0.1130	23.763	mg/L	0.1130	0.48%
QC value within limits for Ca 227.546 Recovery = 95.05%								
Na 589.592	110792.4	25.597	mg/L	0.2638	25.597	mg/L	0.2638	1.03%
QC value within limits for Na 589.592 Recovery = 102.39%								
K 766.490	22796.6	24.658	mg/L	0.2843	24.658	mg/L	0.2843	1.15%
QC value within limits for K 766.490 Recovery = 98.63%								

All analyte(s) passed QC.

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Sequence No.: 11 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/1/2012 11:01:06 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:02 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1893213.1	100.83	%	1.589				1.58%
Lu 261.542	1278224.7	100.9	%	1.51				1.50%
Ag 328.068†	961.1	0.00573	mg/L	0.000843	0.00573	mg/L	0.000843	14.73%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	312.9	0.01529	mg/L	0.002293	0.01529	mg/L	0.002293	15.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	5.0	0.00321	mg/L	0.001848	0.00321	mg/L	0.001848	57.56%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	100.8	0.00103	mg/L	0.000217	0.00103	mg/L	0.000217	21.06%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	46.6	0.00002	mg/L	0.000029	0.00002	mg/L	0.000029	148.81%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	13.6	0.00033	mg/L	0.000068	0.00033	mg/L	0.000068	20.67%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	6.4	0.00009	mg/L	0.000090	0.00009	mg/L	0.000090	103.61%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	155.6	0.00068	mg/L	0.000171	0.00068	mg/L	0.000171	24.95%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	155.1	0.00627	mg/L	0.000383	0.00627	mg/L	0.000383	6.11%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	233.3	0.01305	mg/L	0.002489	0.01305	mg/L	0.002489	19.08%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	130.3	0.00022	mg/L	0.000052	0.00022	mg/L	0.000052	23.27%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	7.8	0.00023	mg/L	0.000181	0.00023	mg/L	0.000181	77.34%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	2.4	0.00035	mg/L	0.000705	0.00035	mg/L	0.000705	201.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	11.3	0.00541	mg/L	0.002500	0.00541	mg/L	0.002500	46.24%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.8	0.00364	mg/L	0.004613	0.00364	mg/L	0.004613	126.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-1.9	-0.00118	mg/L	0.002170	-0.00118	mg/L	0.002170	183.98%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	42.6	0.00034	mg/L	0.000792	0.00034	mg/L	0.000792	229.80%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	79.2	0.00204	mg/L	0.000306	0.00204	mg/L	0.000306	14.97%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	9.4	0.00015	mg/L	0.000061	0.00015	mg/L	0.000061	41.10%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	82.9	0.00014	mg/L	0.000023	0.00014	mg/L	0.000023	16.55%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	-14.3	-0.06401	mg/L	0.049483	-0.06401	mg/L	0.049483	77.30%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Na 589.592	25.4	0.00587	mg/L	0.015748	0.00587	mg/L	0.015748	268.48%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	106.2	0.11488	mg/L	0.037689	0.11488	mg/L	0.037689	32.81%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 38**
Sample ID: MB-68437~PBW **Date Collected: 10/1/2012 11:04:45 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:03 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-68437~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1908206.7	101.63	%	0.845				0.83%
Lu 261.542	1287875.3	101.7	%	0.86				0.85%
Ag 328.068†	1198.7	0.00714	mg/L	0.004299	0.00714	mg/L	0.004299	60.21%

Al 308.215†	498.9	0.02436	mg/L	0.004040	0.02436	mg/L	0.004040	16.59%
As 188.979†	2.3	0.00149	mg/L	0.002767	0.00149	mg/L	0.002767	186.07%
Ba 233.527†	71.7	0.00073	mg/L	0.000052	0.00073	mg/L	0.000052	7.07%
Be 313.107†	-85.4	-0.00003	mg/L	0.000019	-0.00003	mg/L	0.000019	54.52%
Co 228.616†	8.0	0.00019	mg/L	0.000042	0.00019	mg/L	0.000042	21.91%
Cr 267.716†	32.3	0.00044	mg/L	0.000119	0.00044	mg/L	0.000119	27.03%
Cu 324.752†	353.2	0.00157	mg/L	0.000253	0.00157	mg/L	0.000253	16.09%
Fe 273.955†	5197.4	0.21004	mg/L	0.002278	0.21004	mg/L	0.002278	1.08%
Mg 279.077†	212.9	0.01191	mg/L	0.003306	0.01191	mg/L	0.003306	27.76%
Mn 257.610†	4435.8	0.00760	mg/L	0.000118	0.00760	mg/L	0.000118	1.56%
Ni 231.604†	-3.8	-0.00011	mg/L	0.000127	-0.00011	mg/L	0.000127	111.58%
Pb 220.353†	16.4	0.00239	mg/L	0.000545	0.00239	mg/L	0.000545	22.81%
Sb 206.836†	21.8	0.01037	mg/L	0.000421	0.01037	mg/L	0.000421	4.06%
Se 196.026†	1.6	0.00161	mg/L	0.001509	0.00161	mg/L	0.001509	93.51%
Tl 190.801†	-3.3	-0.00202	mg/L	0.002211	-0.00202	mg/L	0.002211	109.19%
V 292.402†	90.6	0.00074	mg/L	0.000088	0.00074	mg/L	0.000088	11.89%
Zn 206.200†	147.2	0.00381	mg/L	0.000291	0.00381	mg/L	0.000291	7.64%
Cd 226.502†	10.5	0.00015	mg/L	0.000134	0.00015	mg/L	0.000134	90.20%
Ti 334.940†	125.8	0.00021	mg/L	0.000161	0.00021	mg/L	0.000161	74.98%
Ca 227.546†	-3.0	-0.01505	mg/L	0.047392	-0.01505	mg/L	0.047392	314.85%
Na 589.592	190.7	0.04407	mg/L	0.017310	0.04407	mg/L	0.017310	39.28%
K 766.490	46.6	0.05036	mg/L	0.076349	0.05036	mg/L	0.076349	151.62%

Sequence No.: 13
Sample ID: LCS-68437~LCS
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 10/1/2012 11:08:24 AM
Data Type: Reprocessed on 10/2/2012 8:00:03 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS-68437~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1814645.3	96.649	%	0.7427				0.77%
Lu 261.542	1238479.3	97.78	%	0.847				0.87%
Ag 328.068†	194668.2	1.1635	mg/L	0.00481	1.1635	mg/L	0.00481	0.41%
Al 308.215†	184329.4	8.9944	mg/L	0.03988	8.9944	mg/L	0.03988	0.44%
As 188.979†	708.9	0.45910	mg/L	0.004530	0.45910	mg/L	0.004530	0.99%
Ba 233.527†	898036.6	9.1652	mg/L	0.04081	9.1652	mg/L	0.04081	0.45%
Be 313.107†	557980.8	0.22710	mg/L	0.000785	0.22710	mg/L	0.000785	0.35%
Co 228.616†	92961.3	2.2666	mg/L	0.00639	2.2666	mg/L	0.00639	0.28%
Cr 267.716†	66327.8	0.90536	mg/L	0.002982	0.90536	mg/L	0.002982	0.33%
Cu 324.752†	256762.8	1.1299	mg/L	0.00582	1.1299	mg/L	0.00582	0.51%
Fe 273.955†	113184.1	4.5778	mg/L	0.01853	4.5778	mg/L	0.01853	0.40%
Mg 279.077†	405103.0	22.659	mg/L	0.0776	22.659	mg/L	0.0776	0.34%
Mn 257.610†	1314268.4	2.2506	mg/L	0.00839	2.2506	mg/L	0.00839	0.37%
Ni 231.604†	75680.8	2.2863	mg/L	0.00592	2.2863	mg/L	0.00592	0.26%
Pb 220.353†	3134.7	0.45825	mg/L	0.004064	0.45825	mg/L	0.004064	0.89%
Sb 206.836†	1060.4	0.49056	mg/L	0.005365	0.49056	mg/L	0.005365	1.09%
Se 196.026†	466.1	0.45466	mg/L	0.002807	0.45466	mg/L	0.002807	0.62%
Tl 190.801†	713.2	0.41941	mg/L	0.005139	0.41941	mg/L	0.005139	1.23%
V 292.402†	279474.3	2.2599	mg/L	0.00680	2.2599	mg/L	0.00680	0.30%
Zn 206.200†	87811.6	2.2678	mg/L	0.00536	2.2678	mg/L	0.00536	0.24%
Cd 226.502†	14559.7	0.22831	mg/L	0.000863	0.22831	mg/L	0.000863	0.38%
Ti 334.940†	401.4	0.00045	mg/L	0.000093	0.00045	mg/L	0.000093	20.79%
Ca 227.546†	5036.0	21.718	mg/L	0.2017	21.718	mg/L	0.2017	0.93%
Na 589.592	98198.4	22.688	mg/L	0.3228	22.688	mg/L	0.3228	1.42%
K 766.490	20161.4	21.807	mg/L	0.4325	21.807	mg/L	0.4325	1.98%

Sequence No.: 14
Sample ID: L1949-01A~SW 1
Analyst:
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 10/1/2012 11:11:58 AM
Data Type: Reprocessed on 10/2/2012 8:00:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: L1949-01A~SW 1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1847284.8	98.387	%	0.6343				0.64%
Lu 261.542	1252426.1	98.88	%	0.651				0.66%
Ag 328.068†	195.3	0.00105	mg/L	0.000465	0.00105	mg/L	0.000465	44.41%
Al 308.215†	434.7	0.01790	mg/L	0.003264	0.01790	mg/L	0.003264	18.23%
As 188.979†	3.2	0.00210	mg/L	0.001487	0.00210	mg/L	0.001487	70.75%
Ba 233.527†	2035.1	0.02076	mg/L	0.000079	0.02076	mg/L	0.000079	0.38%
Be 313.107†	15.1	0.00001	mg/L	0.000014	0.00001	mg/L	0.000014	220.73%
Co 228.616†	14.3	0.00034	mg/L	0.000020	0.00034	mg/L	0.000020	5.96%
Cr 267.716†	46.6	0.00052	mg/L	0.000451	0.00052	mg/L	0.000451	86.19%
Cu 324.752†	316.5	0.00141	mg/L	0.000130	0.00141	mg/L	0.000130	9.22%
Fe 273.955†	4255.3	0.17197	mg/L	0.001132	0.17197	mg/L	0.001132	0.66%
Mg 279.077†	61096.7	3.4177	mg/L	0.03639	3.4177	mg/L	0.03639	1.06%
Mn 257.610†	322019.4	0.55151	mg/L	0.000980	0.55151	mg/L	0.000980	0.18%
Ni 231.604†	18.7	0.00055	mg/L	0.000188	0.00055	mg/L	0.000188	34.11%
Pb 220.353†	5.2	0.00079	mg/L	0.000721	0.00079	mg/L	0.000721	91.83%
Sb 206.836†	6.9	0.00318	mg/L	0.000870	0.00318	mg/L	0.000870	27.37%
Se 196.026†	2.4	0.00235	mg/L	0.005226	0.00235	mg/L	0.005226	222.05%
Tl 190.801†	-4.1	-0.00230	mg/L	0.001376	-0.00230	mg/L	0.001376	59.90%
V 292.402†	106.5	0.00087	mg/L	0.000154	0.00087	mg/L	0.000154	17.76%
Zn 206.200†	384.1	0.01013	mg/L	0.000215	0.01013	mg/L	0.000215	2.12%
Cd 226.502†	37.4	0.00053	mg/L	0.000073	0.00053	mg/L	0.000073	13.68%
Ti 334.940†	1.9	0.00019	mg/L	0.000062	0.00019	mg/L	0.000062	32.19%
Ca 227.546†	3350.3	14.947	mg/L	0.0405	14.947	mg/L	0.0405	0.27%
Na 589.592	106282.0	24.555	mg/L	0.1131	24.555	mg/L	0.1131	0.46%
K 766.490	2125.4	2.2990	mg/L	0.09509	2.2990	mg/L	0.09509	4.14%

Sequence No.: 15 **Autosampler Location: 41**
Sample ID: L1949-02A~SW 2 **Date Collected: 10/1/2012 11:15:37 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:05 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-02A~SW 2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1836803.8	97.829	%	1.3201				1.35%
Lu 261.542	1250091.5	98.69	%	1.376				1.39%
Ag 328.068†	170.1	0.00089	mg/L	0.000554	0.00089	mg/L	0.000554	61.99%
Al 308.215†	521.6	0.02216	mg/L	0.002263	0.02216	mg/L	0.002263	10.21%
As 188.979†	2.6	0.00170	mg/L	0.000924	0.00170	mg/L	0.000924	54.44%
Ba 233.527†	1975.4	0.02015	mg/L	0.000342	0.02015	mg/L	0.000342	1.70%
Be 313.107†	6.3	0.00000	mg/L	0.000038	0.00000	mg/L	0.000038	>999.9%
Co 228.616†	8.2	0.00020	mg/L	0.000242	0.00020	mg/L	0.000242	123.64%
Cr 267.716†	50.7	0.00058	mg/L	0.000168	0.00058	mg/L	0.000168	29.23%
Cu 324.752†	492.9	0.00218	mg/L	0.000159	0.00218	mg/L	0.000159	7.26%
Fe 273.955†	4362.5	0.17630	mg/L	0.002615	0.17630	mg/L	0.002615	1.48%
Mg 279.077†	59992.4	3.3559	mg/L	0.05497	3.3559	mg/L	0.05497	1.64%
Mn 257.610†	329358.6	0.56409	mg/L	0.000628	0.56409	mg/L	0.000628	0.11%
Ni 231.604†	16.1	0.00047	mg/L	0.000141	0.00047	mg/L	0.000141	29.84%
Pb 220.353†	10.3	0.00154	mg/L	0.000977	0.00154	mg/L	0.000977	63.65%
Sb 206.836†	5.4	0.00247	mg/L	0.001535	0.00247	mg/L	0.001535	62.07%
Se 196.026†	-1.9	-0.00177	mg/L	0.004581	-0.00177	mg/L	0.004581	258.89%
Tl 190.801†	1.2	0.00103	mg/L	0.003873	0.00103	mg/L	0.003873	377.00%
V 292.402†	35.9	0.00030	mg/L	0.000095	0.00030	mg/L	0.000095	32.22%
Zn 206.200†	196.0	0.00529	mg/L	0.000189	0.00529	mg/L	0.000189	3.58%
Cd 226.502†	37.2	0.00053	mg/L	0.000144	0.00053	mg/L	0.000144	26.98%
Ti 334.940†	-50.9	0.00010	mg/L	0.000071	0.00010	mg/L	0.000071	71.36%
Ca 227.546†	3301.4	14.729	mg/L	0.2148	14.729	mg/L	0.2148	1.46%
Na 589.592	103199.2	23.843	mg/L	0.1342	23.843	mg/L	0.1342	0.56%
K 766.490	2153.6	2.3295	mg/L	0.13161	2.3295	mg/L	0.13161	5.65%

Sequence No.: 16 **Autosampler Location: 42**
Sample ID: L1949-03A~SW 3 **Date Collected: 10/1/2012 11:19:16 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:06 AM**
Logged In Analyst (Original) : mitOptima3

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-03A~SW 3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1863384.7	99.245	%	0.6858				0.69%
Lu 261.542	1271385.1	100.4	%	0.78				0.78%
Ag 328.068†	121.0	0.00065	mg/L	0.000310	0.00065	mg/L	0.000310	47.92%
Al 308.215†	490.4	0.02100	mg/L	0.003299	0.02100	mg/L	0.003299	15.71%
As 188.979†	2.6	0.00178	mg/L	0.000560	0.00178	mg/L	0.000560	31.52%
Ba 233.527†	1689.8	0.01724	mg/L	0.000045	0.01724	mg/L	0.000045	0.26%
Be 313.107†	-12.5	-0.00001	mg/L	0.000015	-0.00001	mg/L	0.000015	286.40%
Co 228.616†	2.7	0.00006	mg/L	0.000017	0.00006	mg/L	0.000017	26.44%
Cr 267.716†	48.4	0.00059	mg/L	0.000259	0.00059	mg/L	0.000259	44.00%
Cu 324.752†	535.6	0.00237	mg/L	0.000428	0.00237	mg/L	0.000428	18.07%
Fe 273.955†	3565.4	0.14409	mg/L	0.000902	0.14409	mg/L	0.000902	0.63%
Mg 279.077†	59228.1	3.3131	mg/L	0.01592	3.3131	mg/L	0.01592	0.48%
Mn 257.610†	207420.0	0.35522	mg/L	0.000215	0.35522	mg/L	0.000215	0.06%
Ni 231.604†	11.5	0.00033	mg/L	0.000348	0.00033	mg/L	0.000348	104.40%
Pb 220.353†	9.6	0.00142	mg/L	0.001362	0.00142	mg/L	0.001362	95.92%
Sb 206.836†	5.8	0.00266	mg/L	0.001031	0.00266	mg/L	0.001031	38.77%
Se 196.026†	4.4	0.00431	mg/L	0.008797	0.00431	mg/L	0.008797	204.17%
Tl 190.801†	-6.1	-0.00357	mg/L	0.001118	-0.00357	mg/L	0.001118	31.27%
V 292.402†	63.9	0.00052	mg/L	0.000587	0.00052	mg/L	0.000587	112.53%
Zn 206.200†	130.3	0.00351	mg/L	0.000080	0.00351	mg/L	0.000080	2.27%
Cd 226.502†	21.8	0.00029	mg/L	0.000080	0.00029	mg/L	0.000080	27.14%
Ti 334.940†	-95.9	0.00002	mg/L	0.000029	0.00002	mg/L	0.000029	147.83%
Ca 227.546†	3247.7	14.490	mg/L	0.1292	14.490	mg/L	0.1292	0.89%
Na 589.592	101587.5	23.471	mg/L	0.1042	23.471	mg/L	0.1042	0.44%
K 766.490	2045.7	2.2127	mg/L	0.00990	2.2127	mg/L	0.00990	0.45%

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Sequence No.: 17 **Autosampler Location: 43**
Sample ID: L1949-03ADUP~SW 3D **Date Collected: 10/1/2012 11:22:55 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:06 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-03ADUP~SW 3D

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1868970.7	99.542	%	0.7333				0.74%
Lu 261.542	1272962.7	100.5	%	0.68				0.67%
Ag 328.068†	122.5	0.00066	mg/L	0.000246	0.00066	mg/L	0.000246	37.54%
Al 308.215†	373.2	0.01527	mg/L	0.004622	0.01527	mg/L	0.004622	30.27%
As 188.979†	4.1	0.00272	mg/L	0.002478	0.00272	mg/L	0.002478	91.20%
Ba 233.527†	1673.1	0.01707	mg/L	0.000174	0.01707	mg/L	0.000174	1.02%
Be 313.107†	-55.6	-0.00002	mg/L	0.000013	-0.00002	mg/L	0.000013	56.52%
Co 228.616†	3.6	0.00008	mg/L	0.000035	0.00008	mg/L	0.000035	42.14%
Cr 267.716†	56.0	0.00069	mg/L	0.000317	0.00069	mg/L	0.000317	45.85%
Cu 324.752†	465.6	0.00206	mg/L	0.000483	0.00206	mg/L	0.000483	23.45%
Fe 273.955†	3428.2	0.13854	mg/L	0.002338	0.13854	mg/L	0.002338	1.69%
Mg 279.077†	59346.1	3.3197	mg/L	0.04657	3.3197	mg/L	0.04657	1.40%
Mn 257.610†	207260.2	0.35495	mg/L	0.001098	0.35495	mg/L	0.001098	0.31%
Ni 231.604†	-0.3	-0.00002	mg/L	0.000412	-0.00002	mg/L	0.000412	>999.9%
Pb 220.353†	7.5	0.00111	mg/L	0.001593	0.00111	mg/L	0.001593	143.73%
Sb 206.836†	1.3	0.00053	mg/L	0.000633	0.00053	mg/L	0.000633	118.44%
Se 196.026†	-1.1	-0.00103	mg/L	0.003301	-0.00103	mg/L	0.003301	321.59%
Tl 190.801†	-1.8	-0.00089	mg/L	0.001162	-0.00089	mg/L	0.001162	129.92%
V 292.402†	50.6	0.00041	mg/L	0.000219	0.00041	mg/L	0.000219	52.77%
Zn 206.200†	113.1	0.00307	mg/L	0.000171	0.00307	mg/L	0.000171	5.58%
Cd 226.502†	21.3	0.00029	mg/L	0.000073	0.00029	mg/L	0.000073	25.46%
Ti 334.940†	-115.3	-0.00001	mg/L	0.000086	-0.00001	mg/L	0.000086	654.57%
Ca 227.546†	3256.0	14.527	mg/L	0.1194	14.527	mg/L	0.1194	0.82%
Na 589.592	102073.8	23.583	mg/L	0.3471	23.583	mg/L	0.3471	1.47%
K 766.490	1937.2	2.0953	mg/L	0.05428	2.0953	mg/L	0.05428	2.59%

Sequence No.: 18 **Autosampler Location: 44**
Sample ID: L1949-03AMS~SW 3S **Date Collected: 10/1/2012 11:26:40 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:07 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-03AMS~SW 3S

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1825797.7	97.243	%	0.5205				0.54%
Lu 261.542	1245381.2	98.32	%	0.577				0.59%
Ag 328.068†	190887.1	1.1408	mg/L	0.01571	1.1408	mg/L	0.01571	1.38%
Al 308.215†	183402.6	8.9462	mg/L	0.12668	8.9462	mg/L	0.12668	1.42%
As 188.979†	716.6	0.46406	mg/L	0.001434	0.46406	mg/L	0.001434	0.31%
Ba 233.527†	902075.1	9.2064	mg/L	0.01088	9.2064	mg/L	0.01088	0.12%
Be 313.107†	555242.0	0.22598	mg/L	0.000214	0.22598	mg/L	0.000214	0.09%
Co 228.616†	92830.0	2.2634	mg/L	0.03320	2.2634	mg/L	0.03320	1.47%
Cr 267.716†	66022.6	0.90112	mg/L	0.013645	0.90112	mg/L	0.013645	1.51%
Cu 324.752†	251488.6	1.1068	mg/L	0.01552	1.1068	mg/L	0.01552	1.40%
Fe 273.955†	115708.6	4.6797	mg/L	0.07234	4.6797	mg/L	0.07234	1.55%
Mg 279.077†	457616.6	25.596	mg/L	0.0512	25.596	mg/L	0.0512	0.20%
Mn 257.610†	1516568.5	2.5971	mg/L	0.00368	2.5971	mg/L	0.00368	0.14%
Ni 231.604†	75149.8	2.2703	mg/L	0.03315	2.2703	mg/L	0.03315	1.46%
Pb 220.353†	3106.3	0.45413	mg/L	0.000910	0.45413	mg/L	0.000910	0.20%
Sb 206.836†	1046.1	0.48371	mg/L	0.000601	0.48371	mg/L	0.000601	0.12%
Se 196.026†	459.4	0.44819	mg/L	0.003778	0.44819	mg/L	0.003778	0.84%
Tl 190.801†	707.8	0.41638	mg/L	0.004571	0.41638	mg/L	0.004571	1.10%
V 292.402†	276480.9	2.2357	mg/L	0.03159	2.2357	mg/L	0.03159	1.41%
Zn 206.200†	87197.8	2.2521	mg/L	0.03368	2.2521	mg/L	0.03368	1.50%
Cd 226.502†	14543.1	0.22800	mg/L	0.003166	0.22800	mg/L	0.003166	1.39%
Ti 334.940†	181.2	0.00027	mg/L	0.000072	0.00027	mg/L	0.000072	26.73%
Ca 227.546†	8330.7	36.421	mg/L	0.1806	36.421	mg/L	0.1806	0.50%
Na 589.592	200475.7	46.318	mg/L	0.2106	46.318	mg/L	0.2106	0.45%
K 766.490	21997.1	23.793	mg/L	0.0669	23.793	mg/L	0.0669	0.28%

Sequence No.: 19 **Autosampler Location: 45**
Sample ID: L1949-03ASD~SW 3L **Date Collected: 10/1/2012 11:30:22 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:08 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-03ASD~SW 3L

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1877035.3	99.972	%	0.9241				0.92%
Lu 261.542	1276234.3	100.8	%	1.02				1.01%
Ag 328.068†	107.4	0.00063	mg/L	0.000146	0.00063	mg/L	0.000146	23.42%
Al 308.215†	276.3	0.01291	mg/L	0.003579	0.01291	mg/L	0.003579	27.72%
As 188.979†	7.0	0.00445	mg/L	0.001584	0.00445	mg/L	0.001584	35.59%
Ba 233.527†	428.4	0.00437	mg/L	0.000365	0.00437	mg/L	0.000365	8.35%
Be 313.107†	-3.5	0.00000	mg/L	0.000034	0.00000	mg/L	0.000034	>999.9%
Co 228.616†	3.3	0.00008	mg/L	0.000052	0.00008	mg/L	0.000052	65.16%
Cr 267.716†	25.5	0.00033	mg/L	0.000625	0.00033	mg/L	0.000625	187.35%
Cu 324.752†	333.3	0.00147	mg/L	0.000083	0.00147	mg/L	0.000083	5.65%
Fe 273.955†	776.3	0.03137	mg/L	0.001018	0.03137	mg/L	0.001018	3.25%
Mg 279.077†	12058.1	0.67451	mg/L	0.009479	0.67451	mg/L	0.009479	1.41%
Mn 257.610†	42359.6	0.07254	mg/L	0.000917	0.07254	mg/L	0.000917	1.26%
Ni 231.604†	4.6	0.00014	mg/L	0.000129	0.00014	mg/L	0.000129	94.79%
Pb 220.353†	4.2	0.00062	mg/L	0.000289	0.00062	mg/L	0.000289	46.79%
Sb 206.836†	0.3	0.00014	mg/L	0.001493	0.00014	mg/L	0.001493	>999.9%
Se 196.026†	5.5	0.00532	mg/L	0.002864	0.00532	mg/L	0.002864	53.79%
Tl 190.801†	-4.7	-0.00288	mg/L	0.000473	-0.00288	mg/L	0.000473	16.40%
V 292.402†	77.4	0.00063	mg/L	0.000191	0.00063	mg/L	0.000191	30.52%
Zn 206.200†	62.0	0.00163	mg/L	0.000233	0.00163	mg/L	0.000233	14.32%
Cd 226.502†	4.4	0.00006	mg/L	0.000026	0.00006	mg/L	0.000026	44.20%

Ti 334.940†	-59.6	-0.00007	mg/L	0.000049	-0.00007	mg/L	0.000049	74.57%
Ca 227.546†	633.6	2.8268	mg/L	0.06193	2.8268	mg/L	0.06193	2.19%
Na 589.592	20590.5	4.7572	mg/L	0.06480	4.7572	mg/L	0.06480	1.36%
K 766.490	464.4	0.50232	mg/L	0.028610	0.50232	mg/L	0.028610	5.70%

Sequence No.: 20 **Autosampler Location: 38**
Sample ID: MB-68437~PBW **Date Collected: 10/1/2012 11:34:01 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:09 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-68437~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1907382.6	101.59	%	0.791				0.78%
Lu 261.542	1293397.6	102.1	%	0.79				0.77%
Ag 328.068†	152.7	0.00091	mg/L	0.000209	0.00091	mg/L	0.000209	23.08%
Al 308.215†	445.8	0.02177	mg/L	0.005765	0.02177	mg/L	0.005765	26.48%
As 188.979†	3.3	0.00209	mg/L	0.001284	0.00209	mg/L	0.001284	61.33%
Ba 233.527†	48.5	0.00049	mg/L	0.000054	0.00049	mg/L	0.000054	10.95%
Be 313.107†	-32.9	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	150.27%
Co 228.616†	3.6	0.00008	mg/L	0.000091	0.00008	mg/L	0.000091	111.41%
Cr 267.716†	9.6	0.00013	mg/L	0.000882	0.00013	mg/L	0.000882	681.73%
Cu 324.752†	379.1	0.00169	mg/L	0.000516	0.00169	mg/L	0.000516	30.63%
Fe 273.955†	5129.6	0.20730	mg/L	0.004773	0.20730	mg/L	0.004773	2.30%
Mg 279.077†	137.5	0.00769	mg/L	0.004209	0.00769	mg/L	0.004209	54.72%
Mn 257.610†	4455.2	0.00763	mg/L	0.000108	0.00763	mg/L	0.000108	1.41%
Ni 231.604†	4.2	0.00013	mg/L	0.000223	0.00013	mg/L	0.000223	177.57%
Pb 220.353†	4.9	0.00071	mg/L	0.000280	0.00071	mg/L	0.000280	39.58%
Sb 206.836†	-0.1	-0.00007	mg/L	0.001274	-0.00007	mg/L	0.001274	>999.9%
Se 196.026†	5.4	0.00531	mg/L	0.000840	0.00531	mg/L	0.000840	15.81%
Tl 190.801†	0.9	0.00056	mg/L	0.000977	0.00056	mg/L	0.000977	173.41%
V 292.402†	-2.0	-0.00001	mg/L	0.000488	-0.00001	mg/L	0.000488	>999.9%
Zn 206.200†	76.0	0.00197	mg/L	0.000077	0.00197	mg/L	0.000077	3.88%
Cd 226.502†	-0.2	-0.00002	mg/L	0.000059	-0.00002	mg/L	0.000059	315.93%
Ti 334.940†	39.1	0.00007	mg/L	0.000066	0.00007	mg/L	0.000066	101.10%
Ca 227.546†	-13.3	-0.06085	mg/L	0.072307	-0.06085	mg/L	0.072307	118.83%
Na 589.592	236.7	0.05469	mg/L	0.014283	0.05469	mg/L	0.014283	26.12%
K 766.490	35.9	0.03884	mg/L	0.067578	0.03884	mg/L	0.067578	174.00%

Sequence No.: 21 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/1/2012 11:37:40 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:09 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.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1834715.4	97.718	%	0.6929				0.71%
Lu 261.542	1251454.8	98.80	%	0.731				0.74%
Ag 328.068†	210362.6	1.2573	mg/L	0.01197	1.2573	mg/L	0.01197	0.95%
QC value within limits for Ag 328.068 Recovery = 100.58%								
Al 308.215†	199449.3	9.7313	mg/L	0.09421	9.7313	mg/L	0.09421	0.97%
QC value within limits for Al 308.215 Recovery = 97.31%								
As 188.979†	764.8	0.49541	mg/L	0.001128	0.49541	mg/L	0.001128	0.23%
QC value within limits for As 188.979 Recovery = 99.08%								
Ba 233.527†	999541.5	10.201	mg/L	0.0101	10.201	mg/L	0.0101	0.10%
QC value within limits for Ba 233.527 Recovery = 102.01%								
Be 313.107†	598611.4	0.24455	mg/L	0.000101	0.24455	mg/L	0.000101	0.04%
QC value within limits for Be 313.107 Recovery = 97.82%								
Co 228.616†	104760.5	2.5532	mg/L	0.02639	2.5532	mg/L	0.02639	1.03%
QC value within limits for Co 228.616 Recovery = 102.13%								
Cr 267.716†	71670.0	0.97828	mg/L	0.009746	0.97828	mg/L	0.009746	1.00%
QC value within limits for Cr 267.716 Recovery = 97.83%								

