REDACTED VERSION

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April 30, 2010

Project No.: 207-0006

Mr. Keith Casanova, Administrator
Louisiana Department of Environmental Quality
Remediation Services Division
Office of Environmental Assessment
Post Office Box 4314
Baton Rouge, Louisiana 70821-4314

Operation and Maintenance Report
First Quarter 2010
Delatte Metals Superfund Site
Ponchatoula, Tangipahoa Parish, Louisiana
Agency Interest No. 2328

Dear Mr. Casanova:

SEMS, Inc. (SEMS) is hereby submitting an original and two copies of the attached quarterly Operation and Maintenance Report for the above referenced project and reporting period. A brief site history, summary of the current monitoring events, and recommendations are included in the attached report. This report was prepared in accordance with the bid specifications associated with state solicitation number 2219038 and state purchase order number 3233226. SEMS contract to performs Operations and Maintenance is set to expire on October 1, 2010 with the last quarterly report being the 3rd Quarter 2010.

Should you have any questions or require additional information, please contact the undersigned at (504) 342-2340. **Please send any official correspondence regarding this site to Brian Sullivan at our corporate office address in Baton Rouge.**

Sincerely,
SEMS, Inc.

Jesse Hoppes, P.G.
Project Manager

Brian H. Sullivan, P.E.
Project Director

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OPERATION AND MAINTENANCE REPORT
FIRST QUARTER 2010
AGENCY INTEREST NO. 2328

PREPARED FOR

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APRIL 30, 2010

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A	FIELD DATA SHEETS & WASTE MANIFESTS
B	LABORATORY ANALYTICAL REPORT
C	HISTORICAL CONCENTRATION VS. TIME GRAPHS (PAST EIGHT QUARTERS)
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1.0 INTRODUCTION AND BACKGROUND

SEMS, Inc. (SEMS) was selected by the Louisiana Department of Environmental Quality (LDEQ) for the continued Operations and Maintenance (O&M) at the Delatte Metals Superfund Site, in Tangipahoa Parish, Ponchatoula, Louisiana in accordance with the bid specifications associated with state solicitation number 2219038 and purchase order number 3233226. The Delatte Metals Superfund Site is currently under quarterly O&M including groundwater sampling to determine if constituents of concern (COCs) remediated at the site are in a declining condition and to ensure that COCs are not migrating horizontally past the permeable reactive barrier (PRB) or vertically into lower water bearing zones. This report summarizes the site activities conducted during this quarter. A facility map depicting the well locations and site features is presented as Figure 1. A brief status and history of the site are provided below.

The physical location of the site is approximately 5.5 miles south-southeast of Hammond, Louisiana, 1.5 miles southeast of Ponchatoula, Louisiana, and adjacent to the new Delatte Recycling, LLC whose physical address is 19113 Weinberger Road, Ponchatoula, Louisiana. The site lies to the north of the Weinberger Road, in a rural area with numerous residences within a one-mile radius of the site. The latitude and longitude for the site are 30°25'16"N and 90°24'39"W, respectively. The site is bounded by Weinberger Road followed by residences to the south, drainage ditches and residence to the north and east, and Selser's Creek and a residence to the west.

According to previous reports, the 19-acre Delatte Metals Superfund Site includes the Delatte Metals, Inc. facility and the abandoned North Ponchatoula Battery Facility which performed identical lead salvage operations and generated the same type of waste. Delatte Metals, Inc. operated a lead smelter to recover additional lead materials began operation in the early 1970's as the Fuscia Battery Company, and ceased operations in 1993. The Ponchatoula Battery Company moved its operation adjacent to the Delatte and Fuscia Battery Company between 1972 and 1978.

During LDEQ and EPA investigations, discharge from the facilities showed a pH range from 0.55 to 2 standard units (s.u.). Analytical samples from on-site soil and groundwater samples

indicated the presence of heavy metals including Lead, Arsenic, and Cadmium. An observed release of Lead and Cadmium to Selser's Creek was documented by the analytical data from the sediment samples collected at three probable points of entry.

Remedial action (RA) operations began on November 18, 2002, and the implementation was completed on September 22, 2003. During the RA, the principle threat wastes were excavated, immobilized, and transported off-site for disposal. A permeable reactive barrier wall (PRB) was installed to neutralize the acidity of the shallow water-bearing zone and limit the migration of dissolved metals. A groundwater monitoring program was put in place to ensure the effectiveness of the selected remedy. Long-term groundwater monitoring of approximately 30 monitoring and water wells includes sampling to determine the groundwater pH downgradient of the PRB and metal concentrations in site groundwater. For the RA to be effective the groundwater downgradient of the PRB should be approaching pH neutrality and the metal concentrations in groundwater should demonstrate either a stable or preferably decreasing trend.

Three distinct and local water bearing zones (WBZ) were identified at the site during previous investigations. The three WBZ are located at the site from ground surface to approximately 100 feet below ground surface (ft-bgs).

- The First WBZ is generally found between 5 and 15 ft-bgs. This zone is semi-confined on its sides and is overlain by sandy/silty clay across the northern section of the site. During the Remedial Investigation (RI), a clay unit was encountered underneath this First WBZ. Currently nine monitor wells are screened in this zone. This WBZ was previously classified according to RECAP as a Class 3B aquifer.

- The Second WBZ encountered at the site generally consists of intermittent layers of gray, tan, and orange clayey silt. At various locations, this WBZ is typically encountered between 15 and 40 ft-bgs. The Second WBZ appears to be confined and relatively continuous across the site. Currently 13 monitor wells are screened in this zone. This WBZ was previously classified according to RECAP as a Class 2C aquifer.

- The Third WBZ encountered at the site consists of light brown to gray silty sand and sand. During the RI, this Third WBZ was encountered between 58 and 62 ft-bgs, extending to the maximum depth of the site borings (100 ft-bgs). The Third WBZ appears to be confined and continuous across the site. There are currently four monitor wells screened in this zone. This WBZ was previously classified according to RECAP as a Class 1B aquifer.

The monitor wells installed in these WBZs and their construction details are summarized in Table 1. Underneath the three local WBZs identified at the site are three regional aquifers: The Shallow Aquifer (also known as the Upland Terrace Aquifer), the Ponchatoula Aquifer (which is subdivided into two units: the upper and lower Ponchatoula Aquifers), and the Tchefuncte Aquifer. Five water wells are also being sampled from below the third water bearing zone and a summary of the water well characteristics is provided as Table 2.

2.0 CHRONOLOGY OF EVENTS

A chronology of events is as follows:

- October 2, 2007 – SEMS received award for O&M from LDEQ.
- October 12, 2007 – SEMS attended the Post-Award Conference with the LDEQ to discuss upcoming site activities.
- November 7, 2007 – SEMS submitted the draft Quality Assurance Project Plan (QAPP) for Delatte Metals to the LDEQ.
- November 30, 2007 – SEMS received conditional approval of the Draft QAPP including the approval to use SW-846 Method 6020B for analysis of Total and Dissolved Metals.
- December 3, 2007 – SEMS mobilized to the site cleared the brush around groundwater wells for access.
- December 6, 2007 – SEMS submitted the Final QAPP for Delatte Metals to LDEQ for approval.
- December 10 through 13, 2007 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.

- February 2008 – EPA sampled the groundwater at the site, and cut the locks off of the wells at the site at the time.
- February 28, 2008 – SEMS submitted the Fourth Quarter 2007 Operation and Maintenance Report to LDEQ for approval.
- March 19 through 21, 2008 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- March 27, 2008 – SEMS received approval of the Final QAPP and the Fourth Quarter 2007 Operation and Maintenance Report from LDEQ.
- April 30, 2008 – SEMS submitted the First Quarter 2008 Operation and Maintenance Report to LDEQ for approval.
- May 19 through 21, 2008 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- June 14, 2008 and July 11, 2008 – SEMS subcontracted Crescent Geotechnical Services, Inc. to do repair work on monitor wells.
- July 31, 2008 – SEMS submitted the Second Quarter 2008 Operation and Maintenance Report to LDEQ for approval.
- August 11, 26, and 27, 2008 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- October 16, 2008 – Three 55-gallon drums of purge water were properly disposed.
- October 20, 2008 – SEMS submitted the Third Quarter 2008 Operation and Maintenance Report to LDEQ for approval.
- November 3 through November 5, 2008 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- December 31, 2008 – SEMS submitted the Fourth Quarter 2008 Operation and Maintenance Report to LDEQ for approval.
- February 4 through February 6, 2009 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- April 24, 2009 – SEMS submitted the First Quarter 2009 Operation and Maintenance Report to LDEQ for approval.

- May 2009 – LDEQ requested SEMS to complete the Recommended Annual O&M/Remedy Evaluation Checklist. LDEQ also requested that SEMS perform sampling for 10 downgradient PRB piezometers.
- May 18, 2009 through May 21, 2009 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling. SEMS also conducted monitoring and sampling of the ten piezometers located downgradient of the PRB.
- July 31, 2009 – SEMS submitted the Second Quarter 2009 Operation and Maintenance Report to LDEQ for approval.
- August 24, 2009 through August 26, 2009 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- November 17, 2009 – SEMS submitted letter to LDEQ agreeing to sample an additional water well as requested by the LDEQ.
- November 30, 2009 – SEMS submitted the Third Quarter 2009 Operation and Maintenance Report to LDEQ for approval.
- December 9, 2009 through December 11, 2009 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- February 2, 2010 – SEMS submitted the Fourth Quarter 2009 Operation and Maintenance Report to LDEQ for approval.
- February 8, 2010 through February 11, 2010 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- April 5, 2010 through April 7, 2010 – SEMS mobilized to the site and performed quarterly monitoring and groundwater sampling.
- April 30, 2010 – SEMS submitted the First Quarter 2010 Operation and Maintenance Report to LDEQ for approval.

3.0 OPERATION AND MAINTENANCE ACTIVITIES

On February 8 through February 11, 2010 SEMS mobilized to the site and performed quarterly groundwater sampling, including the inspection of the monitor wells and the PRB. Details of activities performed at the site are summarized below.

3.1 ACCESS TO WELLS

Access to the site was still clear of brush from a recent clearing event.

3.2 MONITOR WELL INSPECTION

The monitor wells were inspected during the groundwater sampling event for damage. Table 1 includes a listing of the monitoring wells at the site, and Figure 1 shows the locations of the wells. The monitor well inspection checklist is included with the field data in Attachment A. The following deficiencies were repaired during this visit:

- Repaired lid on monitor well DW-01 and MW-A during this visit;
- Painted monitor well BC-17, BC-19, BC-25, BC-07;

The following observations were made and should be monitored or repaired during the upcoming visit:

- The branch previously over PW-04 has fallen and no damage appears to have occurred at PW-04;
- Water was over the pad for monitor well BC-07 due to heavy rains.

3.3 PERMEABLE REACTIVE BARRIER (PRB) INSPECTION

The PRB has been cleared and was inspected. The following locations surface elevations appeared to be slightly lower than the surrounding PRB:

- The southwest corner of the PRB around MW-02; and
- Near the bend of the PRB, approximately, 75 feet southeast of MW-1.

Additionally it should be noted that standing water was observed between DW-01 and DW-03 along the PRB. The PRB will continue to be inspected quarterly to determine if fill material is needed.

3.4 REVIEW OF INSTITUTIONAL CONTROLS

Inspections were made of deed files 650403, 674854, and 674853 online at the Tangipahoa website (www.tangiclerk.org) for the institutional controls limiting site reuse to an industrial scenario at the Tangipahoa Parish Clerk of Court. A review of these files showed that they are still on file with the Tangipahoa Parish Clerk of Court.

3.5 GROUNDWATER MONITORING, SAMPLING, AND ANALYTICAL PROCEDURES

During the quarterly sampling events a total of 26 monitoring wells and five (5) water wells were sampled. The water well ((b) (6) WELL) is now part of the quarterly sampling rotation, but will not be added to the figures. The (b) (6) WELL is located east of WW-04 adjoining the Brown's residence. Some of these water wells are drinking water wells located at residences.

The monitoring wells were located and opened to allow for water level equilibration. After equilibration, depth-to-water was measured to the nearest one-hundredth of a foot, with an interface probe. The interface probe was decontaminated prior to on-site work, between each well, and after fluid level measurements were completed. Fluid level measurements are summarized in Table 3.

Following gauging, the wells were purged via low flow micro purging technique with a peristaltic pump (Geopump) for the shallow wells and deeper wells using dedicated tubing. The purge rates were maintained between 0.1 and 0.5 liters per minute and are recorded on the field forms. The water quality readings were taken from the low flow cell. Groundwater samples were collected following the stabilization of at least three of the following the water parameters including temperature, pH, conductivity, turbidity, oxidation–reduction potential, and dissolved oxygen which are summarized on Table 3. The five (5) water wells were sampled after the water was allowed to flow for 20 minutes.

Groundwater samples were collected before the low flow cell and the water was placed in laboratory supplied, pre-preserved containers. Quality Assurance/Quality Control (QA/QC)

samples were also collected that included four duplicates, two matrix spikes, and two matrix spike duplicates. The groundwater and QA/QC sample containers were labeled and placed in a cooler on ice for transportation to Southern Petroleum Laboratories (SPL) in Scott, Louisiana for analysis. The samples were shipped accompanied by proper chain-of-custody documentation.

Groundwater samples were analyzed for Total Metals including arsenic, lead, manganese, nickel, and thallium via SW-846 method 6020B. Monitor wells BA-01 and DW-01 had a turbidity reading above 10 NTU during sampling and an additional sample was field filtered and analyzed for dissolved metals. Dissolved metal analytical results were used to supersede the total metals results on the figures attached and for the historical graphs. Summaries of groundwater analytical data are provided in Table 4 and are further discussed in Section 4.0. A copy of the laboratory reports and chain-of-custody documentation are included in Attachment B.

Groundwater collected at the site during low-flow sampling was contained in a 55-gallon plastic drum and stored at the site south of the "North Well" water well. The personal protective equipment, tubing, and other disposable material that contacted the groundwater at the site are stored in a 55-gallon metal drum. When applicable, copies of drum disposal manifests are included in Attachment A. Four Drums of water were disposed of during this sampling event and approximately 220 gallons of water was picked up and disposed of by FCC Environmental.

It should be noted that three additional drums are located in the drum storage area that were not generated by SEMS:

- One unlabeled 55-gallon metal drum is onsite and is empty.
- Two unlabeled 55-gallon metal drums appear to be filled with water and have a rusty lid that has holes on the top from being rusted.

4.0 ANALYTICAL DATA REVIEW

Below is a summary of SEMS review of the potentiometric and analytical data collected during the current quarter.

4.1 CURRENT MONITORING PERIOD GROUNDWATER FLOW DIRECTION

Potentiometric maps were prepared for each of the three WBZ. The First, Second, and Third WBZ potentiometric maps are presented as Figures 2A, 2B, and 2C, respectively. Potentiometric maps show that the groundwater flow direction for this quarter as described below:

First WBZ: The groundwater flow direction appears to be to the north to northwest towards the unnamed creek that flows into Selser's Creek.

Second WBZ: The groundwater flow direction appears to be to the north to northwest towards the unnamed creek that flows into Selser's Creek in the area of the PRB. In the area just north of the current Delatte Metals facility, the groundwater trends to the west towards Selser's Creek.

Third WBZ: The groundwater flow direction appears to be to east.

The current period groundwater flow directions are consistent with historic monitoring results and the directions of flow have not changed.

4.2 CURRENT PERIOD CONSTITUENT CONCENTRATION

A file review was performed and only Site Cleanup levels for pH and lead were found. The lead and pH Site Cleanup levels according to the QAPP prepared for the EPA in September 28, 2004 were 0.015 mg/L and 7.0 s.u., respectively. Since a perfect pH of 7.0 s.u. is not practically obtainable, SEMS recommends that an alternative pH be used for the acceptable pH level. The EPA acceptable range for drinking water is 6.5-8.5 s.u. and the acceptable EPA range for storm water discharge is 6.0-9.0 s.u. SEMS will evaluate the First WBZ using the 6.0-9.0 s.u. range for pH since the groundwater of this zone is classified as Groundwater Class 3B. The Second WBZ, Third WBZ, and Water Wells are classified as Groundwater Class 1 and 2 aquifers and their pH should be evaluated using the 6.5-8.5 s.u. range for pH. According to the LDEQ, the LDEQ RECAP Screening Standards (SS) should be used for comparison to the other site COCs. Below is a brief summary of all COCs exceeding the applicable site SS:

The following wells were outside their pH evaluation:

- **First WBZ**: All monitor wells in the First WBZ were below the pH range of 6.0-9.0 s.u.; with pH readings of 2.92 to 5.19 s.u.
- **Second WBZ**: Monitor wells BA-01, and BA-05 were below the pH range of 6.5-8.5 s.u. with the minimum pH reading of 6.16 in BA-01.
- **Third WBZ**: Monitor well BB-01 was above the pH range of 6.5-8.5 s.u. with a pH reading of 10.31 s.u.
- **Water Wells**: The (b) (6) Well, WW-04, North Well, and South Well were above the pH range of 6.5-8.5 s.u. with a maximum pH reading of 9.42 s.u. in the South Well.

The following wells had arsenic concentrations reported above its RECAP SS of 0.010 mg/L:

- **First WBZ**: DW-02, MW-01, BA-03, and BA-09 were above the arsenic RECAP SS; the highest arsenic concentration was reported to be 0.0915 mg/L in monitoring well DW-02. Monitor wells MW-02, MW-06, and PW-04 were all reported non-detect with detection limits above the arsenic RECAP SS.
- **Second WBZ**: BA-01 was above the arsenic RECAP SS with a concentration of 0.0172 mg/L.
- **Third WBZ**: No monitor wells sampled were reported above the arsenic RECAP SS. The highest arsenic concentration was reported to be 0.00417 mg/L in monitor well BA-01A.
- **Water Wells**: No water wells sampled were reported above the arsenic RECAP SS; all concentrations were below laboratory reporting limits.

The following wells had lead concentrations reported above the site cleanup level of 0.015 mg/L:

- **First WBZ**: DW-02, DW-03 and BA-03 were reported above the site cleanup level; the highest lead concentration was reported to be 0.220 mg/L in monitoring well DW-03.
- **Second WBZ**: BC-17 was reported above the site cleanup level for lead with a concentration of 0.0209 mg/L.

- **Third WBZ**: No monitor wells sampled were reported above the site cleanup level for lead. The highest lead concentration was reported to be 0.00591 mg/L in monitor well BB-01.
- **Water Wells**: No water wells sampled were reported above the site cleanup level for lead. The highest lead concentration was reported to be 0.00292 mg/L in the (b) (6) Well.

The following wells had manganese concentrations reported above its RECAP SS of 0.51 mg/L:

- **First WBZ**: All monitor wells in the First WBZ, excluding DW-03 were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 9.15 mg/L in monitor well DW-02.
- **Second WBZ**: BA-01, and BA-05 were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 15.4 mg/L in monitor well BA-05.
- **Third WBZ**: No monitor wells sampled were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 0.0238 mg/L in monitor well BA-03A.
- **Water Wells**: No water wells sampled were reported above the manganese RECAP SS; the highest manganese concentration was reported to be 0.0203 mg/L in the (b) (6) Well.

The following wells had nickel concentrations reported above its RECAP SS of 0.073 mg/L:

- **First WBZ**: DW-02, MW-01, MW-02, BA-03, and BA-09 were reported above the nickel RECAP SS; the highest nickel concentration was reported to be 0.388 mg/L in monitor well DW-02.
- **Second WBZ**: No monitor wells sampled were reported above its nickel RECAP SS; the highest nickel concentration was reported to be 0.0580 mg/L in monitor well BA-05.
- **Third WBZ**: No monitor wells sampled were reported above the nickel RECAP SS; the highest nickel concentration was reported to be 0.00104 mg/L in monitor well BB-01.

- **Water Wells**: No water wells sampled were reported above the nickel RECAP SS; all concentrations were below laboratory reporting limits.

The following wells had thallium concentrations reported above the RECAP SS of 0.0020 mg/L:

- **First WBZ**: No monitor wells sampled were reported above the thallium RECAP SS. All concentration were reported to be non-detect. Monitor wells DW-02, MW-01, and BA-09 were reported as non-detect with detection limits above the thallium RECAP SS.
- **Second WBZ**: No monitor wells sampled were reported above the thallium RECAP SS; the highest thallium concentration was reported to be 0.000220 mg/L in monitor well BC-07.
- **Third WBZ**: No monitor wells sampled were reported above the thallium RECAP SS; the highest thallium concentration was reported to be 0.000237 mg/L in monitor well BA-01A.
- **Water Wells**: No water wells sampled were reported above the thallium RECAP SS; all concentrations were below laboratory reporting limits.

Analytical results for this quarter are summarized in Table 4. Isoconcentration maps prepared for each WBZ and the water wells are presented as Figures 3A through 8D. Following a review of the isoconcentration maps the following constituents were found to not be horizontally delineated to their applicable site SS:

- The First WBZ – pH, arsenic, lead, manganese, and nickel
- The Second WBZ – pH, lead, and manganese
- The Third WBZ – pH
- The Water Wells – pH

SEMS sampled the PRB piezometers in the Second Quarter of 2009. The EPA has contracted the United States Geological Service (USGS) to continue with this sampling and reporting of the downgradient PRB piezometers. The USGS is submitting this data to the EPA for review.

4.3 HISTORICAL GROUNDWATER MONITORING TRENDS

A historical summary of the past eight quarters groundwater analytical and potentiometric data is presented in Table 5. Historical data trend graphs are presented in Attachment C that show pH, arsenic, lead, manganese, nickel, and thallium concentrations over time. For samples reported below laboratory detection limits, the reporting detection limit was used for graphing purposes. The historical data trend graphs were completed in Excel and a linear regression trendline was generated by Excel using the previous eight quarters of data for each COC.

Only those wells with at least two quarters of analytical data exceeding site cleanup or RECAP SS are considered in the trend evaluation below: A review of the graphs and evaluation of constituent trends provides the information below:

First WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead: Increasing: DW-03

Decreasing: BA-03

Arsenic: Increasing: DW-02 and BA-09

Decreasing: DW-01, DW-03, MW-01, and BA-03

Manganese: Increasing: DW-01

Stable: PW-04, BA-03, and BA-09

Decreasing: DW-02, DW-03, MW-01, MW-02, and MW-06

Nickel: Stable: BA-09

Decreasing: DW-03, MW-01, MW-02, DW-02 and BA-03

Thallium: No exceedances observed for any two of the previous eight quarters sampled.

pH: Below 6.0 s.u. and increasing: DW-01, DW-03, and PW-04

Below 6.0 s.u. and stable: DW-02, MW-01, MW-02, MW-06, BA-03 and BA-09

Second WBZ Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead: Decreasing: BC-17

Arsenic: Increasing: BA-01

Manganese: Increasing: BA-01 and BA-05

Stable: MW-03

Nickel and Thallium: None reported to exceed the Site Cleanup or RECAP SS during two of the previous eight quarters sampled.

pH: Below 6.5 s.u. and stable: MW-04 and BA-05

Decreasing: BA-01

Third WBZ Trends

Lead, Arsenic, Manganese, Nickel, and Thallium: No metals exceedances observed for any two of the previous eight quarters sampled.

pH: Above 8.5 s.u. and decreasing: BB-01

Water Well Trends

The following exceeding constituent concentration trends were observed in the following wells:

Lead, Arsenic, Manganese, Nickel, and Thallium: No exceedances observed for any two of the previous eight quarters sampled.

pH: Above 8.5 s.u. and increasing: South Well

Above 8.5 s.u. and decreasing: (b) (6) Well, WW-04, WW-09 and North Well

4.4 QUALITY ASSURANCE/QUALITY CONTROL AND UNUSUAL FINDINGS

A summary of QA/QC samples collected is included in the field data sheets presented in Attachment A. All QA/QC duplicate sample analytical results were reported within a factor of 10 of the original analytical sample results. Blank samples included Duplicate #1 (BC-17), Duplicate #2 (PW-04), Duplicate #3 (MW-A), and Duplicate #4 (BA-03A). All data sets were accepted. Full laboratory analytical reports are included in Attachment B. Each laboratory analytical report includes laboratory QA/QC documentation.

The analytical data was reviewed by Intergrate, Inc, a third party data validator. Intergrate, Inc. reviewed ten percent of the samples analyzed including samples BA-09, WW-09, BC-07, and MW-03. The data validation report found no major discrepancies and their report is included in

Attachment D. The Level IV analytical report is attached to this report with a compact disk (CD) in an electronic format as requested by LDEQ.

The following unusual findings were noted during this report:

- Analytical results from monitor wells MW-02, MW-06, and PW-04 were reported non-detect with detection limits above the RECAP SS for arsenic and monitor wells DW-02, MW-01, and BA-09 was reported non-detect with detection limits above the RECAP SS for thallium. The laboratory, SPL, has had difficulties with matrix interference (interference with the internal standard or standards associated with a particular metal) for some of the samples. These samples were diluted in order to reduce the interference. Some of the results were above the desired reporting limits.

- SPL has had issues with matrix spike (MS) matrix spike duplicate (MSD) samples. Following a discussion with the lab, The MS and/or MSD failures are due to sample matrix and not laboratory error. The matrix interference is confirmed by the analysis of passing post digestion spike (PDS) and post digestion spike duplicate (PDSD) samples. The lab also runs laboratory control samples (LCS) to validate each analytical batch. The MS/MSD failures and qualification using the PDS/PDSD are discussed in the narrative section of each report along with an explanation of flags.

5.0 CONCLUSIONS AND RECOMENDATIONS

The following conclusions and recommendations are based on evaluation of data presented within this groundwater monitoring report.

- The potentiometric surface levels of monitor well BA-09A have been inconsistent when compared with the groundwater elevation levels of the other wells in the second water bearing zone. The contours for monitor well BA-09A matches the contours for the third water bearing zone. Monitor well BA-09A is screened at a

depth of 23 to 33 feet (NGVD) which is comparable to BA-05A and BA-01A which are also in the third water bearing zone. SEMS recommends that this well be included in the third water bearing zone on future reports.

- Remove the three abandoned drums. It is believed that these drums are from an EPA Inspector General sampling event.
- SEMS recommends continuing with quarterly O&M.

TABLES

TABLE 1
MONITORING WELL CONSTRUCTION DATA

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Well ID	Northing	Easting	Latitude	Longitude	Well Diameter (inches)	Total Well Depth (ft bgs)	Top of Casing Elevation (NGVD)	Ground Surface Elevation (NGVD)	Sereened Interval Elevation (NGVD)	Sreeened Interval (ft bgs)
First Water-Bearing Zone										
DW-1	701226.57	3571439.3	30° 25' 30"	90° 24' 41"	2	19	13.36	12.03	3.5 to -6.5	8.5 to 18.5
DW-2	700994.96	3571554.5	30° 25' 28"	90° 24' 39"	2	11	14.12	12.65	7.2 to 2.2	5.5 to 10.5
DW-3	701096.8	3571730.9	30° 25' 29"	90° 24' 37"	2	16	11.59	10.09	4.6 to -5.4	5.5 to 15.5
MW-1	701242.6	3571218.6	30° 25' 30"	90° 24' 43"	2	28.5	15.08	13.58	0.6 to -14.4	13.0 to 28.0
MW-2	700954.99	3571119.9	30° 25' 27"	90° 24' 44"	2	10.5	14.23	11.79	6.8 to 1.8	5.0 to 10.0
MW-6	700833.83	3571351.4	30° 25' 26"	90° 24' 42"	2	16.5	16.77	15.17	NA	NA
MW-7*	701240.79	3571056.2	30° 25' 30"	90° 24' 45"	2	15	8.21	6.01	NA	NA
PW-4	701018.61	3571950.1	30° 25' 28"	90° 24' 35"	2	19.5	12.22	8.96	NA	NA
BA-03	701018.61	3571248.6	30° 25' 28"	90° 24' 43"	2	13.5	14.57	11.8	8.80 to -1.20	3.0 to 13.0
BA-09	701286.58	3571522.6	30° 25' 31"	90° 24' 40"	2	18.0	9.46	8.10	0.60 to -9.40	7.5 to 17.5
BC-31*	701305.48	3571090.6	30° 25' 31"	90° 24' 48"	2	16	11.36	8.75	3.25 to -6.75	5.5 to 15.5
Second Water-Bearing Zone										
DW-4	7000081.4	3571557.4	30° 25' 19"	90° 24' 39"	2	38	14.21	13	-14.5 to -24.5	27.5 to 37.5
MW-A	701114.99	3571481.7	30° 25' 29"	90° 24' 40"	2	27.0	15.12	12.35	-4.2 to -14.2	16.5 to 26.5
MW-3	700801.96	3571573.60	30° 25' 26"	90° 24' 39"	2	27.5	14.8	12.83	-4.2 to 14.2	17.0 to 27.0
MW-4	701248.27	357817.05	30° 25' 30"	90° 24' 36"	2	24.0	17.38	14.67	1.2 to -8.8	13.5 to 23.5
MW-5*	701508.89	3571524.3	30° 25' 33"	90° 24' 40"	2	20.0	11.43	8.89	-5.6 to -10.6	14.5 to 19.5

Notes: 1) ft bgs = Feet below ground surface
2) ID = Identification
3) NA= Not available
4) NGVD = Nationa Deodetic Vertical Datum
5) Denotes Well Plugged and Abandoned by the EPA

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MONITORING WELL CONSTRUCTION DATA

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Well ID	Northing	Easting	Latitude	Longitude	Well Diameter (inches)	Total Well Depth (ft bgs)	Top of Casing Elevation (NGVD)	Ground Surface Elevation (NGVD)	Sereened Interval Elevation (NGVD)	Sreeened Interval (ft bgs)
Second Water-Bearing Zone										
BA-01	700965.85	3571654	30° 25' 27"	90° 24' 38"	2	26.0	14.57	11.48	-4.02 to -14.02	15.5 to 25.5
BA-05	701084.30	3571574.7	30° 25' 29"	90° 24' 39"	2	18.5	14.20	11.02	3.02 to -6.98	8.0 to 18.0
BA-09A	701290.47	3571515.1	30° 25' 31"	90° 24' 40"	2	42.0	11.10	7.92	-23.58 to -33.58	31.5 to 41.5
BC-01*	699516.45	3571517.6	30° 25' 13"	90° 24' 40"	2	26.5	15.99	13.35	-2.65 to -12.65	16.0 to 26.0
BC-03	699684.61	3571900.1	30° 25' 15"	90° 24' 36"	2	28.0	16.32	13.78	-3.72 to -13.72	17.5 to 27.5
BC-07	699855.32	3571454.1	30° 25' 16"	90° 24' 41"	2	18.5	11.37	8.19	0.19 to -9.81	8.0 to 18.0
BC-11*	699967.64	3571524.00	30° 25' 18"	90° 24' 40"	2	28.5	15.72	12.53	-5.47 to -15.47	18.0 to 28.0
BC-17	700232.77	3571685.2	30° 25' 20"	90° 24' 38"	2	28.0	15.18	12.22	-5.28 to -15.28	17.5 to 27.5
BC-19	700257.08	3571479.8	30° 25' 20"	90° 24' 40"	2	22.5	13.85	10.92	-1.08 to -11.08	12.0 to 22.0
BC-21R	700499.25	3571655.5	30° 25' 23"	90° 24' 38"	2	17.5	15.28	12.62	0.62 to -4.38	12.0 to 17.0
BC-25	700599.29	3571504.10	30° 25' 24"	90° 24' 40"	2	32.0	15.73	12.66	-8.84 to -18.84	21.5 to 31.5
BC-27*	700721.57	3571738.1	30° 25' 25"	90° 24' 37"	2	28.0	15.91	13.04	-4.46 to -14.46	17.5 to 27.5
Third-Water-Bearing Zone										
BA-03A	701004.96	3571249.7	30° 25' 43"	90° 24' 43"	2	100.0	14.76	11.72	-77.78 to -87.78	89.5 to 99.5
BA-05A	701085.48	3571565.3	30° 25' 29"	90° 24' 39"	2	54.0	14.42	11.16	-24.84 to -28.34	36.0 to 39.5
BB-01	699827.30	3571572.4	30° 25' 16"	90° 24' 39"	2	96.0	15.75	12.69	-72.81 to -82.81	85.5 to 95.5
BA-01A	700957.45	3571661.4	30° 25' 27"	90° 24' 38"	2	46.0	15.03	11.61	-23.89 to -33.89	35.5 to 45.5

Notes: 1) ft bgs = Feet below ground surface
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3) NA= Not available
4) NGVD = Nationa Deodetic Vertical Datum
5) Denotes Well Plugged and Abandoned by the EPA

TABLE 2
WATER WELL CONSTRUCTION DATA
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Well ID	Address	Depth (feet)	Date Installed
WW-04*	39229 Keaghey Road Ponchatoula, LA 70454	Unknown	Unknown
WW-09*	39233 Keaghey Road Ponchatoula. LA70454	60	10/94
North Well	19119 Weinberger Road Ponchatoula. LA 70454	Unknown	Unknown
South Well	19113 Weinberger Road Ponchatoula, LA 70454	Unknown	Unknown
(b) (6) Well**	Keaghey Road Ponchatoula. LA70454	Unknown	Unknown

Notes: Water Well
*Designations for water wells WW-04 and WW-09 were obtained from the Delatte Metals Remedial Investigation Report (Tetra Tech 2000)
**Designation was named in field based on current owners name

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
FIRST WATER-BEARING ZONE									
DW-01									
May-08	13.36	10.44	2.92	20.74	1.374	0.35	4.69	21	12.4
August-08	13.36	10.58	2.78	23.91	1.88	0.26	4.89	-131	3.7
November-08	13.36	11.42	1.94	23.02	1.131	0.63	5.21	-149	6.6
February-09	13.36	11.64	1.72	19.67	1.302	0.53	4.97	-140	5.3
May-09	13.36	10.97	2.39	20.36	0.585	0.45	5.71	-121	4.6
August-09	13.36	11.70	1.66	24.78	0.537	0.34	5.60	3	6.9
December-09	13.36	9.68	3.68	19.93	1.388	1.95	5.16	6.4	15.02
February-10	13.36	8.96	4.40	16.92	0.717	2.90	5.19	213	27.8
DW-02									
May-08	14.12	4.55	9.57	24.62	8.07	0.26	2.93	51	0.0
August-08	14.12	3.84	10.28	27.92	9.00	0.37	2.97	-7	0.0
November-08	14.12	5.85	8.27	23.64	9.05	1.29	2.70	125	0.0
February-09	14.12	4.82	9.30	16.42	8.05	0.89	3.42	101	0.0
May-09	14.12	4.51	9.61	24.87	7.26	0.36	2.90	-46	0.0
August-09	14.12	6.13	7.99	30.01	7.73	0.28	3.06	103	1.4
December-09	14.12	3.90	10.22	18.34	5.72	2.16	2.90	253.8	5.56
February-10	14.12	3.84	10.28	14.70	6.84	0.26	3.20	157	3.0
DW-03									
May-08	11.59	5.43	6.16	21.26	2.05	0.15	3.59	117	0.0
August-08	11.59	5.49	6.10	24.57	0.466	0.36	3.52	-46	0.0
November-08	11.59	6.33	5.26	23.21	1.68	0.66	3.59	-48	0.0
February-09	11.59	5.59	6.00	19.91	2.43	0.15	3.77	57	0.0
May-09	11.59	5.49	6.10	21.44	1.116	0.27	3.74	-113	0.0
August-09	11.59	7.07	4.52	25.00	1.42	0.28	3.79	49	1.1
December-09	11.59	4.92	6.67	19.19	0.198	2.08	4.02	299.2	3.59
February-10	11.59	4.80	6.79	14.92	0.370	1.46	3.88	461	9.9
MW-01									
May-08	15.08	13.37	1.71	20.45	6.36	0.29	3.38	43	0.0
August-08	15.08	14.24	0.84	21.50	6.17	0.34	3.15	-31	0.0
November-08	15.08	13.84	1.24	21.72	6.28	1.10	3.60	-24	0.0
February-09	15.08	14.58	0.50	20.95	6.07	0.24	3.19	-45	0.0
May-09	15.08	13.28	1.80	19.87	6.07	0.42	3.11	-32	0.0
August-09	15.08	14.01	1.07	22.69	5.23	0.39	3.33	94	1.7
December-09	15.08	12.64	2.44	19.62	4.849	1.79	3.43	177.9	2.54
February-10	15.08	12.64	2.44	18.67	4.53	0.45	3.11	152	2.9
MW-02									
May-08	14.23	7.03	7.20	22.48	2.02	0.25	3.26	353	4.0
August-08	14.23	7.05	7.18	26.19	2.32	0.53	2.89	267	0.0
November-08	14.23	7.60	6.63	24.40	2.36	0.43	3.36	292	93.7
February-09	14.23	7.34	6.89	17.45	2.14	0.24	3.16	279	0.0
May-09	14.23	7.14	7.09	23.7	1.662	NA	3.05	221	0.01
August-09	14.23	8.37	5.86	26.33	1.78	0.33	3.04	260	1.3
December-09	14.23	6.53	7.70	17.69	1.745	2.34	3.16	353.9	2.45
February-10	14.23	6.50	7.73	15.45	1.73	0.47	2.92	388	5.5
MW-06									
May-08	16.77	7.91	8.86	19.52	0.486	0.49	3.70	269	0.8
August-08	16.77	8.49	8.28	22.25	0.802	0.30	3.52	238	0.0
November-08	16.77	9.27	7.50	21.54	0.536	0.38	3.82	238	7.4
February-09	16.77	8.43	8.34	16.61	0.651	0.45	3.70	263	5.0
May-09	16.77	8.36	8.41	20.04	0.675	0.33	3.72	135	0.0
August-09	16.77	10.41	6.36	23.66	0.499	0.31	3.89	306	5.8
December-09	16.77	6.59	10.18	17.58	0.568	2.25	3.72	401.2	4.68
February-10	16.77	6.48	10.29	15.13	0.549	0.69	3.92	376	2.1

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
FIRST WATER-BEARING ZONE (continued)									
PW-04									
May-08	12.22	4.95	7.27	20.69	1.359	0.15	3.99	37	0.0
August-08	12.22	5.41	6.81	23.06	1.189	0.32	3.72	-68	0.0
November-08	12.22	6.28	5.94	21.96	1.030	1.49	3.53	271	3.3
February-09	12.22	5.20	7.02	16.98	1.91	0.24	4.19	-21	0.0
May-09	12.22	5.08	7.14	19.97	1.87	0.31	3.83	-62	0.0
August-09	12.22	7.12	5.10	22.73	1.210	0.20	3.93	70	0.9
December-09	12.22	4.14	8.08	18.44	0.959	1.77	4.24	98.3	1.74
February-10	12.22	3.46	8.76	14.84	1.094	0.38	4.06	328	4.8
BA-03									
May-08	14.57	6.61	7.96	23.29	1.92	2.63	4.23	354	0.0
August-08	14.57	6.68	7.89	27.78	1.73	2.27	4.04	305	0.0
November-08	14.57	7.39	7.18	24.22	1.90	1.47	4.53	288	0.0
February-09	14.57	6.93	7.64	18.13	1.71	1.45	3.40	341	0.0
May-09	14.57	6.76	7.81	24.6	1.674	NA	3.98	168	0.44
August-09	14.57	8.14	6.43	27.72	2.86	0.24	3.11	467	2.3
December-09	14.57	6.33	8.24	17.03	0.364	4.05	4.63	236.2	4.11
February-10	14.57	6.05	8.52	15.10	1.76	2.24	4.52	316	5.8
BA-09									
May-08	9.46	7.36	2.10	21.38	3.09	0.27	3.52	85	0.0
August-08	9.46	9.11	0.35	23.48	3.75	0.17	3.68	-37	0.0
November-08	9.46	8.70	0.76	23.62	3.63	0.26	3.68	12	0.0
February-09	9.46	8.97	0.49	18.20	3.90	0.41	3.71	65	0.0
May-09	9.46	8.35	1.11	20.09	3.68	0.33	3.63	14	0.0
August-09	9.46	8.98	0.48	22.97	3.57	0.34	3.63	42	0.3
December-09	9.46	5.61	3.85	20.84	2.160	1.55	3.60	78.2	5.82
February-10	9.46	7.09	2.37	18.84	3.93	0.26	3.58	144	0.0
SECOND WATER-BEARING ZONE									
DW-04									
May-08	14.21	4.53	9.68	21.91	1.83	0.22	7.08	-10	0.0
August-08	14.21	4.75	9.46	22.76	2.06	0.24	7.15	-128	0.0
November-08	14.21	5.14	9.07	21.35	2.03	1.46	7.13	-110	0.0
February-09	14.21	4.42	9.79	19.11	2.05	5.71	7.90	95	0.0
May-09	14.21	4.22	9.99	21.80	2.14	0.30	7.10	-95	0.0
August-09	14.21	5.79	8.42	23.44	1.87	0.44	7.15	7	1.5
December-09	14.21	4.72	9.49	20.60	1.74	2.08	7.13	24.2	4.73
February-10	14.21	3.89	10.32	17.21	1.92	7.65	7.88	405	0.2
MW-A									
May-08	15.12	9.36	5.76	23.16	0.707	0.32	7.14	-71	1.7
August-08	15.12	9.86	5.26	23.40	0.783	0.26	7.20	-118	0.0
November-08	15.12	10.27	4.85	22.42	0.778	1.18	7.23	-135	0.0
February-09	15.12	10.64	4.48	20.87	0.789	1.82	7.35	33	0.0
May-09	15.12	9.74	5.38	20.61	0.792	0.39	7.19	-28	0.0
August-09	15.12	10.58	4.54	25.58	0.705	0.31	7.14	-27	2.1
December-09	15.12	9.52	5.60	19.22	0.695	2.97	7.07	-68.9	2.30
February-10	15.12	9.29	5.83	18.67	0.762	2.54	7.39	-4	7.4
MW-03									
May-08	14.80	5.73	9.07	20.66	1.85	0.16	6.57	34	0.0
August-08	14.80	6.18	8.62	22.33	2.05	0.28	6.63	-117	0.0
November-08	14.80	6.99	7.81	22.53	2.07	0.37	6.78	-105	0.0
February-09	14.80	6.26	8.54	18.58	2.11	0.75	6.91	171	0.0
May-09	14.80	5.39	9.41	21.26	2.14	0.27	6.71	-256	0.0
August-09	14.80	7.78	7.02	22.91	1.90	0.28	6.59	-65	2.7
December-09	14.80	6.14	8.66	20.29	1.814	4.73	6.93	15.8	5.11
February-10	14.80	4.78	10.02	16.64	2.05	1.24	6.82	378	4.3