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Cu 324.752†          274146.5      1.2065 mg/L       0.01236      1.2065 mg/L       0.01236   1.02%
   QC value within limits for Cu 324.752  Recovery = 96.52%
Fe 273.955†          123577.1      4.9981 mg/L       0.04833      4.9981 mg/L       0.04833   0.97%
   QC value within limits for Fe 273.955  Recovery = 99.96%
Mg 279.077†          444519.7      24.863 mg/L        0.0333      24.863 mg/L        0.0333   0.13%
   QC value within limits for Mg 279.077  Recovery = 99.45%
Mn 257.610†         1455761.5      2.4929 mg/L       0.00282      2.4929 mg/L       0.00282   0.11%
   QC value within limits for Mn 257.610  Recovery = 99.72%
Ni 231.604†           83693.6      2.5281 mg/L       0.02547      2.5281 mg/L       0.02547   1.01%
   QC value within limits for Ni 231.604  Recovery = 101.12%
Pb 220.353†            3389.4     0.49599 mg/L      0.004455     0.49599 mg/L      0.004455   0.90%
   QC value within limits for Pb 220.353  Recovery = 99.20%
Sb 206.836†            1038.1     0.47980 mg/L      0.007492     0.47980 mg/L      0.007492   1.56%
   QC value within limits for Sb 206.836  Recovery = 95.96%
Se 196.026†             497.4     0.48566 mg/L      0.007260     0.48566 mg/L      0.007260   1.49%
   QC value within limits for Se 196.026  Recovery = 97.13%
Tl 190.801†             794.2     0.46722 mg/L      0.005176     0.46722 mg/L      0.005176   1.11%
   QC value within limits for Tl 190.801  Recovery = 93.44%
V 292.402†           304277.6      2.4598 mg/L       0.02694      2.4598 mg/L       0.02694   1.10%
   QC value within limits for V 292.402  Recovery = 98.39%
Zn 206.200†           97442.5      2.5169 mg/L       0.02357      2.5169 mg/L       0.02357   0.94%
   QC value within limits for Zn 206.200  Recovery = 100.68%
Cd 226.502†           15725.8     0.24661 mg/L      0.003501     0.24661 mg/L      0.003501   1.42%
   QC value within limits for Cd 226.502  Recovery = 98.65%
Ti 334.940†          290799.8     0.49529 mg/L      0.000568     0.49529 mg/L      0.000568   0.11%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†            5506.0      23.722 mg/L        0.1663      23.722 mg/L        0.1663   0.70%
   QC value within limits for Ca 227.546  Recovery = 94.89%
Na 589.592           110661.8      25.567 mg/L        0.1277      25.567 mg/L        0.1277   0.50%
   QC value within limits for Na 589.592  Recovery = 102.27%
K 766.490             22984.9      24.861 mg/L        0.0902      24.861 mg/L        0.0902   0.36%
   QC value within limits for K 766.490  Recovery = 99.45%
All analyte(s) passed QC.
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Sequence No.: 22 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/1/2012 11:41:22 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:10 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1894005.7	100.88	%	0.488				0.48%
Lu 261.542	1280229.2	101.1	%	0.47				0.46%
Ag 328.068†	137.7	0.00082	mg/L	0.000470	0.00082	mg/L	0.000470	57.22%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	144.7	0.00708	mg/L	0.001727	0.00708	mg/L	0.001727	24.41%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	5.3	0.00338	mg/L	0.001100	0.00338	mg/L	0.001100	32.51%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	183.6	0.00187	mg/L	0.000363	0.00187	mg/L	0.000363	19.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	68.7	0.00003	mg/L	0.000014	0.00003	mg/L	0.000014	48.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	21.8	0.00053	mg/L	0.000079	0.00053	mg/L	0.000079	14.82%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	14.6	0.00020	mg/L	0.000171	0.00020	mg/L	0.000171	86.20%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	266.6	0.00117	mg/L	0.000300	0.00117	mg/L	0.000300	25.58%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	73.9	0.00299	mg/L	0.003341	0.00299	mg/L	0.003341	111.79%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	152.1	0.00851	mg/L	0.004001	0.00851	mg/L	0.004001	47.04%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	274.1	0.00047	mg/L	0.000188	0.00047	mg/L	0.000188	40.09%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	11.3	0.00034	mg/L	0.000339	0.00034	mg/L	0.000339	98.77%

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   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                4.5     0.00065 mg/L      0.000410     0.00065 mg/L      0.000410  62.87%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                8.8     0.00420 mg/L      0.003625     0.00420 mg/L      0.003625  86.28%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                7.1     0.00685 mg/L      0.003631     0.00685 mg/L      0.003631  53.01%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†               -5.6    -0.00348 mg/L      0.004976    -0.00348 mg/L      0.004976 143.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†               103.3     0.00083 mg/L      0.000326     0.00083 mg/L      0.000326  39.03%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†               58.4     0.00151 mg/L      0.000346     0.00151 mg/L      0.000346  23.00%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†                4.3     0.00007 mg/L      0.000058     0.00007 mg/L      0.000058  84.95%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              129.3     0.00022 mg/L      0.000117     0.00022 mg/L      0.000117  53.41%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†              -13.9    -0.06216 mg/L      0.070551    -0.06216 mg/L      0.070551 113.50%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592               148.1     0.03421 mg/L      0.009231     0.03421 mg/L      0.009231  26.98%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490                161.4     0.17460 mg/L      0.104846     0.17460 mg/L      0.104846  60.05%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 23 **Autosampler Location: 46**
Sample ID: L1949-03APDS~SW 3A **Date Collected: 10/1/2012 11:45:01 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:11 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-03APDS~SW 3A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1824312.9	97.164	%	0.3830				0.39%
Lu 261.542	1242723.2	98.11	%	0.384				0.39%
Ag 328.068†	189644.1	1.1335	mg/L	0.00545	1.1335	mg/L	0.00545	0.48%
Al 308.215†	187019.8	9.1227	mg/L	0.04674	9.1227	mg/L	0.04674	0.51%
As 188.979†	723.2	0.46839	mg/L	0.004608	0.46839	mg/L	0.004608	0.98%
Ba 233.527†	918120.4	9.3701	mg/L	0.05687	9.3701	mg/L	0.05687	0.61%
Be 313.107†	568111.8	0.23122	mg/L	0.001480	0.23122	mg/L	0.001480	0.64%
Co 228.616†	94828.2	2.3121	mg/L	0.01196	2.3121	mg/L	0.01196	0.52%
Cr 267.716†	67097.7	0.91579	mg/L	0.004611	0.91579	mg/L	0.004611	0.50%
Cu 324.752†	256280.3	1.1278	mg/L	0.00610	1.1278	mg/L	0.00610	0.54%
Fe 273.955†	118139.1	4.7780	mg/L	0.02297	4.7780	mg/L	0.02297	0.48%
Mg 279.077†	465991.8	26.065	mg/L	0.1550	26.065	mg/L	0.1550	0.59%
Mn 257.610†	1545657.3	2.6469	mg/L	0.01345	2.6469	mg/L	0.01345	0.51%
Ni 231.604†	76668.0	2.3161	mg/L	0.01122	2.3161	mg/L	0.01122	0.48%
Pb 220.353†	3136.7	0.45858	mg/L	0.000536	0.45858	mg/L	0.000536	0.12%
Sb 206.836†	975.0	0.44949	mg/L	0.003122	0.44949	mg/L	0.003122	0.69%
Se 196.026†	463.8	0.45252	mg/L	0.002172	0.45252	mg/L	0.002172	0.48%
Tl 190.801†	741.8	0.43694	mg/L	0.001968	0.43694	mg/L	0.001968	0.45%
V 292.402†	281636.5	2.2774	mg/L	0.01184	2.2774	mg/L	0.01184	0.52%
Zn 206.200†	89009.7	2.2989	mg/L	0.01146	2.2989	mg/L	0.01146	0.50%
Cd 226.502†	14579.0	0.22857	mg/L	0.000711	0.22857	mg/L	0.000711	0.31%
Ti 334.940†	295.8	0.00046	mg/L	0.000042	0.00046	mg/L	0.000042	9.22%
Ca 227.546†	8422.7	36.816	mg/L	0.0487	36.816	mg/L	0.0487	0.13%
Na 589.592	203405.1	46.995	mg/L	0.0613	46.995	mg/L	0.0613	0.13%
K 766.490	23092.9	24.978	mg/L	0.0568	24.978	mg/L	0.0568	0.23%

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Sequence No.: 24 **Autosampler Location: 47**
Sample ID: L1949-04A~SW 4 **Date Collected: 10/1/2012 11:48:47 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:11 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-04A~SW 4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1889346.2	100.63	%	0.964				0.96%
Lu 261.542	1283600.3	101.3	%	0.95				0.93%
Ag 328.068†	137.1	0.00072	mg/L	0.000302	0.00072	mg/L	0.000302	41.94%
Al 308.215†	25.9	-0.00175	mg/L	0.002013	-0.00175	mg/L	0.002013	115.12%
As 188.979†	4.3	0.00282	mg/L	0.000665	0.00282	mg/L	0.000665	23.57%
Ba 233.527†	1921.5	0.01960	mg/L	0.000469	0.01960	mg/L	0.000469	2.39%
Be 313.107†	117.1	0.00005	mg/L	0.000008	0.00005	mg/L	0.000008	16.14%
Co 228.616†	23.1	0.00056	mg/L	0.000124	0.00056	mg/L	0.000124	22.26%
Cr 267.716†	48.1	0.00056	mg/L	0.000100	0.00056	mg/L	0.000100	17.79%
Cu 324.752†	165.7	0.00074	mg/L	0.000257	0.00074	mg/L	0.000257	34.68%
Fe 273.955†	3765.5	0.15217	mg/L	0.004191	0.15217	mg/L	0.004191	2.75%
Mg 279.077†	57001.9	3.1886	mg/L	0.05603	3.1886	mg/L	0.05603	1.76%
Mn 257.610†	270538.7	0.46334	mg/L	0.006420	0.46334	mg/L	0.006420	1.39%
Ni 231.604†	12.1	0.00035	mg/L	0.000342	0.00035	mg/L	0.000342	97.49%
Pb 220.353†	9.7	0.00143	mg/L	0.000696	0.00143	mg/L	0.000696	48.57%
Sb 206.836†	16.5	0.00777	mg/L	0.002233	0.00777	mg/L	0.002233	28.74%
Se 196.026†	-5.4	-0.00515	mg/L	0.002566	-0.00515	mg/L	0.002566	49.79%
Tl 190.801†	-2.9	-0.00159	mg/L	0.001617	-0.00159	mg/L	0.001617	101.98%
V 292.402†	85.2	0.00069	mg/L	0.000285	0.00069	mg/L	0.000285	41.10%
Zn 206.200†	196.3	0.00525	mg/L	0.000389	0.00525	mg/L	0.000389	7.41%
Cd 226.502†	28.9	0.00041	mg/L	0.000101	0.00041	mg/L	0.000101	24.85%
Ti 334.940†	-38.5	0.00011	mg/L	0.000096	0.00011	mg/L	0.000096	87.88%
Ca 227.546†	3108.0	13.867	mg/L	0.1672	13.867	mg/L	0.1672	1.21%
Na 589.592	103384.6	23.886	mg/L	0.3427	23.886	mg/L	0.3427	1.43%
K 766.490	1987.8	2.1501	mg/L	0.03482	2.1501	mg/L	0.03482	1.62%

Sequence No.: 25 **Autosampler Location: 48**
Sample ID: L1949-05A~SW 5 **Date Collected: 10/1/2012 11:52:27 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:12 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-05A~SW 5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1872396.8	99.725	%	1.2309				1.23%
Lu 261.542	1276584.6	100.8	%	1.27				1.26%
Ag 328.068†	178.1	0.00095	mg/L	0.000351	0.00095	mg/L	0.000351	36.90%
Al 308.215†	735.3	0.03258	mg/L	0.001203	0.03258	mg/L	0.001203	3.69%
As 188.979†	5.6	0.00370	mg/L	0.002403	0.00370	mg/L	0.002403	64.90%
Ba 233.527†	3073.9	0.03136	mg/L	0.000434	0.03136	mg/L	0.000434	1.38%
Be 313.107†	-0.8	0.00000	mg/L	0.000022	0.00000	mg/L	0.000022	>999.9%
Co 228.616†	22.3	0.00053	mg/L	0.000108	0.00053	mg/L	0.000108	20.48%
Cr 267.716†	43.9	0.00049	mg/L	0.000400	0.00049	mg/L	0.000400	80.99%
Cu 324.752†	844.7	0.00377	mg/L	0.000467	0.00377	mg/L	0.000467	12.38%
Fe 273.955†	15500.7	0.62642	mg/L	0.007654	0.62642	mg/L	0.007654	1.22%
Mg 279.077†	62778.2	3.5117	mg/L	0.02942	3.5117	mg/L	0.02942	0.84%
Mn 257.610†	303314.0	0.51947	mg/L	0.000864	0.51947	mg/L	0.000864	0.17%
Ni 231.604†	12.0	0.00035	mg/L	0.000314	0.00035	mg/L	0.000314	90.30%
Pb 220.353†	15.1	0.00222	mg/L	0.000223	0.00222	mg/L	0.000223	10.05%
Sb 206.836†	6.5	0.00296	mg/L	0.000728	0.00296	mg/L	0.000728	24.58%
Se 196.026†	2.9	0.00314	mg/L	0.004966	0.00314	mg/L	0.004966	157.99%
Tl 190.801†	-0.2	0.00018	mg/L	0.003410	0.00018	mg/L	0.003410	>999.9%
V 292.402†	88.9	0.00074	mg/L	0.000240	0.00074	mg/L	0.000240	32.54%
Zn 206.200†	605.6	0.01585	mg/L	0.000214	0.01585	mg/L	0.000214	1.35%
Cd 226.502†	269.7	0.00414	mg/L	0.000154	0.00414	mg/L	0.000154	3.72%
Ti 334.940†	229.2	0.00058	mg/L	0.000092	0.00058	mg/L	0.000092	15.79%
Ca 227.546†	3413.9	15.227	mg/L	0.1954	15.227	mg/L	0.1954	1.28%
Na 589.592	121506.7	28.073	mg/L	0.1270	28.073	mg/L	0.1270	0.45%
K 766.490	2070.4	2.2394	mg/L	0.01892	2.2394	mg/L	0.01892	0.85%

Sequence No.: 26 **Autosampler Location: 49**
Sample ID: L1949-06A~SW 6 **Date Collected: 10/1/2012 11:56:07 AM**

Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:13 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-06A~SW 6

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1853764.3	98.732	%	0.6128				0.62%
Lu 261.542	1261721.9	99.61	%	0.577				0.58%
Ag 328.068†	97.4	0.00034	mg/L	0.000364	0.00034	mg/L	0.000364	108.33%
Al 308.215†	1837.3	0.08439	mg/L	0.004631	0.08439	mg/L	0.004631	5.49%
As 188.979†	4.3	0.00333	mg/L	0.000317	0.00333	mg/L	0.000317	9.49%
Ba 233.527†	2312.0	0.02359	mg/L	0.000091	0.02359	mg/L	0.000091	0.38%
Be 313.107†	-50.4	-0.00002	mg/L	0.000046	-0.00002	mg/L	0.000046	274.98%
Co 228.616†	28.5	0.00053	mg/L	0.000169	0.00053	mg/L	0.000169	32.04%
Cr 267.716†	144.4	0.00173	mg/L	0.000455	0.00173	mg/L	0.000455	26.22%
Cu 324.752†	399.5	0.00239	mg/L	0.000380	0.00239	mg/L	0.000380	15.92%
Fe 273.955†	169313.0	6.8424	mg/L	0.04322	6.8424	mg/L	0.04322	0.63%
Mg 279.077†	86900.7	4.8611	mg/L	0.02792	4.8611	mg/L	0.02792	0.57%
Mn 257.610†	676222.9	1.1582	mg/L	0.00174	1.1582	mg/L	0.00174	0.15%
Ni 231.604†	30.7	0.00091	mg/L	0.000200	0.00091	mg/L	0.000200	22.04%
Pb 220.353†	20.6	0.00294	mg/L	0.000502	0.00294	mg/L	0.000502	17.07%
Sb 206.836†	4.5	0.00164	mg/L	0.002128	0.00164	mg/L	0.002128	129.86%
Se 196.026†	-1.2	0.00225	mg/L	0.001708	0.00225	mg/L	0.001708	76.01%
Tl 190.801†	-4.5	-0.00165	mg/L	0.001290	-0.00165	mg/L	0.001290	78.21%
V 292.402†	105.5	0.00106	mg/L	0.000314	0.00106	mg/L	0.000314	29.46%
Zn 206.200†	794.3	0.02128	mg/L	0.000104	0.02128	mg/L	0.000104	0.49%
Cd 226.502†	58.2	0.00034	mg/L	0.000072	0.00034	mg/L	0.000072	20.99%
Ti 334.940†	1180.0	0.00228	mg/L	0.000039	0.00228	mg/L	0.000039	1.71%
Ca 227.546†	4806.1	21.389	mg/L	0.3828	21.389	mg/L	0.3828	1.79%
Na 589.592	138846.8	32.079	mg/L	0.1994	32.079	mg/L	0.1994	0.62%
K 766.490	2276.3	2.4621	mg/L	0.10303	2.4621	mg/L	0.10303	4.18%

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Sequence No.: 27 **Autosampler Location: 50**
Sample ID: L1949-07A~SW X-FD **Date Collected: 10/1/2012 11:59:49 AM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:14 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-07A~SW X-FD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1841515.5	98.080	%	1.2302				1.25%
Lu 261.542	1247877.0	98.52	%	1.176				1.19%
Ag 328.068†	118.1	0.00060	mg/L	0.000622	0.00060	mg/L	0.000622	103.19%
Al 308.215†	145.3	0.00396	mg/L	0.003139	0.00396	mg/L	0.003139	79.25%
As 188.979†	0.6	0.00046	mg/L	0.000215	0.00046	mg/L	0.000215	46.52%
Ba 233.527†	1887.5	0.01926	mg/L	0.000368	0.01926	mg/L	0.000368	1.91%
Be 313.107†	-0.7	0.00000	mg/L	0.000034	0.00000	mg/L	0.000034	>999.9%
Co 228.616†	3.5	0.00008	mg/L	0.000098	0.00008	mg/L	0.000098	118.91%
Cr 267.716†	28.0	0.00029	mg/L	0.000536	0.00029	mg/L	0.000536	188.00%
Cu 324.752†	436.3	0.00193	mg/L	0.000270	0.00193	mg/L	0.000270	13.97%
Fe 273.955†	3798.9	0.15353	mg/L	0.002268	0.15353	mg/L	0.002268	1.48%
Mg 279.077†	58404.9	3.2671	mg/L	0.04679	3.2671	mg/L	0.04679	1.43%
Mn 257.610†	277394.9	0.47508	mg/L	0.002220	0.47508	mg/L	0.002220	0.47%
Ni 231.604†	18.2	0.00054	mg/L	0.000188	0.00054	mg/L	0.000188	34.96%
Pb 220.353†	4.7	0.00071	mg/L	0.000593	0.00071	mg/L	0.000593	83.26%
Sb 206.836†	7.3	0.00342	mg/L	0.002070	0.00342	mg/L	0.002070	60.62%
Se 196.026†	0.5	0.00059	mg/L	0.003822	0.00059	mg/L	0.003822	648.00%
Tl 190.801†	-6.3	-0.00364	mg/L	0.000582	-0.00364	mg/L	0.000582	16.01%
V 292.402†	17.0	0.00014	mg/L	0.000614	0.00014	mg/L	0.000614	430.32%
Zn 206.200†	339.8	0.00895	mg/L	0.000185	0.00895	mg/L	0.000185	2.06%
Cd 226.502†	28.6	0.00040	mg/L	0.000116	0.00040	mg/L	0.000116	28.95%
Ti 334.940†	-28.1	0.00014	mg/L	0.000027	0.00014	mg/L	0.000027	19.70%
Ca 227.546†	3256.7	14.530	mg/L	0.2899	14.530	mg/L	0.2899	1.99%
Na 589.592	102132.3	23.597	mg/L	0.1616	23.597	mg/L	0.1616	0.68%

K 766.490	2020.7	2.1857	mg/L	0.09680	2.1857	mg/L	0.09680	4.43%

Sequence No.: 28 **Autosampler Location: 51**
Sample ID: L1949-08A~SW FB **Date Collected: 10/1/2012 12:03:28 PM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:14 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-08A~SW FB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1879166.2	100.09	%	0.653				0.65%
Lu 261.542	1271772.3	100.4	%	0.63				0.63%
Ag 328.068†	71.4	0.00043	mg/L	0.000242	0.00043	mg/L	0.000242	56.81%
Al 308.215†	191.7	0.00937	mg/L	0.006834	0.00937	mg/L	0.006834	72.96%
As 188.979†	1.9	0.00119	mg/L	0.001601	0.00119	mg/L	0.001601	134.95%
Ba 233.527†	19.6	0.00020	mg/L	0.000181	0.00020	mg/L	0.000181	90.77%
Be 313.107†	-42.4	-0.00002	mg/L	0.000015	-0.00002	mg/L	0.000015	85.41%
Co 228.616†	-0.7	-0.00002	mg/L	0.000102	-0.00002	mg/L	0.000102	619.26%
Cr 267.716†	22.3	0.00030	mg/L	0.000121	0.00030	mg/L	0.000121	39.80%
Cu 324.752†	185.8	0.00082	mg/L	0.000066	0.00082	mg/L	0.000066	8.09%
Fe 273.955†	48.4	0.00196	mg/L	0.002033	0.00196	mg/L	0.002033	103.86%
Mg 279.077†	110.5	0.00618	mg/L	0.001441	0.00618	mg/L	0.001441	23.32%
Mn 257.610†	163.3	0.00028	mg/L	0.000067	0.00028	mg/L	0.000067	23.80%
Ni 231.604†	2.2	0.00007	mg/L	0.000098	0.00007	mg/L	0.000098	142.45%
Pb 220.353†	3.7	0.00054	mg/L	0.000863	0.00054	mg/L	0.000863	158.29%
Sb 206.836†	-2.5	-0.00122	mg/L	0.002819	-0.00122	mg/L	0.002819	230.33%
Se 196.026†	0.6	0.00062	mg/L	0.003666	0.00062	mg/L	0.003666	589.67%
Tl 190.801†	-8.2	-0.00506	mg/L	0.002950	-0.00506	mg/L	0.002950	58.33%
V 292.402†	21.4	0.00017	mg/L	0.000220	0.00017	mg/L	0.000220	127.38%
Zn 206.200†	38.7	0.00100	mg/L	0.000221	0.00100	mg/L	0.000221	22.19%
Cd 226.502†	2.2	0.00004	mg/L	0.000134	0.00004	mg/L	0.000134	380.76%
Ti 334.940†	23.8	0.00004	mg/L	0.000091	0.00004	mg/L	0.000091	223.82%
Ca 227.546†	-7.4	-0.03288	mg/L	0.057548	-0.03288	mg/L	0.057548	175.03%
Na 589.592	203.2	0.04695	mg/L	0.013997	0.04695	mg/L	0.013997	29.81%
K 766.490	45.4	0.04916	mg/L	0.026011	0.04916	mg/L	0.026011	52.91%

Sequence No.: 29 **Autosampler Location: 52**
Sample ID: L1976-01B~EFF-092012 **Date Collected: 10/1/2012 12:07:07 PM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:15 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1976-01B~EFF-092012

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1834174.4	97.689	%	0.7714				0.79%
Lu 261.542	1246288.7	98.39	%	0.712				0.72%
Ag 328.068†	60.2	0.00034	mg/L	0.000523	0.00034	mg/L	0.000523	153.04%
Al 308.215†	321.8	0.00297	mg/L	0.006050	0.00297	mg/L	0.006050	203.97%
As 188.979†	-2.6	-0.00067	mg/L	0.003527	-0.00067	mg/L	0.003527	527.17%
Ba 233.527†	8529.0	0.08702	mg/L	0.000646	0.08702	mg/L	0.000646	0.74%
Be 313.107†	-109.0	-0.00005	mg/L	0.000013	-0.00005	mg/L	0.000013	26.72%
Co 228.616†	5.0	0.00012	mg/L	0.000036	0.00012	mg/L	0.000036	29.00%
Cr 267.716†	21.2	0.00027	mg/L	0.000105	0.00027	mg/L	0.000105	38.38%
Cu 324.752†	466.9	0.00206	mg/L	0.000305	0.00206	mg/L	0.000305	14.83%
Fe 273.955†	628.2	0.02539	mg/L	0.000130	0.02539	mg/L	0.000130	0.51%
Mg 279.077†	167522.7	9.3710	mg/L	0.09259	9.3710	mg/L	0.09259	0.99%
Mn 257.610†	46810.0	0.07999	mg/L	0.000846	0.07999	mg/L	0.000846	1.06%
Ni 231.604†	55.5	0.00164	mg/L	0.000165	0.00164	mg/L	0.000165	10.04%
Pb 220.353†	3.5	0.00051	mg/L	0.000555	0.00051	mg/L	0.000555	107.76%
Sb 206.836†	5.8	0.00256	mg/L	0.000851	0.00256	mg/L	0.000851	33.26%
Se 196.026†	-0.0	-0.00002	mg/L	0.003249	-0.00002	mg/L	0.003249	>999.9%
Tl 190.801†	-5.3	-0.00308	mg/L	0.002261	-0.00308	mg/L	0.002261	73.42%
V 292.402†	32.9	0.00027	mg/L	0.000661	0.00027	mg/L	0.000661	245.85%

Zn 206.200†	103.5	0.00270	mg/L	0.000065	0.00270	mg/L	0.000065	2.41%
Cd 226.502†	-7.0	-0.00032	mg/L	0.000038	-0.00032	mg/L	0.000038	12.01%
Ti 334.940†	-956.1	-0.00046	mg/L	0.000065	-0.00046	mg/L	0.000065	14.24%
Ca 227.546†	17902.3	79.894	mg/L	0.6911	79.894	mg/L	0.6911	0.86%
Na 589.592	53577.6	12.379	mg/L	0.0781	12.379	mg/L	0.0781	0.63%
K 766.490	938.9	1.0155	mg/L	0.08056	1.0155	mg/L	0.08056	7.93%

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Sequence No.: 30 **Autosampler Location: 53**
Sample ID: L1976-02B~INF-092012 **Date Collected: 10/1/2012 12:10:46 PM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:16 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1976-02B~INF-092012

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1867584.6	99.469	%	0.3879				0.39%
Lu 261.542	1271272.9	100.4	%	0.50				0.50%
Ag 328.068†	188.2	0.00112	mg/L	0.000458	0.00112	mg/L	0.000458	40.93%
Al 308.215†	453.2	0.01035	mg/L	0.003644	0.01035	mg/L	0.003644	35.22%
As 188.979†	-0.7	0.00050	mg/L	0.000442	0.00050	mg/L	0.000442	88.69%
Ba 233.527†	6572.2	0.06705	mg/L	0.000420	0.06705	mg/L	0.000420	0.63%
Be 313.107†	-65.7	-0.00003	mg/L	0.000009	-0.00003	mg/L	0.000009	29.18%
Co 228.616†	0.6	0.00002	mg/L	0.000071	0.00002	mg/L	0.000071	408.20%
Cr 267.716†	23.3	0.00031	mg/L	0.000116	0.00031	mg/L	0.000116	36.86%
Cu 324.752†	658.6	0.00290	mg/L	0.000210	0.00290	mg/L	0.000210	7.25%
Fe 273.955†	486.4	0.01966	mg/L	0.000261	0.01966	mg/L	0.000261	1.33%
Mg 279.077†	177333.2	9.9198	mg/L	0.05917	9.9198	mg/L	0.05917	0.60%
Mn 257.610†	7315.8	0.01233	mg/L	0.000073	0.01233	mg/L	0.000073	0.59%
Ni 231.604†	20.7	0.00059	mg/L	0.000102	0.00059	mg/L	0.000102	17.40%
Pb 220.353†	8.3	0.00121	mg/L	0.001028	0.00121	mg/L	0.001028	84.77%
Sb 206.836†	1.8	0.00065	mg/L	0.000671	0.00065	mg/L	0.000671	102.85%
Se 196.026†	0.1	0.00008	mg/L	0.002341	0.00008	mg/L	0.002341	>999.9%
Tl 190.801†	-10.0	-0.00596	mg/L	0.000743	-0.00596	mg/L	0.000743	12.46%
V 292.402†	17.3	0.00014	mg/L	0.000404	0.00014	mg/L	0.000404	284.30%
Zn 206.200†	166.4	0.00429	mg/L	0.000120	0.00429	mg/L	0.000120	2.80%
Cd 226.502†	-0.9	-0.00021	mg/L	0.000106	-0.00021	mg/L	0.000106	51.50%
Ti 334.940†	-830.5	-0.00036	mg/L	0.000056	-0.00036	mg/L	0.000056	15.64%
Ca 227.546†	16563.5	73.919	mg/L	0.8191	73.919	mg/L	0.8191	1.11%
Na 589.592	52759.2	12.189	mg/L	0.0853	12.189	mg/L	0.0853	0.70%
K 766.490	753.5	0.81503	mg/L	0.044329	0.81503	mg/L	0.044329	5.44%

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Sequence No.: 31 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/1/2012 12:14:25 PM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:17 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.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1854263.7	98.759	%	0.9430				0.95%
Lu 261.542	1262955.2	99.71	%	0.950				0.95%
Ag 328.068†	211491.5	1.2641	mg/L	0.01641	1.2641	mg/L	0.01641	1.30%
QC value within limits for Ag 328.068 Recovery = 101.12%								
Al 308.215†	200453.6	9.7803	mg/L	0.14126	9.7803	mg/L	0.14126	1.44%
QC value within limits for Al 308.215 Recovery = 97.80%								
As 188.979†	765.5	0.49588	mg/L	0.003795	0.49588	mg/L	0.003795	0.77%
QC value within limits for As 188.979 Recovery = 99.18%								
Ba 233.527†	998891.4	10.194	mg/L	0.0181	10.194	mg/L	0.0181	0.18%
QC value within limits for Ba 233.527 Recovery = 101.94%								
Be 313.107†	599299.0	0.24483	mg/L	0.000242	0.24483	mg/L	0.000242	0.10%
QC value within limits for Be 313.107 Recovery = 97.93%								
Co 228.616†	105282.4	2.5659	mg/L	0.03210	2.5659	mg/L	0.03210	1.25%
QC value within limits for Co 228.616 Recovery = 102.64%								

```
Cr 267.716†            71901.3     0.98143 mg/L      0.011872     0.98143 mg/L      0.011872   1.21%
   QC value within limits for Cr 267.716  Recovery = 98.14%
Cu 324.752†           274931.0      1.2099 mg/L       0.01536      1.2099 mg/L       0.01536   1.27%
   QC value within limits for Cu 324.752  Recovery = 96.79%
Fe 273.955†           124179.5      5.0225 mg/L       0.06840      5.0225 mg/L       0.06840   1.36%
   QC value within limits for Fe 273.955  Recovery = 100.45%
Mg 279.077†           446663.1      24.983 mg/L        0.0451      24.983 mg/L        0.0451   0.18%
   QC value within limits for Mg 279.077  Recovery = 99.93%
Mn 257.610†          1458580.3      2.4978 mg/L       0.00312      2.4978 mg/L       0.00312   0.13%
   QC value within limits for Mn 257.610  Recovery = 99.91%
Ni 231.604†            84057.6      2.5391 mg/L       0.03223      2.5391 mg/L       0.03223   1.27%
   QC value within limits for Ni 231.604  Recovery = 101.56%
Pb 220.353†             3385.9     0.49550 mg/L      0.005501     0.49550 mg/L      0.005501   1.11%
   QC value within limits for Pb 220.353  Recovery = 99.10%
Sb 206.836†             1032.9     0.47728 mg/L      0.007093     0.47728 mg/L      0.007093   1.49%
   QC value within limits for Sb 206.836  Recovery = 95.46%
Se 196.026†              503.1     0.49115 mg/L      0.001029     0.49115 mg/L      0.001029   0.21%
   QC value within limits for Se 196.026  Recovery = 98.23%
Tl 190.801†              795.4     0.46787 mg/L      0.004773     0.46787 mg/L      0.004773   1.02%
   QC value within limits for Tl 190.801  Recovery = 93.57%
V 292.402†            305317.0      2.4682 mg/L       0.03366      2.4682 mg/L       0.03366   1.36%
   QC value within limits for V 292.402  Recovery = 98.73%
Zn 206.200†            98180.9      2.5360 mg/L       0.03314      2.5360 mg/L       0.03314   1.31%
   QC value within limits for Zn 206.200  Recovery = 101.44%
Cd 226.502†            15781.9     0.24749 mg/L      0.003736     0.24749 mg/L      0.003736   1.51%
   QC value within limits for Cd 226.502  Recovery = 99.00%
Ti 334.940†           290401.8     0.49461 mg/L      0.001780     0.49461 mg/L      0.001780   0.36%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             5503.2      23.705 mg/L        0.3171      23.705 mg/L        0.3171   1.34%
   QC value within limits for Ca 227.546  Recovery = 94.82%
Na 589.592            113412.8      26.203 mg/L        0.3475      26.203 mg/L        0.3475   1.33%
   QC value within limits for Na 589.592  Recovery = 104.81%
K 766.490              24011.1      25.971 mg/L        0.3372      25.971 mg/L        0.3372   1.30%
   QC value within limits for K 766.490  Recovery = 103.89%
All analyte(s) passed QC.
```