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
SECOND WATER-BEARING ZONE (continued)									
MW-04									
May-08	17.38	13.34	4.04	10.82	0.313	2.81	6.60	87	0.0
August-08	17.38	15.16	2.22	21.46	0.342	1.40	6.37	30	0.0
November-08	17.38	14.63	2.75	20.73	0.343	1.61	6.99	-115	0.0
February-09	17.38	14.00	3.38	17.58	0.351	3.47	6.75	-67	1.5
May-09	17.38	13.54	3.84	19.29	0.352	3.23	6.40	-71	0.0
August-09	17.38	15.61	1.77	21.21	0.314	1.68	6.41	-19	4.2
December-09	17.38	13.41	3.97	20.73	0.323	3.09	6.42	-21.3	4.61
February-10	17.38	12.46	4.92	18.78	0.277	5.32	6.77	5	5.1
BA-01									
May-08	14.57	5.86	8.71	22.20	2.25	0.20	6.20	-25	4.3
August-08	14.57	6.21	8.36	23.07	2.29	0.23	6.31	-79	1.6
November-08	14.57	6.87	7.70	24.66	2.19	0.30	6.65	-127	3.2
February-09	14.57	6.55	8.02	20.73	2.47	0.47	6.69	-10	9.7
May-09	14.57	5.65	8.92	22.53	2.70	0.26	6.22	-61	127
August-09	14.57	7.46	7.11	25.30	2.10	0.26	6.27	35	13.4
December-09	14.57	6.30	8.27	22.12	2.149	2.08	6.28	-79	8.61
February-10	14.57	5.44	9.13	17.82	2.85	0.30	6.16	95	411
BA-05									
May-08	14.20	7.13	7.07	24.04	4.98	0.34	6.12	-49	73.4
August-08	14.20	7.40	6.80	24.33	5.63	3.12	6.36	-63	0.0
November-08	14.20	8.65	5.55	23.33	5.44	2.58	6.32	-37	0.1
February-09	14.20	8.05	6.15	18.12	6.42	0.26	6.45	-97	76.1
May-09	14.20	7.17	7.03	23.41	6.04	0.34	6.17	-120	7.7
August-09	14.20	8.35	5.85	26.80	5.19	0.49	6.23	14	34.0
December-09	14.20	8.43	5.77	18.88	5.708	1.72	6.08	-67.1	22.29
February-10	14.20	7.05	7.15	17.12	6.37	0.27	6.33	2	9.6
BA-09A									
May-08	11.10	0.65	10.45	22.56	0.249	0.26	6.97	-93	0.0
August-08	11.10	1.94	9.16	23.25	0.272	0.26	6.76	-8	0.0
November-08	11.10	1.46	9.64	22.98	0.272	0.37	7.42	-111	0.0
February-09	11.10	0.97	10.13	16.91	0.277	1.19	6.94	-44	0.0
May-09	11.10	0.88	10.22	19.93	0.274	0.47	6.69	-5	0.0
August-09	11.10	1.79	9.31	21.91	0.247	0.39	6.50	88	1.2
December-09	11.10	0.90	10.20	20.44	0.261	1.86	6.82	98.8	1.46
February-10	11.10	0.60	10.50	19.19	0.259	1.60	7.19	54	1.2
BC-03									
May-08	16.32	5.60	10.72	23.50	3.06	2.96	7.14	-68	0.0
August-08	16.32	6.91	9.41	23.41	3.40	0.22	6.92	-109	0.0
November-08	16.32	6.89	9.43	22.63	3.41	0.32	7.36	-204	0.2
February-09	16.32	5.43	10.89	19.41	3.53	2.65	7.55	-88	0.0
May-09	16.32	5.11	11.21	23.05	3.54	0.44	7.19	-117	0.0
August-09	16.32	7.51	8.81	25.92	3.17	0.33	7.15	-51	0.5
December-09	16.32	5.49	10.83	22.46	3.209	3.00	7.05	-33.4	1.78
February-10	16.32	3.65	12.67	18.71	3.49	3.33	7.46	3	0.8
BC-07									
May-08	11.37	3.35	8.02	20.76	2.27	0.31	7.06	65	0.0
August-08	11.37	3.89	7.48	23.77	2.45	0.50	6.83	-88	3.6
November-08	11.37	4.12	7.25	20.77	2.32	4.53	7.20	284	5.9
February-09	11.37	2.94	8.43	16.52	2.51	1.01	7.44	160	0.0
May-09	11.37	2.80	8.57	20.71	2.61	1.02	7.14	-171	0.0
August-09	11.37	4.84	6.53	23.68	2.17	1.08	7.04	-8	1.3
December-09	11.37	2.80	8.57	18.81	2.077	2.97	7.01	32.4	7.98
February-10	11.37	2.24	9.13	14.12	2.57	1.99	7.39	423	1.5

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
SECOND WATER-BEARING ZONE (continued)									
BC-17									
May-08	15.18	4.49	10.69	23.47	2.00	0.37	6.67	37	0.0
August-08	15.18	4.64	10.54	27.13	2.20	0.44	6.81	-126	2.5
November-08	15.18	6.43	8.75	23.13	2.20	2.17	7.01	-76	0.0
February-09	15.18	4.55	10.63	19.19	2.28	0.79	6.95	253	0.0
May-09	15.18	4.26	10.92	23.21	2.27	0.33	6.97	-57	0.0
August-09	15.18	6.68	8.50	24.92	2.07	0.35	6.68	24	1.9
December-09	15.18	4.45	10.73	20.76	1.995	5.35	7.11	89.1	3.84
February-10	15.18	3.90	11.28	17.09	2.22	1.23	7.06	492	1.5
BC-19									
May-08	13.85	4.84	9.01	22.16	2.72	0.13	6.99	14	0.0
August-08	13.85	5.60	8.25	23.02	3.05	0.28	6.72	-127	1.3
November-08	13.85	5.56	8.29	22.90	3.06	2.15	7.19	-181	4.9
February-09	13.85	4.71	9.14	18.88	3.07	3.25	7.36	72	0.0
May-09	13.85	4.61	9.24	22.25	3.08	0.25	6.94	-78	0.0
August-09	13.85	6.55	7.30	25.19	2.81	0.23	6.90	-15	3.7
December-09	13.85	4.95	8.90	21.25	2.721	4.65	7.06	33.3	6.68
February-10	13.85	4.02	9.83	15.73	3.00	3.52	7.26	333	1.8
BC-21R									
May-08	15.28	5.17	10.11	21.86	1.239	0.30	6.75	-13	4.8
August-08	15.28	5.76	9.52	25.16	1.340	0.36	6.84	-202	0.0
November-08	15.28	7.03	8.25	24.03	1.337	5.02	7.32	36	0.0
February-09	15.28	5.66	9.62	18.74	1.408	3.79	7.21	0.0	7.55
May-09	15.28	4.88	10.40	22.06	1.416	0.61	6.81	255	0.0
August-09	15.28	7.92	7.36	24.88	1.257	0.38	6.75	22	0.3
December-09	15.28	5.56	9.72	19.61	1.228	5.13	7.03	83.9	7.48
February-10	15.28	4.01	11.27	14.76	1.390	4.40	7.24	526	2.0
BC-25									
May-08	15.73	6.33	9.40	21.34	0.952	0.17	6.81	-44	0.0
August-08	15.73	6.88	8.85	22.78	0.935	0.25	7.01	-158	0.0
November-08	15.73	7.89	7.84	21.15	0.921	0.83	7.00	-120	0.0
February-09	15.73	6.74	8.99	18.81	0.909	0.97	7.10	158	0.0
May-09	15.73	6.01	9.72	22.28	1.119	0.28	6.80	-85	0.0
August-09	15.73	8.74	6.99	23.28	0.794	0.27	6.95	-24	1.8
December-09	15.73	6.71	9.02	19.98	0.800	1.74	6.95	-7.7	2.88
February-10	15.73	5.02	10.71	17.04	1.004	6.72	7.32	404	1.2
THIRD WATER-BEARING ZONE									
BA-03A									
May-08	14.76	1.86	12.90	22.54	0.287	0.65	8.16	44	4.9
August-08	14.76	2.32	12.44	24.90	0.313	0.58	8.42	-174	11.5
November-08	14.76	2.20	12.56	22.70	0.318	0.71	8.43	-192	4.3
February-09	14.76	1.76	13.00	19.16	0.321	0.39	8.81	-198	2.4
May-09	14.76	1.74	13.02	24.5	0.3155	NA	6.84	12	242.7
August-09	14.76	3.00	11.76	24.02	0.284	0.29	8.18	-123	76.5
December-09	14.76	1.90	12.86	17.04	0.277	1.97	7.58	-151.7	3.05
February-10	14.76	1.80	12.96	16.96	0.308	0.71	8.39	-114	6.6
BA-05A									
May-08	14.42	3.49	10.93	24.47	0.258	0.22	7.21	-134	0.6
August-08	14.42	3.78	10.64	23.30	0.282	0.19	7.43	-148	0.0
November-08	14.42	3.69	10.73	22.46	0.284	0.27	7.50	-159	0.0
February-09	14.42	3.29	11.13	18.37	0.287	1.23	7.52	-136	0.0
May-09	14.42	3.22	11.20	23.46	0.299	0.93	7.16	-181	0.0
August-09	14.42	4.35	10.07	25.06	0.252	0.29	7.25	-89	1.5
December-09	14.42	3.32	11.10	18.14	0.257	1.83	6.82	-33.7	2.69
February-10	14.42	3.06	11.36	17.76	0.272	3.24	7.38	-61	3.8

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
THIRD WATER-BEARING ZONE (continued)									
BB-01									
May-08	15.75	2.90	12.85	21.75	0.296	1.25	10.09	-83	9.2
August-08	15.75	3.58	12.17	23.24	0.319	0.33	9.83	-195	8.0
November-08	15.75	3.29	12.46	21.36	0.316	0.49	10.53	-213	4.0
February-09	15.75	2.80	12.95	18.54	0.317	0.98	10.11	-93	6.4
May-09	15.75	2.86	12.89	21.89	0.311	0.43	10.10	-174	0.0
August-09	15.75	4.10	11.65	23.35	0.280	0.57	9.66	-104	6.2
December-09	15.75	2.96	12.79	19.27	0.279	1.91	9.75	27.1	8.38
February-10	15.75	2.79	12.96	17.01	0.298	1.37	10.31	67	6.1
BA-01A									
May-08	15.03	4.34	10.69	22.57	0.257	0.19	7.27	-53	0.0
August-08	15.03	4.81	10.22	23.44	0.278	0.43	7.18	-106	0.0
November-08	15.03	4.84	10.19	22.65	0.281	0.93	7.45	-150	0.0
February-09	15.03	4.33	10.70	19.67	0.284	1.51	7.58	145	0.0
May-09	15.03	4.26	10.77	22.17	0.280	0.49	7.29	55	0.0
August-09	15.03	5.38	9.65	23.93	0.250	0.42	7.13	-19	0.1
December-09	15.03	4.50	10.53	20.45	0.268	1.72	7.50	-94.5	2.79
February-10	15.03	4.12	10.91	18.32	0.268	1.44	7.65	317	1.8
WATER WELLS									
(b) (6) Well									
May-08	NA	NA	NA	22.06	0.271	28.4	8.09	-17	0.0
August-08	NA	NA	NA	21.63	0.256	1.47	8.07	-172	0.0
November-08	NA	NA	NA	20.21	0.235	2.49	8.61	-184	0.0
February-09	NA	NA	NA	17.52	0.304	3.01	8.22	-124	0.0
May-09	NA	NA	NA	20.18	0.297	3.55	6.84	-149	0.0
August-09	NA	NA	NA	21.53	0.270	3.35	7.73	8	0.2
December-09	NA	NA	NA	20.33	0.279	4.04	7.81	-101.5	1.89
February-10	NA	NA	NA	19.66	0.284	3.11	8.60	-106	0.2
WW-04									
May-08	NA	NA	NA	22.75	0.275	1.50	8.50	-129	0.0
August-08	NA	NA	NA	21.89	0.303	3.12	8.60	-226	0.0
November-08	NA	NA	NA	20.51	0.304	2.45	9.32	-138	0.0
February-09	NA	NA	NA	17.36	0.305	2.66	8.73	-164	0.0
May-09	NA	NA	NA	21.76	0.303	2.92	8.68	-251	0.0
August-09	NA	NA	NA	22.84	0.270	2.96	8.27	2	0.0
December-09	NA	NA	NA	20.64	0.289	3.92	7.73	-122.8	2.08
February-10	NA	NA	NA	19.77	0.287	2.29	9.10	-149	0.9
WW-09									
May-08	NA	NA	NA	22.74	0.268	3.03	8.66	47	0.0
August-08	NA	NA	NA	23.31	0.291	2.37	8.19	-95	0.0
November-08	NA	NA	NA	20.00	0.293	3.91	9.00	-131	0.0
February-09	NA	NA	NA	14.40	0.325	3.56	7.61	-83	0.0
May-09	NA	NA	NA	20.59	0.293	5.54	8.54	-172	0.0
August-09	NA	NA	NA	21.76	0.264	3.15	8.03	-11	0.0
December-09	NA	NA	NA	19.68	0.265	5.72	7.18	-77.2	3.04
February-10	NA	NA	NA	19.51	0.277	3.14	8.29	-80	0.6
North Well									
May-08	NA	NA	NA	22.36	0.289	1.87	8.91	-95	0.0
August-08	NA	NA	NA	23.40	0.295	1.72	9.23	-214	0.0
November-08	NA	NA	NA	22.01	0.200	1.81	9.29	-161	0.0
February-09	NA	NA	NA	20.33	0.263	1.88	9.19	-63	0.0
May-09	NA	NA	NA	22.67	0.321	1.38	9.06	-185	0.0
August-09	NA	NA	NA	22.11	0.271	1.14	8.75	-68	0.2
December-09	NA	NA	NA	20.35	0.309	2.79	8.13	16.8	5.46
February-10	NA	NA	NA	19.69	0.286	1.35	9.10	255	1.6

TABLE 3
GROUNDWATER SAMPLING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

Monitoring/ Sample Well No. & Date	Groundwater Elevation			Groundwater Quality Data					
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	Temperature °C	Specific Conductivity mS/sec	Dissolved Oxygen (mg/L)	pH Standard Unit	ORP Eh	Turbidity NTU
WATER WELLS (continued)									
South Well									
May-08	NA	NA	NA	22.00	0.031	3.17	7.11	-45	0.0
August-08	NA	NA	NA	22.08	0.303	1.66	8.85	-170	0.0
November-08	NA	NA	NA	20.58	0.298	3.30	9.48	-145	0.0
February-09	NA	NA	NA	19.01	0.305	3.28	9.26	-143	0.0
May-09	NA	NA	NA	20.89	0.302	1.75	9.03	-147	0.0
August-09	NA	NA	NA	21.41	0.271	2.44	8.85	-67	0.0
December-09	NA	NA	NA	19.35	0.282	3.66	9.32	-111.3	3.68
February-10	NA	NA	NA	17.78	0.037	5.02	9.42	-62	1.7

Notes: 1) 'Top-of-casing (TOC) elevation - (depth to fluid) = Corrected GROUNDWATER (GW) elevation
2) Additional quarters will be added as sampling events continue

Abbrev.: NA = Not Appliciable mg/L = milligrams per Liter NF = Not Found
NM = Not Measured NS = Not Sampled