Sequence No.: 32 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/1/2012 12:18:10 PM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:17 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1915594.0	102.03	%	0.284				0.28%
Lu 261.542	1295713.5	102.3	%	0.37				0.36%
Ag 328.068†	102.9	0.00061	mg/L	0.000244	0.00061	mg/L	0.000244	39.70%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	115.5	0.00564	mg/L	0.004699	0.00564	mg/L	0.004699	83.28%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	5.6	0.00359	mg/L	0.000427	0.00359	mg/L	0.000427	11.90%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	132.4	0.00135	mg/L	0.000332	0.00135	mg/L	0.000332	24.54%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	48.9	0.00002	mg/L	0.000010	0.00002	mg/L	0.000010	47.70%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	16.1	0.00039	mg/L	0.000235	0.00039	mg/L	0.000235	59.97%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	17.8	0.00024	mg/L	0.000372	0.00024	mg/L	0.000372	153.26%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	140.5	0.00062	mg/L	0.000377	0.00062	mg/L	0.000377	60.98%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	60.0	0.00243	mg/L	0.002370	0.00243	mg/L	0.002370	97.68%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	133.7	0.00748	mg/L	0.003019	0.00748	mg/L	0.003019	40.37%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	190.0	0.00033	mg/L	0.000092	0.00033	mg/L	0.000092	28.22%

```
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†              10.8     0.00033 mg/L      0.000139     0.00033 mg/L      0.000139  42.74%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               7.5     0.00110 mg/L      0.000330     0.00110 mg/L      0.000330  30.12%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               7.6     0.00362 mg/L      0.001992     0.00362 mg/L      0.001992  55.00%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -1.1    -0.00106 mg/L      0.003238    -0.00106 mg/L      0.003238 306.67%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†              -1.2    -0.00072 mg/L      0.003188    -0.00072 mg/L      0.003188 443.73%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†               58.0     0.00047 mg/L      0.000142     0.00047 mg/L      0.000142  30.40%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†              45.3     0.00117 mg/L      0.000176     0.00117 mg/L      0.000176  15.06%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†               6.4     0.00010 mg/L      0.000013     0.00010 mg/L      0.000013  13.38%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†             155.9     0.00027 mg/L      0.000025     0.00027 mg/L      0.000025   9.59%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†              -5.2    -0.02328 mg/L      0.049703    -0.02328 mg/L      0.049703 213.46%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Na 589.592               91.9     0.02124 mg/L      0.002631     0.02124 mg/L      0.002631  12.38%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490                88.7     0.09596 mg/L      0.017559     0.09596 mg/L      0.017559  18.30%
   QC value within limits for K 766.490  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 33 **Autosampler Location: 54**
Sample ID: L1983-01C~STA-01 **Date Collected: 10/1/2012 12:21:49 PM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:18 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1983-01C~STA-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1886482.2	100.48	%	0.871				0.87%
Lu 261.542	1281949.1	101.2	%	0.92				0.91%
Ag 328.068†	255.3	0.00115	mg/L	0.000152	0.00115	mg/L	0.000152	13.22%
Al 308.215†	1950.0	0.08818	mg/L	0.001765	0.08818	mg/L	0.001765	2.00%
As 188.979†	5.9	0.00393	mg/L	0.002287	0.00393	mg/L	0.002287	58.17%
Ba 233.527†	1715.9	0.01751	mg/L	0.000135	0.01751	mg/L	0.000135	0.77%
Be 313.107†	70.8	0.00003	mg/L	0.000009	0.00003	mg/L	0.000009	30.30%
Co 228.616†	1115.2	0.02712	mg/L	0.000317	0.02712	mg/L	0.000317	1.17%
Cr 267.716†	73.6	0.00065	mg/L	0.000233	0.00065	mg/L	0.000233	35.90%
Cu 324.752†	1322.5	0.00610	mg/L	0.000521	0.00610	mg/L	0.000521	8.55%
Fe 273.955†	74339.7	3.0042	mg/L	0.03665	3.0042	mg/L	0.03665	1.22%
Mg 279.077†	96323.2	5.3882	mg/L	0.06534	5.3882	mg/L	0.06534	1.21%
Mn 257.610†	1018319.4	1.7442	mg/L	0.00170	1.7442	mg/L	0.00170	0.10%
Ni 231.604†	421.1	0.01270	mg/L	0.000192	0.01270	mg/L	0.000192	1.51%
Pb 220.353†	0.7	0.00015	mg/L	0.000502	0.00015	mg/L	0.000502	334.59%
Sb 206.836†	15.6	0.00714	mg/L	0.002197	0.00714	mg/L	0.002197	30.76%
Se 196.026†	1.8	0.00324	mg/L	0.001542	0.00324	mg/L	0.001542	47.65%
Tl 190.801†	0.5	0.00116	mg/L	0.001164	0.00116	mg/L	0.001164	100.77%
V 292.402†	41.2	0.00043	mg/L	0.000153	0.00043	mg/L	0.000153	35.97%
Zn 206.200†	619.5	0.01683	mg/L	0.000205	0.01683	mg/L	0.000205	1.22%
Cd 226.502†	11.9	-0.00010	mg/L	0.000040	-0.00010	mg/L	0.000040	37.86%
Ti 334.940†	365.9	0.00097	mg/L	0.000164	0.00097	mg/L	0.000164	16.89%
Ca 227.546†	5969.8	26.603	mg/L	0.3252	26.603	mg/L	0.3252	1.22%
Na 589.592	61156.2	14.129	mg/L	0.0766	14.129	mg/L	0.0766	0.54%
K 766.490	1310.7	1.4177	mg/L	0.07854	1.4177	mg/L	0.07854	5.54%

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Sequence No.: 34 **Autosampler Location: 55**
Sample ID: L1983-02C~STA-02 **Date Collected: 10/1/2012 12:25:29 PM**
Analyst: **Data Type: Reprocessed on 10/2/2012 8:00:19 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**

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Reprocessing Begun
Logged In Analyst: mitOptima3 **Technique: ICP Continuous**

Results Data Set (original): B12100401
Results Library (original): C:\pe\Administrator\Results\Results.mdb
Results Data Set (reprocessed): B12100401A
Results Library (reprocessed): C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 10/4/2012 8:29:02 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:10 AM**
Logged In Analyst (Original) : mitOptima3
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	1841367.7	29069.26	1.58%	100.00	%
Lu 261.542	1239625.7	19576.96	1.58%	100.0	%
Ag 328.068†	-2924.1	54.59	1.87%	[0.00]	mg/L
Al 308.215†	2296.3	65.49	2.85%	[0.00]	mg/L
As 188.979†	-11.8	1.39	11.74%	[0.00]	mg/L
Ba 233.527†	-86.3	4.58	5.30%	[0.00]	mg/L
Be 313.107†	-1134.0	26.33	2.32%	[0.00]	mg/L
Co 228.616†	-20.1	1.17	5.82%	[0.00]	mg/L
Cr 267.716†	44.5	4.49	10.09%	[0.00]	mg/L
Cu 324.752†	3377.4	25.92	0.77%	[0.00]	mg/L
Fe 273.955†	-162.3	24.95	15.37%	[0.00]	mg/L
Mg 279.077†	-889.4	41.33	4.65%	[0.00]	mg/L
Mn 257.610†	-90.6	21.45	23.67%	[0.00]	mg/L
Ni 231.604†	-28.2	2.90	10.28%	[0.00]	mg/L
Pb 220.353†	15.6	4.46	28.57%	[0.00]	mg/L
Sb 206.836†	57.8	2.12	3.67%	[0.00]	mg/L
Se 196.026†	1.8	1.49	81.48%	[0.00]	mg/L
Tl 190.801†	-0.7	3.91	522.74%	[0.00]	mg/L
V 292.402†	-49.7	41.81	84.04%	[0.00]	mg/L
Zn 206.200†	40.3	3.07	7.62%	[0.00]	mg/L
Cd 226.502†	-67.2	6.96	10.36%	[0.00]	mg/L
Ti 334.940†	-64.6	10.69	16.54%	[0.00]	mg/L
Ca 227.546†	142.4	1.04	0.73%	[0.00]	mg/L

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Sequence No.: 2 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 10/4/2012 8:32:31 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:28 AM**
Logged In Analyst (Original) : mitOptima3
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	1771837.4	2948.65	0.17%	96.224	%
Lu 261.542	1199176.6	2337.03	0.19%	96.74	%
Ag 328.068†	394911.0	2422.28	0.61%	[2.5]	mg/L
Al 308.215†	385494.5	3086.49	0.80%	[20]	mg/L
As 188.979†	1285.1	10.14	0.79%	[1]	mg/L
Ba 233.527†	1670338.7	7557.83	0.45%	[20]	mg/L
Be 313.107†	1165435.5	4931.68	0.42%	[0.5]	mg/L
Co 228.616†	185052.6	1423.77	0.77%	[5]	mg/L
Cr 267.716†	131902.7	944.00	0.72%	[2]	mg/L
Cu 324.752†	521433.1	2522.70	0.48%	[2.5]	mg/L
Fe 273.955†	228838.8	1916.89	0.84%	[10]	mg/L
Mg 279.077†	800332.2	3545.02	0.44%	[50]	mg/L
Mn 257.610†	2760542.9	11520.36	0.42%	[5]	mg/L

Ni 231.604†	147402.8	1060.39	0.72%	[5]	mg/L
Pb 220.353†	5822.5	29.74	0.51%	[1]	mg/L
Sb 206.836†	1764.7	12.10	0.69%	[1]	mg/L
Se 196.026†	799.5	2.90	0.36%	[1]	mg/L
Tl 190.801†	1482.0	12.64	0.85%	[1]	mg/L
V 292.402†	567945.7	2386.73	0.42%	[5]	mg/L
Zn 206.200†	162133.0	1262.43	0.78%	[5]	mg/L
Cd 226.502†	28341.7	212.00	0.75%	[0.5]	mg/L
Ti 334.940†	513773.4	2619.21	0.51%	[1]	mg/L
Ca 227.546†	10475.1	47.15	0.45%	[50]	mg/L

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 10/4/2012 8:36:06 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:29 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1776817.8	15528.82	0.87%	96.494	%
Lu 261.542	1203470.2	11430.99	0.95%	97.08	%
Ag 328.068†	198090.1	1996.74	1.01%	[1.25]	mg/L
Al 308.215†	192522.1	2009.50	1.04%	[10]	mg/L
As 188.979†	655.5	11.12	1.70%	[0.5]	mg/L
Ba 233.527†	876611.0	2224.26	0.25%	[10]	mg/L
Be 313.107†	599028.1	1277.59	0.21%	[0.25]	mg/L
Co 228.616†	94686.3	1033.58	1.09%	[2.5]	mg/L
Cr 267.716†	66977.1	678.03	1.01%	[1]	mg/L
Cu 324.752†	258836.8	2793.19	1.08%	[1.25]	mg/L
Fe 273.955†	116586.7	1300.94	1.12%	[5]	mg/L
Mg 279.077†	413704.2	994.32	0.24%	[25]	mg/L
Mn 257.610†	1437925.0	3224.98	0.22%	[2.5]	mg/L
Ni 231.604†	75685.4	775.89	1.03%	[2.5]	mg/L
Pb 220.353†	3021.1	38.82	1.29%	[0.5]	mg/L
Sb 206.836†	911.7	10.89	1.19%	[0.5]	mg/L
Se 196.026†	415.3	2.43	0.58%	[0.5]	mg/L
Tl 190.801†	768.9	3.30	0.43%	[0.5]	mg/L
V 292.402†	285053.0	3049.24	1.07%	[2.5]	mg/L
Zn 206.200†	83169.4	1025.86	1.23%	[2.5]	mg/L
Cd 226.502†	14438.0	123.36	0.85%	[0.25]	mg/L
Ti 334.940†	263208.2	1388.88	0.53%	[0.5]	mg/L
Ca 227.546†	5299.6	43.40	0.82%	[25]	mg/L

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 10/4/2012 8:39:39 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:29 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1823717.9	9865.31	0.54%	99.041	%
Lu 261.542	1230997.6	6655.93	0.54%	99.30	%
Ag 328.068†	4315.3	67.02	1.55%	[0.025]	mg/L
Al 308.215†	3850.5	38.06	0.99%	[0.2]	mg/L
As 188.979†	16.5	2.12	12.86%	[0.01]	mg/L
Ba 233.527†	18620.3	136.59	0.73%	[0.2]	mg/L
Be 313.107†	12077.8	104.16	0.86%	[0.005]	mg/L
Co 228.616†	1946.3	15.16	0.78%	[0.05]	mg/L
Cr 267.716†	1427.4	20.77	1.46%	[0.02]	mg/L
Cu 324.752†	5181.4	32.13	0.62%	[0.025]	mg/L
Fe 273.955†	2422.7	32.25	1.33%	[0.1]	mg/L
Mg 279.077†	8574.1	61.24	0.71%	[0.5]	mg/L

Mn 257.610†	30803.8	224.50	0.73%	[0.05]	mg/L
Ni 231.604†	1550.4	18.89	1.22%	[0.05]	mg/L
Pb 220.353†	68.6	3.13	4.57%	[0.01]	mg/L
Sb 206.836†	40.2	3.78	9.42%	[0.01]	mg/L
Se 196.026†	7.1	4.40	62.25%	[0.01]	mg/L
Tl 190.801†	19.1	1.92	10.05%	[0.01]	mg/L
V 292.402†	5918.7	2.50	0.04%	[0.05]	mg/L
Zn 206.200†	1729.2	12.14	0.70%	[0.05]	mg/L
Cd 226.502†	304.8	4.05	1.33%	[0.005]	mg/L
Ti 334.940†	5440.7	17.66	0.32%	[0.01]	mg/L
Ca 227.546†	115.8	6.81	5.88%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	158100	0.00000	0.999999	
Al 308.215	3	Lin Thru 0	0.0	19270	0.00000	1.000000	
As 188.979	3	Lin Thru 0	0.0	1290	0.00000	0.999965	
Ba 233.527	3	Lin Thru 0	0.0	84350	0.00000	0.999807	
Be 313.107	3	Lin Thru 0	0.0	2344000	0.00000	0.999938	
Co 228.616	3	Lin Thru 0	0.0	37180	0.00000	0.999957	
Cr 267.716	3	Lin Thru 0	0.0	66160	0.00000	0.999981	
Cu 324.752	3	Lin Thru 0	0.0	208300	0.00000	0.999996	
Fe 273.955	3	Lin Thru 0	0.0	22970	0.00000	0.999971	
Mg 279.077	3	Lin Thru 0	0.0	16120	0.00000	0.999910	
Mn 257.610	3	Lin Thru 0	0.0	556700	0.00000	0.999862	
Ni 231.604	3	Lin Thru 0	0.0	29640	0.00000	0.999943	
Pb 220.353	3	Lin Thru 0	0.0	5866	0.00000	0.999887	
Sb 206.836	3	Lin Thru 0	0.0	1777	0.00000	0.999849	
Se 196.026	3	Lin Thru 0	0.0	805.7	0.00000	0.999880	
Tl 190.801	3	Lin Thru 0	0.0	1493	0.00000	0.999885	
V 292.402	3	Lin Thru 0	0.0	113700	0.00000	0.999999	
Zn 206.200	3	Lin Thru 0	0.0	32590	0.00000	0.999947	
Cd 226.502	3	Lin Thru 0	0.0	56900	0.00000	0.999972	
Ti 334.940	3	Lin Thru 0	0.0	516300	0.00000	0.999952	
Ca 227.546	3	Lin Thru 0	0.0	210.0	0.00000	0.999988	

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Sequence No.: 5 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 10/4/2012 8:43:10 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:30 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1780059.7	96.671	%	0.5703				0.59%
Lu 261.542	1204984.2	97.21	%	0.600				0.62%
Ag 328.068†	196407.8	1.2468	mg/L	0.00924	1.2468	mg/L	0.00924	0.74%
QC value within limits for Ag 328.068 Recovery = 99.74%								
Al 308.215†	189441.0	9.8214	mg/L	0.05743	9.8214	mg/L	0.05743	0.58%
QC value within limits for Al 308.215 Recovery = 98.21%								
As 188.979†	644.8	0.50792	mg/L	0.001765	0.50792	mg/L	0.001765	0.35%
QC value within limits for As 188.979 Recovery = 101.58%								
Ba 233.527†	868713.2	10.303	mg/L	0.0166	10.303	mg/L	0.0166	0.16%
QC value within limits for Ba 233.527 Recovery = 103.03%								
Be 313.107†	576282.3	0.24685	mg/L	0.000532	0.24685	mg/L	0.000532	0.22%
QC value within limits for Be 313.107 Recovery = 98.74%								
Co 228.616†	95515.0	2.5671	mg/L	0.01502	2.5671	mg/L	0.01502	0.59%
QC value within limits for Co 228.616 Recovery = 102.68%								
Cr 267.716†	65059.1	0.98366	mg/L	0.006257	0.98366	mg/L	0.006257	0.64%
QC value within limits for Cr 267.716 Recovery = 98.37%								
Cu 324.752†	255175.4	1.2264	mg/L	0.00593	1.2264	mg/L	0.00593	0.48%
QC value within limits for Cu 324.752 Recovery = 98.11%								
Fe 273.955†	115468.4	5.0309	mg/L	0.03079	5.0309	mg/L	0.03079	0.61%
QC value within limits for Fe 273.955 Recovery = 100.62%								
Mg 279.077†	406693.2	25.234	mg/L	0.0244	25.234	mg/L	0.0244	0.10%

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   QC value within limits for Mg 279.077  Recovery = 100.94%
Mn 257.610†          1405894.6      2.5247 mg/L       0.00177      2.5247 mg/L       0.00177   0.07%
   QC value within limits for Mn 257.610  Recovery = 100.99%
Ni 231.604†            75305.2      2.5402 mg/L       0.01295      2.5402 mg/L       0.01295   0.51%
   QC value within limits for Ni 231.604  Recovery = 101.61%
Pb 220.353†             2937.8     0.50268 mg/L      0.001128     0.50268 mg/L      0.001128   0.22%
   QC value within limits for Pb 220.353  Recovery = 100.54%
Sb 206.836†              908.2     0.49515 mg/L      0.004408     0.49515 mg/L      0.004408   0.89%
   QC value within limits for Sb 206.836  Recovery = 99.03%
Se 196.026†              396.9     0.49848 mg/L      0.010275     0.49848 mg/L      0.010275   2.06%
   QC value within limits for Se 196.026  Recovery = 99.70%
Tl 190.801†              734.5     0.46855 mg/L      0.003202     0.46855 mg/L      0.003202   0.68%
   QC value within limits for Tl 190.801  Recovery = 93.71%
V 292.402†            282566.7      2.4871 mg/L       0.01370      2.4871 mg/L       0.01370   0.55%
   QC value within limits for V 292.402  Recovery = 99.48%
Zn 206.200†            82383.6      2.5331 mg/L       0.01428      2.5331 mg/L       0.01428   0.56%
   QC value within limits for Zn 206.200  Recovery = 101.33%
Cd 226.502†            14099.5     0.24802 mg/L      0.001178     0.24802 mg/L      0.001178   0.47%
   QC value within limits for Cd 226.502  Recovery = 99.21%
Ti 334.940†           255749.2     0.49509 mg/L      0.001839     0.49509 mg/L      0.001839   0.37%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             5223.4      24.016 mg/L        0.1241      24.016 mg/L        0.1241   0.52%
   QC value within limits for Ca 227.546  Recovery = 96.06%
All analyte(s) passed QC.
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Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 10/4/2012 8:46:44 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:34 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1837308.8	99.780	%	1.3774				1.38%
Lu 261.542	1239026.9	99.95	%	1.420				1.42%
Ag 328.068†	190.2	0.00120	mg/L	0.000140	0.00120	mg/L	0.000140	11.58%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	9.9	0.00050	mg/L	0.001601	0.00050	mg/L	0.001601	317.64%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.7	0.00364	mg/L	0.002774	0.00364	mg/L	0.002774	76.27%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	165.0	0.00196	mg/L	0.000607	0.00196	mg/L	0.000607	31.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	114.5	0.00005	mg/L	0.000007	0.00005	mg/L	0.000007	14.58%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	30.7	0.00082	mg/L	0.000258	0.00082	mg/L	0.000258	31.25%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	17.4	0.00026	mg/L	0.000172	0.00026	mg/L	0.000172	65.54%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	110.3	0.00053	mg/L	0.000267	0.00053	mg/L	0.000267	50.38%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	-42.8	-0.00186	mg/L	0.000370	-0.00186	mg/L	0.000370	19.87%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	45.7	0.00284	mg/L	0.004402	0.00284	mg/L	0.004402	155.11%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	219.0	0.00039	mg/L	0.000166	0.00039	mg/L	0.000166	42.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	16.3	0.00055	mg/L	0.000279	0.00055	mg/L	0.000279	50.78%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-3.3	-0.00057	mg/L	0.000589	-0.00057	mg/L	0.000589	103.61%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	18.9	0.01064	mg/L	0.001977	0.01064	mg/L	0.001977	18.58%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.4	-0.00055	mg/L	0.003413	-0.00055	mg/L	0.003413	617.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-0.8	-0.00054	mg/L	0.003947	-0.00054	mg/L	0.003947	727.36%
QC value within limits for Tl 190.801 Recovery = Not calculated								

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V 292.402†                81.3     0.00072 mg/L      0.000220     0.00072 mg/L      0.000220  30.74%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†               20.8     0.00064 mg/L      0.000141     0.00064 mg/L      0.000141  22.02%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†                8.3     0.00015 mg/L      0.000108     0.00015 mg/L      0.000108  73.80%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†              175.3     0.00034 mg/L      0.000093     0.00034 mg/L      0.000093  27.30%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†               10.6     0.05016 mg/L      0.032201     0.05016 mg/L      0.032201  64.19%
   QC value within limits for Ca 227.546  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 7 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 10/4/2012 8:50:15 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:35 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1823210.9	99.014	%	1.0048				1.01%
Lu 261.542	1232376.7	99.42	%	1.132				1.14%
Ag 328.068†	4997.6	0.03170	mg/L	0.000956	0.03170	mg/L	0.000956	3.02%
QC value within limits for Ag 328.068 Recovery = 105.67%								
Al 308.215†	3845.8	0.19932	mg/L	0.003988	0.19932	mg/L	0.003988	2.00%
QC value within limits for Al 308.215 Recovery = 99.66%								
As 188.979†	29.6	0.02309	mg/L	0.001626	0.02309	mg/L	0.001626	7.04%
QC value within limits for As 188.979 Recovery = 115.45%								
Ba 233.527†	18054.6	0.21412	mg/L	0.002911	0.21412	mg/L	0.002911	1.36%
QC value within limits for Ba 233.527 Recovery = 107.06%								
Be 313.107†	11775.7	0.00506	mg/L	0.000081	0.00506	mg/L	0.000081	1.60%
QC value within limits for Be 313.107 Recovery = 101.22%								
Co 228.616†	1953.1	0.05247	mg/L	0.000831	0.05247	mg/L	0.000831	1.58%
QC value within limits for Co 228.616 Recovery = 104.94%								
Cr 267.716†	1337.2	0.02022	mg/L	0.000758	0.02022	mg/L	0.000758	3.75%
QC value within limits for Cr 267.716 Recovery = 101.08%								
Cu 324.752†	6167.3	0.02965	mg/L	0.000503	0.02965	mg/L	0.000503	1.70%
QC value within limits for Cu 324.752 Recovery = 98.82%								
Fe 273.955†	4600.0	0.20034	mg/L	0.003396	0.20034	mg/L	0.003396	1.69%
QC value within limits for Fe 273.955 Recovery = 100.17%								
Mg 279.077†	8616.5	0.53464	mg/L	0.002719	0.53464	mg/L	0.002719	0.51%
QC value within limits for Mg 279.077 Recovery = 106.93%								
Mn 257.610†	29798.6	0.05351	mg/L	0.000585	0.05351	mg/L	0.000585	1.09%
QC value within limits for Mn 257.610 Recovery = 107.02%								
Ni 231.604†	1570.0	0.05295	mg/L	0.000474	0.05295	mg/L	0.000474	0.89%
QC value within limits for Ni 231.604 Recovery = 105.90%								
Pb 220.353†	61.0	0.01045	mg/L	0.000833	0.01045	mg/L	0.000833	7.97%
QC value within limits for Pb 220.353 Recovery = 104.47%								
Sb 206.836†	39.6	0.02199	mg/L	0.003246	0.02199	mg/L	0.003246	14.76%
QC value within limits for Sb 206.836 Recovery = 109.93%								
Se 196.026†	20.0	0.02497	mg/L	0.003415	0.02497	mg/L	0.003415	13.68%
QC value within limits for Se 196.026 Recovery = 83.25%								
Tl 190.801†	28.2	0.01841	mg/L	0.001463	0.01841	mg/L	0.001463	7.95%
QC value within limits for Tl 190.801 Recovery = 92.04%								
V 292.402†	5749.1	0.05059	mg/L	0.001266	0.05059	mg/L	0.001266	2.50%
QC value within limits for V 292.402 Recovery = 101.18%								
Zn 206.200†	1694.3	0.05211	mg/L	0.000570	0.05211	mg/L	0.000570	1.09%
QC value within limits for Zn 206.200 Recovery = 104.23%								
Cd 226.502†	302.0	0.00530	mg/L	0.000063	0.00530	mg/L	0.000063	1.19%
QC value within limits for Cd 226.502 Recovery = 106.08%								
Ti 334.940†	9942.0	0.01925	mg/L	0.000364	0.01925	mg/L	0.000364	1.89%
QC value within limits for Ti 334.940 Recovery = 96.27%								
Ca 227.546†	173.7	0.80873	mg/L	0.081797	0.80873	mg/L	0.081797	10.11%
QC value within limits for Ca 227.546 Recovery = 101.09%								

All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 10/4/2012 8:53:45 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:36 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1588635.3	86.275	%	0.3959				0.46%
Lu 261.542	1071494.2	86.44	%	0.355				0.41%
Ag 328.068†	15.5	0.00007	mg/L	0.000524	0.00007	mg/L	0.000524	746.25%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	10376307.0	538.34	mg/L	2.090	538.34	mg/L	2.090	0.39%
QC value within limits for Al 308.215 Recovery = 107.67%								
As 188.979†	-34.6	-0.00311	mg/L	0.001572	-0.00311	mg/L	0.001572	50.49%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	34.3	0.00039	mg/L	0.000085	0.00039	mg/L	0.000085	22.16%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-253.3	-0.00013	mg/L	0.000018	-0.00013	mg/L	0.000018	13.93%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	147.9	-0.00049	mg/L	0.000255	-0.00049	mg/L	0.000255	52.19%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	226.6	0.00342	mg/L	0.000298	0.00342	mg/L	0.000298	8.72%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2636.4	0.00451	mg/L	0.000515	0.00451	mg/L	0.000515	11.44%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	4274576.9	186.09	mg/L	0.073	186.09	mg/L	0.073	0.04%
QC value within limits for Fe 273.955 Recovery = 93.04%								
Mg 279.077†	8129698.0	504.48	mg/L	2.119	504.48	mg/L	2.119	0.42%
QC value within limits for Mg 279.077 Recovery = 100.90%								
Mn 257.610†	-233.1	-0.01051	mg/L	0.000161	-0.01051	mg/L	0.000161	1.53%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-3.7	-0.00226	mg/L	0.000232	-0.00226	mg/L	0.000232	10.23%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-240.3	0.00358	mg/L	0.002578	0.00358	mg/L	0.002578	72.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	105.4	0.00048	mg/L	0.003434	0.00048	mg/L	0.003434	710.38%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-69.5	0.00675	mg/L	0.006937	0.00675	mg/L	0.006937	102.80%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-62.0	0.00723	mg/L	0.004204	0.00723	mg/L	0.004204	58.13%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-1654.8	-0.00880	mg/L	0.000338	-0.00880	mg/L	0.000338	3.84%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	126.1	0.01317	mg/L	0.000072	0.01317	mg/L	0.000072	0.55%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	893.6	0.00031	mg/L	0.000141	0.00031	mg/L	0.000141	44.71%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	-6052.4	-0.01153	mg/L	0.000081	-0.01153	mg/L	0.000081	0.70%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	117368.4	557.16	mg/L	1.083	557.16	mg/L	1.083	0.19%
QC value within limits for Ca 227.546 Recovery = 111.43%								

All analyte(s) passed QC.

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Sequence No.: 9 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 10/4/2012 8:57:23 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:37 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1563670.3	84.919	%	0.1562				0.18%
Lu 261.542	1053516.4	84.99	%	0.086				0.10%

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Ag 328.068†            36218.9     0.23001 mg/L      0.000423     0.23001 mg/L      0.000423   0.18%
   QC value within limits for Ag 328.068  Recovery = 115.00%
Al 308.215†         10707134.6      555.51 mg/L         5.411      555.51 mg/L         5.411   0.97%
   QC value within limits for Al 308.215  Recovery = 111.10%
As 188.979†              101.7     0.10723 mg/L      0.002031     0.10723 mg/L      0.002031   1.89%
   QC value within limits for As 188.979  Recovery = 107.23%
Ba 233.527†            45703.6     0.54259 mg/L      0.000833     0.54259 mg/L      0.000833   0.15%
   QC value within limits for Ba 233.527  Recovery = 108.52%
Be 313.107†          1216932.5     0.51918 mg/L      0.000341     0.51918 mg/L      0.000341   0.07%
   QC value within limits for Be 313.107  Recovery = 103.84%
Co 228.616†            18470.2     0.49204 mg/L      0.000863     0.49204 mg/L      0.000863   0.18%
   QC value within limits for Co 228.616  Recovery = 98.41%
Cr 267.716†            34540.7     0.52216 mg/L      0.000823     0.52216 mg/L      0.000823   0.16%
   QC value within limits for Cr 267.716  Recovery = 104.43%
Cu 324.752†           113194.5     0.56111 mg/L      0.001052     0.56111 mg/L      0.001052   0.19%
   QC value within limits for Cu 324.752  Recovery = 112.22%
Fe 273.955†          4349604.9      189.36 mg/L         0.295      189.36 mg/L         0.295   0.16%
   QC value within limits for Fe 273.955  Recovery = 94.68%
Mg 279.077†          8356936.1      518.58 mg/L         5.428      518.58 mg/L         5.428   1.05%
   QC value within limits for Mg 279.077  Recovery = 103.72%
Mn 257.610†           289289.9     0.50921 mg/L      0.000653     0.50921 mg/L      0.000653   0.13%
   QC value within limits for Mn 257.610  Recovery = 101.84%
Ni 231.604†            28519.3     0.95998 mg/L      0.002262     0.95998 mg/L      0.002262   0.24%
   QC value within limits for Ni 231.604  Recovery = 96.00%
Pb 220.353†             2865.2     0.53452 mg/L      0.004233     0.53452 mg/L      0.004233   0.79%
   QC value within limits for Pb 220.353  Recovery = 106.90%
Sb 206.836†             1322.5     0.67478 mg/L      0.005386     0.67478 mg/L      0.005386   0.80%
   QC value within limits for Sb 206.836  Recovery = 112.46%
Se 196.026†              350.0     0.52987 mg/L      0.008893     0.52987 mg/L      0.008893   1.68%
   QC value within limits for Se 196.026  Recovery = 105.97%
Tl 190.801†               75.8     0.09569 mg/L      0.008778     0.09569 mg/L      0.008778   9.17%
   QC value within limits for Tl 190.801  Recovery = 95.69%
V 292.402†             58428.9     0.52086 mg/L      0.001196     0.52086 mg/L      0.001196   0.23%
   QC value within limits for V 292.402  Recovery = 104.17%
Zn 206.200†            31824.3     0.98757 mg/L      0.002215     0.98757 mg/L      0.002215   0.22%
   QC value within limits for Zn 206.200  Recovery = 98.76%
Cd 226.502†            57102.0     0.98816 mg/L      0.002337     0.98816 mg/L      0.002337   0.24%
   QC value within limits for Cd 226.502  Recovery = 98.82%
Ti 334.940†            -6289.3    -0.01217 mg/L      0.000171    -0.01217 mg/L      0.000171   1.41%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†           119462.7      566.92 mg/L         1.462      566.92 mg/L         1.462   0.26%
   QC value within limits for Ca 227.546  Recovery = 113.38%
All analyte(s) passed QC.
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Sequence No.: 10 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/4/2012 9:00:58 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:37 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1751582.2	95.124	%	0.1926				0.20%
Lu 261.542	1187378.3	95.79	%	0.340				0.35%
Ag 328.068†	198807.3	1.2620	mg/L	0.01028	1.2620	mg/L	0.01028	0.81%
QC value within limits for Ag 328.068 Recovery = 100.96%								
Al 308.215†	194015.8	10.059	mg/L	0.1339	10.059	mg/L	0.1339	1.33%
QC value within limits for Al 308.215 Recovery = 100.59%								
As 188.979†	646.2	0.50917	mg/L	0.002011	0.50917	mg/L	0.002011	0.40%
QC value within limits for As 188.979 Recovery = 101.83%								
Ba 233.527†	873789.5	10.363	mg/L	0.0104	10.363	mg/L	0.0104	0.10%
QC value within limits for Ba 233.527 Recovery = 103.63%								
Be 313.107†	581677.1	0.24915	mg/L	0.000214	0.24915	mg/L	0.000214	0.09%
QC value within limits for Be 313.107 Recovery = 99.66%								
Co 228.616†	96911.7	2.6046	mg/L	0.02174	2.6046	mg/L	0.02174	0.83%
QC value within limits for Co 228.616 Recovery = 104.19%								
Cr 267.716†	65924.4	0.99674	mg/L	0.009381	0.99674	mg/L	0.009381	0.94%

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   QC value within limits for Cr 267.716  Recovery = 99.67%
Cu 324.752†          258170.7      1.2408 mg/L       0.00927      1.2408 mg/L       0.00927   0.75%
   QC value within limits for Cu 324.752  Recovery = 99.26%
Fe 273.955†          118285.5      5.1536 mg/L       0.06613      5.1536 mg/L       0.06613   1.28%
   QC value within limits for Fe 273.955  Recovery = 103.07%
Mg 279.077†          411069.7      25.506 mg/L        0.0425      25.506 mg/L        0.0425   0.17%
   QC value within limits for Mg 279.077  Recovery = 102.02%
Mn 257.610†         1419270.8      2.5487 mg/L       0.00146      2.5487 mg/L       0.00146   0.06%
   QC value within limits for Mn 257.610  Recovery = 101.95%
Ni 231.604†           76254.5      2.5722 mg/L       0.02431      2.5722 mg/L       0.02431   0.94%
   QC value within limits for Ni 231.604  Recovery = 102.89%
Pb 220.353†            2963.2     0.50703 mg/L      0.001030     0.50703 mg/L      0.001030   0.20%
   QC value within limits for Pb 220.353  Recovery = 101.41%
Sb 206.836†             913.1     0.49766 mg/L      0.006861     0.49766 mg/L      0.006861   1.38%
   QC value within limits for Sb 206.836  Recovery = 99.53%
Se 196.026†             401.1     0.50377 mg/L      0.004804     0.50377 mg/L      0.004804   0.95%
   QC value within limits for Se 196.026  Recovery = 100.75%
Tl 190.801†             741.4     0.47279 mg/L      0.002741     0.47279 mg/L      0.002741   0.58%
   QC value within limits for Tl 190.801  Recovery = 94.56%
V 292.402†           286330.6      2.5202 mg/L       0.02096      2.5202 mg/L       0.02096   0.83%
   QC value within limits for V 292.402  Recovery = 100.81%
Zn 206.200†           83507.8      2.5677 mg/L       0.02610      2.5677 mg/L       0.02610   1.02%
   QC value within limits for Zn 206.200  Recovery = 102.71%
Cd 226.502†           14322.1     0.25193 mg/L      0.002906     0.25193 mg/L      0.002906   1.15%
   QC value within limits for Cd 226.502  Recovery = 100.77%
Ti 334.940†          256568.4     0.49667 mg/L      0.001099     0.49667 mg/L      0.001099   0.22%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†            5315.6      24.443 mg/L        0.1151      24.443 mg/L        0.1151   0.47%
   QC value within limits for Ca 227.546  Recovery = 97.77%
All analyte(s) passed QC.
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Sequence No.: 11 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/4/2012 9:04:32 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:38 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1840353.2	99.945	%	0.6045				0.60%
Lu 261.542	1242904.4	100.3	%	0.69				0.69%
Ag 328.068†	194.3	0.00123	mg/L	0.000403	0.00123	mg/L	0.000403	32.77%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	103.8	0.00538	mg/L	0.001565	0.00538	mg/L	0.001565	29.12%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	5.6	0.00438	mg/L	0.002933	0.00438	mg/L	0.002933	67.02%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	48.3	0.00057	mg/L	0.000161	0.00057	mg/L	0.000161	28.12%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	51.5	0.00002	mg/L	0.000027	0.00002	mg/L	0.000027	120.29%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	16.0	0.00043	mg/L	0.000124	0.00043	mg/L	0.000124	28.84%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	10.3	0.00016	mg/L	0.000095	0.00016	mg/L	0.000095	60.61%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	226.9	0.00109	mg/L	0.000498	0.00109	mg/L	0.000498	45.69%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	12.8	0.00056	mg/L	0.001042	0.00056	mg/L	0.001042	187.26%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	151.6	0.00941	mg/L	0.004095	0.00941	mg/L	0.004095	43.52%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	43.1	0.00008	mg/L	0.000033	0.00008	mg/L	0.000033	42.55%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	2.5	0.00008	mg/L	0.000297	0.00008	mg/L	0.000297	357.91%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-5.8	-0.00099	mg/L	0.000174	-0.00099	mg/L	0.000174	17.60%
QC value within limits for Pb 220.353 Recovery = Not calculated								

Sb 206.836†	2.5	0.00141	mg/L	0.001210	0.00141	mg/L	0.001210	85.73%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.9	-0.00116	mg/L	0.006328	-0.00116	mg/L	0.006328	543.26%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	0.0	0.00003	mg/L	0.003114	0.00003	mg/L	0.003114	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	29.6	0.00026	mg/L	0.000182	0.00026	mg/L	0.000182	69.96%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	12.5	0.00038	mg/L	0.000139	0.00038	mg/L	0.000139	36.12%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	4.8	0.00008	mg/L	0.000091	0.00008	mg/L	0.000091	107.54%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	55.9	0.00011	mg/L	0.000031	0.00011	mg/L	0.000031	28.54%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	10.8	0.05123	mg/L	0.060982	0.05123	mg/L	0.060982	119.05%
QC value within limits for Ca 227.546 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 38**
Sample ID: MB-68485~PBW **Date Collected: 10/4/2012 9:08:03 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:39 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-68485~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1831292.7	99.453	%	1.0210				1.03%
Lu 261.542	1239122.6	99.96	%	1.054				1.05%
Ag 328.068†	282.2	0.00178	mg/L	0.000279	0.00178	mg/L	0.000279	15.61%
Al 308.215†	106.6	0.00552	mg/L	0.002616	0.00552	mg/L	0.002616	47.36%
As 188.979†	4.3	0.00335	mg/L	0.002468	0.00335	mg/L	0.002468	73.75%
Ba 233.527†	25.7	0.00030	mg/L	0.000048	0.00030	mg/L	0.000048	15.73%
Be 313.107†	43.7	0.00002	mg/L	0.000009	0.00002	mg/L	0.000009	45.28%
Co 228.616†	6.6	0.00018	mg/L	0.000140	0.00018	mg/L	0.000140	79.55%
Cr 267.716†	7.1	0.00011	mg/L	0.000161	0.00011	mg/L	0.000161	149.39%
Cu 324.752†	603.0	0.00290	mg/L	0.000273	0.00290	mg/L	0.000273	9.42%
Fe 273.955†	122.7	0.00534	mg/L	0.000141	0.00534	mg/L	0.000141	2.65%
Mg 279.077†	73.2	0.00454	mg/L	0.004519	0.00454	mg/L	0.004519	99.55%
Mn 257.610†	525.3	0.00094	mg/L	0.000017	0.00094	mg/L	0.000017	1.84%
Ni 231.604†	-4.7	-0.00016	mg/L	0.000182	-0.00016	mg/L	0.000182	115.11%
Pb 220.353†	1.6	0.00028	mg/L	0.000946	0.00028	mg/L	0.000946	337.76%
Sb 206.836†	10.2	0.00573	mg/L	0.001280	0.00573	mg/L	0.001280	22.32%
Se 196.026†	-2.7	-0.00333	mg/L	0.006435	-0.00333	mg/L	0.006435	193.33%
Tl 190.801†	-0.7	-0.00045	mg/L	0.003090	-0.00045	mg/L	0.003090	682.26%
V 292.402†	-14.0	-0.00012	mg/L	0.000078	-0.00012	mg/L	0.000078	62.77%
Zn 206.200†	40.2	0.00124	mg/L	0.000169	0.00124	mg/L	0.000169	13.67%
Cd 226.502†	5.1	0.00009	mg/L	0.000097	0.00009	mg/L	0.000097	108.89%
Ti 334.940†	131.9	0.00026	mg/L	0.000020	0.00026	mg/L	0.000020	7.89%
Ca 227.546†	8.2	0.03902	mg/L	0.083556	0.03902	mg/L	0.083556	214.13%

Sequence No.: 13 **Autosampler Location: 39**
Sample ID: MB-68496~PBW **Date Collected: 10/4/2012 9:11:34 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:39 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-68496~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1820653.8	98.875	%	0.9391				0.95%
Lu 261.542	1233087.3	99.47	%	0.965				0.97%
Ag 328.068†	307.3	0.00194	mg/L	0.000742	0.00194	mg/L	0.000742	38.18%
Al 308.215†	63.2	0.00327	mg/L	0.002284	0.00327	mg/L	0.002284	69.95%
As 188.979†	3.9	0.00306	mg/L	0.001433	0.00306	mg/L	0.001433	46.87%

Ba 233.527†	13.9	0.00016	mg/L	0.000106	0.00016	mg/L	0.000106	64.35%
Be 313.107†	-37.8	-0.00002	mg/L	0.000007	-0.00002	mg/L	0.000007	44.29%
Co 228.616†	10.0	0.00027	mg/L	0.000277	0.00027	mg/L	0.000277	103.52%
Cr 267.716†	4.1	0.00006	mg/L	0.000068	0.00006	mg/L	0.000068	111.18%
Cu 324.752†	480.0	0.00231	mg/L	0.000225	0.00231	mg/L	0.000225	9.77%
Fe 273.955†	278.0	0.01210	mg/L	0.000219	0.01210	mg/L	0.000219	1.81%
Mg 279.077†	-1.0	-0.00006	mg/L	0.002439	-0.00006	mg/L	0.002439	>999.9%
Mn 257.610†	362.6	0.00065	mg/L	0.000020	0.00065	mg/L	0.000020	3.04%
Ni 231.604†	6.7	0.00023	mg/L	0.000313	0.00023	mg/L	0.000313	137.44%
Pb 220.353†	-4.8	-0.00082	mg/L	0.002030	-0.00082	mg/L	0.002030	246.62%
Sb 206.836†	6.0	0.00338	mg/L	0.001550	0.00338	mg/L	0.001550	45.91%
Se 196.026†	-3.1	-0.00388	mg/L	0.002850	-0.00388	mg/L	0.002850	73.49%
Tl 190.801†	-2.6	-0.00171	mg/L	0.002022	-0.00171	mg/L	0.002022	118.26%
V 292.402†	5.7	0.00005	mg/L	0.000452	0.00005	mg/L	0.000452	911.99%
Zn 206.200†	17.9	0.00055	mg/L	0.000191	0.00055	mg/L	0.000191	34.63%
Cd 226.502†	4.3	0.00007	mg/L	0.000060	0.00007	mg/L	0.000060	80.37%
Ti 334.940†	102.3	0.00020	mg/L	0.000016	0.00020	mg/L	0.000016	8.09%
Ca 227.546†	20.4	0.09716	mg/L	0.033907	0.09716	mg/L	0.033907	34.90%

Sequence No.: 14 **Autosampler Location: 40**
Sample ID: LCS-68496~LCS **Date Collected: 10/4/2012 9:15:04 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:40 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-68496~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1770749.2	96.165	%	0.1399				0.15%
Lu 261.542	1200984.6	96.88	%	0.142				0.15%
Ag 328.068†	185503.1	1.1775	mg/L	0.00349	1.1775	mg/L	0.00349	0.30%
Al 308.215†	180478.4	9.3576	mg/L	0.01874	9.3576	mg/L	0.01874	0.20%
As 188.979†	618.4	0.48702	mg/L	0.003747	0.48702	mg/L	0.003747	0.77%
Ba 233.527†	809827.2	9.6045	mg/L	0.00426	9.6045	mg/L	0.00426	0.04%
Be 313.107†	557359.3	0.23786	mg/L	0.000064	0.23786	mg/L	0.000064	0.03%
Co 228.616†	88260.8	2.3732	mg/L	0.00482	2.3732	mg/L	0.00482	0.20%
Cr 267.716†	62430.6	0.94391	mg/L	0.002279	0.94391	mg/L	0.002279	0.24%
Cu 324.752†	241245.5	1.1594	mg/L	0.00414	1.1594	mg/L	0.00414	0.36%
Fe 273.955†	109094.6	4.7531	mg/L	0.01139	4.7531	mg/L	0.01139	0.24%
Mg 279.077†	382308.2	23.721	mg/L	0.0197	23.721	mg/L	0.0197	0.08%
Mn 257.610†	1320307.8	2.3710	mg/L	0.00102	2.3710	mg/L	0.00102	0.04%
Ni 231.604†	70640.2	2.3831	mg/L	0.00494	2.3831	mg/L	0.00494	0.21%
Pb 220.353†	2798.0	0.47828	mg/L	0.002511	0.47828	mg/L	0.002511	0.52%
Sb 206.836†	911.8	0.49665	mg/L	0.003961	0.49665	mg/L	0.003961	0.80%
Se 196.026†	373.4	0.46859	mg/L	0.000528	0.46859	mg/L	0.000528	0.11%
Tl 190.801†	677.7	0.43201	mg/L	0.001096	0.43201	mg/L	0.001096	0.25%
V 292.402†	265390.5	2.3366	mg/L	0.00257	2.3366	mg/L	0.00257	0.11%
Zn 206.200†	77112.9	2.3707	mg/L	0.00648	2.3707	mg/L	0.00648	0.27%
Cd 226.502†	13607.1	0.23934	mg/L	0.000507	0.23934	mg/L	0.000507	0.21%
Ti 334.940†	326.6	0.00039	mg/L	0.000051	0.00039	mg/L	0.000051	13.08%
Ca 227.546†	4971.8	22.883	mg/L	0.0745	22.883	mg/L	0.0745	0.33%

Sequence No.: 15 **Autosampler Location: 41**
Sample ID: LCSD-68496~LCSD **Date Collected: 10/4/2012 9:18:36 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:41 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCSD-68496~LCSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1786577.1	97.024	%	0.6065				0.63%
Lu 261.542	1212698.8	97.83	%	0.799				0.82%
Ag 328.068†	185304.6	1.1763	mg/L	0.00828	1.1763	mg/L	0.00828	0.70%
Al 308.215†	180449.8	9.3561	mg/L	0.06719	9.3561	mg/L	0.06719	0.72%

As 188.979†	621.7	0.48958	mg/L	0.007134	0.48958	mg/L	0.007134	1.46%
Ba 233.527†	809614.6	9.6020	mg/L	0.04096	9.6020	mg/L	0.04096	0.43%
Be 313.107†	556811.9	0.23763	mg/L	0.000852	0.23763	mg/L	0.000852	0.36%
Co 228.616†	88225.6	2.3722	mg/L	0.01475	2.3722	mg/L	0.01475	0.62%
Cr 267.716†	62207.3	0.94054	mg/L	0.007194	0.94054	mg/L	0.007194	0.76%
Cu 324.752†	241492.3	1.1606	mg/L	0.00802	1.1606	mg/L	0.00802	0.69%
Fe 273.955†	109178.7	4.7568	mg/L	0.03001	4.7568	mg/L	0.03001	0.63%
Mg 279.077†	381698.4	23.684	mg/L	0.1014	23.684	mg/L	0.1014	0.43%
Mn 257.610†	1319732.4	2.3699	mg/L	0.01059	2.3699	mg/L	0.01059	0.45%
Ni 231.604†	70479.4	2.3777	mg/L	0.01863	2.3777	mg/L	0.01863	0.78%
Pb 220.353†	2798.5	0.47836	mg/L	0.005525	0.47836	mg/L	0.005525	1.15%
Sb 206.836†	903.5	0.49204	mg/L	0.006690	0.49204	mg/L	0.006690	1.36%
Se 196.026†	377.0	0.47301	mg/L	0.004558	0.47301	mg/L	0.004558	0.96%
Tl 190.801†	678.3	0.43244	mg/L	0.005210	0.43244	mg/L	0.005210	1.20%
V 292.402†	265151.0	2.3345	mg/L	0.01557	2.3345	mg/L	0.01557	0.67%
Zn 206.200†	76929.0	2.3651	mg/L	0.01755	2.3651	mg/L	0.01755	0.74%
Cd 226.502†	13679.6	0.24062	mg/L	0.001991	0.24062	mg/L	0.001991	0.83%
Ti 334.940†	369.2	0.00047	mg/L	0.000048	0.00047	mg/L	0.000048	10.23%
Ca 227.546†	4955.9	22.808	mg/L	0.2171	22.808	mg/L	0.2171	0.95%

Sequence No.: 16 **Autosampler Location: 42**
Sample ID: L2069-01B~IS57-IDW-WW-08 **Date Collected: 10/4/2012 9:22:08 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:41 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L2069-01B~IS57-IDW-WW-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1837305.6	99.779	%	0.8166				0.82%
Lu 261.542	1245987.1	100.5	%	0.80				0.80%
Ag 328.068†	269.9	0.00159	mg/L	0.000490	0.00159	mg/L	0.000490	30.83%
Al 308.215†	170.9	0.00442	mg/L	0.004777	0.00442	mg/L	0.004777	108.12%
As 188.979†	2.5	0.00205	mg/L	0.002338	0.00205	mg/L	0.002338	114.11%
Ba 233.527†	4468.5	0.05298	mg/L	0.000163	0.05298	mg/L	0.000163	0.31%
Be 313.107†	43.5	0.00002	mg/L	0.000022	0.00002	mg/L	0.000022	117.20%
Co 228.616†	320.1	0.00861	mg/L	0.000092	0.00861	mg/L	0.000092	1.07%
Cr 267.716†	29.8	0.00034	mg/L	0.000191	0.00034	mg/L	0.000191	57.00%
Cu 324.752†	627.8	0.00302	mg/L	0.000364	0.00302	mg/L	0.000364	12.08%
Fe 273.955†	603.4	0.02627	mg/L	0.000788	0.02627	mg/L	0.000788	3.00%
Mg 279.077†	64223.6	3.9853	mg/L	0.02625	3.9853	mg/L	0.02625	0.66%
Mn 257.610†	311788.3	0.55996	mg/L	0.000243	0.55996	mg/L	0.000243	0.04%
Ni 231.604†	68.0	0.00228	mg/L	0.000273	0.00228	mg/L	0.000273	12.01%
Pb 220.353†	4.7	0.00083	mg/L	0.001220	0.00083	mg/L	0.001220	147.48%
Sb 206.836†	1.4	0.00070	mg/L	0.001798	0.00070	mg/L	0.001798	255.59%
Se 196.026†	-5.3	-0.00661	mg/L	0.001323	-0.00661	mg/L	0.001323	20.01%
Tl 190.801†	0.8	0.00084	mg/L	0.002353	0.00084	mg/L	0.002353	280.41%
V 292.402†	79.6	0.00070	mg/L	0.000099	0.00070	mg/L	0.000099	14.11%
Zn 206.200†	120.5	0.00393	mg/L	0.000201	0.00393	mg/L	0.000201	5.12%
Cd 226.502†	9.5	0.00011	mg/L	0.000051	0.00011	mg/L	0.000051	46.95%
Ti 334.940†	-32.2	0.00024	mg/L	0.000092	0.00024	mg/L	0.000092	38.95%
Ca 227.546†	4635.4	22.066	mg/L	0.1020	22.066	mg/L	0.1020	0.46%

Sequence No.: 17 **Autosampler Location: 43**
Sample ID: L2069-01BSD~IS57-IDW-WW **Date Collected: 10/4/2012 9:25:39 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:42 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L2069-01BSD~IS57-IDW-WW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1825346.7	99.130	%	2.3046				2.32%
Lu 261.542	1236500.2	99.75	%	2.253				2.26%
Ag 328.068†	146.8	0.00090	mg/L	0.000216	0.00090	mg/L	0.000216	23.87%

Al 308.215†	120.0	0.00534	mg/L	0.003340	0.00534	mg/L	0.003340	62.59%
As 188.979†	1.9	0.00148	mg/L	0.003083	0.00148	mg/L	0.003083	208.91%
Ba 233.527†	909.6	0.01078	mg/L	0.000184	0.01078	mg/L	0.000184	1.71%
Be 313.107†	20.2	0.00001	mg/L	0.000015	0.00001	mg/L	0.000015	170.44%
Co 228.616†	69.7	0.00187	mg/L	0.000133	0.00187	mg/L	0.000133	7.09%
Cr 267.716†	10.7	0.00014	mg/L	0.000067	0.00014	mg/L	0.000067	48.53%
Cu 324.752†	196.2	0.00094	mg/L	0.000589	0.00094	mg/L	0.000589	62.47%
Fe 273.955†	98.0	0.00426	mg/L	0.000859	0.00426	mg/L	0.000859	20.14%
Mg 279.077†	13245.8	0.82195	mg/L	0.015006	0.82195	mg/L	0.015006	1.83%
Mn 257.610†	63894.9	0.11475	mg/L	0.002491	0.11475	mg/L	0.002491	2.17%
Ni 231.604†	14.9	0.00050	mg/L	0.000203	0.00050	mg/L	0.000203	40.50%
Pb 220.353†	1.9	0.00032	mg/L	0.000995	0.00032	mg/L	0.000995	308.48%
Sb 206.836†	0.8	0.00040	mg/L	0.001018	0.00040	mg/L	0.001018	252.11%
Se 196.026†	-0.5	-0.00066	mg/L	0.002544	-0.00066	mg/L	0.002544	384.63%
Tl 190.801†	-3.5	-0.00227	mg/L	0.002804	-0.00227	mg/L	0.002804	123.76%
V 292.402†	-2.4	-0.00002	mg/L	0.000216	-0.00002	mg/L	0.000216	>999.9%
Zn 206.200†	19.7	0.00065	mg/L	0.000204	0.00065	mg/L	0.000204	31.29%
Cd 226.502†	4.0	0.00006	mg/L	0.000052	0.00006	mg/L	0.000052	87.10%
Ti 334.940†	24.8	0.00011	mg/L	0.000131	0.00011	mg/L	0.000131	122.41%
Ca 227.546†	922.3	4.3903	mg/L	0.17268	4.3903	mg/L	0.17268	3.93%

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Sequence No.: 18 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/4/2012 9:29:09 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:43 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.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1772056.0	96.236	%	0.9520				0.99%
Lu 261.542	1201641.8	96.94	%	1.015				1.05%
Ag 328.068†	193602.2	1.2289	mg/L	0.00798	1.2289	mg/L	0.00798	0.65%
QC value within limits for Ag 328.068 Recovery = 98.32%								
Al 308.215†	186680.4	9.6782	mg/L	0.06003	9.6782	mg/L	0.06003	0.62%
QC value within limits for Al 308.215 Recovery = 96.78%								
As 188.979†	639.4	0.50359	mg/L	0.005115	0.50359	mg/L	0.005115	1.02%
QC value within limits for As 188.979 Recovery = 100.72%								
Ba 233.527†	860789.9	10.209	mg/L	0.0120	10.209	mg/L	0.0120	0.12%
QC value within limits for Ba 233.527 Recovery = 102.09%								
Be 313.107†	572826.2	0.24536	mg/L	0.000220	0.24536	mg/L	0.000220	0.09%
QC value within limits for Be 313.107 Recovery = 98.14%								
Co 228.616†	94026.7	2.5271	mg/L	0.01674	2.5271	mg/L	0.01674	0.66%
QC value within limits for Co 228.616 Recovery = 101.08%								
Cr 267.716†	63882.5	0.96586	mg/L	0.004743	0.96586	mg/L	0.004743	0.49%
QC value within limits for Cr 267.716 Recovery = 96.59%								
Cu 324.752†	250691.8	1.2049	mg/L	0.00843	1.2049	mg/L	0.00843	0.70%
QC value within limits for Cu 324.752 Recovery = 96.39%								
Fe 273.955†	113730.7	4.9551	mg/L	0.03081	4.9551	mg/L	0.03081	0.62%
QC value within limits for Fe 273.955 Recovery = 99.10%								
Mg 279.077†	403528.6	25.038	mg/L	0.0281	25.038	mg/L	0.0281	0.11%
QC value within limits for Mg 279.077 Recovery = 100.15%								
Mn 257.610†	1399025.5	2.5123	mg/L	0.00175	2.5123	mg/L	0.00175	0.07%
QC value within limits for Mn 257.610 Recovery = 100.49%								
Ni 231.604†	74178.9	2.5022	mg/L	0.01647	2.5022	mg/L	0.01647	0.66%
QC value within limits for Ni 231.604 Recovery = 100.09%								
Pb 220.353†	2917.7	0.49922	mg/L	0.003884	0.49922	mg/L	0.003884	0.78%
QC value within limits for Pb 220.353 Recovery = 99.84%								
Sb 206.836†	903.6	0.49287	mg/L	0.014259	0.49287	mg/L	0.014259	2.89%
QC value within limits for Sb 206.836 Recovery = 98.57%								
Se 196.026†	391.5	0.49163	mg/L	0.006956	0.49163	mg/L	0.006956	1.41%
QC value within limits for Se 196.026 Recovery = 98.33%								
Tl 190.801†	735.9	0.46987	mg/L	0.005342	0.46987	mg/L	0.005342	1.14%
QC value within limits for Tl 190.801 Recovery = 93.97%								
V 292.402†	278216.9	2.4488	mg/L	0.01530	2.4488	mg/L	0.01530	0.62%
QC value within limits for V 292.402 Recovery = 97.95%								
Zn 206.200†	81130.3	2.4946	mg/L	0.01581	2.4946	mg/L	0.01581	0.63%
QC value within limits for Zn 206.200 Recovery = 99.78%								

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Cd 226.502†            13886.3     0.24427 mg/L      0.002004     0.24427 mg/L      0.002004   0.82%
   QC value within limits for Cd 226.502  Recovery = 97.71%
Ti 334.940†           252494.7     0.48879 mg/L      0.001022     0.48879 mg/L      0.001022   0.21%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             5202.9      23.932 mg/L        0.2247      23.932 mg/L        0.2247   0.94%
   QC value within limits for Ca 227.546  Recovery = 95.73%
All analyte(s) passed QC.
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Sequence No.: 19 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/4/2012 9:32:42 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:44 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1820696.6	98.877	%	1.0262				1.04%
Lu 261.542	1230025.4	99.23	%	0.927				0.93%
Ag 328.068†	173.3	0.00110	mg/L	0.000928	0.00110	mg/L	0.000928	84.61%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-21.7	-0.00114	mg/L	0.001781	-0.00114	mg/L	0.001781	156.27%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.2	0.00327	mg/L	0.002882	0.00327	mg/L	0.002882	88.27%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	90.9	0.00108	mg/L	0.000253	0.00108	mg/L	0.000253	23.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	23.4	0.00001	mg/L	0.000017	0.00001	mg/L	0.000017	160.73%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	18.4	0.00049	mg/L	0.000147	0.00049	mg/L	0.000147	29.87%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	7.6	0.00012	mg/L	0.000132	0.00012	mg/L	0.000132	114.04%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	218.8	0.00105	mg/L	0.000408	0.00105	mg/L	0.000408	38.87%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	-38.3	-0.00167	mg/L	0.000153	-0.00167	mg/L	0.000153	9.19%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	20.1	0.00125	mg/L	0.003403	0.00125	mg/L	0.003403	272.81%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	105.8	0.00019	mg/L	0.000073	0.00019	mg/L	0.000073	38.57%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	12.2	0.00041	mg/L	0.000192	0.00041	mg/L	0.000192	46.69%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-5.0	-0.00085	mg/L	0.000758	-0.00085	mg/L	0.000758	89.49%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	5.5	0.00312	mg/L	0.000581	0.00312	mg/L	0.000581	18.63%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.3	-0.00041	mg/L	0.009668	-0.00041	mg/L	0.009668	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	1.5	0.00103	mg/L	0.003071	0.00103	mg/L	0.003071	298.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	55.6	0.00049	mg/L	0.000235	0.00049	mg/L	0.000235	48.11%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	13.8	0.00042	mg/L	0.000268	0.00042	mg/L	0.000268	63.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	3.7	0.00006	mg/L	0.000146	0.00006	mg/L	0.000146	226.78%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	109.1	0.00021	mg/L	0.000011	0.00021	mg/L	0.000011	5.27%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	15.5	0.07343	mg/L	0.032001	0.07343	mg/L	0.032001	43.58%
QC value within limits for Ca 227.546 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 20 **Autosampler Location: 44**
Sample ID: L2060-01C~KGS-T3-C1E **Date Collected: 10/4/2012 9:36:13 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:44 AM**
Logged In Analyst (Original) : mitOptima3

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L2060-01C~KGS-T3-C1E

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1806926.8	98.130	%	0.1007				0.10%
Lu 261.542	1200549.4	96.85	%	0.081				0.08%
Ag 328.068†	232.1	0.00252	mg/L	0.000352	0.00252	mg/L	0.000352	13.95%
Al 308.215†	2909599.5	150.99	mg/L	0.254	150.99	mg/L	0.254	0.17%
As 188.979†	51.0	0.04691	mg/L	0.002705	0.04691	mg/L	0.002705	5.77%
Ba 233.527†	12789.5	0.15243	mg/L	0.000670	0.15243	mg/L	0.000670	0.44%
Be 313.107†	5937.6	0.00326	mg/L	0.000037	0.00326	mg/L	0.000037	1.13%
Co 228.616†	344.6	0.00727	mg/L	0.000215	0.00727	mg/L	0.000215	2.96%
Cr 267.716†	22704.9	0.34335	mg/L	0.000614	0.34335	mg/L	0.000614	0.18%
Cu 324.752†	3941.2	0.02326	mg/L	0.000331	0.02326	mg/L	0.000331	1.42%
Fe 273.955†	1058378.4	46.076	mg/L	0.0721	46.076	mg/L	0.0721	0.16%
Mg 279.077†	328145.4	20.362	mg/L	0.0392	20.362	mg/L	0.0392	0.19%
Mn 257.610†	55654.2	0.09956	mg/L	0.000042	0.09956	mg/L	0.000042	0.04%
Ni 231.604†	592.0	0.01966	mg/L	0.000160	0.01966	mg/L	0.000160	0.81%
Pb 220.353†	504.2	0.09902	mg/L	0.001576	0.09902	mg/L	0.001576	1.59%
Sb 206.836†	53.4	0.01176	mg/L	0.002630	0.01176	mg/L	0.002630	22.36%
Se 196.026†	-18.6	0.00035	mg/L	0.004149	0.00035	mg/L	0.004149	>999.9%
Tl 190.801†	-8.6	0.00041	mg/L	0.000955	0.00041	mg/L	0.000955	235.64%
V 292.402†	64198.8	0.56641	mg/L	0.001053	0.56641	mg/L	0.001053	0.19%
Zn 206.200†	3143.6	0.09986	mg/L	0.000797	0.09986	mg/L	0.000797	0.80%
Cd 226.502†	196.0	-0.00003	mg/L	0.000071	-0.00003	mg/L	0.000071	262.52%
Ti 334.940†	198328.9	0.38387	mg/L	0.000895	0.38387	mg/L	0.000895	0.23%
Ca 227.546†	1948.7	8.8850	mg/L	0.04688	8.8850	mg/L	0.04688	0.53%

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Sequence No.: 21 **Autosampler Location: 45**
Sample ID: L2060-02C~KGS-T3-C2E **Date Collected: 10/4/2012 9:39:45 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:45 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L2060-02C~KGS-T3-C2E

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1633314.1	88.701	%	0.5426				0.61%
Lu 261.542	1099117.5	88.67	%	0.424				0.48%
Ag 328.068†	473.7	0.00382	mg/L	0.000639	0.00382	mg/L	0.000639	16.74%
Al 308.215†	96077.6	4.9837	mg/L	0.06808	4.9837	mg/L	0.06808	1.37%
As 188.979†	42.0	0.03496	mg/L	0.002971	0.03496	mg/L	0.002971	8.50%
Ba 233.527†	267.5	0.00379	mg/L	0.000444	0.00379	mg/L	0.000444	11.72%
Be 313.107†	1337.1	0.00073	mg/L	0.000022	0.00073	mg/L	0.000022	3.04%
Co 228.616†	128.4	0.00283	mg/L	0.000207	0.00283	mg/L	0.000207	7.34%
Cr 267.716†	4955.7	0.07503	mg/L	0.001224	0.07503	mg/L	0.001224	1.63%
Cu 324.752†	4960.7	0.02557	mg/L	0.000745	0.02557	mg/L	0.000745	2.91%
Fe 273.955†	419750.8	18.274	mg/L	0.0231	18.274	mg/L	0.0231	0.13%
Mg 279.077†	141075.5	8.7541	mg/L	0.10541	8.7541	mg/L	0.10541	1.20%
Mn 257.610†	30634.4	0.05485	mg/L	0.000800	0.05485	mg/L	0.000800	1.46%
Ni 231.604†	291.9	0.00977	mg/L	0.000260	0.00977	mg/L	0.000260	2.66%
Pb 220.353†	-0.8	0.00005	mg/L	0.001312	0.00005	mg/L	0.001312	>999.9%
Sb 206.836†	36.2	0.01812	mg/L	0.003221	0.01812	mg/L	0.003221	17.78%
Se 196.026†	1.3	0.01080	mg/L	0.012947	0.01080	mg/L	0.012947	119.84%
Tl 190.801†	-14.6	-0.00916	mg/L	0.002136	-0.00916	mg/L	0.002136	23.33%
V 292.402†	49601.3	0.43695	mg/L	0.005719	0.43695	mg/L	0.005719	1.31%
Zn 206.200†	2024.9	0.06334	mg/L	0.000556	0.06334	mg/L	0.000556	0.88%
Cd 226.502†	89.8	0.00019	mg/L	0.000091	0.00019	mg/L	0.000091	48.78%
Ti 334.940†	41125.2	0.07965	mg/L	0.000913	0.07965	mg/L	0.000913	1.15%
Ca 227.546†	2042.9	9.5670	mg/L	0.19215	9.5670	mg/L	0.19215	2.01%

==========

Sequence No.: 22 **Autosampler Location: 46**
Sample ID: L2060-03C~KGS-T3-C3E **Date Collected: 10/4/2012 9:43:16 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:46 AM**

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

Mean Data: L2060-03C~KGS-T3-C3E

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1564563.9	84.967	%	0.4785				0.56%
Lu 261.542	1048565.9	84.59	%	0.402				0.48%
Ag 328.068†	408.1	0.00378	mg/L	0.000322	0.00378	mg/L	0.000322	8.53%
Al 308.215†	107267.7	5.5630	mg/L	0.02870	5.5630	mg/L	0.02870	0.52%
As 188.979†	33.6	0.02885	mg/L	0.003626	0.02885	mg/L	0.003626	12.57%
Ba 233.527†	183.4	0.00308	mg/L	0.000088	0.00308	mg/L	0.000088	2.86%
Be 313.107†	2079.7	0.00106	mg/L	0.000028	0.00106	mg/L	0.000028	2.61%
Co 228.616†	181.1	0.00420	mg/L	0.000201	0.00420	mg/L	0.000201	4.79%
Cr 267.716†	6108.0	0.09251	mg/L	0.000930	0.09251	mg/L	0.000930	1.01%
Cu 324.752†	8113.3	0.04088	mg/L	0.000068	0.04088	mg/L	0.000068	0.17%
Fe 273.955†	454487.3	19.787	mg/L	0.0323	19.787	mg/L	0.0323	0.16%
Mg 279.077†	235214.0	14.596	mg/L	0.0308	14.596	mg/L	0.0308	0.21%
Mn 257.610†	47635.6	0.08527	mg/L	0.000393	0.08527	mg/L	0.000393	0.46%
Ni 231.604†	804.1	0.02702	mg/L	0.000403	0.02702	mg/L	0.000403	1.49%
Pb 220.353†	2.9	0.00073	mg/L	0.001216	0.00073	mg/L	0.001216	166.54%
Sb 206.836†	33.1	0.01602	mg/L	0.001424	0.01602	mg/L	0.001424	8.89%
Se 196.026†	12.3	0.02526	mg/L	0.000908	0.02526	mg/L	0.000908	3.59%
Tl 190.801†	-23.2	-0.01541	mg/L	0.000974	-0.01541	mg/L	0.000974	6.32%
V 292.402†	72501.9	0.63849	mg/L	0.002959	0.63849	mg/L	0.002959	0.46%
Zn 206.200†	2899.3	0.09033	mg/L	0.000294	0.09033	mg/L	0.000294	0.33%
Cd 226.502†	90.3	0.00007	mg/L	0.000110	0.00007	mg/L	0.000110	164.16%
Ti 334.940†	43249.2	0.08377	mg/L	0.001137	0.08377	mg/L	0.001137	1.36%
Ca 227.546†	3451.0	16.251	mg/L	0.0998	16.251	mg/L	0.0998	0.61%

==========

Sequence No.: 23 **Autosampler Location: 47**
Sample ID: L1949-05A~SW 5 **Date Collected: 10/4/2012 9:46:47 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:46 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1949-05A~SW 5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1826074.8	99.169	%	0.4271				0.43%
Lu 261.542	1239442.7	99.99	%	0.511				0.51%
Ag 328.068†	147.5	0.00082	mg/L	0.000470	0.00082	mg/L	0.000470	57.30%
Al 308.215†	653.2	0.03048	mg/L	0.001122	0.03048	mg/L	0.001122	3.68%
As 188.979†	4.6	0.00372	mg/L	0.002431	0.00372	mg/L	0.002431	65.34%
Ba 233.527†	2642.2	0.03133	mg/L	0.000066	0.03133	mg/L	0.000066	0.21%
Be 313.107†	42.8	0.00002	mg/L	0.000010	0.00002	mg/L	0.000010	54.06%
Co 228.616†	18.2	0.00047	mg/L	0.000100	0.00047	mg/L	0.000100	21.10%
Cr 267.716†	52.2	0.00068	mg/L	0.000100	0.00068	mg/L	0.000100	14.71%
Cu 324.752†	798.5	0.00390	mg/L	0.000167	0.00390	mg/L	0.000167	4.27%
Fe 273.955†	15854.6	0.69021	mg/L	0.009538	0.69021	mg/L	0.009538	1.38%
Mg 279.077†	58686.5	3.6417	mg/L	0.03916	3.6417	mg/L	0.03916	1.08%
Mn 257.610†	300914.5	0.54043	mg/L	0.001122	0.54043	mg/L	0.001122	0.21%
Ni 231.604†	23.4	0.00077	mg/L	0.000267	0.00077	mg/L	0.000267	34.52%
Pb 220.353†	-5.4	-0.00090	mg/L	0.001558	-0.00090	mg/L	0.001558	173.92%
Sb 206.836†	7.0	0.00380	mg/L	0.003237	0.00380	mg/L	0.003237	85.21%
Se 196.026†	0.0	0.00035	mg/L	0.002005	0.00035	mg/L	0.002005	574.29%
Tl 190.801†	-4.0	-0.00227	mg/L	0.001864	-0.00227	mg/L	0.001864	82.00%
V 292.402†	80.6	0.00073	mg/L	0.000181	0.00073	mg/L	0.000181	24.82%
Zn 206.200†	541.5	0.01687	mg/L	0.000218	0.01687	mg/L	0.000218	1.29%
Cd 226.502†	248.5	0.00428	mg/L	0.000118	0.00428	mg/L	0.000118	2.76%
Ti 334.940†	315.7	0.00081	mg/L	0.000137	0.00081	mg/L	0.000137	16.98%
Ca 227.546†	3258.0	15.505	mg/L	0.0801	15.505	mg/L	0.0801	0.52%

==========

Sequence No.: 24 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 10/4/2012 9:50:19 AM**

Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:47 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1812823.9	98.450	%	0.9032				0.92%
Lu 261.542	1229120.8	99.15	%	0.959				0.97%
Ag 328.068†	195789.1	1.2428	mg/L	0.01907	1.2428	mg/L	0.01907	1.53%
QC value within limits for Ag 328.068 Recovery = 99.43%								
Al 308.215†	188766.5	9.7865	mg/L	0.16349	9.7865	mg/L	0.16349	1.67%
QC value within limits for Al 308.215 Recovery = 97.86%								
As 188.979†	637.7	0.50240	mg/L	0.004694	0.50240	mg/L	0.004694	0.93%
QC value within limits for As 188.979 Recovery = 100.48%								
Ba 233.527†	856339.2	10.156	mg/L	0.0035	10.156	mg/L	0.0035	0.03%
QC value within limits for Ba 233.527 Recovery = 101.56%								
Be 313.107†	571545.9	0.24480	mg/L	0.000386	0.24480	mg/L	0.000386	0.16%
QC value within limits for Be 313.107 Recovery = 97.92%								
Co 228.616†	95766.7	2.5739	mg/L	0.04261	2.5739	mg/L	0.04261	1.66%
QC value within limits for Co 228.616 Recovery = 102.96%								
Cr 267.716†	64600.5	0.97673	mg/L	0.015890	0.97673	mg/L	0.015890	1.63%
QC value within limits for Cr 267.716 Recovery = 97.67%								
Cu 324.752†	255064.0	1.2259	mg/L	0.02115	1.2259	mg/L	0.02115	1.72%
QC value within limits for Cu 324.752 Recovery = 98.07%								
Fe 273.955†	115183.4	5.0184	mg/L	0.07698	5.0184	mg/L	0.07698	1.53%
QC value within limits for Fe 273.955 Recovery = 100.37%								
Mg 279.077†	403082.6	25.010	mg/L	0.0508	25.010	mg/L	0.0508	0.20%
QC value within limits for Mg 279.077 Recovery = 100.04%								
Mn 257.610†	1393489.9	2.5024	mg/L	0.00499	2.5024	mg/L	0.00499	0.20%
QC value within limits for Mn 257.610 Recovery = 100.10%								
Ni 231.604†	75324.1	2.5408	mg/L	0.03966	2.5408	mg/L	0.03966	1.56%
QC value within limits for Ni 231.604 Recovery = 101.63%								
Pb 220.353†	2912.9	0.49840	mg/L	0.005668	0.49840	mg/L	0.005668	1.14%
QC value within limits for Pb 220.353 Recovery = 99.68%								
Sb 206.836†	916.5	0.49992	mg/L	0.006025	0.49992	mg/L	0.006025	1.21%
QC value within limits for Sb 206.836 Recovery = 99.98%								
Se 196.026†	393.4	0.49409	mg/L	0.006679	0.49409	mg/L	0.006679	1.35%
QC value within limits for Se 196.026 Recovery = 98.82%								
Tl 190.801†	733.8	0.46806	mg/L	0.011266	0.46806	mg/L	0.011266	2.41%
QC value within limits for Tl 190.801 Recovery = 93.61%								
V 292.402†	281279.1	2.4757	mg/L	0.03820	2.4757	mg/L	0.03820	1.54%
QC value within limits for V 292.402 Recovery = 99.03%								
Zn 206.200†	82357.9	2.5323	mg/L	0.03665	2.5323	mg/L	0.03665	1.45%
QC value within limits for Zn 206.200 Recovery = 101.29%								
Cd 226.502†	14054.8	0.24723	mg/L	0.004247	0.24723	mg/L	0.004247	1.72%
QC value within limits for Cd 226.502 Recovery = 98.89%								
Ti 334.940†	246993.0	0.47813	mg/L	0.007726	0.47813	mg/L	0.007726	1.62%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	5206.1	23.933	mg/L	0.3312	23.933	mg/L	0.3312	1.38%
QC value within limits for Ca 227.546 Recovery = 95.73%								

All analyte(s) passed QC.

==========

Sequence No.: 25 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 10/4/2012 9:53:52 AM**
Analyst: **Data Type: Reprocessed on 10/4/2012 10:02:48 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1858092.4	100.91	%	0.404				0.40%
Lu 261.542	1255449.8	101.3	%	0.35				0.35%
Ag 328.068†	217.8	0.00138	mg/L	0.000537	0.00138	mg/L	0.000537	38.96%
QC value within limits for Ag 328.068 Recovery = Not calculated								