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
1	Total Arsenic/7440-38-2	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.010	0.004	< 0.004		No
2	Total Lead/7439-92-1	SW6020	BA-09A	10020428-01	100208	EPA Site Cleanup	0.015	0.001	0.000504	J	No
3	Total Manganese/7439-96-5	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.510	0.002	0.0234	N	No
4	Total Nickel/7440-02-0	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.073	0.002	< 0.002		No
5	Total Thallium/7440-28-0	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.002	0.002	< 0.002		No
6	Total Lead/7439-92-1	SW6020	BA-09	10020428-02	100208	EPA Site Cleanup	0.015	0.005	< 0.005		No
7	**Total Manganese/7439-96-5**	**SW6020**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.510**	**0.002**	**3.41**		**Yes**
8	**Total Nickel/7440-02-0**	**SW6020**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.073**	**0.002**	**0.161**		**Yes**
9	**Total Thallium/7440-28-0**	**SW6020**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
10	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.010**	**0.02**	**0.0452**		**Yes**
11	Total Arsenic/7440-38-2	SW6020	MW-04	10020428-03	100208	RECAP SS	0.010	0.004	< 0.004		No
12	Total Lead/7439-92-1	SW6020	MW-04	10020428-03	100208	EPA Site Cleanup	0.015	0.001	0.000524	J	No
13	Total Manganese/7439-96-5	SW6020	MW-04	10020428-03	100208	RECAP SS	0.510	0.002	0.0077	N	No
14	Total Nickel/7440-02-0	SW6020	MW-04	10020428-03	100208	RECAP SS	0.073	0.002	< 0.002		No
15	Total Thallium/7440-28-0	SW6020	MW-04	10020428-03	100208	RECAP SS	0.002	0.002	< 0.002		No
16	Total Arsenic/7440-38-2	SW6020	WW-09	10020428-04	100208	RECAP SS	0.010	0.004	< 0.004		No
17	Total Lead/7439-92-1	SW6020	WW-09	10020428-04	100208	EPA Site Cleanup	0.015	0.001	0.000381	J	No
18	Total Manganese/7439-96-5	SW6020	WW-09	10020428-04	100208	RECAP SS	0.510	0.002	0.0144	N	No
19	Total Nickel/7440-02-0	SW6020	WW-09	10020428-04	100208	RECAP SS	0.073	0.002	< 0.002		No
20	Total Thallium/7440-28-0	SW6020	WW-09	10020428-04	100208	RECAP SS	0.002	0.002	< 0.002		No
21	Total Arsenic/7440-38-2	SW6020	WW-04	10020428-05	100208	RECAP SS	0.010	0.004	< 0.004		No
22	Total Lead/7439-92-1	SW6020	WW-04	10020428-05	100208	EPA Site Cleanup	0.015	0.001	< 0.001		No
23	Total Manganese/7439-96-5	SW6020	WW-04	10020428-05	100208	RECAP SS	0.510	0.002	0.00297	N	No
24	Total Nickel/7440-02-0	SW6020	WW-04	10020428-05	100208	RECAP SS	0.073	0.002	< 0.002		No
25	Total Thallium/7440-28-0	SW6020	WW-04	10020428-05	100208	RECAP SS	0.002	0.002	< 0.002		No
26	Total Arsenic/7440-38-2	SW6020	(b) (6) WELL	10020428-06	100208	RECAP SS	0.010	0.004	< 0.004		No
27	Total Lead/7439-92-1	SW6020	WELL	10020428-06	100208	EPA Site Cleanup	0.015	0.001	0.00292		No
28	Total Manganese/7439-96-5	SW6020	WELL	10020428-06	100208	RECAP SS	0.510	0.002	0.0203	N	No
29	Total Nickel/7440-02-0	SW6020	WELL	10020428-06	100208	RECAP SS	0.073	0.002	< 0.002		No
30	Total Thallium/7440-28-0	SW6020	WELL	10020428-06	100208	RECAP SS	0.002	0.002	< 0.002		No
31	Total Arsenic/7440-38-2	SW6020	BC-03	10020428-07	100208	RECAP SS	0.010	0.004	< 0.004		No
32	Total Lead/7439-92-1	SW6020	BC-03	10020428-07	100208	EPA Site Cleanup	0.015	0.001	0.000221	J	No
33	Total Manganese/7439-96-5	SW6020	BC-03	10020428-07	100208	RECAP SS	0.510	0.002	0.00138	JN	No
34	Total Nickel/7440-02-0	SW6020	BC-03	10020428-07	100208	RECAP SS	0.073	0.002	0.00146	JN	No
35	Total Thallium/7440-28-0	SW6020	BC-03	10020428-07	100208	RECAP SS	0.002	0.002	< 0.002		No
36	Total Arsenic/7440-38-2	SW6020	BC-07	10020428-08	100209	RECAP SS	0.010	0.004	< 0.004		No
37	Total Lead/7439-92-1	SW6020	BC-07	10020428-08	100209	EPA Site Cleanup	0.015	0.001	0.000163	J	No
38	Total Manganese/7439-96-5	SW6020	BC-07	10020428-08	100209	RECAP SS	0.510	0.002	0.0129	N	No
39	Total Nickel/7440-02-0	SW6020	BC-07	10020428-08	100209	RECAP SS	0.073	0.002	0.000783	JN	No
40	Total Thallium/7440-28-0	SW6020	BC-07	10020428-08	100209	RECAP SS	0.002	0.002	0.00022	J	No
41	Total Arsenic/7440-38-2	SW6020	DW-04	10020428-09	100209	RECAP SS	0.010	0.004	< 0.004		No
42	Total Lead/7439-92-1	SW6020	DW-04	10020428-09	100209	EPA Site Cleanup	0.015	0.001	0.000534	J	No
43	Total Manganese/7439-96-5	SW6020	DW-04	10020428-09	100209	RECAP SS	0.510	0.002	0.000732	JN	No
44	Total Nickel/7440-02-0	SW6020	DW-04	10020428-09	100209	RECAP SS	0.073	0.002	< 0.002		No
45	Total Thallium/7440-28-0	SW6020	DW-04	10020428-09	100209	RECAP SS	0.002	0.002	< 0.002		No
46	Total Arsenic/7440-38-2	SW6020	BC-19	10020428-10	100209	RECAP SS	0.010	0.004	< 0.004		No
47	Total Lead/7439-92-1	SW6020	BC-19	10020428-10	100209	EPA Site Cleanup	0.015	0.001	0.000185	J	No
48	Total Manganese/7439-96-5	SW6020	BC-19	10020428-10	100209	RECAP SS	0.510	0.002	0.00119	JN	No
49	Total Nickel/7440-02-0	SW6020	BC-19	10020428-10	100209	RECAP SS	0.073	0.002	0.00104	JN	No
50	Total Thallium/7440-28-0	SW6020	BC-19	10020428-10	100209	RECAP SS	0.002	0.002	< 0.002		No
51	Total Arsenic/7440-38-2	SW6020	BC-25	10020428-11	100209	RECAP SS	0.010	0.004	< 0.004		No
52	Total Lead/7439-92-1	SW6020	BC-25	10020428-11	100209	EPA Site Cleanup	0.015	0.001	0.000153	J	No
53	Total Manganese/7439-96-5	SW6020	BC-25	10020428-11	100209	RECAP SS	0.510	0.002	0.00641	N	No
54	Total Nickel/7440-02-0	SW6020	BC-25	10020428-11	100209	RECAP SS	0.073	0.002	< 0.002		No
55	Total Thallium/7440-28-0	SW6020	BC-25	10020428-11	100209	RECAP SS	0.002	0.002	< 0.002		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
56	Total Arsenic/7440-38-2	SW6020	MW-03	10020428-12	100209	RECAP SS	0.010	0.004	< 0.004		No
57	Total Lead/7439-92-1	SW6020	MW-03	10020428-12	100209	EPA Site Cleanup	0.015	0.001	0.00508		No
58	Total Manganese/7439-96-5	SW6020	MW-03	10020428-12	100209	RECAP SS	0.510	0.002	0.462	N	No
59	Total Nickel/7440-02-0	SW6020	MW-03	10020428-12	100209	RECAP SS	0.073	0.002	0.00141	JN	No
60	Total Thallium/7440-28-0	SW6020	MW-03	10020428-12	100209	RECAP SS	0.002	0.002	< 0.002		No
61	Total Lead/7439-92-1	SW6020	MW-06	10020428-13	100209	EPA Site Cleanup	0.015	0.001	0.000493	J	No
62	**Total Manganese/7439-96-5**	**SW6020**	**MW-06**	**10020428-13**	**100209**	**RECAP SS**	**0.510**	**0.002**	**2.25**	**N**	**Yes**
63	Total Nickel/7440-02-0	SW6020	MW-06	10020428-13	100209	RECAP SS	0.073	0.002	0.0191	N	No
64	Total Thallium/7440-28-0	SW6020	MW-06	10020428-13	100209	RECAP SS	0.002	0.002	< 0.002		No
65	**Total Arsenic/7440-38-2**	**SW6010B**	**MW-06**	**10020428-13**	**100209**	**RECAP SS**	**0.010**	**0.02**	**< 0.02**		**Yes**
66	Total Arsenic/7440-38-2	SW6020	BB-01	10020428-14	100209	RECAP SS	0.010	0.004	0.00319	J	No
67	Total Lead/7439-92-1	SW6020	BB-01	10020428-14	100209	EPA Site Cleanup	0.015	0.001	0.00591		No
68	Total Manganese/7439-96-5	SW6020	BB-01	10020428-14	100209	RECAP SS	0.510	0.002	0.00421	N	No
69	Total Nickel/7440-02-0	SW6020	BB-01	10020428-14	100209	RECAP SS	0.073	0.002	0.00104	JN	No
70	Total Thallium/7440-28-0	SW6020	BB-01	10020428-14	100209	RECAP SS	0.002	0.002	< 0.002		No
71	Total Arsenic/7440-38-2	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.010	0.004	< 0.004		No
72	Total Lead/7439-92-1	SW6020	SOUTH WELL	10020428-15	100209	EPA Site Cleanup	0.015	0.001	0.000213	J	No
73	Total Manganese/7439-96-5	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.510	0.002	0.00364	N	No
74	Total Nickel/7440-02-0	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.073	0.002	< 0.002		No
75	Total Thallium/7440-28-0	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.002	0.002	< 0.002		No
76	Total Arsenic/7440-38-2	SW6020	BC-17	10020428-16	100209	RECAP SS	0.010	0.004	< 0.004		No
77	**Total Lead/7439-92-1**	**SW6020**	**BC-17**	**10020428-16**	**100209**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.0209**		**Yes**
78	Total Manganese/7439-96-5	SW6020	BC-17	10020428-16	100209	RECAP SS	0.510	0.002	0.0709		No
79	Total Nickel/7440-02-0	SW6020	BC-17	10020428-16	100209	RECAP SS	0.073	0.002	0.00138	J	No
80	Total Thallium/7440-28-0	SW6020	BC-17	10020428-16	100209	RECAP SS	0.002	0.002	< 0.002		No
81	Total Arsenic/7440-38-2	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.010	0.004	< 0.004		No
82	Total Lead/7439-92-1	SW6020	NORTH WELL	10020428-17	100209	EPA Site Cleanup	0.015	0.001	0.000732	J	No
83	Total Manganese/7439-96-5	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.510	0.002	0.00324	N	No
84	Total Nickel/7440-02-0	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.073	0.002	< 0.002		No
85	Total Thallium/7440-28-0	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.002	0.002	< 0.002		No
86	Total Arsenic/7440-38-2	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.010	0.004	< 0.004		No
87	Total Lead/7439-92-1	SW6020	BC-21R	10020428-18	100209	EPA Site Cleanup	0.015	0.001	0.000162	J	No
88	Total Manganese/7439-96-5	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.510	0.002	0.00642	N	No
89	Total Nickel/7440-02-0	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.073	0.002	0.000979	JN	No
90	Total Thallium/7440-28-0	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.002	0.002	< 0.002		No
91	Total Arsenic/7440-38-2	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.010	0.004	0.00417		No
92	Total Lead/7439-92-1	SW6020	BA-01A	10020428-19	100209	EPA Site Cleanup	0.015	0.001	0.000339	J	No
93	Total Manganese/7439-96-5	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.510	0.002	0.0066	N	No
94	Total Nickel/7440-02-0	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.073	0.002	< 0.002		No
95	Total Thallium/7440-28-0	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.002	0.002	0.000237	J	No
96	Dissolved Lead/7439-92-1	SW6020	BA-01	10020428-20	100209	EPA Site Cleanup	0.015	0.001	< 0.001		No
97	**Dissolved Manganese/7439-96-5**	**SW6020**	**BA-01**	**10020428-20**	**100209**	**RECAP SS**	**0.510**	**0.002**	**1.59**		**Yes**
98	Dissolved Nickel/7440-02-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.073	0.009	0.0546		No
99	Dissolved Thallium/7440-28-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.002	0.002	< 0.002		No
100	Dissolved Arsenic/7440-38-2	SW6010B	BA-01	10020428-20	100209	RECAP SS	0.010	0.02	0.00829	J	No
101	Total Lead/7439-92-1	SW6020	BA-01	10020428-20	100209	EPA Site Cleanup	0.015	0.001	0.000806	J	No
102	Total Manganese/7439-96-5	SW6020	BA-01	10020428-20	100209	RECAP SS	0.510	0.002	1.34		Yes
103	Total Nickel/7440-02-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.073	0.002	0.0465		No
104	Total Thallium/7440-28-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.002	0.002	< 0.002		No
105	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-01**	**10020428-20**	**100209**	**RECAP SS**	**0.010**	**0.02**	**0.0172**	**J**	**Yes**
106	Total Arsenic/7440-38-2	SW6020	DW-03	10020428-21	100210	RECAP SS	0.010	0.004	0.0018	J	No
107	**Total Lead/7439-92-1**	**SW6020**	**DW-03**	**10020428-21**	**100210**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.22**		**Yes**
108	Total Manganese/7439-96-5	SW6020	DW-03	10020428-21	100210	RECAP SS	0.510	0.002	0.284		No
109	Total Nickel/7440-02-0	SW6020	DW-03	10020428-21	100210	RECAP SS	0.073	0.002	0.0145		No
110	Total Thallium/7440-28-0	SW6020	DW-03	10020428-21	100210	RECAP SS	0.002	0.002	< 0.002		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
111	Total Lead/7439-92-1	SW6020	PW-04	10020428-22	100210	EPA Site Cleanup	0.015	0.001	0.000655	J	No
112	**Total Manganese/7439-96-5**	**SW6020**	**PW-04**	**10020428-22**	**100210**	**RECAP SS**	**0.510**	**0.002**	**1.5**		**Yes**
113	Total Nickel/7440-02-0	SW6020	PW-04	10020428-22	100210	RECAP SS	0.073	0.002	0.0358		No
114	Total Thallium/7440-28-0	SW6020	PW-04	10020428-22	100210	RECAP SS	0.002	0.002	< 0.002		No
115	**Total Arsenic/7440-38-2**	**SW6010B**	**PW-04**	**10020428-22**	**100210**	**RECAP SS**	**0.010**	**0.02**	**< 0.02**		**Yes**
116	**Total Lead/7439-92-1**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**EPA Site Cleanup**	**0.015**	**0.005**	**0.046**		**Yes**
117	**Total Manganese/7439-96-5**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.510**	**0.002**	**9.15**		**Yes**
118	**Total Nickel/7440-02-0**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.073**	**0.002**	**0.388**		**Yes**
119	**Total Thallium/7440-28-0**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
120	**Total Arsenic/7440-38-2**	**SW6010B**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.010**	**0.02**	**0.0915**		**Yes**
121	Total Arsenic/7440-38-2	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.010	0.004	< 0.004		No
122	Total Lead/7439-92-1	SW6020	BA-05A	10020428-24	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
123	Total Manganese/7439-96-5	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.510	0.002	0.012		No
124	Total Nickel/7440-02-0	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.073	0.002	< 0.002		No
125	Total Thallium/7440-28-0	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.002	0.002	< 0.002		No
126	Total Arsenic/7440-38-2	SW6020	BA-05	10020428-25	100210	RECAP SS	0.010	0.004	< 0.004		No
127	Total Lead/7439-92-1	SW6020	BA-05	10020428-25	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
128	**Total Manganese/7439-96-5**	**SW6020**	**BA-05**	**10020428-25**	**100210**	**RECAP SS**	**0.510**	**0.002**	**15.4**		**Yes**
129	Total Nickel/7440-02-0	SW6020	BA-05	10020428-25	100210	RECAP SS	0.073	0.002	0.058		No
130	Total Thallium/7440-28-0	SW6020	BA-05	10020428-25	100210	RECAP SS	0.002	0.002	< 0.002		No
131	Total Arsenic/7440-38-2	SW6020	MW-A	10020428-26	100210	RECAP SS	0.010	0.004	< 0.004		No
132	Total Lead/7439-92-1	SW6020	MW-A	10020428-26	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
133	Total Manganese/7439-96-5	SW6020	MW-A	10020428-26	100210	RECAP SS	0.510	0.002	0.00402		No
134	Total Nickel/7440-02-0	SW6020	MW-A	10020428-26	100210	RECAP SS	0.073	0.002	< 0.002		No
135	Total Thallium/7440-28-0	SW6020	MW-A	10020428-26	100210	RECAP SS	0.002	0.002	< 0.002		No
136	Dissolved Arsenic/7440-38-2	SW6020	DW-01	10020428-27	100210	RECAP SS	0.010	0.004	0.0029	J	No
137	Dissolved Lead/7439-92-1	SW6020	DW-01	10020428-27	100210	EPA Site Cleanup	0.015	0.001	0.00283		No
138	**Dissolved Manganese/7439-96-5**	**SW6020**	**DW-01**	**10020428-27**	**100210**	**RECAP SS**	**0.510**	**0.002**	**6.21**		**Yes**
139	Dissolved Nickel/7440-02-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.073	0.009	0.022		No
140	Dissolved Thallium/7440-28-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.002	0.002	< 0.002		No
141	**Total Arsenic/7440-38-2**	**SW6020**	**DW-01**	**10020428-27**	**100210**	**RECAP SS**	**0.010**	**0.004**	**0.0648**		**Yes**
142	Total Lead/7439-92-1	SW6020	DW-01	10020428-27	100210	EPA Site Cleanup	0.015	0.001	0.00357		No
143	**Total Manganese/7439-96-5**	**SW6020**	**DW-01**	**10020428-27**	**100210**	**RECAP SS**	**0.510**	**0.002**	**5.19**		**Yes**
144	Total Nickel/7440-02-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.073	0.002	0.0187		No
145	Total Thallium/7440-28-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.002	0.002	< 0.002		No
146	Total Arsenic/7440-38-2	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.010	0.004	< 0.004		No
147	Total Lead/7439-92-1	SW6020	BA-03A	10020428-28	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
148	Total Manganese/7439-96-5	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.510	0.002	0.0238		No
149	Total Nickel/7440-02-0	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.073	0.002	< 0.002		No
150	Total Thallium/7440-28-0	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.002	0.002	< 0.002		No
151	**Total Lead/7439-92-1**	**SW6020**	**BA-03**	**10020428-29**	**100210**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.146**		**Yes**
152	**Total Manganese/7439-96-5**	**SW6020**	**BA-03**	**10020428-29**	**100210**	**RECAP SS**	**0.510**	**0.002**	**2.2**		**Yes**
153	**Total Nickel/7440-02-0**	**SW6020**	**BA-03**	**10020428-29**	**100210**	**RECAP SS**	**0.073**	**0.002**	**0.0898**		**Yes**
154	Total Thallium/7440-28-0	SW6020	BA-03	10020428-29	100210	RECAP SS	0.002	0.002	< 0.002		No
155	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-03**	**10020428-29**	**100210**	**RECAP SS**	**0.010**	**0.02**	**0.015**	**J**	**Yes**
156	Total Lead/7439-92-1	SW6020	MW-02	10020428-30	100211	EPA Site Cleanup	0.015	0.001	0.0015		No
157	**Total Manganese/7439-96-5**	**SW6020**	**MW-02**	**10020428-30**	**100211**	**RECAP SS**	**0.510**	**0.002**	**0.728**		**Yes**
158	**Total Nickel/7440-02-0**	**SW6020**	**MW-02**	**10020428-30**	**100211**	**RECAP SS**	**0.073**	**0.002**	**0.0775**		**Yes**
159	Total Thallium/7440-28-0	SW6020	MW-02	10020428-30	100211	RECAP SS	0.002	0.002	< 0.002		No
160	**Total Arsenic/7440-38-2**	**SW6010B**	**MW-02**	**10020428-30**	**100211**	**RECAP SS**	**0.010**	**0.02**	**< 0.02**		**Yes**
161	Total Lead/7439-92-1	SW6020	MW-01	10020428-31	100211	EPA Site Cleanup	0.015	0.005	0.00389	J	No
162	**Total Manganese/7439-96-5**	**SW6020**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.510**	**0.002**	**3.57**		**Yes**
163	**Total Nickel/7440-02-0**	**SW6020**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.073**	**0.002**	**0.15**		**Yes**
164	**Total Thallium/7440-28-0**	**SW6020**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
165	**Total Arsenic/7440-38-2**	**SW6010B**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.010**	**0.02**	**0.0792**		**Yes**

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
166	Total Arsenic/7440-38-2	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.010	0.004	< 0.004		NA
167	Total Lead/7439-92-1	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	EPA Site Cleanup	0.015	0.001	0.0153		NA
168	Total Manganese/7439-96-5	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.510	0.002	0.0762		NA
169	Total Nickel/7440-02-0	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.073	0.002	0.00139	J	NA
170	Total Thallium/7440-28-0	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.002	0.002	< 0.002		NA
171	Total Lead/7439-92-1	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	EPA Site Cleanup	0.015	0.001	0.000508	J	NA
172	Total Manganese/7439-96-5	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.510	0.002	1.43		NA
173	Total Nickel/7440-02-0	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.073	0.002	0.0326		NA
174	Total Thallium/7440-28-0	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.002	0.002	< 0.002		NA
175	Total Arsenic/7440-38-2	SW6010B	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.010	0.02	< 0.02		NA
176	Total Arsenic/7440-38-2	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.010	0.004	< 0.004		NA
177	Total Lead/7439-92-1	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	EPA Site Cleanup	0.015	0.001	< 0.001		NA
178	Total Manganese/7439-96-5	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.510	0.002	0.00171	J	NA
179	Total Nickel/7440-02-0	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.073	0.002	< 0.002		NA
180	Total Thallium/7440-28-0	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.002	0.002	< 0.002		NA
181	Total Arsenic/7440-38-2	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.010	0.004	< 0.004		NA
182	Total Lead/7439-92-1	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	EPA Site Cleanup	0.015	0.001	0.000184	J	NA
183	Total Manganese/7439-96-5	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.510	0.002	0.0259		NA
184	Total Nickel/7440-02-0	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.073	0.002	< 0.002		NA
185	Total Thallium/7440-28-0	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.002	0.002	< 0.002		NA

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
					Total Metals					Dissolved				
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
FIRST WATER-BEARING ZONE														
DW-01														
May-08	13.36	10.44	2.92	**4.69**	**0.222**	0.00129	**1.71**	0.0264	0.00105 J	**0.119**	0.00197	**2.36**	0.0286	0.00105
August-08	13.36	10.58	2.78	**4.89**	**0.186**	<0.01	**2.02**	0.0325	<0.002	NA	NA	NA	NA	NA
November-08	13.36	11.42	1.94	**5.21**	**0.156**	0.00200	**0.711**	0.0148	<0.002	NA	NA	NA	NA	NA
February-09	13.36	11.64	1.72	**4.97**	**0.0656**	0.000932 J	**2.57**	0.0265	<0.002	NA	NA	NA	NA	NA
May-09	13.36	10.97	2.39	**5.71**	**0.157**	0.000127 JN	0.417	0.00686 N	<0.002	NA	NA	NA	NA	NA
August-09	13.36	11.70	1.66	**5.60**	**0.169**	0.00115	0.291	0.00454	0.000945 J	NA	NA	NA	NA	NA
December-09	13.36	9.68	3.68	**5.16**	**0.0410**	<0.002	**2.10**	0.0268	<0.002	**0.102 N**	0.000443 J	**2.03 E**	0.0263 N	<0.002
February-10	13.36	8.96	4.40	**5.19**	**0.0648**	0.00357	**5.19**	0.0187	<0.002	0.0029 J	0.00283	**6.21**	0.022	<0.002
DW-02														
May-08	14.12	4.55	9.57	**2.93**	**0.0538 ***	0.00437 J	**14.3**	**1.29**	**<0.01**	NA	NA	NA	NA	NA
August-08	14.12	3.84	10.28	**2.97**	**0.0401**	0.00834 J	**8.52**	**0.344**	<0.002	NA	NA	NA	NA	NA
November-08	14.12	5.85	8.27	**2.70**	**0.153**	0.00533	**10.8**	**0.499**	<0.002	NA	NA	NA	NA	NA
February-09	14.12	4.82	9.30	**3.42**	**0.0783**	0.00303	**12.1**	**0.511**	<0.002	NA	NA	NA	NA	NA
May-09	14.12	4.51	9.61	**2.90**	**0.0628 N**	0.00566 N	**9.22**	**0.370 N**	<0.002	NA	NA	NA	NA	NA
August-09	14.12	6.13	7.99	**3.06**	**0.127**	0.0138	**16.3**	**0.783**	**0.00475 J**	NA	NA	NA	NA	NA
December-09	14.12	3.90	10.22	**2.90**	**0.0926**	0.00438 J	**10.9**	**0.471**	**<0.01**	NA	NA	NA	NA	NA
February-10	14.12	3.84	10.28	**3.20**	**0.0915**	**0.0460**	**9.15**	**0.388**	**<0.01**	NA	NA	NA	NA	NA
DW-03														
May-08	11.59	5.43	6.16	**3.59**	**0.0665 ***	**0.103**	2.39	**0.130**	<0.002	NA	NA	NA	NA	NA
August-08	11.59	5.49	6.10	**3.52**	**0.0346**	**0.0617**	0.365	0.0176	<0.002	NA	NA	NA	NA	NA
November-08	11.59	6.33	5.26	**3.59**	**0.0389**	0.0100	**2.63**	0.0710	<0.002	NA	NA	NA	NA	NA
February-09	11.59	5.59	6.00	**3.77**	**0.0544**	**0.108**	3.74	**0.129**	<0.002	NA	NA	NA	NA	NA
May-09	11.59	5.49	6.10	**3.74**	**0.0245 N**	**0.0207 N**	**1.82**	0.0467 N	<0.002	NA	NA	NA	NA	NA
August-09	11.59	7.07	4.52	**3.79**	**0.0218**	0.00243	**3.28**	**0.0789**	0.000979 J	NA	NA	NA	NA	NA
December-09	11.59	4.92	6.67	**4.02**	**<0.02**	**0.215**	0.205	0.0111	<0.002	NA	NA	NA	NA	NA
February-10	11.59	4.80	6.79	**3.88**	0.00180 J	**0.220**	0.284	0.0145	<0.002	NA	NA	NA	NA	NA
MW-01														
May-08	15.08	13.37	1.71	**3.38**	**0.0950 ***	0.00126 J	**5.52**	**0.291**	**<0.01**	NA	NA	NA	NA	NA
August-08	15.08	14.24	0.84	**3.15**	**0.0737**	**0.0182**	6.07	0.270	<0.002	NA	NA	NA	NA	NA
November-08	15.08	13.84	1.24	**3.60**	**0.102**	0.00213	**5.05**	**0.228**	<0.002	NA	NA	NA	NA	NA
February-09	15.08	14.58	0.50	**3.19**	**0.0993**	0.00331	**4.89**	**0.209**	<0.002	NA	NA	NA	NA	NA
May-09	15.08	13.28	1.80	**3.11**	**0.0708 N**	0.000232 JN	**4.89**	**0.199 N**	<0.002	NA	NA	NA	NA	NA
August-09	15.08	14.01	1.07	**3.33**	**0.0774**	0.00539	**5.44**	**0.237**	**0.00477 J**	NA	NA	NA	NA	NA
December-09	15.08	12.64	2.44	**3.43**	**0.0467 J**	<0.01	**5.26**	**0.223**	**<0.01**	NA	NA	NA	NA	NA
February-10	15.08	12.64	2.44	**3.11**	**0.0792**	0.00389 J	**3.57**	**0.15**	**<0.01**	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.0-9.0**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
					Total Metals					Dissolved				
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
FIRST WATER-BEARING ZONE														
MW-02														
May-08	14.23	7.03	7.20	**3.26**	0.00416 J	0.00778	**2.54**	**0.119**	<0.002	NA	NA	NA	NA	NA
August-08	14.23	7.05	7.18	**2.89**	0.00619 J	<0.01	**3.99**	**0.143**	<0.002	NA	NA	NA	NA	NA
November-08	14.23	7.60	6.63	**3.36**	**0.0207**	**0.0313**	**2.69**	**0.103**	<0.002	**0.0187 J**	0.00517	**2.62 B**	**0.102**	<0.002
February-09	14.23	7.34	6.89	**3.16**	0.00535 J	0.00215	**2.44**	**0.0895**	<0.002	NA	NA	NA	NA	NA
May-09	14.23	7.14	7.09	**3.05**	<0.01	0.00229 N	**1.40**	**0.0753 N**	<0.002	NA	NA	NA	NA	NA
August-09	14.23	8.37	5.86	**3.04**	**<0.02**	0.00496	**2.33**	**0.0918**	0.00189 J	NA	NA	NA	NA	NA
December-09	14.23	6.53	7.70	**3.16**	**<0.02**	0.00257	**0.934**	**0.0958**	<0.002	NA	NA	NA	NA	NA
February-10	14.23	6.50	7.73	**2.92**	**<0.02**	0.00150	**0.728**	**0.0775**	<0.002	NA	NA	NA	NA	NA
MW-06														
May-08	16.77	7.91	8.86	**3.70**	0.00594 J	0.000896 J	**2.23**	0.0188	<0.002	NA	NA	NA	NA	NA
August-08	16.77	8.49	8.28	**3.52**	0.00533 J	<0.01	**3.44**	0.0324	0.000927 J	NA	NA	NA	NA	NA
November-08	16.77	9.27	7.50	**3.82**	<0.01	0.00102	**1.91**	0.0189	<0.002	NA	NA	NA	NA	NA
February-09	16.77	8.43	8.34	**3.70**	0.00732 J	<0.001	**2.55**	0.0202	<0.002	NA	NA	NA	NA	NA
May-09	16.77	8.36	8.41	**3.72**	<0.01	<0.002	**2.34**	0.0260	<0.002	NA	NA	NA	NA	NA
August-09	16.77	10.41	6.36	**3.89**	**<0.02**	0.00148	**2.31**	0.0233	0.00102 J	NA	NA	NA	NA	NA
December-09	16.77	6.59	10.18	**3.72**	**<0.02**	<0.002	**2.44 N**	0.0207 N	<0.002	NA	NA	NA	NA	NA
February-10	16.77	6.48	10.29	**3.92**	**<0.02**	0.000493 J	**2.25 N**	0.0191 N	<0.002	NA	NA	NA	NA	NA
PW-04														
May-08	12.22	4.95	7.27	**3.99**	0.00791 J	0.000617 J	**1.79**	0.0602	<0.002	NA	NA	NA	NA	NA
August-08	12.22	5.41	6.81	**3.72**	**<0.02**	<0.01	**1.45**	0.0355	<0.002	NA	NA	NA	NA	NA
November-08	12.22	6.28	5.94	**3.53**	<0.004	0.00192	**0.877**	0.0288	<0.002	NA	NA	NA	NA	NA
February-09	12.22	5.20	7.02	**4.19**	0.01 J	0.00018 J	**2.42**	0.0595	<0.002	NA	NA	NA	NA	NA
May-09	12.22	5.08	7.14	**3.83**	<0.01	0.000447 JN	**2.37**	0.0530 N	<0.002	NA	NA	NA	NA	NA
August-09	12.22	7.12	5.10	**3.93**	**<0.02**	0.00223	**1.73**	0.0452	0.000969 J	NA	NA	NA	NA	NA
December-09	12.22	4.14	8.08	**4.24**	**<0.02**	<0.002	**1.51**	0.0393	<0.002	NA	NA	NA	NA	NA
February-10	12.22	3.46	8.76	**4.06**	**<0.02**	0.000655 J	**1.50**	0.0358	<0.002	NA	NA	NA	NA	NA
BA-03														
May-08	14.57	6.61	7.96	**4.23**	**0.0171**	**0.153**	2.13	**0.0975**	<0.002	NA	NA	NA	NA	NA
August-08	14.57	6.68	7.89	**4.04**	**<0.02**	**0.163**	**2.43**	**0.0988**	<0.002	NA	NA	NA	NA	NA
November-08	14.57	7.39	7.18	**4.53**	**0.0113**	**0.219**	**1.96**	**0.0769**	<0.002	NA	NA	NA	NA	NA
February-09	14.57	6.93	7.64	**3.40**	**0.0128 J**	**0.2**	**1.99**	**0.0749**	<0.002	NA	NA	NA	NA	NA
May-09	14.57	6.76	7.81	**3.98**	<0.01	**0.129 N**	**1.95**	**0.0742 N**	<0.002	NA	NA	NA	NA	NA
August-09	14.57	8.14	6.43	**3.11**	**0.0105 J**	**0.346**	**4.55**	**0.188**	0.00195 J	NA	NA	NA	NA	NA
December-09	14.57	6.33	8.24	**4.63**	**<0.02**	**0.0329**	**0.755**	0.0321	<0.002	NA	NA	NA	NA	NA
February-10	14.57	6.05	8.52	**4.52**	**0.0150 J**	**0.146**	**2.2**	**0.0898**	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.0-9.0**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
					Total Metals					Dissolved				
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
FIRST WATER-BEARING ZONE														
BA-09														
May-08	9.46	7.36	2.10	**3.52**	**0.0293**	0.000459 J	**2.63**	**0.154**	<0.002	NA	NA	NA	NA	NA
August-08	9.46	9.11	0.35	**3.68**	**0.0388**	0.000643 J	**3.36**	**0.176 ***	<0.002	NA	NA	NA	NA	NA
November-08	9.46	8.70	0.76	**3.68**	**0.0536**	0.00115	**2.47**	**0.131**	<0.002	NA	NA	NA	NA	NA
February-09	9.46	8.97	0.49	**3.71**	**0.0322**	0.00418	**3.05**	**0.147**	<0.002	NA	NA	NA	NA	NA
May-09	9.46	8.35	1.11	**3.63**	**0.0297**	<0.002	**2.99**	**0.146**	<0.002	NA	NA	NA	NA	NA
August-09	9.46	8.98	0.48	**3.63**	**0.0407**	0.000985 J	**3.91**	**0.194**	**<0.01**	NA	NA	NA	NA	NA
December-09	9.46	5.61	3.85	**3.60**	**0.0364**	<0.01	**2.04 N**	**0.121 N**	**<0.01**	NA	NA	NA	NA	NA
February-10	9.46	7.09	2.37	**3.58**	**0.0452**	<0.005	**3.41**	**0.161**	**<0.01**	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.0-9.0**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**
SECOND WATER-BEARING ZONE														
DW-04														
May-08	14.21	4.53	9.68	7.08	<0.01	0.000538 J	0.0624	0.00297	<0.002	NA	NA	NA	NA	NA
August-08	14.21	4.75	9.46	7.15	**<0.02**	<0.01	0.0457	<0.01	<0.002	NA	NA	NA	NA	NA
November-08	14.21	5.14	9.07	7.13	<0.004	0.00113	0.0324	0.00176 J	<0.002	NA	NA	NA	NA	NA
February-09	14.21	4.42	9.79	7.90	<0.004	<0.001	<0.002	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	14.21	4.22	9.99	7.10	<0.004	<0.002	0.0434	0.00161 J	<0.002	NA	NA	NA	NA	NA
August-09	14.21	5.79	8.42	7.15	<0.004	0.00139	0.0662	0.000995 J	0.000935 J	NA	NA	NA	NA	NA
December-09	14.21	4.72	9.49	7.13	<0.004	<0.002	0.0519 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	14.21	3.89	10.32	7.88	<0.004	0.000534 J	0.000732 JN	<0.002	<0.002	NA	NA	NA	NA	NA
MW-A														
May-08	15.12	9.36	5.76	7.14	0.00377 J	<0.001	0.00741	0.00655	<0.002	NA	NA	NA	NA	NA
August-08	15.12	9.86	5.26	7.20	**<0.02**	<0.01	0.00369 J	<0.01	<0.002	NA	NA	NA	NA	NA
November-08	15.12	10.27	4.85	7.23	<0.004	0.000873 J	0.00797	0.0016 J	0.00149 J	NA	NA	NA	NA	NA
February-09	15.12	10.64	4.48	7.35	<0.005	<0.001	0.000847 J	<0.003	<0.002	NA	NA	NA	NA	NA
May-09	15.12	9.74	5.38	7.19	<0.004	<0.002	0.00508	0.00150 JN	<0.002	NA	NA	NA	NA	NA
August-09	15.12	10.58	4.54	7.14	<0.004	0.000868 J	0.0142	0.00154 J	0.000933 J	NA	NA	NA	NA	NA
December-09	15.12	9.52	5.60	7.07	<0.004	<0.002	0.00287	<0.002	<0.002	NA	NA	NA	NA	NA
February-10	15.12	9.29	5.83	7.39	<0.004	<0.001	0.00402	<0.002	<0.002	NA	NA	NA	NA	NA
MW-03														
May-08	14.80	5.73	9.07	6.57	<0.01	0.00108	**1.09**	0.00369	<0.002	NA	NA	NA	NA	NA
August-08	14.80	6.18	8.62	6.63	**<0.02**	<0.01	**1.17**	0.00146 J	<0.002	NA	NA	NA	NA	NA
November-08	14.80	6.99	7.81	6.78	<0.004	0.000993 J	**1.17**	0.00537	<0.002	NA	NA	NA	NA	NA
February-09	14.80	6.26	8.54	6.91	<0.004	<0.001	0.319	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	14.80	5.39	9.41	6.71	<0.004	0.000594 J	**7.26**	0.00504	<0.002	NA	NA	NA	NA	NA
August-09	14.80	7.78	7.02	6.59	<0.004	0.00544	**0.946**	0.00260	0.000957 J	NA	NA	NA	NA	NA
December-09	14.80	6.14	8.66	6.93	<0.004	0.00333	**0.535 N**	0.00132 JN	<0.002	NA	NA	NA	NA	NA
February-10	14.80	4.78	10.02	6.82	<0.004	0.00508	0.462 N	0.00141 JN	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Total Metals					Dissolved				
					Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
SECOND WATER-BEARING ZONE														
MW-04														
May-08	17.38	13.34	4.04	6.60	<0.01	0.000629 J	0.00887	0.00056 J	<0.002	NA	NA	NA	NA	NA
August-08	17.38	15.16	2.22	**6.37**	0.00122 J	0.000954 J	0.00933	0.000687 JB	<0.002	NA	NA	NA	NA	NA
November-08	17.38	14.63	2.75	6.99	<0.004	0.000709 J	0.00532	0.00236	<0.002	NA	NA	NA	NA	NA
February-09	17.38	14.00	3.38	6.75	<0.004	0.000837 J	0.00970	0.00129 J	<0.002	NA	NA	NA	NA	NA
May-09	17.38	13.54	3.84	**6.40**	<0.004	0.00121 J	0.0223	0.00410	<0.002	NA	NA	NA	NA	NA
August-09	17.38	15.61	1.77	**6.41**	<0.004	0.00128	0.0127	0.00102 J	0.000941 J	NA	NA	NA	NA	NA
December-09	17.38	13.41	3.97	**6.42**	<0.004	<0.002	0.00898 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	17.38	12.46	4.92	6.77	<0.004	0.000524 J	0.00770 N	<0.002	<0.002	NA	NA	NA	NA	NA
BA-01														
May-08	14.57	5.86	8.71	**6.20**	<0.01	0.00023 J	**1.00**	0.0308	<0.002	NA	NA	NA	NA	NA
August-08	14.57	6.21	8.36	**6.31**	**<0.02**	<0.01	**1.00**	0.0218	<0.002	NA	NA	NA	NA	NA
November-08	14.57	6.87	7.70	6.65	0.00219 J	0.000508 J	**0.754**	0.0135	<0.002	NA	NA	NA	NA	NA
February-09	14.57	6.55	8.02	6.69	<0.004	<0.001	**0.948**	0.0199	<0.002	NA	NA	NA	NA	NA
May-09	14.57	5.65	8.92	**6.22**	0.00908 JN	<0.002	**1.16**	0.0343 N	<0.002	**0.0153**	<0.002	**1.24**	0.0368	<0.002
August-09	14.57	7.46	7.11	**6.27**	**<0.02**	0.000762 J	**0.879**	0.0211	0.000939 J	**0.0128 J**	0.000697 J	**1.02**	0.0235	0.00190 J
December-09	14.57	6.30	8.27	**6.28**	**<0.02**	<0.002	**0.806**	0.0194	<0.002	NA	NA	NA	NA	NA
February-10	14.57	5.44	9.13	**6.16**	**0.0172 J**	0.000806 J	**1.34**	0.0465	<0.002	0.00829 J	<0.001	**1.59**	0.0546	<0.002
BA-05														
May-08	14.20	7.13	7.07	**6.12**	**0.0187**	0.000952 J	**8.70**	0.0565	<0.002	0.00909	0.000874 J	**13.0**	0.0529	0.000606 J
August-08	14.20	7.40	6.80	**6.36**	**<0.02**	<0.01	**10.9**	0.0440	<0.002	NA	NA	NA	NA	NA
November-08	14.20	8.65	5.55	**6.32**	<0.004	0.000546 J	**8.16**	0.0331	<0.002	NA	NA	NA	NA	NA
February-09	14.20	8.05	6.15	**6.45**	<0.004	<0.001	**12.4**	0.0441	<0.002	0.00243 J	<0.001	**14.2**	0.0467	<0.002
May-09	14.20	7.17	7.03	**6.17**	<0.004	0.000314 JN	**12.4**	0.0492 N	<0.002	NA	NA	NA	NA	NA
August-09	14.20	8.35	5.85	**6.23**	**<0.02**	0.00101	**9.62**	0.0319	0.000938 J	0.00236 J	0.000630 J	**12.0**	0.0410	0.000941 J
December-09	14.20	8.43	5.77	**6.08**	<0.004	<0.002	**17.3**	0.0554	<0.002	<0.004	<0.002	**16.3 E**	0.0543 N	<0.002
February-10	14.20	7.05	7.15	**6.33**	<0.004	<0.001	**15.4**	0.058	<0.002	NA	NA	NA	NA	NA
BA-09A														
May-08	11.10	0.65	10.45	6.97	0.0089 J	0.000578 J	0.0475	<0.002	<0.002	NA	NA	NA	NA	NA
August-08	11.10	1.94	9.16	6.76	0.00291 J	0.000555 J	0.0393	<0.002	<0.002	NA	NA	NA	NA	NA
November-08	11.10	1.46	9.64	7.42	0.00329 J	0.00126	0.0323	<0.002	<0.002	NA	NA	NA	NA	NA
February-09	11.10	0.97	10.13	6.94	<0.004	0.000846 J	0.0314	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	11.10	0.88	10.22	6.69	<0.004	0.00125 J	0.0382	0.00160 J	<0.002	NA	NA	NA	NA	NA
August-09	11.10	1.79	9.31	6.50	<0.004	0.00282	0.0372	<0.002	0.000951 J	NA	NA	NA	NA	NA
December-09	11.10	0.90	10.20	6.82	<0.004	<0.002	0.0305 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	11.10	0.60	10.50	7.19	<0.004	0.000504 J	0.0234 N	<0.002	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
					Total Metals					Dissolved				
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
SECOND WATER-BEARING ZONE														
BC-03														
May-08	16.32	5.60	10.72	7.14	0.00605 J	0.000263 J	0.0126	0.00381	<0.002	NA	NA	NA	NA	NA
August-08	16.32	6.91	9.41	6.92	<0.004	0.00154	0.0274	0.00293	<0.002	NA	NA	NA	NA	NA
November-08	16.32	6.89	9.43	7.36	0.00309 J	0.00136	0.0230	0.00298	<0.002	NA	NA	NA	NA	NA
February-09	16.32	5.43	10.89	7.55	<0.004	<0.001	0.0016 J	0.000895 J	<0.002	NA	NA	NA	NA	NA
May-09	16.32	5.11	11.21	7.19	<0.004	0.00218	0.0170	0.00352	<0.002	NA	NA	NA	NA	NA
August-09	16.32	7.51	8.81	7.15	<0.004	0.000948 J	0.0246	0.00147 J	0.000937 J	NA	NA	NA	NA	NA
December-09	16.32	5.49	10.83	7.05	<0.004	<0.002	0.0124 N	0.000822 JN	<0.002	NA	NA	NA	NA	NA
February-10	16.32	3.65	12.67	7.46	<0.004	0.000221 J	0.00138 JN	0.00146 JN	<0.002	NA	NA	NA	NA	NA
BC-07														
May-08	11.37	3.35	8.02	7.06	<0.01	0.000407 J	0.115	0.00309	<0.002	NA	NA	NA	NA	NA
August-08	11.37	3.89	7.48	6.83	<0.004	0.00129	0.0967	0.00200 J	<0.002	NA	NA	NA	NA	NA
November-08	11.37	4.12	7.25	7.20	0.00295 J	0.00147	0.0504	0.00329	0.00179 J	NA	NA	NA	NA	NA
February-09	11.37	2.94	8.43	7.44	<0.004	<0.001	0.0310	0.00125 J	<0.002	NA	NA	NA	NA	NA
May-09	11.37	2.80	8.57	7.14	<0.004	<0.002	0.0852	0.00212	<0.002	NA	NA	NA	NA	NA
August-09	11.37	4.84	6.53	7.04	<0.004	0.00104	0.0798	0.00179 J	0.00127 J	NA	NA	NA	NA	NA
December-09	11.37	2.80	8.57	7.01	<0.004	<0.002	0.0451 N	0.00130 JN	<0.002	NA	NA	NA	NA	NA
February-10	11.37	2.24	9.13	7.39	<0.004	0.000163 J	0.0129 N	0.000783 JN	0.000220 J	NA	NA	NA	NA	NA
BC-17														
May-08	15.18	4.49	10.69	6.67	0.00341 J	**0.0434**	0.310	0.00348	<0.002	NA	NA	NA	NA	NA
August-08	15.18	4.64	10.54	6.81	**<0.02**	**0.0767**	0.280	<0.01	<0.002	NA	NA	NA	NA	NA
November-08	15.18	6.43	8.75	7.01	0.00589	**0.0469**	0.227	0.00329	<0.002	NA	NA	NA	NA	NA
February-09	15.18	4.55	10.63	6.95	<0.004	**0.0168**	0.120	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	15.18	4.26	10.92	6.97	<0.004	**0.0165**	0.298	0.00318	<0.002	NA	NA	NA	NA	NA
August-09	15.18	6.68	8.50	6.68	0.00282 J	**0.0296**	0.354	0.00224	0.000956 J	NA	NA	NA	NA	NA
December-09	15.18	4.45	10.73	7.11	<0.004	**0.0232**	0.0790 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	15.18	3.90	11.28	7.06	<0.004	**0.0209**	0.0709 N	0.00138 JN	<0.002	NA	NA	NA	NA	NA
BC-19														
May-08	13.85	4.84	9.01	6.99	0.00345 J	0.000301 J	0.0226	0.00356	<0.002	NA	NA	NA	NA	NA
August-08	13.85	5.60	8.25	6.72	<0.004	0.000915 J	0.0418	0.00324	<0.002	NA	NA	NA	NA	NA
November-08	13.85	5.56	8.29	7.19	<0.004	0.00101	0.0400	0.00309	<0.002	NA	NA	NA	NA	NA
February-09	13.85	4.71	9.14	7.36	<0.004	<0.001	0.00225	0.00112 J	<0.002	NA	NA	NA	NA	NA
May-09	13.85	4.61	9.24	6.94	<0.004	<0.002	0.0132	0.00264	<0.002	NA	NA	NA	NA	NA
August-09	13.85	6.55	7.30	6.90	<0.004	0.000885 J	0.0345	0.00199 J	0.000937 J	NA	NA	NA	NA	NA
December-09	13.85	4.95	8.90	7.06	<0.004	<0.002	0.0035 N	0.00105 JN	<0.002	NA	NA	NA	NA	NA
February-10	13.85	4.02	9.83	7.26	<0.004	0.000185 J	0.00119 JN	0.00104 JN	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
					Total Metals					Dissolved				
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
SECOND WATER-BEARING ZONE														
BC-21R														
May-08	15.28	5.17	10.11	6.75	0.00588 J	<0.001	0.0803	0.00839	<0.002	NA	NA	NA	NA	NA
August-08	15.28	5.76	9.52	6.84	**<0.02**	<0.01	0.160	<0.01	<0.002	NA	NA	NA	NA	NA
November-08	15.28	7.03	8.25	7.32	<0.004	0.00088 J	0.0446	0.00451	<0.002	NA	NA	NA	NA	NA
February-09	15.28	5.66	9.62	7.21	<0.004	<0.001	0.00717	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	15.28	4.88	10.40	6.81	<0.004	<0.002	0.00628	0.00252	<0.002	NA	NA	NA	NA	NA
August-09	15.28	7.92	7.36	6.75	<0.004	0.000768 J	0.0763	0.00265	0.000935 J	NA	NA	NA	NA	NA
December-09	15.28	5.56	9.72	7.03	<0.004	<0.002	0.00886 N	0.000685 JN	<0.002	NA	NA	NA	NA	NA
February-10	15.28	4.01	11.27	7.24	<0.004	0.000162 J	0.00642 N	0.000979 JN	<0.002	NA	NA	NA	NA	NA
BC-25														
May-08	15.73	6.33	9.40	6.81	0.00351 J	0.000474 J	0.293	0.00169 J	<0.002	NA	NA	NA	NA	NA
August-08	15.73	6.88	8.85	7.01	**<0.02**	<0.01	0.294	<0.01	<0.002	**<0.02**	<0.01	0.307	<0.01	0.000188 J
November-08	15.73	7.89	7.84	7.00	0.00172 J	0.000529 J	0.237	0.00118 J	<0.002	NA	NA	NA	NA	NA
February-09	15.73	6.74	8.99	7.10	<0.004	<0.001	0.0364	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	15.73	6.01	9.72	6.80	<0.004	<0.002	**0.781**	0.00321	<0.002	NA	NA	NA	NA	NA
August-09	15.73	8.74	6.99	6.95	<0.004	0.000870 J	0.202	0.00138 J	0.000931 J	NA	NA	NA	NA	NA
December-09	15.73	6.71	9.02	6.95	<0.004	<0.002	0.181 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	15.73	5.02	10.71	7.32	<0.004	0.000153 J	0.00641 N	<0.002	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				6.5-8.5	0.010	0.015	0.51	0.073	0.0020	0.010	0.015	0.51	0.073	0.0020
THIRD WATER-BEARING ZONE														
BA-03A														
May-08	14.76	1.86	12.90	8.16	0.00523 J	0.00312	0.0329	0.00408	<0.002	NA	NA	NA	NA	NA
August-08	14.76	2.32	12.44	8.42	**<0.02**	0.00397 J	0.0395	<0.01	<0.002	<0.00323	<0.00343	0.0369	<0.00118	0.000346 J
November-08	14.76	2.20	12.56	8.43	<0.004	0.00372	0.0388	0.00223	<0.002	NA	NA	NA	NA	NA
February-09	14.76	1.76	13.00	**8.81**	<0.004	0.00191	0.0400	<0.003	<0.002	NA	NA	NA	NA	NA
May-09	14.76	1.74	13.02	6.84	<0.004	**0.0640 N**	0.166	0.00768 N	<0.002	0.00194 J	0.000412 J	0.0617	<0.002	<0.002
August-09	14.76	3.00	11.76	8.18	<0.004	**0.0278**	0.0836	0.00413	0.000997 J	0.00157 J	0.000824 J	0.0529	0.000800 J	0.000941 J
December-09	14.76	1.90	12.86	7.58	<0.004	<0.002	0.0366	<0.002	<0.002	NA	NA	NA	NA	NA
February-10	14.76	1.80	12.96	8.39	<0.004	<0.001	0.0238	<0.002	<0.002	NA	NA	NA	NA	NA
BA-05A														
May-08	14.42	3.49	10.93	7.21	0.00559 J	<0.001	0.0430	0.0501	<0.002	NA	NA	NA	NA	NA
August-08	14.42	3.78	10.64	7.43	**<0.02**	<0.01	0.0279	<0.01	<0.002	NA	NA	NA	NA	NA
November-08	14.42	3.69	10.73	7.50	0.00226 J	0.000869 J	0.0255	0.00162 J	<0.002	NA	NA	NA	NA	NA
February-09	14.42	3.29	11.13	7.52	<0.004	<0.001	0.00765	<0.003	<0.002	NA	NA	NA	NA	NA
May-09	14.42	3.22	11.20	7.16	<0.004	<0.002	0.00258	0.00200 N	<0.002	NA	NA	NA	NA	NA
August-09	14.42	4.35	10.07	7.25	<0.004	0.000936 J	0.0275	0.000768 J	0.000934 J	NA	NA	NA	NA	NA
December-09	14.42	3.32	11.10	6.82	<0.004	<0.002	0.0248	<0.002	<0.002	NA	NA	NA	NA	NA
February-10	14.42	3.06	11.36	7.38	<0.004	<0.001	0.012	<0.002	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				6.5-8.5	0.010	0.015	0.51	0.073	0.0020	0.010	0.015	0.51	0.073	0.0020