```
Al 308.215†                -8.9    -0.00046 mg/L      0.002527    -0.00046 mg/L      0.002527 545.01%
   QC value within limits for Al 308.215  Recovery = Not calculated
As 188.979†                 9.5     0.00738 mg/L      0.003288     0.00738 mg/L      0.003288  44.53%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†               112.7     0.00134 mg/L      0.000373     0.00134 mg/L      0.000373  27.86%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 313.107†                17.9     0.00001 mg/L      0.000008     0.00001 mg/L      0.000008  95.91%
   QC value within limits for Be 313.107  Recovery = Not calculated
Co 228.616†                18.1     0.00049 mg/L      0.000086     0.00049 mg/L      0.000086  17.60%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 8.7     0.00013 mg/L      0.000096     0.00013 mg/L      0.000096  73.46%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               209.7     0.00101 mg/L      0.000182     0.00101 mg/L      0.000182  18.07%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 273.955†               -25.1    -0.00109 mg/L      0.000954    -0.00109 mg/L      0.000954  87.21%
   QC value within limits for Fe 273.955  Recovery = Not calculated
Mg 279.077†               133.7     0.00829 mg/L      0.001818     0.00829 mg/L      0.001818  21.92%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†               189.2     0.00034 mg/L      0.000061     0.00034 mg/L      0.000061  17.93%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Ni 231.604†                 7.1     0.00024 mg/L      0.000139     0.00024 mg/L      0.000139  57.67%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†                -0.8    -0.00014 mg/L      0.000344    -0.00014 mg/L      0.000344 249.63%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                 5.2     0.00292 mg/L      0.001872     0.00292 mg/L      0.001872  64.17%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 0.5     0.00063 mg/L      0.003323     0.00063 mg/L      0.003323 524.18%
   QC value within limits for Se 196.026  Recovery = Not calculated
Tl 190.801†                -0.9    -0.00060 mg/L      0.002766    -0.00060 mg/L      0.002766 460.69%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†                 69.0     0.00061 mg/L      0.000236     0.00061 mg/L      0.000236  38.84%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200†                15.1     0.00046 mg/L      0.000157     0.00046 mg/L      0.000157  33.83%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Cd 226.502†                10.8     0.00019 mg/L      0.000090     0.00019 mg/L      0.000090  47.65%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Ti 334.940†               134.1     0.00026 mg/L      0.000044     0.00026 mg/L      0.000044  17.00%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†                 4.0     0.01901 mg/L      0.010364     0.01901 mg/L      0.010364  54.52%
   QC value within limits for Ca 227.546  Recovery = Not calculated
All analyte(s) passed QC.
```

==========

Analysis Begun

Logged In Analyst: mitFIMS2 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\mitFIMS2\Sample Information\0925B.sif
Batch ID: Null
Results Data Set: HG12092503
Results Library: C:\data-AA\mitFIMS2\Results\Results.mdb

==========

Method Loaded
Method Name: Comm Hg **Method Last Saved: 7/27/2011 10:10:28 AM**
Method Description: Hg Anallysis by Cold Vapor AA

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin Thru 0	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 9/25/2012 12:10:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	0.0004	0.0001	12:11:46	Yes
2		[0.00]	0.0002	0.0011	0.0002	12:12:27	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0000				
%RSD:		0.00	18.78				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.20 **Date Collected: 9/25/2012 12:12:28 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0028	0.0134	0.0030	12:13:27	Yes
2		[0.2]	0.0028	0.0128	0.0029	12:14:06	Yes
Mean:		[0.2]	0.0028				
SD:		0.0	0.0000				
%RSD:		0.0	1.73				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01403 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S1.0 **Date Collected: 9/25/2012 12:14:08 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0153	0.0690	0.0154	12:15:06	Yes
2		[1]	0.0148	0.0666	0.0150	12:15:46	Yes
Mean:		[1]	0.0151				

SD: 0 0.0003
%RSD: 0 2.22
Standard number 2 applied. [1]
Correlation Coef.: 0.999720 Slope: 0.01502 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S2.0 **Date Collected: 9/25/2012 12:15:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0349	0.1553	0.0351	12:16:45	Yes
2		[2]	0.0341	0.1529	0.0343	12:17:25	Yes
Mean:		[2]	0.0345				
SD:		0	0.0006				
%RSD:		0	1.61				

Standard number 3 applied. [2]
Correlation Coef.: 0.995432 Slope: 0.01685 Intercept: 0.00000

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5.0 **Date Collected: 9/25/2012 12:17:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0856	0.3824	0.0858	12:18:25	Yes
2		[5]	0.0836	0.3782	0.0838	12:19:05	Yes
Mean:		[5]	0.0846				
SD:		0	0.0014				
%RSD:		0	1.65				

Standard number 4 applied. [5]
Correlation Coef.: 0.999436 Slope: 0.01691 Intercept: 0.00000

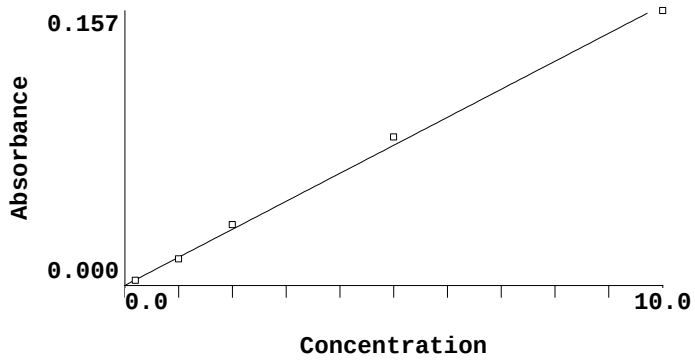
==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10.0 **Date Collected: 9/25/2012 12:19:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1584	0.7152	0.1586	12:20:05	Yes
2		[10]	0.1551	0.7003	0.1552	12:20:45	Yes
Mean:		[10]	0.1567				
SD:		0	0.0024				
%RSD:		0	1.51				

Standard number 5 applied. [10]
Correlation Coef.: 0.998797 Slope: 0.01598 Intercept: 0.00000
The calibration curve may not be linear.



Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	18.8
S0.20	0.0028	0.2	0.176	0.00	1.7
S1.0	0.0151	1.0	0.942	0.00	2.2
S2.0	0.0345	2.0	2.161	0.00	1.6
S5.0	0.0846	5.0	5.296	0.00	1.7
S10.0	0.1567	10.0	9.811	0.00	1.5

Correlation Coef.: 0.998797 Slope: 0.01598 Intercept: 0.00000

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 9/25/2012 12:20:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.656	5.656	0.0904	0.4041	0.0905	12:21:45	Yes
2	5.537	5.537	0.0885	0.3977	0.0886	12:22:24	Yes
Mean:	5.596	5.596	0.0894				
SD:	0.084	0.084	0.0013				
%RSD:	1.504	1.504	1.50				

QC value greater than the upper limit for Hg 253.7 Recovery = 111.93%
QC Failed. Retry.
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: mitFIMS2 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\mitFIMS2\Sample Information\0925B.sif
Batch ID: Null
Results Data Set: HG12092504
Results Library: C:\data-AA\mitFIMS2\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 9/25/2012 12:23:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0003	-0.0000	0.0003	12:24:17	Yes
2		[0.00]	0.0002	0.0006	0.0002	12:24:57	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0000				
%RSD:		0.00	8.83				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.20 **Date Collected: 9/25/2012 12:24:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0027	0.0126	0.0029	12:25:57	Yes
2		[0.2]	0.0026	0.0117	0.0029	12:26:37	Yes
Mean:		[0.2]	0.0027				
SD:		0.0	0.0000				
%RSD:		0.0	1.71				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01329 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S1.0 **Date Collected: 9/25/2012 12:26:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0149	0.0663	0.0151	12:27:36	Yes
2		[1]	0.0144	0.0645	0.0147	12:28:16	Yes
Mean:		[1]	0.0146				
SD:		0	0.0003				
%RSD:		0	1.99				

Standard number 2 applied. [1]
Correlation Coef.: 0.999480 Slope: 0.01460 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S2.0 **Date Collected: 9/25/2012 12:28:18 PM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0340	0.1528	0.0342	12:29:16	Yes
2		[2]	0.0335	0.1501	0.0338	12:29:56	Yes
Mean:		[2]	0.0338				
SD:		0	0.0003				
%RSD:		0	0.86				

Standard number 3 applied. [2]
Correlation Coef.: 0.995003 Slope: 0.01646 Intercept: 0.00000

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5.0 **Date Collected: 9/25/2012 12:29:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0845	0.3790	0.0848	12:30:56	Yes
2		[5]	0.0830	0.3738	0.0833	12:31:35	Yes
Mean:		[5]	0.0838				
SD:		0	0.0011				
%RSD:		0	1.26				

Standard number 4 applied. [5]
Correlation Coef.: 0.999337 Slope: 0.01671 Intercept: 0.00000

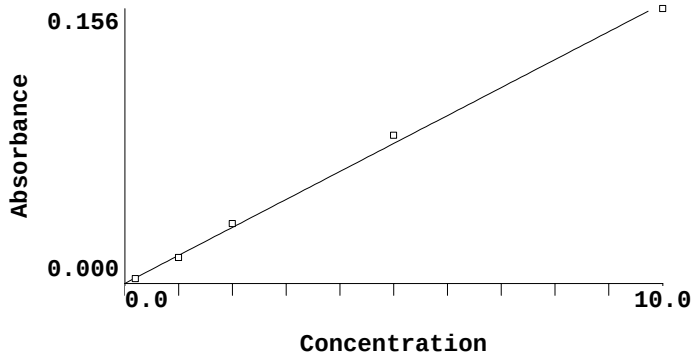
==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10.0 **Date Collected: 9/25/2012 12:31:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1576	0.7133	0.1578	12:32:34	Yes
2		[10]	0.1539	0.7019	0.1541	12:33:14	Yes
Mean:		[10]	0.1557				
SD:		0	0.0026				
%RSD:		0	1.67				

Standard number 5 applied. [10]
Correlation Coef.: 0.998935 Slope: 0.01585 Intercept: 0.00000
The calibration curve may not be linear.



Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	8.8
S0.20	0.0027	0.2	0.168	0.00	1.7
S1.0	0.0146	1.0	0.924	0.00	2.0
S2.0	0.0338	2.0	2.130	0.00	0.9
S5.0	0.0838	5.0	5.286	0.00	1.3
S10.0	0.1557	10.0	9.826	0.00	1.7

Correlation Coef.: 0.998935 Slope: 0.01585 Intercept: 0.00000

==========

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 9/25/2012 12:33:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.223	5.223	0.0828	0.3719	0.0830	12:34:14	Yes
2	5.122	5.122	0.0812	0.3681	0.0814	12:34:54	Yes
Mean:	5.173	5.173	0.0820				
SD:	0.072	0.072	0.0011				
%RSD:	1.383	1.383	1.38				

QC value within limits for Hg 253.7 Recovery = 103.45%
All analyte(s) passed QC.

==========

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 9/25/2012 12:34:56 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.0001	-0.0008	0.0002	12:35:56	Yes
2	-0.008	-0.008	-0.0001	-0.0012	0.0001	12:36:36	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	40.69	40.69	40.69				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 9 **Autosampler Location: 17**
Sample ID: MB-68310~PBS **Date Collected: 9/25/2012 12:36:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-68310~PBS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.008	-0.008	-0.0001	-0.0008	0.0001	12:37:36	Yes
2	-0.009	-0.009	-0.0001	-0.0008	0.0001	12:38:15	Yes
Mean:	-0.009	-0.009	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	4.094	4.094	4.09				

==========

Sequence No.: 10 **Autosampler Location: 18**
Sample ID: LCS-68310~LCS **Date Collected: 9/25/2012 12:38:17 PM**
Analyst: **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-68310~LCS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.405	4.405	0.0698	0.3136	0.0700	12:39:15	Yes
2	4.344	4.344	0.0688	0.3112	0.0691	12:39:55	Yes
Mean:	4.374	4.374	0.0693				
SD:	0.043	0.043	0.0007				
%RSD:	0.984	0.984	0.98				

==========

Sequence No.: 11 **Autosampler Location: 19**
Sample ID: L1949-09A~SED 1 **Date Collected: 9/25/2012 12:39:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-09A~SED 1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.304	0.304	0.0048	0.0220	0.0051	12:40:54	Yes
2	0.303	0.303	0.0048	0.0213	0.0050	12:41:34	Yes
Mean:	0.303	0.303	0.0048				
SD:	0.001	0.001	0.0000				
%RSD:	0.375	0.375	0.37				

==========

Sequence No.: 12 **Autosampler Location: 20**
Sample ID: L1949-09ADUP~SED 1D **Date Collected: 9/25/2012 12:41:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-09ADUP~SED 1D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.430	0.430	0.0068	0.0301	0.0071	12:42:33	Yes
2	0.432	0.432	0.0068	0.0308	0.0071	12:43:13	Yes
Mean:	0.431	0.431	0.0068				
SD:	0.001	0.001	0.0000				
%RSD:	0.189	0.189	0.19				

==========

Sequence No.: 13 **Autosampler Location: 21**
Sample ID: L1949-09AMS~SED 1S **Date Collected: 9/25/2012 12:43:15 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-09AMS~SED 1S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.346	5.346	0.0847	0.3851	0.0850	12:44:13	Yes
2	5.286	5.286	0.0838	0.3819	0.0840	12:44:53	Yes
Mean:	5.316	5.316	0.0843				
SD:	0.043	0.043	0.0007				
%RSD:	0.806	0.806	0.81				

==========

Sequence No.: 14 **Autosampler Location: 22**
Sample ID: L1949-10A~SED 2 **Date Collected: 9/25/2012 12:44:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-10A~SED 2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.515	0.515	0.0082	0.0362	0.0084	12:45:53	Yes
2	0.501	0.501	0.0079	0.0356	0.0082	12:46:33	Yes
Mean:	0.508	0.508	0.0081				
SD:	0.009	0.009	0.0001				
%RSD:	1.862	1.862	1.86				

==========

Sequence No.: 15 **Autosampler Location: 23**
Sample ID: L1949-11A~SED 3 **Date Collected: 9/25/2012 12:46:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-11A~SED 3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.136	0.136	0.0022	0.0097	0.0024	12:47:32	Yes
2	0.134	0.134	0.0021	0.0088	0.0024	12:48:11	Yes
Mean:	0.135	0.135	0.0021				
SD:	0.002	0.002	0.0000				
%RSD:	1.455	1.455	1.46				

==========

Sequence No.: 16 **Autosampler Location: 24**
Sample ID: L1949-12A~SED 4 **Date Collected: 9/25/2012 12:48:13 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-12A~SED 4

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.302	0.302	0.0048	0.0214	0.0050	12:49:11	Yes
2	0.299	0.299	0.0047	0.0219	0.0050	12:49:51	Yes
Mean:	0.300	0.300	0.0048				
SD:	0.002	0.002	0.0000				
%RSD:	0.739	0.739	0.74				

==========

Sequence No.: 17 **Autosampler Location: 25**
Sample ID: L1949-13A~SED 5 **Date Collected: 9/25/2012 12:49:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-13A~SED 5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.097	0.097	0.0015	0.0069	0.0018	12:50:50	Yes
2	0.096	0.096	0.0015	0.0063	0.0018	12:51:30	Yes
Mean:	0.097	0.097	0.0015				
SD:	0.000	0.000	0.0000				
%RSD:	0.501	0.501	0.50				

==========

Sequence No.: 18 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 9/25/2012 12:51:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.136	5.136	0.0814	0.3696	0.0816	12:52:31	Yes
2	5.114	5.114	0.0811	0.3681	0.0813	12:53:10	Yes
Mean:	5.125	5.125	0.0812				
SD:	0.016	0.016	0.0002				
%RSD:	0.307	0.307	0.31				

QC value within limits for Hg 253.7 Recovery = 102.51%
All analyte(s) passed QC.

==========

Sequence No.: 19 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/25/2012 12:53:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.0001	-0.0008	0.0002	12:54:16	Yes
2	-0.004	-0.004	-0.0001	-0.0006	0.0002	12:54:56	Yes
Mean:	-0.004	-0.004	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	9.904	9.904	9.90				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 20 **Autosampler Location: 26**
Sample ID: L1949-14A~SED 6 **Date Collected: 9/25/2012 12:54:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-14A~SED 6

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.043	0.043	0.0007	0.0029	0.0009	12:55:58	Yes
2	0.044	0.044	0.0007	0.0028	0.0009	12:56:38	Yes
Mean:	0.043	0.043	0.0007				
SD:	0.000	0.000	0.0000				
%RSD:	0.408	0.408	0.41				

==========

Sequence No.: 21 **Autosampler Location: 27**
Sample ID: L1949-15A~SED X FB **Date Collected: 9/25/2012 12:56:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-15A~SED X FB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.014	-0.014	-0.0002	-0.0024	0.0000	12:57:37	Yes
2	-0.014	-0.014	-0.0002	-0.0013	0.0000	12:58:17	Yes
Mean:	-0.014	-0.014	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.693	0.693	0.69				

==========

Sequence No.: 22 **Autosampler Location: 28**
Sample ID: L1949-16A~SED X FD **Date Collected: 9/25/2012 12:58:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-16A~SED X FD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.391	0.391	0.0062	0.0275	0.0064	12:59:16	Yes
2	0.390	0.390	0.0062	0.0282	0.0064	12:59:56	Yes
Mean:	0.390	0.390	0.0062				
SD:	0.001	0.001	0.0000				
%RSD:	0.245	0.245	0.24				

==========

Sequence No.: 23 **Autosampler Location: 29**
Sample ID: L1957-01A~SS-29 **Date Collected: 9/25/2012 12:59:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-01A~SS-29

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.484	1.484	0.0235	0.1059	0.0238	13:00:56	Yes
2	1.450	1.450	0.0230	0.1036	0.0232	13:01:36	Yes
Mean:	1.467	1.467	0.0233				
SD:	0.024	0.024	0.0004				
%RSD:	1.635	1.635	1.64				

==========

Sequence No.: 24 **Autosampler Location: 30**
Sample ID: L1957-02A~SS-34 **Date Collected: 9/25/2012 1:01:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-02A~SS-34

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.231	0.231	0.0037	0.0159	0.0039	13:02:35	Yes
2	0.234	0.234	0.0037	0.0159	0.0039	13:03:14	Yes
Mean:	0.233	0.233	0.0037				
SD:	0.002	0.002	0.0000				
%RSD:	0.905	0.905	0.90				

==========

Sequence No.: 25 **Autosampler Location: 31**
Sample ID: L1957-03A~SS-33 **Date Collected: 9/25/2012 1:03:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-03A~SS-33

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.096	0.096	0.0015	0.0075	0.0018	13:04:14	Yes
2	0.092	0.092	0.0015	0.0056	0.0017	13:04:54	Yes
Mean:	0.094	0.094	0.0015				
SD:	0.003	0.003	0.0000				
%RSD:	3.142	3.142	3.14				

==========

Sequence No.: 26 **Autosampler Location: 32**
Sample ID: L1957-04A~SS-32 **Date Collected: 9/25/2012 1:04:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-04A~SS-32

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.070	0.070	0.0011	0.0057	0.0013	13:05:56	Yes

2	0.069	0.069	0.0011	0.0047	0.0013	13:06:36	Yes
Mean:	0.069	0.069	0.0011				
SD:	0.001	0.001	0.0000				
%RSD:	0.850	0.850	0.85				

==========

Sequence No.: 27 **Autosampler Location: 33**
Sample ID: L1957-05A~SS-31 **Date Collected: 9/25/2012 1:06:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-05A~SS-31

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.099	0.099	0.0016	0.0083	0.0018	13:07:35	Yes
2	0.107	0.107	0.0017	0.0099	0.0019	13:08:16	Yes
Mean:	0.103	0.103	0.0016				
SD:	0.005	0.005	0.0001				
%RSD:	5.223	5.223	5.22				

==========

Sequence No.: 28 **Autosampler Location: 34**
Sample ID: L1957-06A~SS-37 **Date Collected: 9/25/2012 1:08:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-06A~SS-37

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.060	0.060	0.0010	0.0062	0.0012	13:09:15	Yes
2	0.063	0.063	0.0010	0.0081	0.0012	13:09:55	Yes
Mean:	0.062	0.062	0.0010				
SD:	0.002	0.002	0.0000				
%RSD:	3.063	3.063	3.06				

==========

Sequence No.: 29 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 9/25/2012 1:09:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.955	4.955	0.0785	0.3632	0.0788	13:10:57	Yes
2	4.880	4.880	0.0773	0.3561	0.0776	13:11:37	Yes
Mean:	4.918	4.918	0.0779				
SD:	0.053	0.053	0.0008				
%RSD:	1.088	1.088	1.09				

QC value within limits for Hg 253.7 Recovery = 98.35%
All analyte(s) passed QC.

==========

Sequence No.: 30 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/25/2012 1:11:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0025	0.0003	13:12:40	Yes
2	0.005	0.005	0.0001	0.0043	0.0003	13:13:19	Yes

Mean:	0.003	0.003	0.0001
SD:	0.002	0.002	0.0000
%RSD:	73.79	73.79	73.79

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 31 **Autosampler Location: 35**
Sample ID: L1957-07A~SS-38 **Date Collected: 9/25/2012 1:13:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-07A~SS-38

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.054	0.054	0.0009	0.0062	0.0011	13:14:20	Yes
2	0.051	0.051	0.0008	0.0065	0.0010	13:15:00	Yes
Mean:	0.053	0.053	0.0008				
SD:	0.002	0.002	0.0000				
%RSD:	4.246	4.246	4.25				

==========

Sequence No.: 32 **Autosampler Location: 36**
Sample ID: L1957-08A~SS-36 **Date Collected: 9/25/2012 1:15:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-08A~SS-36

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.113	0.113	0.0018	0.0108	0.0020	13:15:59	Yes
2	0.114	0.114	0.0018	0.0126	0.0020	13:16:39	Yes
Mean:	0.113	0.113	0.0018				
SD:	0.000	0.000	0.0000				
%RSD:	0.389	0.389	0.39				

==========

Sequence No.: 33 **Autosampler Location: 37**
Sample ID: L1957-09A~SS-35 **Date Collected: 9/25/2012 1:16:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-09A~SS-35

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.096	0.096	0.0015	0.0100	0.0018	13:17:39	Yes
2	0.094	0.094	0.0015	0.0085	0.0017	13:18:19	Yes
Mean:	0.095	0.095	0.0015				
SD:	0.002	0.002	0.0000				
%RSD:	1.856	1.856	1.86				

==========

Sequence No.: 34 **Autosampler Location: 38**
Sample ID: L1957-10A~SS-30 **Date Collected: 9/25/2012 1:18:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1957-10A~SS-30

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0004	0.0038	0.0007	13:19:18	Yes
2	0.033	0.033	0.0005	0.0050	0.0008	13:19:59	Yes
Mean:	0.030	0.030	0.0005				

SD:	0.004	0.004	0.0001
%RSD:	13.61	13.61	13.61

==========

Sequence No.: 35 **Autosampler Location: 39**
Sample ID: L1993-01A~TS-5 **Date Collected: 9/25/2012 1:20:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1993-01A~TS-5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.352	0.352	0.0056	0.0267	0.0058	13:20:58	Yes
2	0.350	0.350	0.0055	0.0256	0.0058	13:21:38	Yes
Mean:	0.351	0.351	0.0056				
SD:	0.001	0.001	0.0000				
%RSD:	0.422	0.422	0.42				

==========

Sequence No.: 36 **Autosampler Location: 40**
Sample ID: L1993-02A~TS-6 **Date Collected: 9/25/2012 1:21:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1993-02A~TS-6

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.304	0.304	0.0048	0.0215	0.0051	13:22:38	Yes
2	0.303	0.303	0.0048	0.0214	0.0050	13:23:18	Yes
Mean:	0.304	0.304	0.0048				
SD:	0.001	0.001	0.0000				
%RSD:	0.243	0.243	0.24				

==========

Sequence No.: 37 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 9/25/2012 1:23:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.917	4.917	0.0779	0.3549	0.0782	13:24:19	Yes
2	4.928	4.928	0.0781	0.3559	0.0783	13:24:58	Yes
Mean:	4.923	4.923	0.0780				
SD:	0.008	0.008	0.0001				
%RSD:	0.166	0.166	0.17				

QC value within limits for Hg 253.7 Recovery = 98.45%
All analyte(s) passed QC.

==========

Sequence No.: 38 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/25/2012 1:25:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	-0.0010	0.0002	13:26:01	Yes
2	0.001	0.001	0.0000	-0.0002	0.0003	13:26:40	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.001	0.001	0.0000				

%RSD: 852.0 852.0 852.02
QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Analysis Begun

Logged In Analyst: mitFIMS2 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\mitFIMS2\Sample Information\1003A.sif
Batch ID: Null
Results Data Set: HG12100301
Results Library: C:\data-AA\mitFIMS2\Results\Results.mdb

==========

Method Loaded
Method Name: Comm Hg **Method Last Saved: 7/27/2011 10:10:28 AM**
Method Description: Hg Anallysis by Cold Vapor AA

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin Thru 0	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 10/3/2012 10:34:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0000	-0.0022	0.0000	10:35:38	Yes
2		[0.00]	0.0000	-0.0025	0.0000	10:36:18	Yes
Mean:		[0.00]	0.0000				
SD:		0.00	0.0000				
%RSD:		0.00	33.71				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.20 **Date Collected: 10/3/2012 10:36:20 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0022	0.0065	0.0022	10:37:18	Yes
2		[0.2]	0.0023	0.0069	0.0023	10:37:58	Yes
Mean:		[0.2]	0.0023				
SD:		0.0	0.0000				
%RSD:		0.0	0.85				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01126 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S1.0 **Date Collected: 10/3/2012 10:38:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0114	0.0434	0.0114	10:38:58	Yes
2		[1]	0.0112	0.0435	0.0112	10:39:38	Yes
Mean:		[1]	0.0113				

SD: 0 0.0001
%RSD: 0 1.23
Standard number 2 applied. [1]
Correlation Coef.: 0.999997 Slope: 0.01134 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S2.0 **Date Collected: 10/3/2012 10:39:40 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0220	0.0909	0.0220	10:40:38	Yes
2		[2]	0.0221	0.0878	0.0221	10:41:18	Yes
Mean:		[2]	0.0220				
SD:		0	0.0000				
%RSD:		0	0.13				

Standard number 3 applied. [2]
Correlation Coef.: 0.999792 Slope: 0.01109 Intercept: 0.00000

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5.0 **Date Collected: 10/3/2012 10:41:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0541	0.2265	0.0541	10:42:18	Yes
2		[5]	0.0552	0.2246	0.0552	10:42:57	Yes
Mean:		[5]	0.0547				
SD:		0	0.0008				
%RSD:		0	1.44				

Standard number 4 applied. [5]
Correlation Coef.: 0.999944 Slope: 0.01096 Intercept: 0.00000

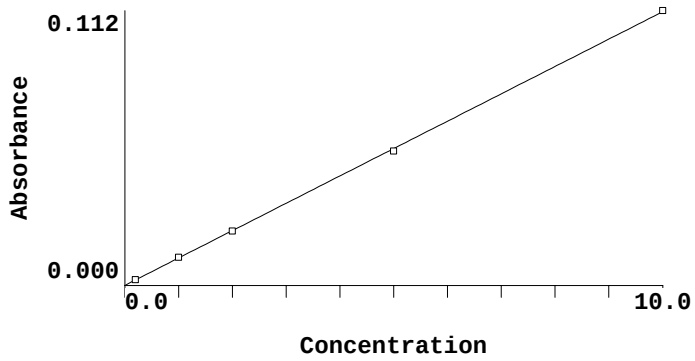
==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10.0 **Date Collected: 10/3/2012 10:42:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1113	0.4700	0.1113	10:43:56	Yes
2		[10]	0.1123	0.4690	0.1123	10:44:36	Yes
Mean:		[10]	0.1118				
SD:		0	0.0007				
%RSD:		0	0.62				

Standard number 5 applied. [10]
Correlation Coef.: 0.999916 Slope: 0.01113 Intercept: 0.00000



Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	33.7
S0.20	0.0023	0.2	0.202	0.00	0.9
S1.0	0.0113	1.0	1.019	0.00	1.2
S2.0	0.0220	2.0	1.980	0.00	0.1
S5.0	0.0547	5.0	4.911	0.00	1.4
S10.0	0.1118	10.0	10.045	0.00	0.6

Correlation Coef.: 0.999916 Slope: 0.01113 Intercept: 0.00000

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 10/3/2012 10:44:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.206	5.206	0.0580	0.2337	0.0580	10:45:36	Yes
2	5.025	5.025	0.0559	0.2350	0.0559	10:46:16	Yes
Mean:	5.115	5.115	0.0569				
SD:	0.128	0.128	0.0014				
%RSD:	2.506	2.506	2.51				

QC value within limits for Hg 253.7 Recovery = 102.31%
All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 10/3/2012 10:46:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	-0.0030	0.0000	10:47:19	Yes
2	0.004	0.004	0.0000	-0.0032	0.0001	10:47:59	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	23.61	23.61	23.61				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 17**
Sample ID: MB-68486 **Date Collected: 10/3/2012 10:48:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-68486

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	-0.0044	0.0000	10:48:59	Yes
2	0.002	0.002	0.0000	-0.0039	0.0000	10:49:38	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	326.7	326.7	326.74				

==========

Sequence No.: 10 **Autosampler Location: 18**
Sample ID: LCS-68486 **Date Collected: 10/3/2012 10:49:40 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-68486

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.618	4.618	0.0514	0.2163	0.0514	10:50:38	Yes
2	4.645	4.645	0.0517	0.2122	0.0517	10:51:18	Yes
Mean:	4.631	4.631	0.0516				
SD:	0.019	0.019	0.0002				
%RSD:	0.413	0.413	0.41				

==========

Sequence No.: 11 **Autosampler Location: 19**
Sample ID: MB-68485 **Date Collected: 10/3/2012 10:51:20 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-68485

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	-0.0025	0.0001	10:52:17	Yes
2	0.008	0.008	0.0001	-0.0025	0.0001	10:52:57	Yes
Mean:	0.008	0.008	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	2.311	2.311	2.31				

==========

Sequence No.: 12 **Autosampler Location: 20**
Sample ID: L1945-01D **Date Collected: 10/3/2012 10:52:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1945-01D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	-0.0024	0.0001	10:53:57	Yes
2	0.004	0.004	0.0000	-0.0018	0.0001	10:54:37	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	6.654	6.654	6.65				

==========

Sequence No.: 13 **Autosampler Location: 21**
Sample ID: L1949-01A **Date Collected: 10/3/2012 10:54:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-01A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0000	-0.0018	0.0001	10:55:36	Yes
2	0.004	0.004	0.0000	-0.0021	0.0001	10:56:16	Yes
Mean:	0.004	0.004	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	3.782	3.782	3.78				

==========

Sequence No.: 14 **Autosampler Location: 22**
Sample ID: L1949-02A **Date Collected: 10/3/2012 10:56:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-02A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	-0.0022	0.0001	10:57:16	Yes
2	0.011	0.011	0.0001	-0.0024	0.0001	10:57:56	Yes
Mean:	0.009	0.009	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	34.37	34.37	34.37				

==========

Sequence No.: 15 **Autosampler Location: 23**
Sample ID: L1949-03A **Date Collected: 10/3/2012 10:57:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-03A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	-0.0024	0.0001	10:58:55	Yes
2	0.004	0.004	0.0000	-0.0028	0.0000	10:59:36	Yes
Mean:	0.004	0.004	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	28.89	28.89	28.89				

==========

Sequence No.: 16 **Autosampler Location: 24**
Sample ID: L1949-03ADUP **Date Collected: 10/3/2012 10:59:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-03ADUP

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.0001	-0.0019	0.0001	11:00:35	Yes
2	0.009	0.009	0.0001	-0.0015	0.0001	11:01:15	Yes
Mean:	0.008	0.008	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	26.05	26.05	26.05				

==========

Sequence No.: 17 **Autosampler Location: 25**
Sample ID: L1949-03AMS **Date Collected: 10/3/2012 11:01:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-03AMS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.459	4.459	0.0496	0.2097	0.0496	11:02:15	Yes

2	4.456	4.456	0.0496	0.2080	0.0496	11:02:55	Yes
Mean:	4.458	4.458	0.0496				
SD:	0.002	0.002	0.0000				
%RSD:	0.042	0.042	0.04				

==========

Sequence No.: 18 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 10/3/2012 11:02:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.038	5.038	0.0561	0.2385	0.0561	11:03:56	Yes
2	5.060	5.060	0.0563	0.2374	0.0563	11:04:36	Yes
Mean:	5.049	5.049	0.0562				
SD:	0.015	0.015	0.0002				
%RSD:	0.300	0.300	0.30				

QC value within limits for Hg 253.7 Recovery = 100.98%
All analyte(s) passed QC.

==========

Sequence No.: 19 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/3/2012 11:04:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	-0.0013	0.0001	11:05:38	Yes
2	0.010	0.010	0.0001	-0.0015	0.0001	11:06:18	Yes
Mean:	0.009	0.009	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	26.54	26.54	26.54				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 20 **Autosampler Location: 26**
Sample ID: L1949-04A **Date Collected: 10/3/2012 11:06:20 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-04A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.0001	-0.0014	0.0001	11:07:20	Yes
2	0.005	0.005	0.0001	-0.0012	0.0001	11:08:00	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	1.550	1.550	1.55				

==========

Sequence No.: 21 **Autosampler Location: 27**
Sample ID: L1949-05A **Date Collected: 10/3/2012 11:08:02 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-05A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.009	0.009	0.0001	-0.0014	0.0001	11:08:59	Yes
2	0.009	0.009	0.0001	-0.0018	0.0001	11:09:40	Yes
Mean:	0.009	0.009	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.406	0.406	0.41				

==========

Sequence No.: 22 **Autosampler Location: 28**
Sample ID: L1949-06A **Date Collected: 10/3/2012 11:09:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-06A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	-0.0017	0.0001	11:10:39	Yes
2	0.008	0.008	0.0001	-0.0012	0.0001	11:11:19	Yes
Mean:	0.008	0.008	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	3.667	3.667	3.67				

==========

Sequence No.: 23 **Autosampler Location: 29**
Sample ID: L1949-07A **Date Collected: 10/3/2012 11:11:21 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-07A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	-0.0020	0.0000	11:12:18	Yes
2	0.002	0.002	0.0000	-0.0018	0.0000	11:12:58	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	26.79	26.79	26.79				

==========

Sequence No.: 24 **Autosampler Location: 30**
Sample ID: L1949-08A **Date Collected: 10/3/2012 11:13:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1949-08A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	-0.0011	0.0001	11:13:58	Yes
2	0.007	0.007	0.0001	-0.0008	0.0001	11:14:38	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	11.36	11.36	11.36				

==========

Sequence No.: 25 **Autosampler Location: 31**
Sample ID: L2069-01B **Date Collected: 10/3/2012 11:14:40 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L2069-01B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	0.0001	-0.0012	0.0001	11:15:38	Yes
2	0.013	0.013	0.0001	-0.0008	0.0002	11:16:18	Yes
Mean:	0.012	0.012	0.0001				

SD:	0.002	0.002	0.0000
%RSD:	17.47	17.47	17.47

==========

Sequence No.: 26 **Autosampler Location: 32**
Sample ID: L2041-01C **Date Collected: 10/3/2012 11:16:20 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L2041-01C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	-0.0012	0.0001	11:17:21	Yes
2	0.005	0.005	0.0001	-0.0014	0.0001	11:18:01	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	20.12	20.12	20.12				

==========

Sequence No.: 27 **Autosampler Location: 33**
Sample ID: L2041-01D **Date Collected: 10/3/2012 11:18:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L2041-01D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	-0.0008	0.0001	11:19:00	Yes
2	0.006	0.006	0.0001	-0.0018	0.0001	11:19:40	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	19.59	19.59	19.59				

==========

Sequence No.: 28 **Autosampler Location: 34**
Sample ID: L2041-02C **Date Collected: 10/3/2012 11:19:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L2041-02C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	-0.0004	0.0001	11:20:40	Yes
2	0.006	0.006	0.0001	-0.0014	0.0001	11:21:19	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	17.80	17.80	17.80				

==========

Sequence No.: 29 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 10/3/2012 11:21:21 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.031	5.031	0.0560	0.2402	0.0560	11:22:21	Yes
2	5.054	5.054	0.0563	0.2416	0.0563	11:23:01	Yes
Mean:	5.043	5.043	0.0561				
SD:	0.016	0.016	0.0002				
%RSD:	0.326	0.326	0.33				

QC value within limits for Hg 253.7 Recovery = 100.86%

All analyte(s) passed QC.

==========

Sequence No.: 30 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/3/2012 11:23:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.012	0.012	0.0001	-0.0004	0.0001	11:24:04	Yes
2	0.010	0.010	0.0001	-0.0008	0.0001	11:24:44	Yes
Mean:	0.011	0.011	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	10.24	10.24	10.24				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 31 **Autosampler Location: 35**
Sample ID: L2041-02D **Date Collected: 10/3/2012 11:24:46 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L2041-02D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0001	-0.0008	0.0001	11:25:44	Yes
2	0.008	0.008	0.0001	0.0000	0.0001	11:26:25	Yes
Mean:	0.009	0.009	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	1.121	1.121	1.12				

==========

Sequence No.: 32 **Autosampler Location: 36**
Sample ID: L2041-03C **Date Collected: 10/3/2012 11:26:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L2041-03C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.0001	-0.0013	0.0001	11:27:24	Yes
2	0.006	0.006	0.0001	-0.0003	0.0001	11:28:04	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.475	0.475	0.47				

==========

Sequence No.: 33 **Autosampler Location: 37**
Sample ID: L2041-03D **Date Collected: 10/3/2012 11:28:06 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L2041-03D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	-0.0010	0.0000	11:29:04	Yes
2	0.005	0.005	0.0001	-0.0011	0.0001	11:29:43	Yes
Mean:	0.004	0.004	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	28.75	28.75	28.75				

Prep Start Date: **9/25/2012 2:00:00 P**
Prep End Date: **9/25/2012 4:00:00 P**
Prep Batch ID: **68292**

Prep Code: **ICP_S_PR**
Technician: **David T Camara**

Prep Type: **3050B/SW3050B**

Prep Factor Units: **mL / g**

QC Matrix: N/A
QC Matrix Lot: N/A

1:1 HNO3 **1111101**
1:1 HNO3 (mL): **5.0**

30% H2O2 **111035**
30% H2O2 (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**

Conc HCl **4111111**
Conc HCl (mL): **5.0**

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: **09/25/2012 14:00**
Digestion End Time 1: **09/25/2012 14:45**

Digestion Start Time 2: **09/25/2012 15:45**
Digestion End Time 2: **09/25/2012 16:00**

Block Temp (C): 97

Therm ID1: MT-94
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	pH <2	HOT BLOCK
MB-68292			1	50	--	--	--	--					09/25/12	DTC	ICPLab		☐	☐	HB-3
LCS-68292			1	50	--	--	--	--					09/25/12	DTC	ICPLab		☐	☐	HB-3
455 uL II120727B, 455 uL IP120321A, 45.5 uL IP120608A, 45.5 uL IP120608B																			
L1949-09A	SED 1	S	1.05	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1949-09ADUP	SED 1	S	1.06	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
L1949-09AMS	SED 1	S	1.06	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
455 uL II120727B, 455 uL IP120321A, 45.5 uL IP120608A, 45.5 uL IP120608B																			
L1949-10A	SED 2	S	1.29	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1949-11A	SED 3	S	1.15	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1949-12A	SED 4	S	1.08	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1949-13A	SED 5	S	1.17	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1949-14A	SED 6	S	1.15	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1949-16A	SED X FD	S	1.16	50	--	--	--	--			10/08/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-01A	SS-29	S	1.4	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-02A	SS-34	S	1.13	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-03A	SS-33	S	1.1	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-04A	SS-32	S	1.03	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-05A	SS-31	S	1.22	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-06A	SS-37	S	1.06	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			

DC 9/26/12

Logbook ID 100.0124-06/12

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

Prep Start Date: **9/25/2012 2:00:00 P**
Prep End Date: **9/25/2012 4:00:00 P** Prep Code: **ICP_S_PR** Prep Type: **3050B/SW3050B** Prep Factor Units: **mL / g**
Prep Batch ID: **68292** Technician: **David T Camara**

QC Matrix: N/A 1:1 HNO3 **1111101** 30% H2O2 **111035** Reagent 5 Lot: N/A
QC Matrix Lot: N/A 1:1 HNO3 (mL): **5.0** 30% H2O2 (mL): **5.0** Reagent 5 (mL): N/A

Filter?: N/A Conc HNO3 **1112012** Conc HCl **4111111** Reagent 6 Lot: N/A
Filter Lot: N/A Conc HNO3 (mL): **2.5** Conc HCl (mL): **5.0** Reagent 6 (mL): N/A

Digestion Start Time 1: **09/25/2012 14:00** Digestion Start Time 2: **09/25/2012 15:45** Block Temp (C): **97** Therm ID1: **MT-94**
Digestion End Time 1: **09/25/2012 14:45** Digestion End Time 2: **09/25/2012 16:00** 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	pH <2	HOT BLOCK
L1957-07A	SS-38	S	1.31	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-08A	SS-36	S	1.18	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-09A	SS-35	S	1.39	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L1957-10A	SS-30	S	1.06	50	--	--	--	--			10/04/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L2019-06A	CALLAHAN-001-C-09	S	1.14	50	--	--	--	--			10/05/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			
L2019-08A	VANORDEN-002-C-09	S	1.02	50	--	--	--	--			10/05/12	01	09/25/12	DTC	ICPLab		☐	☐	HB-3
TAL																			

David T Camara 09/25/2012 HZA 9/26/12
Analyst Reviewed Date Manager Reviewed Date

Comments:

DC 9/26/12

Logbook ID 100.0124-06/12

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

Prep Start Date: **9/25/2012 11:30:00**
Prep End Date: **9/25/2012 12:30:00**
Prep Batch ID: **68310**

Prep Code: **SW7471A_PR**
Technician: **Jill L Cartwright**

Prep Type: **7471B/METHOD**

Prep Factor Units: **mL / g**

QC Matrix: N/A
QC Matrix Lot: N/A

Conc HNO3 **1112012**
Conc HNO3 (mL): **1.25**

5% KMnO4 **IR12091501**
5% KMnO4 (mL): **15.0**

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HCl **4111111**
Conc HCl (mL): **3.75**

Reagent 4 Lot: N/A
Reagent 4 (mL): N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 09/25/2012 11:30
Digestion End Time 1: 09/25/2012 11:32

Digestion Start Time 2: 09/25/2012 12:00
Digestion End Time 2: 09/25/2012 12:30

Block Temp (C): **96**

Therm ID1: **MT-47**
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	pH <2	HOT BLOCK
S0			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
S0.2			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
40 uL II120925A																			
S1.0			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
200 uL II120925A																			
S2.0			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
400 uL II120925A																			
S5.0			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
1000 uL II120925A																			
S10.0			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
2000 uL II120925A																			
ICV			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
1000 uL II120828A																			
ICB			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
CCV			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
1000 uL II120828A																			
CCB			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
MB-68310			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
LCS-68310			0.6	100	--	--	--	--					09/25/12	JLC	HgLab		☐	☐	HB-A
1000 uL II120828B																			
L1949-09A	SED 1	S	0.54	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1949-09ADUP	SED 1	S	0.54	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
L1949-09AMS	SED 1	S	0.54	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
1000 uL II120828B																			
L1949-10A	SED 2	S	0.59	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1949-11A	SED 3	S	0.59	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1949-12A	SED 4	S	0.52	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			

9/25/12 JLC

209 **Logbook ID: 100.0128 -08/12**

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

Prep Start Date: **9/25/2012 11:30:00**
Prep End Date: **9/25/2012 12:30:00** Prep Code: **SW7471A_PR** Prep Type: **7471B/METHOD** Prep Factor Units: **mL / g**
Prep Batch ID: **68310** Technician: **Jill L Cartwright**

QC Matrix: N/A Conc HNO3 **1112012** 5% KMnO4 **IR12091501** Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): **1.25** 5% KMnO4 (mL): **15.0** Reagent 5 (mL): N/A

Filter?: N/A Conc HCl **4111111** Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): **3.75** Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 09/25/2012 11:30 Digestion Start Time 2: 09/25/2012 12:00 Block Temp (C): **96** Therm ID1: **MT-47**
Digestion End Time 1: 09/25/2012 11:32 Digestion End Time 2: 09/25/2012 12:30 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	pH <2	HOT BLOCK
L1949-13A	SED 5	S	0.53	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1949-14A	SED 6	S	0.51	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1949-16A	SED X FD	S	0.55	100	--	--	--	--			10/08/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1957-01A	SS-29	S	0.53	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1957-02A	SS-34	S	0.54	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1957-03A	SS-33	S	0.52	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-2
TAL																			
L1957-04A	SS-32	S	0.53	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
TAL																			
L1957-05A	SS-31	S	0.55	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
TAL																			
L1957-06A	SS-37	S	0.59	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
TAL																			
L1957-07A	SS-38	S	0.52	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
TAL																			
L1957-08A	SS-36	S	0.58	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
TAL																			
L1957-09A	SS-35	S	0.5	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
TAL																			
L1957-10A	SS-30	S	0.58	100	--	--	--	--			10/04/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
TAL																			
L1993-01A	TS-5	S	0.53	100	--	--	--	--			09/26/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C
L1993-02A	TS-6	S	0.51	100	--	--	--	--			09/26/12	01	09/25/12	JLC	HgLab		☐	☐	HB-C

Jill L Cartwright 09/25/2012 HZA 9/25/12
Analyst Reviewed Date Manager Reviewed Date

Comments:
Logbook ID: 100.0128 -08/12

9/25/12 JLC

210

Prep Start Date: **9/30/2012 7:00:00 P**
Prep End Date: **9/30/2012 11:00:00**
Prep Batch ID: **68437**

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 1112040
Conc HNO3 (mL): 1.0

Reagent 3 Lot: N/A
Reagent 3 (mL): N/A

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HCl 4111060
Conc HCl (mL): 2.5

Reagent 4 Lot: N/A
Reagent 4 (mL): N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 09/30/2012 19:00
Digestion End Time 1: 09/30/2012 23:00

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 97

Therm ID1: MT-102
Corr Fac -2

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	pH <2	HOT BLOCK
MB-68437			50	50	--	--	--	--					09/30/12	DTC	ICPLab	2	☐	☐	HB-B
LCS-68437			50	50	--	--	--	--					09/30/12	DTC	ICPLab	2	☐	☐	HB-B
455 uL II120727B, 455 uL IP120321A, 45.5 uL IP120608A, 45.5 uL IP120608B																			
L1949-01A	SW 1	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1949-02A	SW 2	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1949-03A	SW 3	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1949-03ADUP	SW 3	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
L1949-03AMS	SW 3	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
455 uL II120727B, 455 uL IP120321A, 45.5 uL IP120608A, 45.5 uL IP120608B																			
L1949-04A	SW 4	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1949-05A	SW 5	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1949-06A	SW 6	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1949-07A	SW X-FD	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1949-08A	SW FB	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1976-01B	EFF-092012	A	50	50	--	--	--	--			10/10/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
See SEL list																			
L1976-02B	INF-092012	A	50	50	--	--	--	--			10/10/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
See SEL list																			
L1983-01C	STA-01	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1983-02C	STA-02	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1983-03C	STA-03	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			

DC 9/30/12

21

Logbook ID 100.0125 -06/12

Sunday, September 30, 2012 23:38

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

Prep Start Date: **9/30/2012 7:00:00 P**
Prep End Date: **9/30/2012 11:00:00** Prep Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**
Prep Batch ID: **68437** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 1112040 Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): 1.0 Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl 4111060 Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 2.5 Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 09/30/2012 19:00 Digestion Start Time 2: N/A Block Temp (C): 97 Therm ID1: MT-102
Digestion End Time 1: 09/30/2012 23:00 Digestion End Time 2: N/A Corr Fac -2

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	pH <2	HOT BLOCK
L1983-04C	STA-04	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1983-05C	STA-05	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1983-06C	FD-01	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1984-01C	STA-06	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1984-02C	STA-07	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1984-02CDUP	STA-07	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
L1984-02CMS	STA-07	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
455 uL II120727B, 455 uL IP120321A, 45.5 uL IP120608A, 45.5 uL IP120608B																			
L1984-03C	STA-08	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			
L1984-04C	STA-09	A	50	50	--	--	--	--			10/08/12	01	09/30/12	DTC	ICPLab	2	☐	☐	HB-B
TAL																			

David T Camara 09/30/2012 HZA 10/1/12
Analyst Reviewed Date Manager Reviewed Date

Comments:

DC 9/30/12

Digestate Relinquished to:_____ **Reviewed By:** _____

Prep Start Date: 10/2/2012 ~~2:51:12 P~~ 6:30 P
Prep End Date: 10/2/2012 8:30:00 P HZA
Prep Batch ID: 68486 10/3/12

Prep Code: SW7470A_PR
Technician: Courtney J Anderson

Prep Type: 7470A/METHOD

Prep Factor Units: mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Conc H2SO4 3110100
Conc H2SO4 (mL): 5.0

5% KMnO4 IR12092601
5% KMnO4 (mL): 15.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HNO3 1112040
Conc HNO3 (mL): 2.5

5% K2S2O8 IR12091502
5% K2S2O8 (mL): 8.0

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 10/02/2012 18:30
Digestion End Time 1: 10/02/2012 20:30

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 88

Therm ID1: MT-47
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	pH <2	HOT BLOCK
S0			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
S0.2			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
40 uL II120929A																			
S1.0			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
200 uL II120929A																			
S2.0			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
400 uL II120929A																			
S5.0			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
1000 uL II120929A																			
S10.0			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
2000 uL II120929A																			
ICV			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
ICB			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
CCV			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
1000 uL II120926B																			
CCB			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
MB-68486			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
LCS-68486			100	100	--	--	--	--					10/02/12	CJA	HgLab	2	☐	☐	HB-A
1000 uL II120926C																			
MB-68485			100	100	--	--	--	--					10/02/12	CJA	HgLab		☐	☐	HB-A
TCLP MB																			
L1945-01D	WETWELL	A	100	100	--	--	--	--			10/03/12	01	10/02/12	CJA	HgLab		☐	☐	HB-A
L1949-01A	SW 1	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-A
TAL																			
L1949-02A	SW 2	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-A
TAL																			
L1949-03A	SW 3	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-A
TAL																			
L1949-03ADUP	SW 3	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
L1949-03AMS	SW 3	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
1000 uL II120926C																			

Logbook ID: 100.0128 -08/12

213

10/3/12 GA

Prep Start Date: 10/2/2012 ~~2:51:12 P~~ 6:30 P
Prep End Date: 10/2/2012 8:30:00 P HZA 10/3/12
Prep Batch ID: 68486

Prep Code: SW7470A_PR
Technician: Courtney J Anderson

Prep Type: 7470A/METHOD

Prep Factor Units: mL / mL

QC Matrix: N/A
QC Matrix Lot: N/A

Conc H2SO4 3110100
Conc H2SO4 (mL): 5.0

5% KMnO4 IR12092601
5% KMnO4 (mL): 15.0

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HNO3 1112040
Conc HNO3 (mL): 2.5

5% K2S2O8 IR12091502
5% K2S2O8 (mL): 8.0

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Reviewed: HZA 10/3/12

Digestion Start Time 1: 10/02/2012 18:30
Digestion End Time 1: 10/02/2012 20:30

Digestion Start Time 2: N/A
Digestion End Time 2: N/A

Block Temp (C): 88

Therm ID1: MT-47
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	pH <2	HOT BLOCK
L1949-04A	SW 4	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab	2	☐	☐	HB-B
TAL																			
L1949-05A	SW 5	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TAL																			
L1949-06A	SW 6	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TAL																			
L1949-07A	SW X-FD	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TAL																			
L1949-08A	SW FB	A	100	100	--	--	--	--			10/08/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TAL																			
L2069-01B	IS57-IDW-WW-08161	A	100	100	--	--	--	--			10/22/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TCLP_METALS_W ~The prep HoldTime was exceeded by 19.1 days.																			
L2041-01C	MW09-08DA-092412	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TOTAL																			
L2041-01D	MW09-08DA-092412	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
DISSOLVED																			
L2041-02C	MW09-09DA-092412	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TOTAL																			
L2041-02D	MW09-09DA-092412	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
DISSOLVED																			
L2041-03C	MW09-21S-092412	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TOTAL																			
L2041-03D	MW09-21S-092412	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
DISSOLVED																			
L2041-05B	MW09-09S-092512	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-B
TOTAL																			
L2041-05C	MW09-09S-092512	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-C
DISSOLVED																			
L2041-06B	MW09-10D-092512	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab		☐	☐	HB-C
TOTAL																			
L2041-06C	MW09-10D-092512	A	100	100	--	--	--	--			10/15/12	01	10/02/12	CJA	HgLab	2	10/2/12 CJA		HB-C

Logbook ID: 100.0128 -08/12

214

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

Prep Start Date: **10/3/2012 12:00:00**
Prep End Date: **10/3/2012 4:00:00 P** Prep Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**
Prep Batch ID: **68496** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 **1112040** Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): **1.0** Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl **4111060** Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): **2.5** Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: **10/03/2012 12:00** Digestion Start Time 2: N/A Block Temp (C): **97** Therm ID1: **MT-94**
Digestion End Time 1: **10/03/2012 16:00** Digestion End Time 2: N/A 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	pH <2	HOT BLOCK
MB-68496			50	50	--	--	--	--					10/03/12	DTC	ICPLab	2	☐	☐	HB-3
LCS-68496			50	50	--	--	--	--					10/03/12	DTC	ICPLab	2	☐	☐	HB-3
455 uL II121002A, 455 uL IP120321A, 45.5 uL IP120608A, 45.5 uL IP120608B																			
LCSD-68496			50	50	--	--	--	--					10/03/12	DTC	ICPLab	2	☐	☐	HB-3
455 uL II121002A, 455 uL IP120321A, 45.5 uL IP120608A, 45.5 uL IP120608B																			
MB-68485			50	50	--	--	--	--					10/03/12	DTC	ICPLab	2	☐	☐	HB-3
L2060-01C	KGS-T3-C1E	A	50	50	--	--	--	--			10/05/12	01	10/03/12	DTC	ICPLab	2	☐	☐	HB-3
Arsenic only																			
L2060-02C	KGS-T3-C2E	A	50	50	--	--	--	--			10/05/12	01	10/03/12	DTC	ICPLab	2	☐	☐	HB-3
Arsenic only																			
L2060-03C	KGS-T3-C3E	A	50	50	--	--	--	--			10/05/12	01	10/03/12	DTC	ICPLab	2	☐	☐	HB-3
Arsenic only																			
L2069-01B	IS57-IDW-WW-08161	A	50	50	--	--	--	--			10/22/12	01	10/03/12	DTC	ICPLab	2	☐	☐	HB-3
TCLP_METALS_W																			
L1949-05A	SW 5	A	50	50	--	--	--	--			10/08/12		10/03/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			

David T Camara 10/03/2012 RZA 10/4/12
Analyst Reviewed Date Manager Reviewed Date

Comments:

DC 10/3/12

Percent Moisture and Percent Solids Report

Lab Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
L1949-09A	SED 1	09/26/2012	89.251	10.749	Yes
L1949-10A	SED 2	09/26/2012	82.547	17.453	Yes
L1949-11A	SED 3	09/26/2012	28.517	71.483	Yes
L1949-12A	SED 4	09/26/2012	85.362	14.638	Yes
L1949-13A	SED 5	09/26/2012	20.262	79.738	Yes
L1949-14A	SED 6	09/26/2012	20.435	79.565	Yes
L1949-16A	SED X FD	09/26/2012	82.296	17.704	Yes

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1949 **Profile Name:** MULTI_SITE

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
01A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
01A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
02A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
02A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
03A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
03A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
03A	002	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
03A	002	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
03A	003	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
03A	003	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
04A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
04A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
05A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
05A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
06A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
06A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
07A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
07A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
08A	001	SW6010_W	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
08A	001	SW7470	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1949 **Profile Name:** MULTI_SITE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
09A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
09A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
09A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
09A	001	SW7471	In	David T Camara	9/25/2012 2:52:55 PM
09A	002	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	002	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	002	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	003	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	003	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
09A	003	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
10A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
10A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
10A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
10A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
10A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
10A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
10A	001	SW7471	In	David T Camara	9/25/2012 2:52:55 PM
11A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
11A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
11A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
11A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
11A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
11A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
11A	001	SW7471	In	David T Camara	9/25/2012 2:52:55 PM

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1949 **Profile Name:** MULTI_SITE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
12A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
12A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
12A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
12A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
12A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
12A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
12A	001	SW7471	In	David T Camara	9/25/2012 2:52:55 PM
13A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
13A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
13A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
13A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
13A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
13A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
13A	001	SW7471	In	David T Camara	9/25/2012 2:52:55 PM
14A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
14A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
14A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
14A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
14A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
14A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
14A	001	SW7471	In	David T Camara	9/25/2012 2:52:55 PM
15A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
15A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
15A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
15A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
15A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
15A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
15A	001	SW7471	In	Ryan Dorsey	9/25/2012 4:15:17 PM

Internal Chain of Custody

Client: AECOM_CHSNTRDG

Work Order: L1949 **Profile Name:** MULTI_SITE

MATRIX **Soil**

Samp #	Bottle	Test	Status	Received	Date
16A	001	PMoist	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
16A	001	PMoist	Out	Veronica E Brizard	9/26/2012 3:15:53 PM
16A	001	PMoist	In	Veronica E Brizard	9/26/2012 4:38:54 PM
16A	001	SW6010_S	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
16A	001	SW7471	In	LOGIN: vbrizard	9/19/2012 10:57:00 AM
16A	001	SW7471	Out	Ryan Dorsey	9/25/2012 9:11:54 AM
16A	001	SW7471	In	David T Camara	9/25/2012 2:52:55 PM

Last Page of Data Report

Report Date:
13-Sep-12 11:25

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- [x] 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

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
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

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- [x] 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

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received

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 requirments have been meet.

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

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

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	

09/13/2012 11:24

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: AECOM
100 Redschool House Rd
Suite B-1
Chestnut Ridge NY 10977

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=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11= _____

List preservative code below: 4

Notes:

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

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

State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		Analyses: TAL metals							Notes:
L1808-01	LMW-5F	~~1410~~ 8/20/2012	1410	G	GW	0	0	0	1		X							Field Filtered
-02	LMW-55F	~~1415~~ 8/20/2012	1415			0	0	0	1		X							" "
-03	LMW-6F	~~1425~~ 8/20/2012	1425			0	0	0	1		X							" "
-04	LMW-18F	8/21/2012	1155			0	0	0	1		X							" "
-05	LMW-19F	8/21/2012	1205			0	0	0	1		X							" "
-06	LMW-12F	8/21/2012	1500			0	0	0	3		X							MS/MSD also, Filtered
-07	LMW-14F	8/21/12	1525			0	0	0	1		X							Field Filtered
LMW-21F -08	~~LMW-21F~~	8/21/12	1728			0	0	0	1		X							" "
L1808-09	~~LMW-20F~~	8/21/12	1730			0	0	0	1		X							" "

☒ E-mail to Paul Kareth
EDD Format NYSDEC Equis EDD

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	8/23/12	1pm
[signature]	Subout	8/23/12	6:00
Subout	[signature]	8/24/12	800
[signature]	[signature]	8/24/12	13:47 3°C

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

5

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 Redschoolhouse 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: LIBERTY/MULTI G SITES
Location: BRENTWOOD State: NV
Sampler(s): CELESTE FOSTER/RITA PAPAGIAN

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 4

Notes:

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

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

State specific reporting standards: _____

Lab Id:	Sample Id:	Time ~~Date:~~	Date ~~Time:~~	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TAL METALS								
	LMW-10	0905	8/23/12	G	GW	0	0	0	1	X								
	LMW-16	0920				0	0	0	1	X								
	LMW-2	1115				0	0	0	1	X								
	LMW-3	1155				0	0	0	1	X								
	LMW-4	1340				0	0	0	1	X								
L1808 10	LMW-10F	0910				0	0	0	1	X								Field filtered
11	LMW-16F	0915				0	0	0	1	X								
12	LMW-2F	1120				0	0	0	1	X								
13	LMW-3F	1150				0	0	0	1	X								
L1808 14	LMW-4F	1345				0	0	0	1	X								

☒ E-mail to Paul.Kareth@aecom.com
EDD Format NYSDEC EQUIS EDD

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

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	8-24-12	12:10
[signature]	SUB-BRIDGE		
Subs from [signature] [signature]	[signature]	8/27/12	
		8/27/12	13:32

175 Metro Center Boulevard • Warwick, RI 02886-1755 • 401-732-3400 • Fax 401-732-3498 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 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 House
100 Red School Road Suite B-1
Chestnut Ridge NY 10977

Project Mgr.: Paul Kareth

Invoice To: Same as Report

P.O. No.: 60135736 RQN: 60135736

Project No.: 60135736
Site Name: DZUS/Multi Sites G
Location: West Islip State: NY
Sampler(s): Celeste Foster/Rita Papagian

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 4

Notes:

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

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

State specific reporting standards:

	Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TAL Metals	Notes
L1808	15	DMW-2F	8/22/12	1020	G	GW	0	0	0	3	X	ms/msD Field filtered
	16	DMW-52F		1030			0	0	0	1	X	" "
	17	DMW-3F		1155			0	0	0	1	X	" "
	18	DMW-9BF		1200			0	0	0	1	X	" "
	19	DMW-9F		1249			0	0	0	1	X	time 1249 " "
	20	DMW-15BF		1520			0	0	0	1	X	" "
	21	DMW-15AF		1535			0	0	0	1	X	" "
	22	DMW-23BF		1710			0	0	0	1	X	" "
	23	DMW-13BF		1725			0	0	0	1	X	" "
L1808	24	DMW-23AF		1805			0	0	0	1	X	" "

☒ E-mail to Paul.Kareth@aecom.com
EDD Format NYSDEC EQuIS EDD

Relinquished by:	Received by:	Date:	Time:
Celeste Foster	[illegible]	8-24-12	12:10
[illegible]	Sub-Fridge		
Sub fridge [illegible]	[illegible]	8/27/12	
		8/27/12	13:32

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

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: ~~LIBERTY~~ PZUS / Multi Sites 6
Location: BRENTWOOD State: NY
Sampler(s): CELESTE FOSTER / RITA PAPAGIAN

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 4

Notes:

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

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

State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TAL metals	Notes
	DMW-13A	8/22/12	1845	G	GW	0	0	0	1	X	
L1808 25	DMW-13AF	8/22/12	1850	G	GW	0	0	0	1	X	Field Filtered
	DMW-22B	8/23/12	1612			0	0	0	1	X	
26	DMW-22BF		1617			0	0	0	1	X	Field Filtered
	DMW-22A		1625			0	0	0	1	X	
27	DMW-22AF		1620			0	0	0	1	X	Field Filtered
	DMW-18		1830			0	0	0	1	X	
L1808 28	DMW-18F		1825			0	0	0	1	X	Field Filtered

☒ E-mail to Paul.kareth@aecom.com
EDD Format NYSDEC EQUIS EDD

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

Relinquished by:	Received by:	Date:	Time:
Celeste Foster	[signature]	8-24-12	12:10
[signature]	SUB-BRIDGE		
Sub-bridge [signature]	[signature]	8/27/12	
[signature]	[signature]	8/27/12	13:32

8

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

Received By: Veronica Bruzzese	Page 01 of 00
Reviewed By:	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.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
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

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
L1808-01	<2						
L1808-02	<2						
L1808-03	<2						
L1808-04	<2						
L1808-05	<2						
L1808-06	<2						
L1808-07	<2						
L1808-08	<2						
L1808-09	<2						

IR Temp Gun ID:MT-1

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
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

WO: L1808 / CID:003 221 / CWID:004 526

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

Received By:	Page 01 of 01
Reviewed By: Jodie Warner	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.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
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	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

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
L1808-10	<2						
L1808-11	<2						
L1808-12	<2						
L1808-13	<2						
L1808-14	<2						
L1808-15	<2						
L1808-16	<2						
L1808-17	<2						
L1808-18	<2						
L1808-19	<2						
L1808-20	<2						
L1808-21	<2						
L1808-22	<2						
L1808-23	<2						
L1808-24	<2						
L1808-25	<2						
L1808-26	<2						
L1808-27	<2						
L1808-28	<2						

IR Temp Gun ID:MT-1

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
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

WO: L1608 / CID:003 228 / CWID:004 537

* 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

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

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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
DMW-13AF	L1808-25
DMW-13BF	L1808-23
DMW-15AF	L1808-21
DMW-15BF	L1808-20
DMW-18F	L1808-28
DMW-22AF	L1808-27
DMW-22BF	L1808-26
DMW-23AF	L1808-24
DMW-23BF	L1808-22
DMW-2F	L1808-15
DMW-2FD	L1808-15DUP
DMW-2FS	L1808-15MS
DMW-3F	L1808-17
DMW-52F	L1808-16
DMW-9BF	L1808-18
DMW-9F	L1808-19
LMW-10F	L1808-10
LMW-12F	L1808-06
LMW-12FD	L1808-06DUP
LMW-12FS	L1808-06MS
LMW-14F	L1808-07
LMW-16F	L1808-11
LMW-18F	L1808-04
LMW-19F	L1808-05
LMW-20F	L1808-09
LMW-21F	L1808-08

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: Dawn E. Smart 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.: SL1808

SOW No.: SW846

EPA Sample No.	Lab Sample ID
LMW-2F	L1808-12
LMW-3F	L1808-13
LMW-4F	L1808-14
LMW-55F	L1808-02
LMW-5F	L1808-01
LMW-6F	L1808-03

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: Dawne C Smart Name: Dawne C. Smart

Date: 9/13/12 Title:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DMW-13AF

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: L1808-25

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	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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DMW-13BF

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: L1808-23

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	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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

LMW-5F

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: L1808-01

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	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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

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:

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 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

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 11:02		08/30/12 11:21		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.09	101.7	5.15	103.0	CV

(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 11:39		08/30/12 11:57		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.21	104.2	5.21	104.2	CV

(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 12:16		08/30/12 12:31		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.07	101.4	5.15	103.0	CV

(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 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

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 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

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 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

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 11:32		08/31/12 12:08		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Antimony				500.0	511.32	102.3	503.73	100.7	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 12:47		08/31/12 13:26		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Antimony				500.0	507.62	101.5	494.96	99.0	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.: SL1808

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-67882**

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

FIMS2_120830A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 08/30/12 10:27	C	08/30/12 10:46	C	08/30/12 11:04	C	Preparation Blank	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.: SL1808

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-67883**

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

FIMS2_120830A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/30/12 11:22	C	08/30/12 11:41	C	08/30/12 11:59	C		C	M
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): Method Blank ID:

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

FIMS2_120830A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/30/12 12:18	C	08/30/12 12:33	C		C		C	M
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.: SL1808

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-67889**

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

OPTIMA3_120830B

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	08/30/12 14:46	C	08/30/12 15:27	C	08/30/12 16:11	C		C	M
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.: SL1808

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-67911**

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

OPTIMA3_120830B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 08/30/12 16:52	C	08/30/12 17:29	C	08/30/12 18:10	C	Preparation Blank	C	M
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

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/30/12 18:52	C		C		C		C	M
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: **MB-67889**

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

OPTIMA3_120831A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/31/12 9:29	C	08/31/12 9:57	C	08/31/12 10:32	C		C	M
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: **MB-67911**

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

OPTIMA3_120831A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/31/12 11:04	C	08/31/12 11:36	C	08/31/12 12:11	C		C	M
Antimony			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): Method Blank ID:

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

OPTIMA3_120831A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	08/31/12 12:50	C	08/31/12 13:29	C		C		C	M
Antimony			9.3	U	9.3	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 Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found 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

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

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

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

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

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

6

DUPLICATES

EPA SAMPLE NO.

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

6

DUPLICATES

EPA SAMPLE NO.

DMW-2FD

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		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

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-67882**

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

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-67883**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury	4.6	4.95	107.6						

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-67889**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) 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:

Aqueous LCS Source:

LCS(D) ID:
LCS-67911

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) 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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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

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

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

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

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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:

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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

11A

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:

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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: 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.: 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:

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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:

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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:

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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:

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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: 67911

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:

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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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																									

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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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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									

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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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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									

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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																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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	
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	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	
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	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	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	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																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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	
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.0	1807		X		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	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	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	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	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	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	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	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	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	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	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	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	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																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																									

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: 08/31/2012 End Date: 08/31/2012

OPTIMA3_120831A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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																						

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: 08/31/2012 End Date: 08/31/2012

OPTIMA3_120831A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
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

==========

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 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 8/30/2012 2:08:57 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:46 AM**
Logged In Analyst (Original) : mitOptima3
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	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 **Autosampler Location: 9**
Sample ID: S1 **Date Collected: 8/30/2012 2:12:36 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:48 AM**
Logged In Analyst (Original) : mitOptima3
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	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

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 8/30/2012 2:16:22 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:49 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 8/30/2012 2:20:05 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:49 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 8/30/2012 2:23:48 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:50 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

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

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   QC value within limits for Be 313.107  Recovery = 99.43%
Co 228.616†            85467.7      2.5907 mg/L       0.06185      2.5907 mg/L       0.06185   2.39%
   QC value within limits for Co 228.616  Recovery = 103.63%
Cr 267.716†            63705.7     0.99211 mg/L      0.023604     0.99211 mg/L      0.023604   2.38%
   QC value within limits for Cr 267.716  Recovery = 99.21%
Cu 324.752†           243803.8      1.2323 mg/L       0.03065      1.2323 mg/L       0.03065   2.49%
   QC value within limits for Cu 324.752  Recovery = 98.58%
Fe 273.955†           112738.2      5.0771 mg/L       0.12340      5.0771 mg/L       0.12340   2.43%
   QC value within limits for Fe 273.955  Recovery = 101.54%
Mg 279.077†           406630.2      25.378 mg/L        0.0218      25.378 mg/L        0.0218   0.09%
   QC value within limits for Mg 279.077  Recovery = 101.51%
Mn 257.610†          1375075.8      2.5410 mg/L       0.00536      2.5410 mg/L       0.00536   0.21%
   QC value within limits for Mn 257.610  Recovery = 101.64%
Ni 231.604†            69661.6      2.5633 mg/L       0.06313      2.5633 mg/L       0.06313   2.46%
   QC value within limits for Ni 231.604  Recovery = 102.53%
Pb 220.353†             2357.0     0.50333 mg/L      0.006393     0.50333 mg/L      0.006393   1.27%
   QC value within limits for Pb 220.353  Recovery = 100.67%
Sb 206.836†              587.3     0.56158 mg/L      0.011668     0.56158 mg/L      0.011668   2.08%
   QC value greater than the upper limit for Sb 206.836  Recovery = 112.32%
Se 196.026†              221.2     0.50003 mg/L      0.007559     0.50003 mg/L      0.007559   1.51%
   QC value within limits for Se 196.026  Recovery = 100.01%
Tl 190.801†              301.6     0.47621 mg/L      0.009537     0.47621 mg/L      0.009537   2.00%
   QC value within limits for Tl 190.801  Recovery = 95.24%
V 292.402†            279449.0      2.5091 mg/L       0.05934      2.5091 mg/L       0.05934   2.36%
   QC value within limits for V 292.402  Recovery = 100.37%
Zn 206.200†            49915.8      2.5508 mg/L       0.05994      2.5508 mg/L       0.05994   2.35%
   QC value within limits for Zn 206.200  Recovery = 102.03%
Cd 226.502†            12587.7     0.24717 mg/L      0.005301     0.24717 mg/L      0.005301   2.14%
   QC value within limits for Cd 226.502  Recovery = 98.87%
Ti 334.940†           241773.2     0.50510 mg/L      0.003465     0.50510 mg/L      0.003465   0.69%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             4496.4      24.293 mg/L        0.3045      24.293 mg/L        0.3045   1.25%
   QC value within limits for Ca 227.546  Recovery = 97.17%
Na 589.592†           112659.3      25.050 mg/L        0.6589      25.050 mg/L        0.6589   2.63%
   QC value within limits for Na 589.592  Recovery = 100.20%
K 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.
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Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 8/30/2012 2:27:32 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:51 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

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

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Sequence No.: 7 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 8/30/2012 2:31:13 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:52 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

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

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Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 8/30/2012 2:34:52 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:52 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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.
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Sequence No.: 9 **Autosampler Location: 6**
Sample ID: ICSAB **Date Collected: 8/30/2012 2:38:47 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:53 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

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

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Sequence No.: 10 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 2:42:33 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:54 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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Sequence No.: 11 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 2:46:15 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:54 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 94**
Sample ID: MB-67889~PBW **Date Collected: 8/30/2012 2:49:57 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:55 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-67889~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 95**
Sample ID: LCS-67889~LCS **Date Collected: 8/30/2012 2:53:38 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:56 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 96**
Sample ID: L1807-19A~DMW-2 **Date Collected: 8/30/2012 2:57:22 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:56 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 97**
Sample ID: L1807-19ADUP~DMW-2D **Date Collected: 8/30/2012 3:01:04 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:57 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 98**
Sample ID: L1807-19AMS~DMW-2S **Date Collected: 8/30/2012 3:04:46 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:58 AM**
Logged In Analyst (Original) : mitOptima3

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

Sequence No.: 17 **Autosampler Location: 99**
Sample ID: L1807-19ASD~DMW-2 **Date Collected: 8/30/2012 3:08:33 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:58 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 100**
Sample ID: L1807-19APDS~DMW-2 **Date Collected: 8/30/2012 3:12:19 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:25:59 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19APDS~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 101**
Sample ID: L1807-20A~DMW-3 **Date Collected: 8/30/2012 3:16:03 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:00 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-20A~DMW-3

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

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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.	Sample 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%

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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.	Sample 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.
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Sequence No.: 22 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 3:27:10 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:02 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

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   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.
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Sequence No.: 23 **Autosampler Location: 103**
Sample ID: L1807-22A~DMW-9B **Date Collected: 8/30/2012 3:30:52 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:03 AM**
Logged In Analyst (Original) : mitOptima3
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	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	0.000322	-0.00014	mg/L	0.000322	226.00%
Al 308.215†	410.4	0.02014	mg/L	0.003314	0.02014	mg/L	0.003314	16.45%
As 188.979†	0.7	0.00130	mg/L	0.002410	0.00130	mg/L	0.002410	185.04%
Ba 233.527†	1724.9	0.02218	mg/L	0.000186	0.02218	mg/L	0.000186	0.84%
Be 313.107†	-9.3	0.00000	mg/L	0.000029	0.00000	mg/L	0.000029	797.22%
Co 228.616†	0.2	0.00001	mg/L	0.000016	0.00001	mg/L	0.000016	290.22%
Cr 267.716†	52.5	0.00082	mg/L	0.000294	0.00082	mg/L	0.000294	36.04%
Cu 324.752†	372.5	0.00188	mg/L	0.000529	0.00188	mg/L	0.000529	28.09%
Fe 273.955†	877.3	0.03948	mg/L	0.001032	0.03948	mg/L	0.001032	2.61%
Mg 279.077†	26854.3	1.6761	mg/L	0.03155	1.6761	mg/L	0.03155	1.88%
Mn 257.610†	4954.7	0.00914	mg/L	0.000245	0.00914	mg/L	0.000245	2.69%
Ni 231.604†	10.5	0.00038	mg/L	0.000350	0.00038	mg/L	0.000350	92.26%
Pb 220.353†	-0.4	-0.00009	mg/L	0.001368	-0.00009	mg/L	0.001368	>999.9%
Sb 206.836†	2.9	0.00271	mg/L	0.005698	0.00271	mg/L	0.005698	210.59%
Se 196.026†	1.7	0.00376	mg/L	0.005557	0.00376	mg/L	0.005557	147.80%
Tl 190.801†	2.4	0.00404	mg/L	0.002831	0.00404	mg/L	0.002831	70.01%
V 292.402†	6.3	0.00006	mg/L	0.000105	0.00006	mg/L	0.000105	180.76%
Zn 206.200†	56.4	0.00288	mg/L	0.000147	0.00288	mg/L	0.000147	5.10%
Cd 226.502†	0.9	-0.00001	mg/L	0.000175	-0.00001	mg/L	0.000175	>999.9%
Ti 334.940†	101.0	0.00034	mg/L	0.000049	0.00034	mg/L	0.000049	14.66%
Ca 227.546†	1662.5	9.3007	mg/L	0.08354	9.3007	mg/L	0.08354	0.90%
Na 589.592†	96406.4	21.436	mg/L	0.3131	21.436	mg/L	0.3131	1.46%
K 766.490†	1772.1	1.7983	mg/L	0.05664	1.7983	mg/L	0.05664	3.15%

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Sequence No.: 24 **Autosampler Location: 104**
Sample ID: L1807-23A~DMW-52 **Date Collected: 8/30/2012 3:34:35 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:03 AM**
Logged In Analyst (Original) : mitOptima3
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	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 **Autosampler Location: 105**
Sample ID: L1807-24A~DMW-15B **Date Collected: 8/30/2012 3:38:17 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:04 AM**
Logged In Analyst (Original) : mitOptima3
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	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 **Autosampler Location: 106**
Sample ID: L1807-25A~DMW-15A **Date Collected: 8/30/2012 3:42:06 PM**

Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:05 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-25A~DMW-15A

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

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Sequence No.: 27 **Autosampler Location: 107**
Sample ID: L1807-26A~DMW-23B **Date Collected: 8/30/2012 3:45:48 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:05 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-26A~DMW-23B

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

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Sequence No.: 28 **Autosampler Location: 108**
Sample ID: L1807-27A~DMW-13B **Date Collected: 8/30/2012 3:49:30 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:06 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-27A~DMW-13B

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

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Sequence No.: 29 **Autosampler Location: 109**
Sample ID: L1807-28A~DMW-23A **Date Collected: 8/30/2012 3:53:12 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:07 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-28A~DMW-23A

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

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Sequence No.: 30 **Autosampler Location: 110**
Sample ID: L1808-01A~LMW-5F **Date Collected: 8/30/2012 3:57:01 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:07 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-01A~LMW-5F

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

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Sequence No.: 31 **Autosampler Location: 111**
Sample ID: L1808-02A~LMW-55F **Date Collected: 8/30/2012 4:00:43 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:08 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-02A~LMW-55F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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 **Autosampler Location: 112**
Sample ID: L1808-03A~LMW-6F **Date Collected: 8/30/2012 4:04:25 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:09 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 4:08:07 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:09 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	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%

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   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.

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Sequence No.: 34 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 4:11:50 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:10 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 113**
Sample ID: L1808-04A~LMW-18F **Date Collected: 8/30/2012 4:15:32 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:11 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-04A~LMW-18F

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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 **Autosampler Location: 114**
Sample ID: L1808-05A~LMW-19F **Date Collected: 8/30/2012 4:19:14 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:11 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-05A~LMW-19F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 115**
Sample ID: L1808-06A~LMW-12F **Date Collected: 8/30/2012 4:22:56 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:12 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-06A~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 116**
Sample ID: L1808-06ADUP~LMW-12FD **Date Collected: 8/30/2012 4:26:39 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:13 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-06ADUP~LMW-12FD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample 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 **Autosampler Location: 117**
Sample ID: L1808-06AMS~LMW-12FS **Date Collected: 8/30/2012 4:30:21 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:13 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-06AMS~LMW-12FS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample 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 **Autosampler Location: 118**
Sample ID: L1808-06ASD~LMW-12F **Date Collected: 8/30/2012 4:34:06 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:14 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-06ASD~LMW-12F

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 119**
Sample ID: L1808-06APDS~LMW-12F **Date Collected: 8/30/2012 4:37:48 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:15 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-06APDS~LMW-12F

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 120**
Sample ID: L1808-07A~LMW-14F **Date Collected: 8/30/2012 4:41:33 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:16 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-07A~LMW-14F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 121**
Sample ID: L1808-08A~LMW-21F **Date Collected: 8/30/2012 4:45:15 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:16 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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%

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Sequence No.: 44 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 4:48:58 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:17 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.	Sample Conc.	Sample 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.
```