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
					Total Metals					Dissolved				
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
THIRD WATER-BEARING ZONE														
BB-01														
May-08	15.75	2.90	12.85	**10.09**	0.00867 J	0.00825	0.00808	0.00155 J	<0.002	NA	NA	NA	NA	NA
August-08	15.75	3.58	12.17	**9.83**	<0.004	0.00920	0.00787	0.000939 JB	<0.002	NA	NA	NA	NA	NA
November-08	15.75	3.29	12.46	**10.53**	0.00626	0.00783	0.00576	0.00210	<0.002	NA	NA	NA	NA	NA
February-09	15.75	2.80	12.95	**10.11**	0.00282 J	0.00738	0.00554	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	15.75	2.86	12.89	**10.10**	0.00319 J	0.00499	0.00493	0.00281	<0.002	NA	NA	NA	NA	NA
August-09	15.75	4.10	11.65	**9.66**	0.00442	0.00952	0.00687	0.00201	0.000938 J	NA	NA	NA	NA	NA
December-09	15.75	2.96	12.79	**9.75**	0.00235 J	0.00354	0.00384	0.000723 J	<0.002	NA	NA	NA	NA	NA
February-10	15.75	2.79	12.96	**10.31**	0.00319 J	0.00591	0.00421 N	0.00104 JN	<0.002	NA	NA	NA	NA	NA
BA-01A														
May-08	15.03	4.34	10.69	7.27	<0.01	0.00126	0.0413	0.0012 J	<0.002	NA	NA	NA	NA	NA
August-08	15.03	4.81	10.22	7.18	**<0.02**	<0.01	0.0173	<0.01	<0.002	NA	NA	NA	NA	NA
November-08	15.03	4.84	10.19	7.45	0.00532	0.000817 J	0.0248	0.00219	<0.002	NA	NA	NA	NA	NA
February-09	15.03	4.33	10.70	7.58	0.00397 J	<0.001	0.00679	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	15.03	4.26	10.77	7.29	0.00341 J	<0.002	0.00674	0.00129 J	<0.002	NA	NA	NA	NA	NA
August-09	15.03	5.38	9.65	7.13	0.00451	0.000999 J	0.0223	<0.002	0.000930 J	NA	NA	NA	NA	NA
December-09	15.03	4.50	10.53	7.50	0.00490	<0.002	0.0175 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	15.03	4.12	10.91	7.65	0.00417	0.000339 J	0.00660 N	<0.002	0.000237 J	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**
WATER WELLS														
(b) (6) Well														
May-08	NA	NA	NA	8.09	**0.0108**	0.00261	0.0231	<0.002	<0.002	NA	NA	NA	NA	NA
August-08	NA	NA	NA	8.07	<0.004	0.00290	0.0235	<0.002	<0.002	NA	NA	NA	NA	NA
November-08	NA	NA	NA	**8.61**	0.00217 J	0.00279	0.0206	<0.002	<0.002	NA	NA	NA	NA	NA
February-09	NA	NA	NA	8.22	<0.004	0.00191	0.0230	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	NA	NA	NA	6.84	<0.004	0.00167 J	0.0209	0.00210	<0.002	NA	NA	NA	NA	NA
August-09	NA	NA	NA	7.73	<0.004	0.00327	0.0220	0.000961 J	0.000934 J	NA	NA	NA	NA	NA
December-09	NA	NA	NA	7.81	<0.004	0.00184 J	0.0202 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**8.60**	<0.004	0.00292	0.0203 N	<0.002	<0.002	NA	NA	NA	NA	NA
WW-04														
May-08	NA	NA	NA	8.50	0.00469 J	0.00158	0.00248	<0.002	<0.002	NA	NA	NA	NA	NA
August-08	NA	NA	NA	**8.60**	0.00129 J	0.000383 J	0.00292	<0.002	<0.002	NA	NA	NA	NA	NA
November-08	NA	NA	NA	**9.32**	<0.004	0.000606 J	0.00318	0.000701 J	<0.002	NA	NA	NA	NA	NA
February-09	NA	NA	NA	**8.73**	<0.004	<0.001	0.00231	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	NA	NA	NA	**8.68**	<0.004	0.000549 J	0.00217	0.00126 J	<0.002	NA	NA	NA	NA	NA
August-09	NA	NA	NA	8.27	<0.004	0.00177	0.00421	<0.002	0.000931 J	NA	NA	NA	NA	NA
December-09	NA	NA	NA	7.73	<0.004	<0.002	0.00254 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**9.10**	<0.004	<0.001	0.00297 N	<0.002	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**

TABLE 5
HISTORICAL GROUNDWATER MONITORING SUMMARY
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUSISANA
AGENCY INTEREST NO. 2328

Monitoring/Sampling Period: Past 8 Quarters

Monitoring/ Sample Well No. & Date	Potentiometric Data			Groundwater Analytical Data										
					Total Metals					Dissolved				
	TOC Elevation (ft-NGVD)	Depth to Water (feet)	Corrected GW Elev. (ft-NGVD)	pH Standard Unit	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thallium (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Thalluim (mg/L)
WATER WELLS														
WW-09														
May-08	NA	NA	NA	**8.66**	0.00597 J	0.000515 J	0.0157	<0.002	<0.002	NA	NA	NA	NA	NA
August-08	NA	NA	NA	8.19	0.00182 J	0.0103	0.0167	0.000775 JB	<0.002	NA	NA	NA	NA	NA
November-08	NA	NA	NA	**9.00**	<0.004	0.00102	0.0161	0.00216	<0.002	NA	NA	NA	NA	NA
February-09	NA	NA	NA	7.61	<0.004	<0.001	0.0144	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	NA	NA	NA	**8.54**	<0.004	<0.002	0.0163	0.00277	<0.002	NA	NA	NA	NA	NA
August-09	NA	NA	NA	8.03	<0.004	0.00110	0.0177	0.00709	0.00131 J	NA	NA	NA	NA	NA
December-09	NA	NA	NA	7.18	<0.004	<0.002	0.0139 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	NA	NA	NA	8.29	<0.004	0.000381 J	0.0144 N	<0.002	<0.002	NA	NA	NA	NA	NA
North Well														
May-08	NA	NA	NA	**8.91**	<0.01	0.00144	0.00308	<0.002	<0.002	NA	NA	NA	NA	NA
August-08	NA	NA	NA	**9.23**	**<0.02**	<0.01	0.00214 J	<0.01	<0.002	NA	NA	NA	NA	NA
November-08	NA	NA	NA	**9.29**	<0.004	0.00147	0.00359	<0.002	<0.002	NA	NA	NA	NA	NA
February-09	NA	NA	NA	**9.19**	<0.004	<0.001	0.00272	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	NA	NA	NA	**9.06**	<0.004	<0.002	0.00305	0.00123 J	<0.002	NA	NA	NA	NA	NA
August-09	NA	NA	NA	**8.75**	<0.004	0.00127	0.00455	<0.002	0.000929 J	NA	NA	NA	NA	NA
December-09	NA	NA	NA	8.13	<0.004	<0.002	0.00268 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**9.10**	<0.004	0.000732 J	0.00324 N	<0.002	<0.002	NA	NA	NA	NA	NA
South Well														
May-08	NA	NA	NA	7.11	<0.01	0.000321 J	0.00358	<0.002	<0.002	NA	NA	NA	NA	NA
August-08	NA	NA	NA	**8.85**	0.00197 J	0.000583 J	0.00334	<0.002	<0.002	NA	NA	NA	NA	NA
November-08	NA	NA	NA	**9.48**	<0.004	0.000665 J	0.00382	<0.002	<0.002	NA	NA	NA	NA	NA
February-09	NA	NA	NA	**9.26**	<0.004	<0.001	0.00307	<0.002	<0.002	NA	NA	NA	NA	NA
May-09	NA	NA	NA	**9.03**	<0.004	<0.002	0.00316	0.00141 J	<0.002	NA	NA	NA	NA	NA
August-09	NA	NA	NA	**8.85**	<0.004	0.000807 J	0.00479	<0.002	0.000932 J	NA	NA	NA	NA	NA
December-09	NA	NA	NA	**9.32**	<0.004	<0.002	0.00378 N	<0.002 N	<0.002	NA	NA	NA	NA	NA
February-10	NA	NA	NA	**9.42**	<0.004	0.000213 J	0.00364 N	<0.002	<0.002	NA	NA	NA	NA	NA
SITE CLEANUP or LDEQ RECAP SS				**6.5-8.5**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**	**0.010**	**0.015**	**0.51**	**0.073**	**0.0020**

Notes:

1) Top-of-casing (TOC) elevation - (depth to fluid) = Corrected GROUNDWATER (GW) elevation

2) Site specific cleanup standards were found in previous reports for Lead and pH only. The additional screening standards are from the LDEQ RECAP Screening Standards (SS). Screening Standards were provided by the LDEQ.