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Sequence No.: 45 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 4:52:41 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:18 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								
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 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 46 **Autosampler Location: 122**
Sample ID: MB-67911~PBW **Date Collected: 8/30/2012 4:56:23 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:18 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-67911~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 123**
Sample ID: LCS-67911~LCS **Date Collected: 8/30/2012 5:00:06 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:19 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-67911~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 124**
Sample ID: L1808-09A~LMW-20F **Date Collected: 8/30/2012 5:03:51 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:20 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-09A~LMW-20F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 125**
Sample ID: L1808-10A~LMW-10F **Date Collected: 8/30/2012 5:07:34 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:20 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-10A~LMW-10F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 126**
Sample ID: L1808-11A~LMW-16F **Date Collected: 8/30/2012 5:11:17 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:21 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-11A~LMW-16F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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	0.006674	0.00231	mg/L	0.006674	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 **Autosampler Location: 127**
Sample ID: L1808-12A~LMW-2F **Date Collected: 8/30/2012 5:15:00 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:22 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-12A~LMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 128**
Sample ID: L1808-13A~LMW-3F **Date Collected: 8/30/2012 5:18:43 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:22 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 129**
Sample ID: L1808-14A~LMW-4F **Date Collected: 8/30/2012 5:22:26 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:23 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

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Sequence No.: 54 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 5:26:09 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:24 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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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.
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Sequence No.: 55 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 5:29:51 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:24 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 **Autosampler Location: 130**
Sample ID: L1808-15A~DMW-2F **Date Collected: 8/30/2012 5:33:33 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:25 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 131**
Sample ID: L1808-15ADUP~DMW-2FD **Date Collected: 8/30/2012 5:37:16 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:26 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 132**
Sample ID: L1808-15AMS~DMW-2FS **Date Collected: 8/30/2012 5:40:59 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:26 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-15AMS~DMW-2FS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 133**
Sample ID: L1808-15ASD~DMW-2F **Date Collected: 8/30/2012 5:44:44 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:27 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-15ASD~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 134**
Sample ID: L1808-15APDS~DMW-2F **Date Collected: 8/30/2012 5:48:27 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:28 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-15APDS~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 135**
Sample ID: L1808-16A~DMW-52F **Date Collected: 8/30/2012 5:52:12 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:28 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-16A~DMW-52F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 136**
Sample ID: L1808-17A~DMW-3F **Date Collected: 8/30/2012 5:55:55 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:29 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 137**
Sample ID: L1808-18A~DMW-9BF **Date Collected: 8/30/2012 5:59:38 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:30 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 138**
Sample ID: L1808-19A~DMW-9F **Date Collected: 8/30/2012 6:03:21 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:30 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-19A~DMW-9F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/30/2012 6:07:04 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:31 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	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.

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Sequence No.: 66 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 6:10:47 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:32 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

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   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.
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Sequence No.: 67 **Autosampler Location: 139**
Sample ID: L1808-20A~DMW-15BF **Date Collected: 8/30/2012 6:14:29 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:33 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-20A~DMW-15BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 140**
Sample ID: L1808-21A~DMW-15AF **Date Collected: 8/30/2012 6:18:19 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:33 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-21A~DMW-15AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 141**
Sample ID: L1808-22A~DMW-23BF **Date Collected: 8/30/2012 6:22:02 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:34 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-22A~DMW-23BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 142**
Sample ID: L1808-23A~DMW-13BF **Date Collected: 8/30/2012 6:25:45 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:34 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-23A~DMW-13BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 143**
Sample ID: L1808-24A~DMW-23AF **Date Collected: 8/30/2012 6:29:28 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:35 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-24A~DMW-23AF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 144**
Sample ID: L1808-25A~DMW-13AF **Date Collected: 8/30/2012 6:33:12 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:36 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 145**
Sample ID: L1808-26A~DMW-22BF **Date Collected: 8/30/2012 6:37:02 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:36 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

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Sequence No.: 74 **Autosampler Location: 146**
Sample ID: L1808-27A~DMW-22AF **Date Collected: 8/30/2012 6:40:46 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:37 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	0.000819	-0.00045	mg/L	0.000819	183.98%
Al 308.215†	208.8	0.00476	mg/L	0.003444	0.00476	mg/L	0.003444	72.42%
As 188.979†	-2.6	-0.00225	mg/L	0.002303	-0.00225	mg/L	0.002303	102.28%
Ba 233.527†	2938.6	0.03778	mg/L	0.000909	0.03778	mg/L	0.000909	2.41%
Be 313.107†	13.0	0.00000	mg/L	0.000042	0.00000	mg/L	0.000042	922.32%
Co 228.616†	13.0	0.00033	mg/L	0.000177	0.00033	mg/L	0.000177	53.88%
Cr 267.716†	115.6	0.00171	mg/L	0.000552	0.00171	mg/L	0.000552	32.29%
Cu 324.752†	124.3	0.00088	mg/L	0.000049	0.00088	mg/L	0.000049	5.57%
Fe 273.955†	59738.5	2.6881	mg/L	0.06469	2.6881	mg/L	0.06469	2.41%
Mg 279.077†	67486.2	4.2123	mg/L	0.11575	4.2123	mg/L	0.11575	2.75%
Mn 257.610†	239757.6	0.44308	mg/L	0.006771	0.44308	mg/L	0.006771	1.53%
Ni 231.604†	14.9	0.00053	mg/L	0.000163	0.00053	mg/L	0.000163	30.64%
Pb 220.353†	-5.4	-0.00117	mg/L	0.001992	-0.00117	mg/L	0.001992	169.97%
Sb 206.836†	-5.5	-0.00594	mg/L	0.001715	-0.00594	mg/L	0.001715	28.88%
Se 196.026†	-0.3	0.00044	mg/L	0.018384	0.00044	mg/L	0.018384	>999.9%
Tl 190.801†	0.5	0.00139	mg/L	0.000989	0.00139	mg/L	0.000989	70.97%
V 292.402†	-34.1	-0.00022	mg/L	0.000597	-0.00022	mg/L	0.000597	273.46%
Zn 206.200†	310.1	0.01613	mg/L	0.000389	0.01613	mg/L	0.000389	2.41%
Cd 226.502†	12.5	-0.00003	mg/L	0.000083	-0.00003	mg/L	0.000083	277.28%
Ti 334.940†	-256.3	-0.00014	mg/L	0.000013	-0.00014	mg/L	0.000013	9.43%
Ca 227.546†	5049.5	28.228	mg/L	0.8033	28.228	mg/L	0.8033	2.85%
Na 589.592†	274238.6	60.976	mg/L	0.7694	60.976	mg/L	0.7694	1.26%
K 766.490†	2998.6	3.0430	mg/L	0.10811	3.0430	mg/L	0.10811	3.55%

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Sequence No.: 75 **Autosampler Location: 147**
Sample ID: L1808-28A~DMW-18F **Date Collected: 8/30/2012 6:44:36 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:38 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-28A~DMW-18F

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

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Sequence No.: 77 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/30/2012 6:52:02 PM**
Analyst: **Data Type: Reprocessed on 8/31/2012 8:26:39 AM**
Logged In Analyst (Original) : mitOptima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

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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 077N3102302Autosampler 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

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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: **Initial Sample Vol:**
Dilution: **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