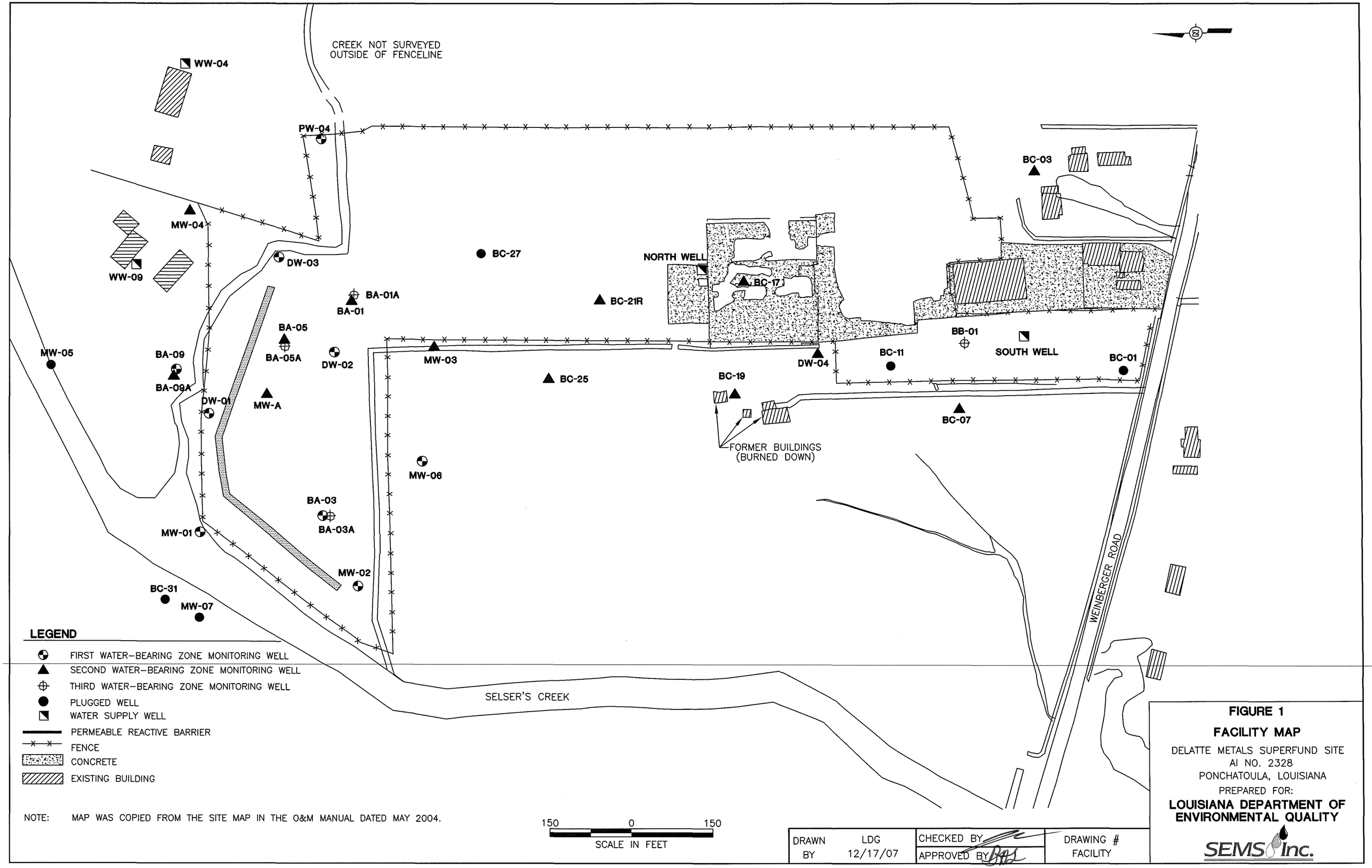
3) The Site Cleanup Standard for pH = 7.0 s.u.; however EPA Drinking Water Standards for pH = 6.5-8.5 s.u. and the EPA Storm Water Discharge Standards for pH=6.0-9.0 s.u are being used for comparison purposes.

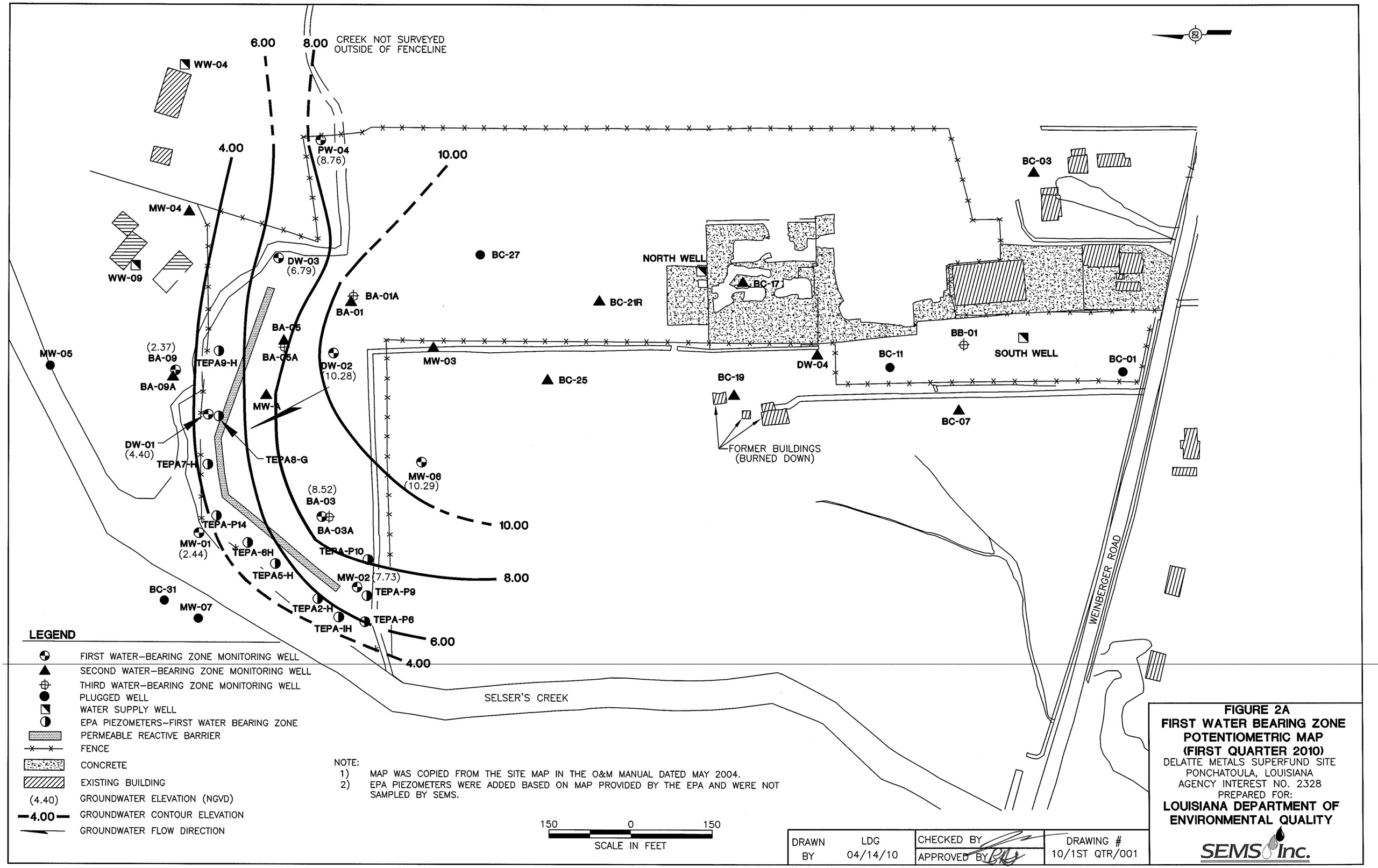
4) Bold Values Exceed Site Cleanup or RECAP SS

5) Reporting Limits from the analytical reports are used for non-detect results

Abrev.: NA = Not Applicable mg/L= milligrams per Liter NF = Not Found
NM = Not Measured NS=Not Sampled J = Flagged by lab due Estimated Value between MDL and PQL
D= Surrogate Recovery Unreportable due to Dilution B/V = Analyte Detected in the associated Method Blank above Rep. Limit
* = >MCL - Result Over Maximum Contamination Limit (MCL) E= Concentrations Exceeding Calibration Rand of Instrument
N = Recovery in the Matrix Spike and Matrix Spike Duplicate exceeded the control limit acceptance criteria

FIGURES


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
PW-04
MW-04
WW-09
DW-03
BC-27
NORTH WELL
BC-17
BC-03
BA-01A
BA-01
BC-21R
BA-05
BA-05A
DW-02
MW-03
BB-01
SOUTH WELL
BC-11
DW-04
BC-01
MW-05
BA-09
BA-09A
DW-01
MW-A
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
150 0 150
SCALE IN FEET
DRAWN BY LDG 12/17/07
CHECKED BY
APPROVED BY
DRAWING # FACILITY
FIGURE 1
FACILITY MAP
DELATTE METALS SUPERFUND SITE
AI NO. 2328
PONCHATOULA, LOUISIANA
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS-FIRST WATER BEARING ZONE
- PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (4.40) GROUNDWATER ELEVATION (NGVD)
- -4.00- GROUNDWATER CONTOUR ELEVATION
- GROUNDWATER FLOW DIRECTION

NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/001

FIGURE 2A
FIRST WATER BEARING ZONE POTENTIOMETRIC MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
(4.92)
WW-09
DW-03
BC-27
NORTH WELL
BC-17
(11.28)
BC-21R
(11.27)
BA-01
(9.13)
BA-01A
(7.15)
BA-05
BA-05A
DW-02
MW-03
(10.02)
BA-09
BA-09A
(10.50)
NU
DW-01
MW-A
(5.83)
MW-05
BC-25
(10.71)
(9.83)
BC-19
DW-04
(10.32)
BC-11
BB-01
SOUTH WELL
BC-01
BC-07
(9.13)
(12.67)
BC-03
12.00
10.00
8.00
6.00
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
MW-01
MW-02
BC-31
MW-07
WEIMBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (4.48) GROUNDWATER ELEVATION (NGVD)
- -3.00- GROUNDWATER CONTOUR ELEVATION
- GROUNDWATER FLOW DIRECTION
- NU = NOT USED FOR CONTOURING

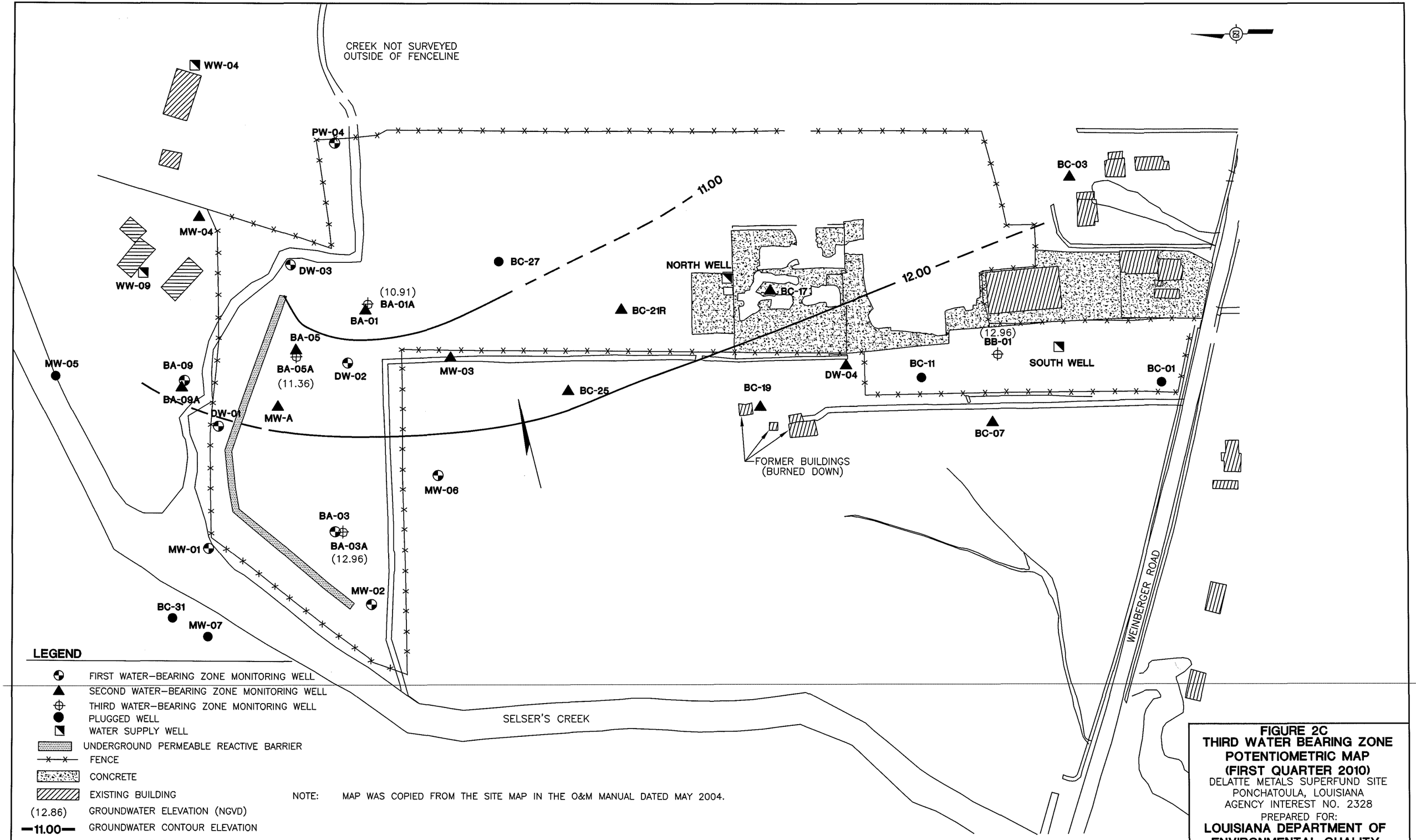
NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/002

FIGURE 2B
SECOND WATER BEARING ZONE POTENTIOMETRIC MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
AI NO. 2328
PONCHATULA, LOUISIANA
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (12.86) GROUNDWATER ELEVATION (NGVD)
- —11.00— GROUNDWATER CONTOUR ELEVATION
- GROUNDWATER FLOW DIRECTION

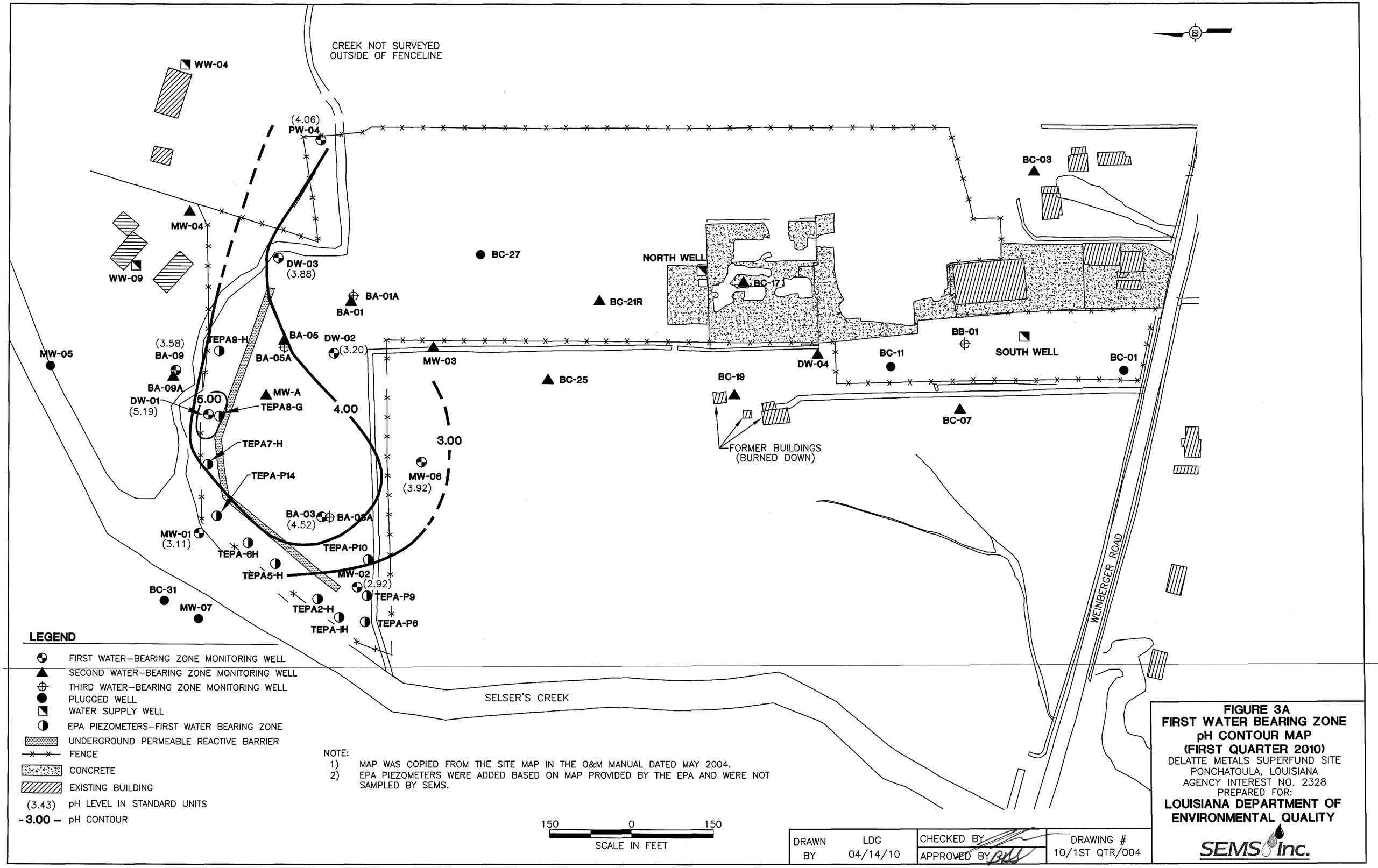
NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/003
		APPROVED BY	

FIGURE 2C
THIRD WATER BEARING ZONE POTENTIOMETRIC MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
(4.06)
PW-04
MW-04
WW-09
DW-03
(3.88)
BC-27
NORTH WELL
BC-17
BC-03
BA-01A
BA-01
BC-21R
(3.58)
BA-09
TEPA9-H
BA-05
BA-05A
DW-02
(3.20)
MW-05
MW-03
BC-25
DW-04
BC-11
BB-01
SOUTH WELL
BC-01
BA-09A
DW-01
(5.19)
5.00
MW-A
TEPA8-G
4.00
BC-19
BC-07
TEPA7-H
3.00
TEPA-P14
MW-06
(3.92)
FORMER BUILDINGS
(BURNED DOWN)
BA-03
(4.52)
BA-03A
MW-01
(3.11)
TEPA-6H
TEPA-P10
TEPA5-H
MW-02
(2.92)
BC-31
MW-07
TEPA2-H
TEPA-P9
TEPA-1H
TEPA-P6
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
EPA PIEZOMETERS-FIRST WATER BEARING ZONE
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
(3.43) pH LEVEL IN STANDARD UNITS
-3.00- pH CONTOUR
NOTE:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.
150 0 150
SCALE IN FEET
DRAWN BY LDG 04/14/10
CHECKED BY
APPROVED BY
DRAWING # 10/1ST QTR/004
FIGURE 3A
FIRST WATER BEARING ZONE
pH CONTOUR MAP
(FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04

PW-04

MW-04
(6.77)

WW-09

DW-03

BC-27

NORTH WELL

BC-17
(7.06)

BA-01A

BA-01
(6.16)

BC-21R
(7.24)

(6.33)
BA-05

7.00

BA-05A

DW-02

MW-03
(6.82)

BB-01

SOUTH WELL

MW-05

BA-09

BA-09A
(7.19)

DW-01

MW-A
(7.39)

BC-25
(7.32)

(7.26)
BC-19

DW-04
(7.88)

BC-11

BC-01

BC-07
(7.39)

FORMER BUILDINGS
(BURNED DOWN)

(7.46)
BC-03

MW-06

BA-03

BA-03A

MW-01

MW-02

BC-31

MW-07

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (7.88) pH LEVEL IN STANDARD UNITS
- pH CONTOUR

NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/005

FIGURE 3B
SECOND WATER BEARING ZONE pH COUNTOUR MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
BC-27
(7.65)
BA-01A
BA-01
BC-21R
NORTH WELL
BC-17
BC-03
9.00
8.00
10.00
BA-05
BA-05A
(7.38)
BA-09
BA-09A
MW-05
DW-02
MW-03
BC-25
DW-04
BC-11
(10.31)
BB-01
SOUTH WELL
BC-01
BC-19
DW-01
MW-A
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
(8.39)
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (8.39) pH LEVEL IN STANDARD UNITS
- pH CONTOUR