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 8/31/2012 9:00:55 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 8/31/2012 9:04:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 8/31/2012 9:07:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 8/31/2012 9:11:28 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 89.46%								

All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 5**
Sample ID: ICSA **Date Collected: 8/31/2012 9:14:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 077N3102302Autosampler 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.	Calib. Units	Std.Dev.	Conc.	Sample 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.	Calib. Units	Std.Dev.	Conc.	Sample 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.
```

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 9:25:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 9:29:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 94**
Sample ID: MB-67889~PBW **Date Collected: 8/31/2012 9:32:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-67889~PBW

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 95**
Sample ID: LCS-67889~LCS **Date Collected: 8/31/2012 9:36:02 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-67889~LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 96**
Sample ID: L1807-19A~DMW-2 **Date Collected: 8/31/2012 9:39:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19A~DMW-2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 97**
Sample ID: L1807-19ADUP~DMW-2D **Date Collected: 8/31/2012 9:43:08 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-19ADUP~DMW-2D

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 | **Autosampler Location: 98**
Sample ID: L1807-19AMS~DMW-2S | **Date Collected: 8/31/2012 9:46:39 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Mean Data: L1807-19AMS~DMW-2S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 | **Autosampler Location: 99**
Sample ID: L1807-19ASD~DMW-2 | **Date Collected: 8/31/2012 9:50:12 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Mean Data: L1807-19ASD~DMW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 | **Autosampler Location: 3**
Sample ID: CCV | **Date Collected: 8/31/2012 9:53:44 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Mean Data: CCV

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

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   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.

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Sequence No.: 12 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 9:57:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = 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 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 13 **Autosampler Location: 100**
Sample ID: L1807-19APDS~DMW-2 **Date Collected: 8/31/2012 10:00:45 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **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 **Autosampler Location: 101**
Sample ID: L1807-20A~DMW-3 **Date Collected: 8/31/2012 10:04:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 102**
Sample ID: L1807-21A~DMW-9 **Date Collected: 8/31/2012 10:07:50 AM**
Analyst: **Data Type: Original**
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	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 **Autosampler Location: 106**
Sample ID: L1807-25A~DMW-15A **Date Collected: 8/31/2012 10:21:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-25A~DMW-15A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 107**
Sample ID: L1807-26A~DMW-23B **Date Collected: 8/31/2012 10:25:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-26A~DMW-23B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Date Collected: 8/31/2012 10:29:02 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 10:32:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 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 **Autosampler Location: 108**
Sample ID: L1807-27A~DMW-13B **Date Collected: 8/31/2012 10:36:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-27A~DMW-13B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 109**
Sample ID: L1807-28A~DMW-23A **Date Collected: 8/31/2012 10:39:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1807-28A~DMW-23A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 110**
Sample ID: L1808-01A~LMW-5F **Date Collected: 8/31/2012 10:43:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

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Sequence No.: 26 **Autosampler Location: 111**
Sample ID: L1808-02A~LMW-55F **Date Collected: 8/31/2012 10:46:39 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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%

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Sequence No.: 27 **Autosampler Location: 112**
Sample ID: L1808-03A~LMW-6F **Date Collected: 8/31/2012 10:50:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 113**
Sample ID: L1808-04A~LMW-18F **Date Collected: 8/31/2012 10:53:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-04A~LMW-18F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 114**
Sample ID: L1808-05A~LMW-19F **Date Collected: 8/31/2012 10:57:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-05A~LMW-19F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 11:00:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

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

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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.
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Sequence No.: 31 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 11:04:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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.

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Sequence No.: 32 **Autosampler Location: 115**
Sample ID: L1808-06A~LMW-12F **Date Collected: 8/31/2012 11:07:52 AM**
Analyst: **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 116**
Sample ID: L1808-06ADUP~LMW-12FD **Date Collected: 8/31/2012 11:11:24 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 117**
Sample ID: L1808-06AMS~LMW-12FS **Date Collected: 8/31/2012 11:14:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 118**
Sample ID: L1808-06ASD~LMW-12F **Date Collected: 8/31/2012 11:18:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-06ASD~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 119**
Sample ID: L1808-06APDS~LMW-12F **Date Collected: 8/31/2012 11:22:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-06APDS~LMW-12F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 120**
Sample ID: L1808-07A~LMW-14F **Date Collected: 8/31/2012 11:25:34 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-07A~LMW-14F

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

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%

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Sequence No.: 38 **Autosampler Location: 121**
Sample ID: L1808-08A~LMW-21F **Date Collected: 8/31/2012 11:29:06 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-08A~LMW-21F

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

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Sequence No.: 39 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 11:32:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample 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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 11:36:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample 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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

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 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 41 **Autosampler Location: 122**
Sample ID: MB-67911~PBW **Date Collected: 8/31/2012 11:39:40 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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 **Autosampler Location: 123**
Sample ID: LCS-67911~LCS **Date Collected: 8/31/2012 11:43:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 124**
Sample ID: L1808-09A~LMW-20F **Date Collected: 8/31/2012 11:46:48 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 125**
Sample ID: L1808-10A~LMW-10F **Date Collected: 8/31/2012 11:50:21 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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%

Sequence No.: 45 **Autosampler Location: 126**
Sample ID: L1808-11A~LMW-16F **Date Collected: 8/31/2012 11:53:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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%

Sequence No.: 46 **Autosampler Location: 127**
Sample ID: L1808-12A~LMW-2F **Date Collected: 8/31/2012 11:57:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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%

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Sequence No.: 47 **Autosampler Location: 128**
Sample ID: L1808-13A~LMW-3F **Date Collected: 8/31/2012 12:00:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-13A~LMW-3F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
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	0.002257	10.95%
Co 228.616†	20.6	0.00061	mg/L	0.000103	0.00061	mg/L	0.000103	16.86%
Cr 267.716†	6563.7	0.09908	mg/L	0.001427	0.09908	mg/L	0.001427	1.44%
Cu 324.752†	1393.6	0.00668	mg/L	0.000507	0.00668	mg/L	0.000507	7.59%
Fe 273.955†	983.2	0.04346	mg/L	0.002247	0.04346	mg/L	0.002247	5.17%
Mg 279.077†	81903.2	5.0143	mg/L	0.05812	5.0143	mg/L	0.05812	1.16%
Mn 257.610†	2369.1	0.00430	mg/L	0.000070	0.00430	mg/L	0.000070	1.62%
Ni 231.604†	95.3	0.00342	mg/L	0.000259	0.00342	mg/L	0.000259	7.58%
Sb 206.836†	4.4	0.00175	mg/L	0.003675	0.00175	mg/L	0.003675	210.41%
Tl 190.801†	1.1	0.00179	mg/L	0.003753	0.00179	mg/L	0.003753	210.15%
V 292.402†	37.3	0.00055	mg/L	0.000410	0.00055	mg/L	0.000410	74.76%
Ti 334.940†	362.0	0.00106	mg/L	0.000144	0.00106	mg/L	0.000144	13.62%
Ca 227.546†	5150.7	28.057	mg/L	0.1985	28.057	mg/L	0.1985	0.71%

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Sequence No.: 48 **Autosampler Location: 129**
Sample ID: L1808-14A~LMW-4F **Date Collected: 8/31/2012 12:04:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-14A~LMW-4F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
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	0.024271	2.53%
Co 228.616†	38.6	0.00105	mg/L	0.000244	0.00105	mg/L	0.000244	23.24%
Cr 267.716†	3673.1	0.05544	mg/L	0.001294	0.05544	mg/L	0.001294	2.33%
Cu 324.752†	11689.8	0.05610	mg/L	0.001485	0.05610	mg/L	0.001485	2.65%
Fe 273.955†	23644.3	1.0451	mg/L	0.02942	1.0451	mg/L	0.02942	2.82%
Mg 279.077†	44791.3	2.7422	mg/L	0.06286	2.7422	mg/L	0.06286	2.29%
Mn 257.610†	7571.0	0.01386	mg/L	0.000430	0.01386	mg/L	0.000430	3.10%
Ni 231.604†	417.6	0.01504	mg/L	0.000120	0.01504	mg/L	0.000120	0.80%
Sb 206.836†	6.4	0.00452	mg/L	0.002358	0.00452	mg/L	0.002358	52.14%
Tl 190.801†	-0.6	-0.00080	mg/L	0.004108	-0.00080	mg/L	0.004108	516.58%
V 292.402†	388.2	0.00347	mg/L	0.000475	0.00347	mg/L	0.000475	13.70%
Ti 334.940†	17922.7	0.03456	mg/L	0.000664	0.03456	mg/L	0.000664	1.92%
Ca 227.546†	3477.8	18.936	mg/L	0.3666	18.936	mg/L	0.3666	1.94%

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Sequence No.: 49 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 12:08:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
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	0.25736	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.
```

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Sequence No.: 50 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 12:11:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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                    Mean Corrected          Calib.                          Sample
Analyte                Intensity      Conc. Units      Std.Dev.      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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
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  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 51 **Autosampler Location: 130**
Sample ID: L1808-15A~DMW-2F **Date Collected: 8/31/2012 12:15:03 PM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 131**
Sample ID: L1808-15ADUP~DMW-2FD **Date Collected: 8/31/2012 12:18:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 132**
Sample ID: L1808-15AMS~DMW-2FS **Date Collected: 8/31/2012 12:22:08 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 133**
Sample ID: L1808-15ASD~DMW-2F **Date Collected: 8/31/2012 12:25:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-15ASD~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 134**
Sample ID: L1808-15APDS~DMW-2F **Date Collected: 8/31/2012 12:29:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-15APDS~DMW-2F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 135**
Sample ID: L1808-16A~DMW-52F **Date Collected: 8/31/2012 12:32:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-16A~DMW-52F

Analyte	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%

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Sequence No.: 57 **Autosampler Location: 136**
Sample ID: L1808-17A~DMW-3F **Date Collected: 8/31/2012 12:36:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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%

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Sequence No.: 58 **Autosampler Location: 137**
Sample ID: L1808-18A~DMW-9BF **Date Collected: 8/31/2012 12:39:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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	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 **Autosampler Location: 138**
Sample ID: L1808-19A~DMW-9F **Date Collected: 8/31/2012 12:43:28 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-19A~DMW-9F

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 12:47:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 12:50:32 PM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

Sequence No.: 62 **Autosampler Location: 139**
Sample ID: L1808-20A~DMW-15BF **Date Collected: 8/31/2012 12:54:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-20A~DMW-15BF

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 140**
Sample ID: L1808-21A~DMW-15AF **Date Collected: 8/31/2012 12:57:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-21A~DMW-15AF

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 141**
Sample ID: L1808-22A~DMW-23BF **Date Collected: 8/31/2012 1:01:08 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-22A~DMW-23BF

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 142**
Sample ID: L1808-23A~DMW-13BF **Date Collected: 8/31/2012 1:04:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: L1808-23A~DMW-13BF

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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 **Autosampler Location: 143**
Sample ID: L1808-24A~DMW-23AF **Date Collected: 8/31/2012 1:08:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 144**
Sample ID: L1808-25A~DMW-13AF **Date Collected: 8/31/2012 1:11:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 145**
Sample ID: L1808-26A~DMW-22BF **Date Collected: 8/31/2012 1:15:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 146**
Sample ID: L1808-27A~DMW-22AF **Date Collected: 8/31/2012 1:18:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 147**
Sample ID: L1808-28A~DMW-18F **Date Collected: 8/31/2012 1:22:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **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 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 8/31/2012 1:26:00 PM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 8/31/2012 1:29:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

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

Logged In Analyst: mitFIMS2 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-90**

Sample 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

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 8/30/2012 9:57:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 2**
Sample ID: S0.20 **Date Collected: 8/30/2012 9:59:34 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 3**
Sample ID: S1.0 **Date Collected: 8/30/2012 10:01:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 4**
Sample ID: S2.0 **Date Collected: 8/30/2012 10:02:53 AM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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	StndConc ug/L	BlnkCorr 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				

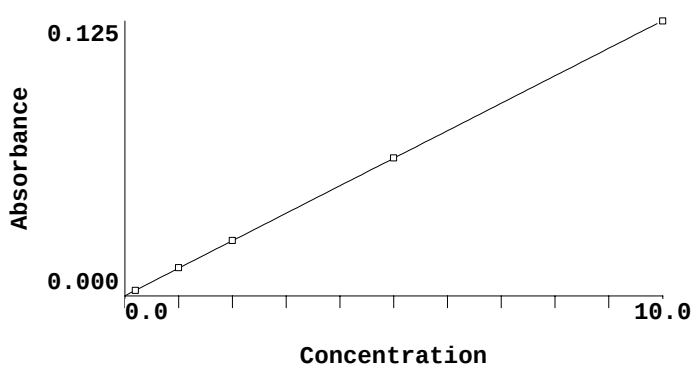
Standard number 4 applied. [5]
Correlation Coef.: 0.999987 Slope: 0.01258 Intercept: 0.00000

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	StndConc ug/L	BlnkCorr 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



ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	18.6
S0.20	0.0024	0.2	0.188	0.00	1.8
S1.0	0.0127	1.0	1.015	0.00	1.4
S2.0	0.0252	2.0	2.009	0.00	0.8
S5.0	0.0629	5.0	5.006	0.00	1.4
S10.0	0.1255	10.0	9.994	0.00	1.0

Correlation Coef.: 0.999996 Slope: 0.01256 Intercept: 0.00000

==========

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 8/30/2012 10:07:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.009	5.009	0.0629	0.3403	0.0634	10:08:49	Yes
2	5.013	5.013	0.0629	0.3343	0.0634	10:09:29	Yes
Mean:	5.011	5.011	0.0629				
SD:	0.003	0.003	0.0000				
%RSD:	0.056	0.056	0.06				

QC value within limits for Hg 253.7 Recovery = 100.23%
All analyte(s) passed QC.

==========

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 8/30/2012 10:09:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0004	0.0070	0.0009	10:10:31	Yes
2	-0.001	-0.001	-0.0000	0.0018	0.0005	10:11:11	Yes
Mean:	0.016	0.016	0.0002				
SD:	0.024	0.024	0.0003				
%RSD:	151.4	151.4	151.42				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 9 **Autosampler Location: 17**
Sample ID: MB-67881~PBW **Date Collected: 8/30/2012 10:11:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-67881~PBW

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0003	-0.0000	0.0002	10:12:11	Yes
2	-0.027	-0.027	-0.0003	-0.0002	0.0002	10:12:50	Yes
Mean:	-0.026	-0.026	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.570	1.570	1.57				

==========

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	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 19**
Sample ID: L1807-01A~LMW-5 **Date Collected: 8/30/2012 10:14:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-01A~LMW-5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 20**
Sample ID: L1807-01ADUP~LMW-5D **Date Collected: 8/30/2012 10:16:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-01ADUP~LMW-5D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 21**
Sample ID: L1807-01AMS~LMW-5S **Date Collected: 8/30/2012 10:17:50 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-01AMS~LMW-5S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 22**
Sample ID: L1807-02A~LMW-55 **Date Collected: 8/30/2012 10:19:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-02A~LMW-55

Repl #	SampleConc ug/L	StndConc 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 **Autosampler Location: 23**
Sample ID: L1807-03A~LMW-6 **Date Collected: 8/30/2012 10:21:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-03A~LMW-6

Repl #	SampleConc ug/L	StndConc 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 **Autosampler Location: 24**
Sample ID: L1807-04A~LMW-18 **Date Collected: 8/30/2012 10:22:48 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-04A~LMW-18

Repl #	SampleConc ug/L	StndConc 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 **Autosampler Location: 25**
Sample ID: L1807-05A~LMW-19 **Date Collected: 8/30/2012 10:24:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-05A~LMW-19

Repl #	SampleConc ug/L	StndConc 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 10:26:06 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 10:27:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 26**
Sample ID: L1807-06A~LMW-12 **Date Collected: 8/30/2012 10:29:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-06A~LMW-12

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 27**
Sample ID: L1807-07A~LMW-14 **Date Collected: 8/30/2012 10:31:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-07A~LMW-14

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 28**
Sample ID: L1807-08A~LMW-21 **Date Collected: 8/30/2012 10:32:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-08A~LMW-21

Repl	SampleConc	StndConc	BlnkCorr	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 **Autosampler Location: 29**
Sample ID: L1807-09A~LMW-20 **Date Collected: 8/30/2012 10:34:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-09A~LMW-20

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 30**
Sample ID: L1807-10A~LMW-10 **Date Collected: 8/30/2012 10:36:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-10A~LMW-10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 31**
Sample ID: L1807-11A~LMW-16 **Date Collected: 8/30/2012 10:37:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-11A~LMW-16

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 32**
Sample ID: L1807-12A~LMW-2 **Date Collected: 8/30/2012 10:39:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-12A~LMW-2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 33**
Sample ID: L1807-13A~LMW-3 **Date Collected: 8/30/2012 10:41:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-13A~LMW-3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 34**
Sample ID: L1807-14A~LMW-4 **Date Collected: 8/30/2012 10:42:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-14A~LMW-4

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 10:44:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 10:46:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 35**
Sample ID: L1807-15A~DMW-13A **Date Collected: 8/30/2012 10:47:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-15A~DMW-13A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 36**
Sample ID: L1807-16A~DMW-22B **Date Collected: 8/30/2012 10:49:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-16A~DMW-22B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 37**
Sample ID: L1807-17A~DMW-22A **Date Collected: 8/30/2012 10:51:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-17A~DMW-22A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 38**
Sample ID: L1807-18A~DMW-18 **Date Collected: 8/30/2012 10:52:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-18A~DMW-18

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 39**
Sample ID: L1807-19A~DMW-2 **Date Collected: 8/30/2012 10:54:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-19A~DMW-2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 40**
Sample ID: L1807-19ADUP~DMW-2D **Date Collected: 8/30/2012 10:56:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-19ADUP~DMW-2D

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 41**
Sample ID: L1807-19AMS~DMW-2S **Date Collected: 8/30/2012 10:57:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-19AMS~DMW-2S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 42**
Sample ID: L1807-20A~DMW-3 **Date Collected: 8/30/2012 10:59:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-20A~DMW-3

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 43**
Sample ID: MB-67882~PBW **Date Collected: 8/30/2012 11:01:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: MB-67882~PBW

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 11:02:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 11:04:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 44**
Sample ID: LCS-67882~LCS **Date Collected: 8/30/2012 11:06:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-67882~LCS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 45**
Sample ID: L1807-21A~DMW-9 **Date Collected: 8/30/2012 11:07:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-21A~DMW-9

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 46**
Sample ID: L1807-22A~DMW-9B **Date Collected: 8/30/2012 11:09:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-22A~DMW-9B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 47**
Sample ID: L1807-23A~DMW-52 **Date Collected: 8/30/2012 11:11:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-23A~DMW-52

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 48**
Sample ID: L1807-24A~DMW-15B **Date Collected: 8/30/2012 11:12:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-24A~DMW-15B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 49**
Sample ID: L1807-25A~DMW-15A **Date Collected: 8/30/2012 11:14:34 AM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-25A~DMW-15A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 50**
Sample ID: L1807-26A~DMW-23B **Date Collected: 8/30/2012 11:16:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-26A~DMW-23B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 51**
Sample ID: L1807-27A~DMW-13B **Date Collected: 8/30/2012 11:17:52 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-27A~DMW-13B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 52**
Sample ID: L1807-28A~DMW-23A **Date Collected: 8/30/2012 11:19:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1807-28A~DMW-23A

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 11:21:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 11:22:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 53**
Sample ID: L1808-01A~LMW-5F **Date Collected: 8/30/2012 11:24:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-01A~LMW-5F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 54**
Sample ID: L1808-02A~LMW-55F **Date Collected: 8/30/2012 11:26:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-02A~LMW-55F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 55**
Sample ID: L1808-03A~LMW-6F **Date Collected: 8/30/2012 11:27:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: L1808-03A~LMW-6F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 56**
Sample ID: L1808-04A~LMW-18F **Date Collected: 8/30/2012 11:29:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-04A~LMW-18F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 57**
Sample ID: L1808-05A~LMW-19F **Date Collected: 8/30/2012 11:31:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-05A~LMW-19F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 58**
Sample ID: L1808-06A~LMW-12F **Date Collected: 8/30/2012 11:32:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-06A~LMW-12F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 59**
Sample ID: L1808-06ADUP~LMW-12FD **Date Collected: 8/30/2012 11:34:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-06ADUP~LMW-12FD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 60**
Sample ID: L1808-06AMS~LMW-12FS **Date Collected: 8/30/2012 11:36:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-06AMS~LMW-12FS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 61**
Sample ID: L1808-07A~LMW-14F **Date Collected: 8/30/2012 11:37:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-07A~LMW-14F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 11:39:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 11:41:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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	StndConc ug/L	BlnkCorr 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	StndConc ug/L	BlnkCorr 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	StndConc ug/L	BlnkCorr 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	StndConc	BlnkCorr	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 **Autosampler Location: 66**
Sample ID: LCS-67883~LCS **Date Collected: 8/30/2012 11:49:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LCS-67883~LCS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 67**
Sample ID: L1808-11A~LMW-16F **Date Collected: 8/30/2012 11:51:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-11A~LMW-16F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 68**
Sample ID: L1808-12A~LMW-2F **Date Collected: 8/30/2012 11:52:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-12A~LMW-2F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 69**
Sample ID: L1808-13A~LMW-3F **Date Collected: 8/30/2012 11:54:36 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-13A~LMW-3F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 70**
Sample ID: L1808-14A~LMW-4F **Date Collected: 8/30/2012 11:56:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-14A~LMW-4F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 11:57:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 11:59:36 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 71**
Sample ID: L1808-15A~DMW-2F **Date Collected: 8/30/2012 12:01:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-15A~DMW-2F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 72**
Sample ID: L1808-15ADUP~DMW-2FD **Date Collected: 8/30/2012 12:03:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-15ADUP~DMW-2FD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 73**
Sample ID: L1808-15AMS~DMW-2FS **Date Collected: 8/30/2012 12:04:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-15AMS~DMW-2FS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 74**
Sample ID: L1808-16A~DMW-52F **Date Collected: 8/30/2012 12:06:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-16A~DMW-52F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 75**
Sample ID: L1808-17A~DMW-3F **Date Collected: 8/30/2012 12:07:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-17A~DMW-3F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 76**
Sample ID: L1808-18A~DMW-9BF **Date Collected: 8/30/2012 12:09:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-18A~DMW-9BF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 77**
Sample ID: L1808-19A~DMW-9F **Date Collected: 8/30/2012 12:11:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-19A~DMW-9F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 78**
Sample ID: L1808-20A~DMW-15BF **Date Collected: 8/30/2012 12:12:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-20A~DMW-15BF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 79**
Sample ID: L1808-21A~DMW-15AF **Date Collected: 8/30/2012 12:14:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-21A~DMW-15AF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 12:16:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 12:18:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 80**
Sample ID: L1808-22A~DMW-23BF **Date Collected: 8/30/2012 12:19:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-22A~DMW-23BF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 81**
Sample ID: L1808-23A~DMW-13BF **Date Collected: 8/30/2012 12:21:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-23A~DMW-13BF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak 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 **Autosampler Location: 82**
Sample ID: L1808-24A~DMW-23AF **Date Collected: 8/30/2012 12:23:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-24A~DMW-23AF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 83**
Sample ID: L1808-25A~DMW-13AF **Date Collected: 8/30/2012 12:24:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-25A~DMW-13AF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 84**
Sample ID: L1808-26A~DMW-22BF **Date Collected: 8/30/2012 12:26:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-26A~DMW-22BF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 85**
Sample ID: L1808-27A~DMW-22AF **Date Collected: 8/30/2012 12:28:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-27A~DMW-22AF

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 86**
Sample ID: L1808-28A~DMW-18F **Date Collected: 8/30/2012 12:29:42 PM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: L1808-28A~DMW-18F

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 8/30/2012 12:31:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/30/2012 12:33:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr 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**
Technician: **Jill L Cartwright**

Prep Type: **7470A/METHOD**

Prep Factor Units: **mL / mL**

QC Matrix: N/A
QC Matrix Lot: N/A

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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		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	pH <2	HOT BLOCK
S0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
S0.2			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
40 uL II120827C																			
S1.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
200 uL II120827C																			
S2.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
400 uL II120827C																			
S5.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120827C																			
S10.0			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
2000 uL II120827C																			
ICV			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828A																			
ICB			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
CCV			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828A																			
CCB			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
MB-67881			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
LCS-67881			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828B																			
L1807-01A	LMW-5	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1807-01ADUP	LMW-5	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
L1807-01AMS	LMW-5	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828B																			
L1807-02A	LMW-55	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-03A	LMW-6	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1807-04A	LMW-18	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			

Logbook ID: 100.0128 -08/12

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8/29/12 JLC

Prep Start Date: **8/29/2012 12:00:00**
Prep End Date:
Prep Batch ID: **67882**

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

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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		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	pH <2	HOT BLOCK
MB-67882			100	100	--	--	--	--								2	☐	☐	HB-C
LCS-67882			100	100	--	--	--	--								2	☐	☐	HB-C
1000 uL II120828B																			
L1807-21A	DMW-9	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-22A	DMW-9B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-23A	DMW-52	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-24A	DMW-15B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-25A	DMW-15A	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-26A	DMW-23B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-27A	DMW-13B	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-C
TAL																			
L1807-28A	DMW-23A	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-01A	LMW-5F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-02A	LMW-55F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-03A	LMW-6F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-04A	LMW-18F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-05A	LMW-19F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-06A	LMW-12F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-06ADUP	LMW-12F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J

Logbook ID: 100.0128 -08/12

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8/29/12 JLC

Wednesday, August 29, 2012 16:45

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

PREP BATCH REPORT

Prep Start Date: **8/29/2012 12:00:00**
Prep End Date:
Prep Batch ID: **67882**

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

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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		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	pH <2	HOT BLOCK
L1808-06AMS	LMW-12F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
1000 uL II120828B																			
L1808-07A	LMW-14F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-08A	LMW-21F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-09A	LMW-20F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			
L1808-10A	LMW-10F	A	100	100	--	--	--	--			09/13/12	01				2	☐	☐	HB-J
TAL																			

JLC — Analyst Reviewed
8/30/12 — Date
HZA — Manager Reviewed
8/30/12 — Date

Comments:

8/29/12 JLC

Logbook ID: 100.0128 -08/12

213

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
QC Matrix Lot: N/A

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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**

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	pH <2	HOT BLOCK
MB-67883			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
LCS-67883			100	100	--	--	--	--					08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828B																			
L1808-11A	LMW-16F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-12A	LMW-2F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-13A	LMW-3F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-14A	LMW-4F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-15A	DMW-2F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-15ADUP	DMW-2F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
L1808-15AMS	DMW-2F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
1000 uL II120828B																			
L1808-16A	DMW-52F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-17A	DMW-3F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-18A	DMW-9BF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-19A	DMW-9F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-20A	DMW-15BF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-21A	DMW-15AF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-A
TAL																			
L1808-22A	DMW-23BF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1808-23A	DMW-13BF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			

Logbook ID: 100.0128 -08/12

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8/29/12 JC

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
QC Matrix Lot: N/A

Conc H2SO4 **3110100**
Conc H2SO4 (mL): **5.0**

5% KMnO4 **IR12082808**
5% KMnO4 (mL): **15.0**

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**

5% K2S2O8 **IR12082809**
5% K2S2O8 (mL): **8.0**

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**

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	pH <2	HOT BLOCK
L1808-24A	DMW-23AF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1808-25A	DMW-13AF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1808-26A	DMW-22BF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1808-27A	DMW-22AF	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			
L1808-28A	DMW-18F	A	100	100	--	--	--	--			09/13/12	01	08/29/12	JLC		2	☐	☐	HB-2
TAL																			

Jill L Cartwright — 08/29/2012
Analyst Reviewed — Date

HZA — 8/30/12
Manager Reviewed — Date

Comments:

8/29/12 JLC

Logbook ID: 100.0128 -08/12

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Prep Start Date: **8/29/2012 11:40:00**

Prep End Date: **8/29/2012 3:40:00 P** Prep Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**

Prep Batch ID: **67889** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 1112012 Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): 1.0 Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl 4111111 Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 2.5 Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:40 Digestion Start Time 2: N/A Block Temp (C): 97 Therm ID1: MT-94
Digestion End Time 1: 08/29/2012 15:40 Digestion End Time 2: N/A 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	pH <2	HOT BLOCK
MB-67889			50	50	--	--	--	--					08/29/12	DTC	ICPLab	2	☐	☐	HB-3
LCS-67889			50	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	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-19ADUP	DMW-2	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
L1807-19AMS	DMW-2	A	50	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	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-21A	DMW-9	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-22A	DMW-9B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-23A	DMW-52	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-24A	DMW-15B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-25A	DMW-15A	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-26A	DMW-23B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-27A	DMW-13B	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1807-28A	DMW-23A	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-01A	LMW-5F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-02A	LMW-55F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-03A	LMW-6F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			

1DC 8/29/12

Wednesday, August 29, 2012 13:26

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 Code: **ICP_W_PR** Prep Type: **3005A/SW3005A** Prep Factor Units: **mL / mL**
Prep Batch ID: **67889** Technician: **David T Camara**

QC Matrix: N/A Conc HNO3 1112012 Reagent 3 Lot: N/A Reagent 5 Lot: N/A
QC Matrix Lot: N/A Conc HNO3 (mL): 1.0 Reagent 3 (mL): N/A Reagent 5 (mL): N/A

Filter?: N/A Conc HCl 4111111 Reagent 4 Lot: N/A Reagent 6 Lot: N/A
Filter Lot: N/A Conc HCl (mL): 2.5 Reagent 4 (mL): N/A Reagent 6 (mL): N/A

Digestion Start Time 1: 08/29/2012 11:40 Digestion Start Time 2: N/A Block Temp (C): 97 Therm ID1: MT-94
Digestion End Time 1: 08/29/2012 15:40 Digestion End Time 2: N/A 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	pH <2	HOT BLOCK
L1808-04A	LMW-18F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-05A	LMW-19F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-06A	LMW-12F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-06ADUP	LMW-12F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
L1808-06AMS	LMW-12F	A	50	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	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			
L1808-08A	LMW-21F	A	50	50	--	--	--	--			09/13/12	01	08/29/12	DTC	ICPLab	2	☐	☐	HB-3
TAL																			

David T Camara 08/29/2012 HZA 8/29/12
Analyst Reviewed Date Manager Reviewed Date

Comments:

DC 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

Conc HNO3 **1112012**
Conc HNO3 (mL): **1.0**

Reagent 3 Lot: N/A
Reagent 3 (mL): N/A

Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A

Conc HCl **4111111**
Conc HCl (mL): **2.5**

Reagent 4 Lot: N/A
Reagent 4 (mL): N/A

Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/30/2012 09:15
Digestion End Time 1: 08/30/2012 13:15

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		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	pH <2	HOT BLOCK
MB-67911			50	50	--	--	--	--					08/30/12	DTC	ICPLab	2	☐	☐	HB-K
LCS-67911			50	50	--	--	--	--					08/30/12	DTC	ICPLab	2	☐	☐	HB-K
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A																			
L1808-09A	LMW-20F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-10A	LMW-10F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-11A	LMW-16F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-12A	LMW-2F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-13A	LMW-3F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-14A	LMW-4F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-15A	DMW-2F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-15ADUP	DMW-2F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
L1808-15AMS	DMW-2F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
455 uL II120727B, 45.5 uL IP110822C, 45.5 uL IP110822D, 455 uL IP120321A																			
L1808-16A	DMW-52F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-17A	DMW-3F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-18A	DMW-9BF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-19A	DMW-9F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-20A	DMW-15BF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-21A	DMW-15AF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			

DC 8/30/12

Logbook ID 100.0125 -06/12

Thursday, August 30, 2012 13:41

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
Reagent 3 Lot: N/A
Reagent 3 (mL): N/A
Reagent 5 Lot: N/A
Reagent 5 (mL): N/A

Filter?: N/A
Filter Lot: N/A
Conc HCl 4111111
Conc HCl (mL): 2.5
Reagent 4 Lot: N/A
Reagent 4 (mL): N/A
Reagent 6 Lot: N/A
Reagent 6 (mL): N/A

Digestion Start Time 1: 08/30/2012 09:15
Digestion End Time 1: 08/30/2012 13:15
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		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	pH <2	HOT BLOCK
L1808-22A	DMW-23BF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-23A	DMW-13BF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-24A	DMW-23AF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-25A	DMW-13AF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-26A	DMW-22BF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-27A	DMW-22AF	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			
L1808-28A	DMW-18F	A	50	50	--	--	--	--			09/13/12	01	08/30/12	DTC	ICPLab	2	☐	☐	HB-K
TAL																			

David T Camara — 08/30/2012
Analyst Reviewed — Date

HZA — 8/31/12
Manager Reviewed — Date

Comments:

RC 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

Last Page of Data Report