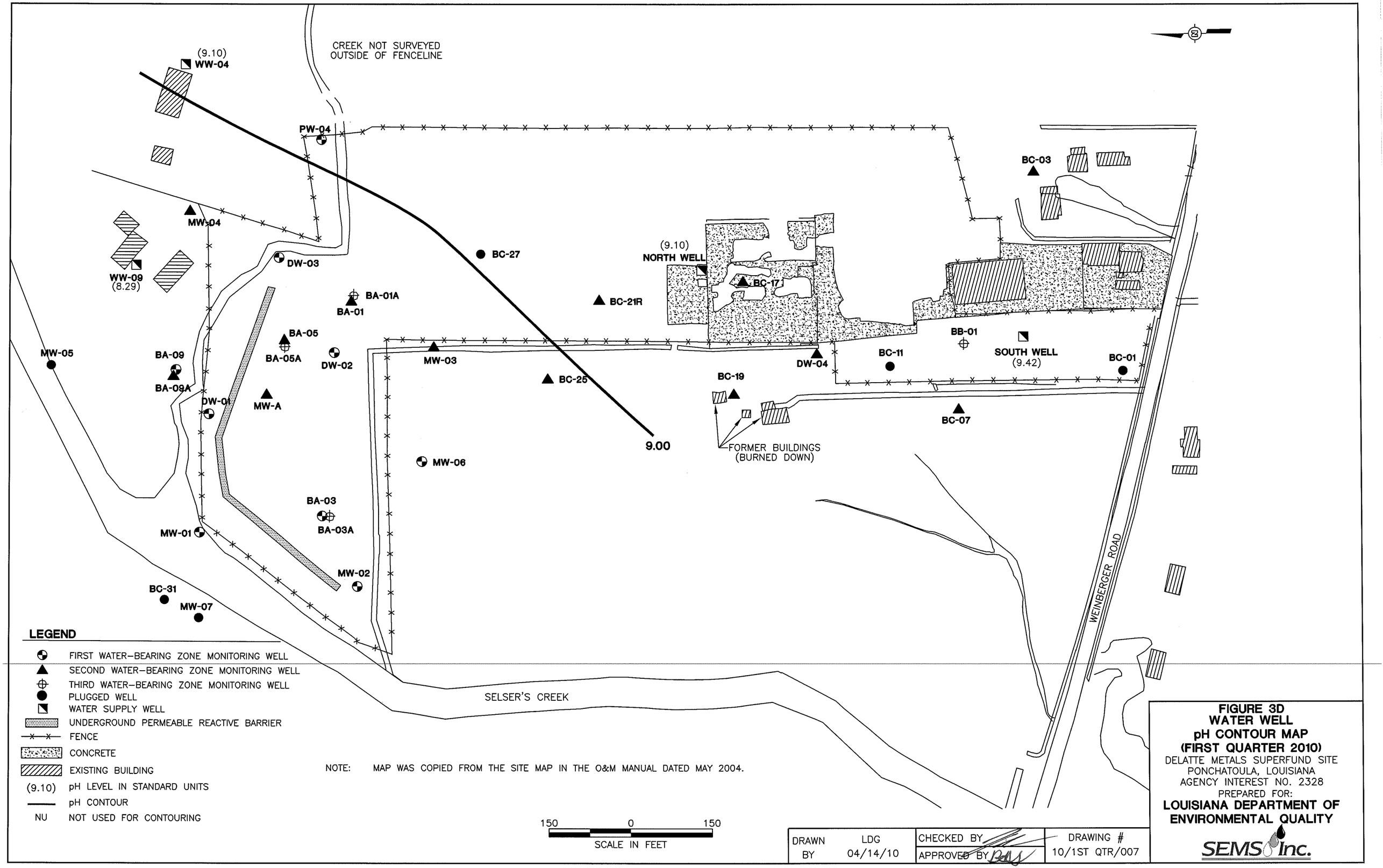
NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/006
		APPROVED BY	

FIGURE 3C
THIRD WATER BEARING ZONE pH CONTOUR MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- (9.10) pH LEVEL IN STANDARD UNITS
- pH CONTOUR
- NU NOT USED FOR CONTOURING

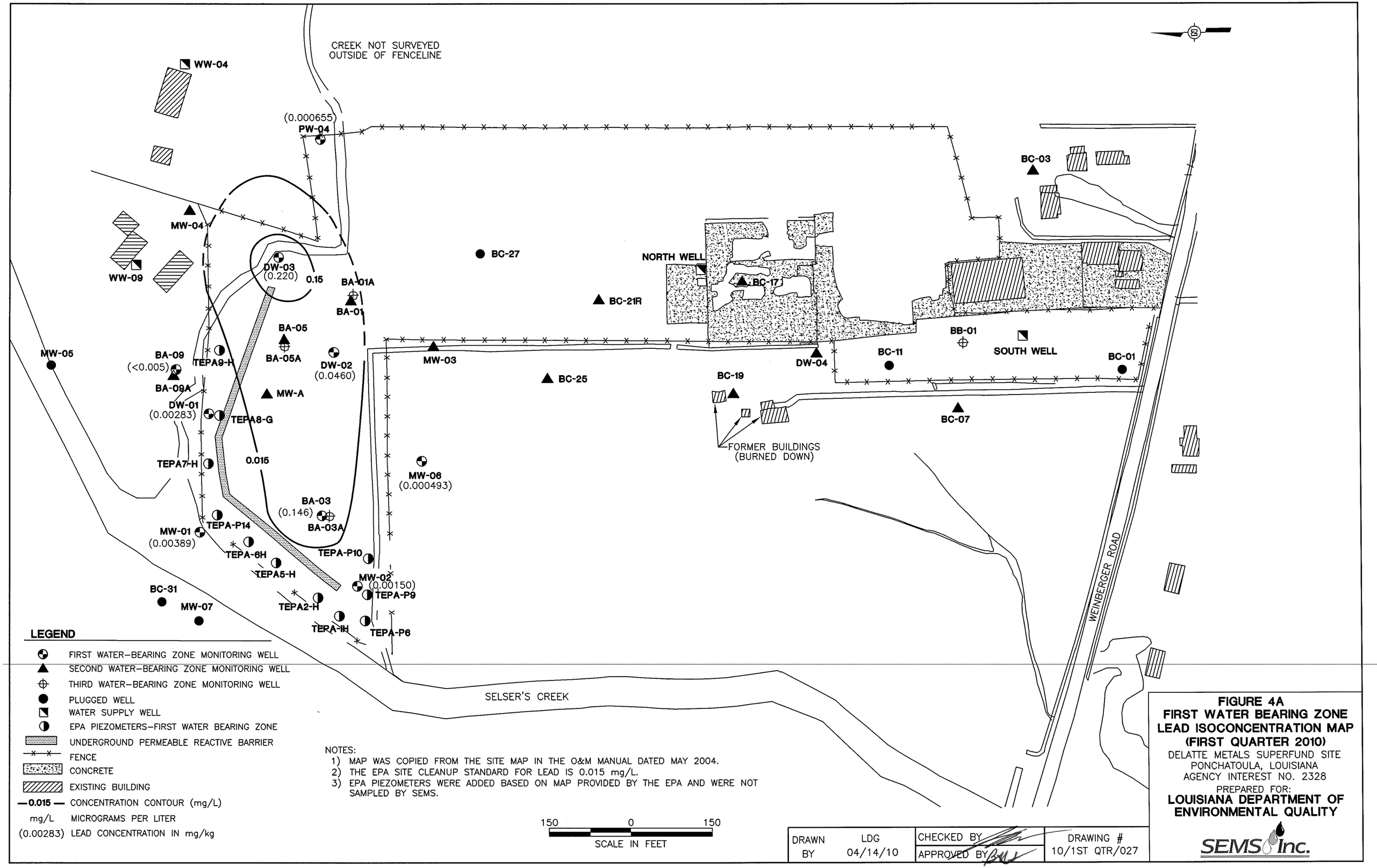
NOTE: MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.

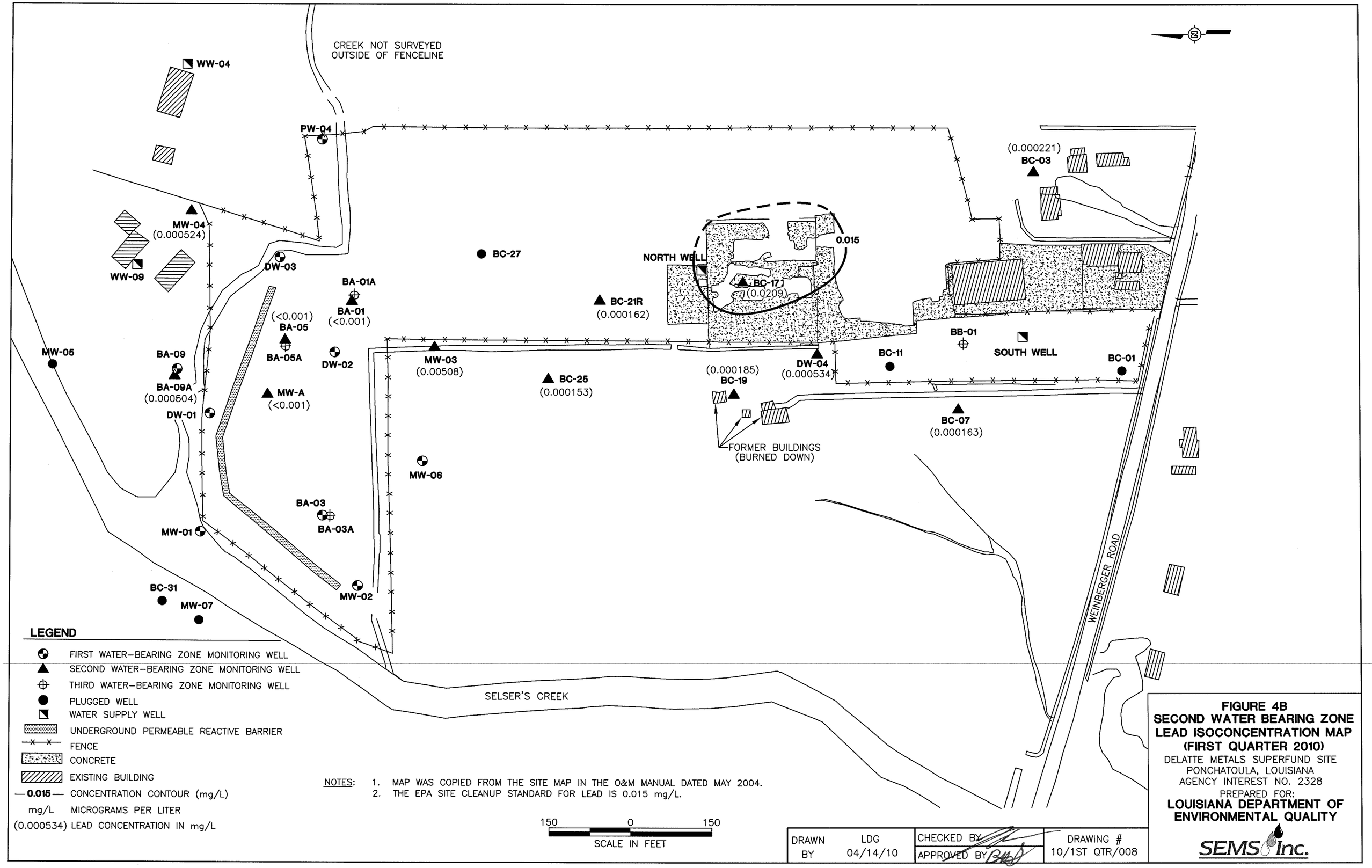
150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/007
		APPROVED BY	

FIGURE 3D
WATER WELL
pH CONTOUR MAP
(FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
(0.000655)
PW-04
MW-04
WW-09
DW-03
(0.220)
0.15
BA-01A
BA-01
BC-27
BC-21R
NORTH WELL
BC-17
BC-03
BB-01
SOUTH WELL
BC-11
BC-01
DW-04
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-05
BA-09
(<0.005)
BA-09A
TEPA9-H
BA-05
BA-05A
DW-02
(0.0460)
MW-A
DW-01
(0.00283)
TEPA8-G
TEPA7-H
0.015
MW-06
(0.000493)
BA-03
(0.146)
BA-03A
MW-01
(0.00389)
TEPA-P14
TEPA-6H
TEPA-P10
TEPA5-H
MW-02
(0.00150)
TEPA-P9
BC-31
MW-07
TEPA2-H
TEPA-1H
TEPA-P6
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
EPA PIEZOMETERS-FIRST WATER BEARING ZONE
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
—0.015— CONCENTRATION CONTOUR (mg/L)
mg/L MICROGRAMS PER LITER
(0.00283) LEAD CONCENTRATION IN mg/kg
NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.
150 0 150
SCALE IN FEET
DRAWN BY LDG 04/14/10
CHECKED BY
APPROVED BY
DRAWING # 10/1ST QTR/027
FIGURE 4A
FIRST WATER BEARING ZONE
LEAD ISOCONCENTRATION MAP
(FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- —0.015— CONCENTRATION CONTOUR (mg/L)
- mg/L MICROGRAMS PER LITER
- (0.000534) LEAD CONCENTRATION IN mg/L

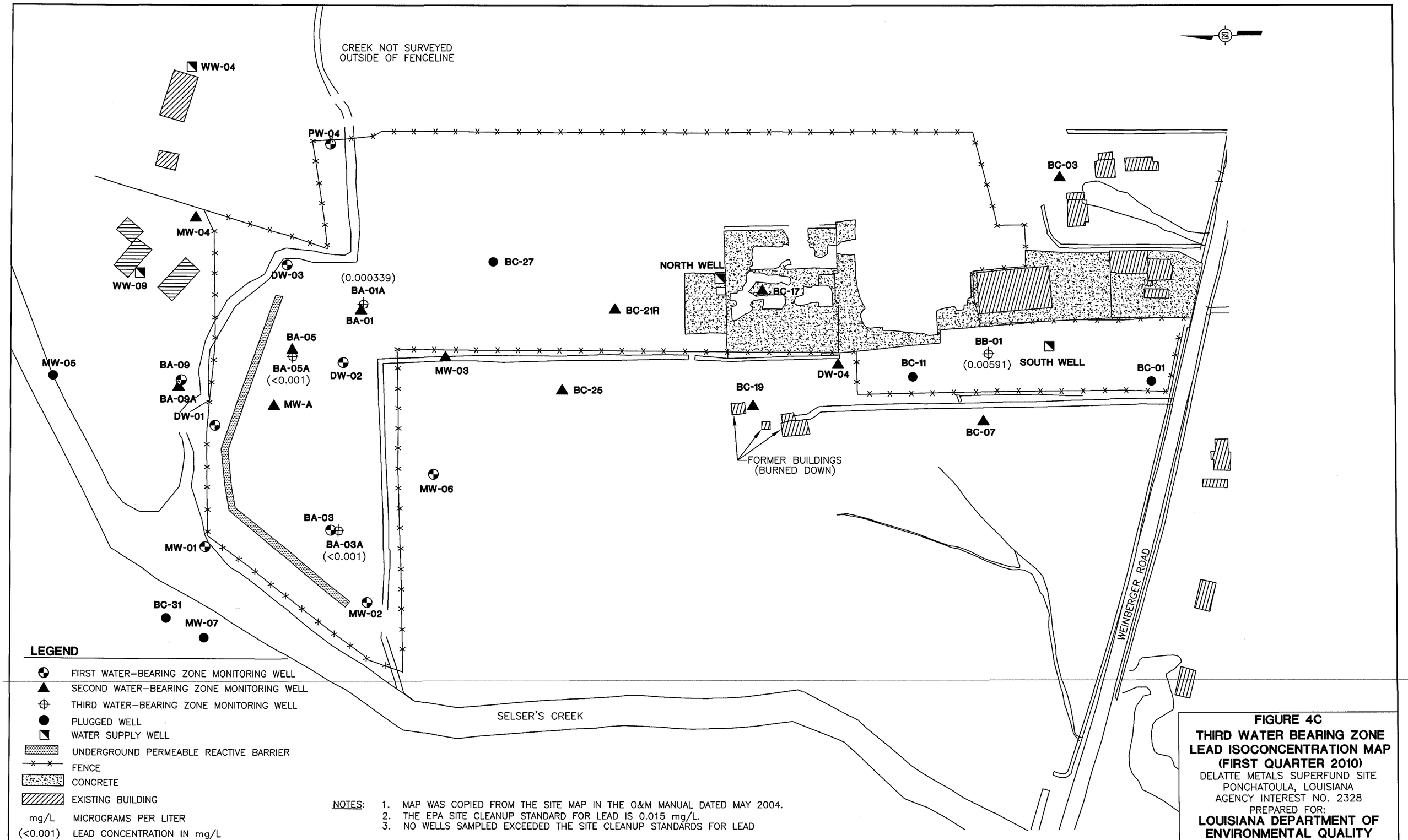
NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/008

FIGURE 4B
SECOND WATER BEARING ZONE LEAD ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MICROGRAMS PER LITER
- (<0.001) — LEAD CONCENTRATION IN mg/L

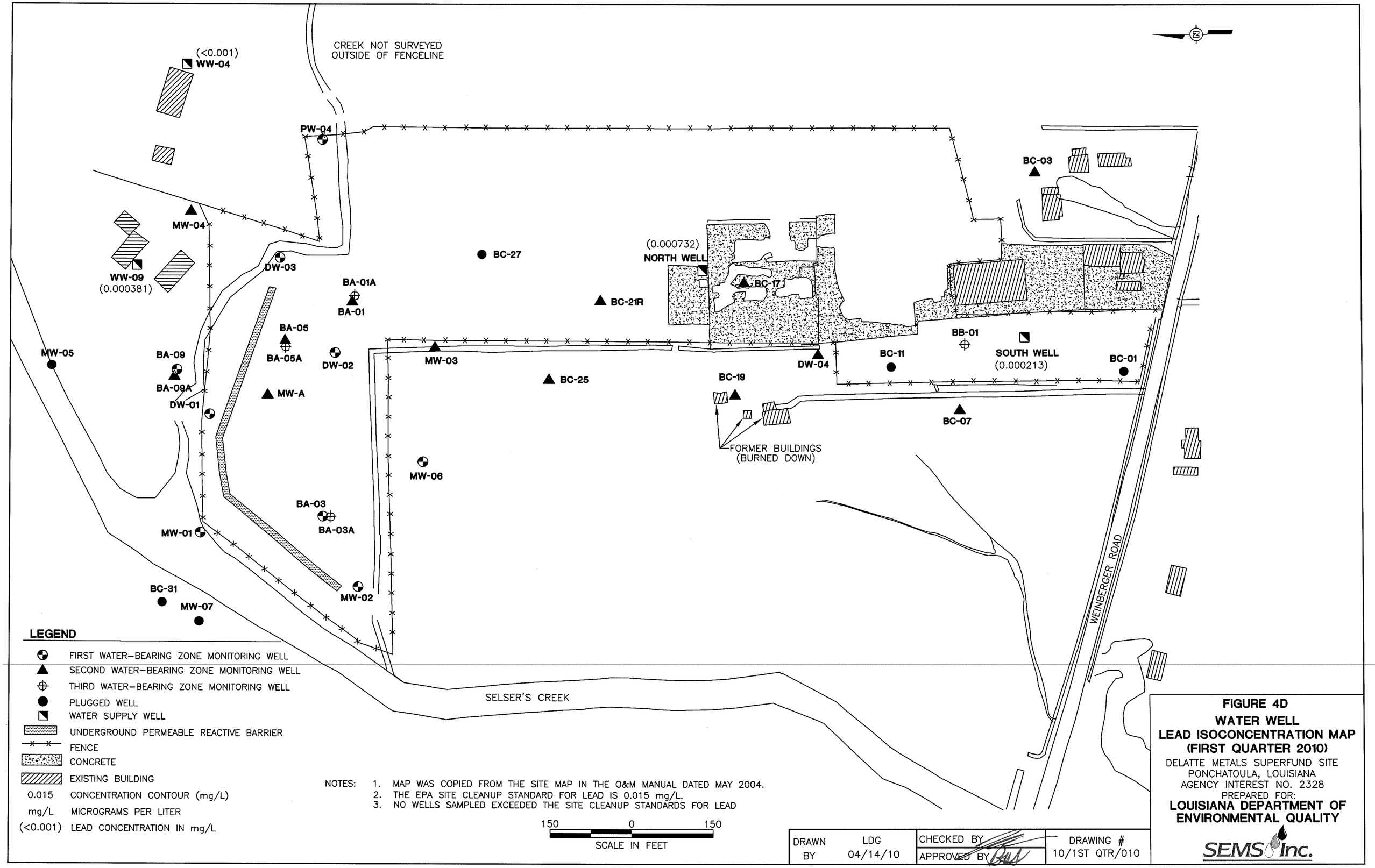
NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE SITE CLEANUP STANDARDS FOR LEAD

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/009
		APPROVED BY	

FIGURE 4C
THIRD WATER BEARING ZONE LEAD ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- 0.015 CONCENTRATION CONTOUR (mg/L)
- mg/L MICROGRAMS PER LITER
- (<0.001) LEAD CONCENTRATION IN mg/L

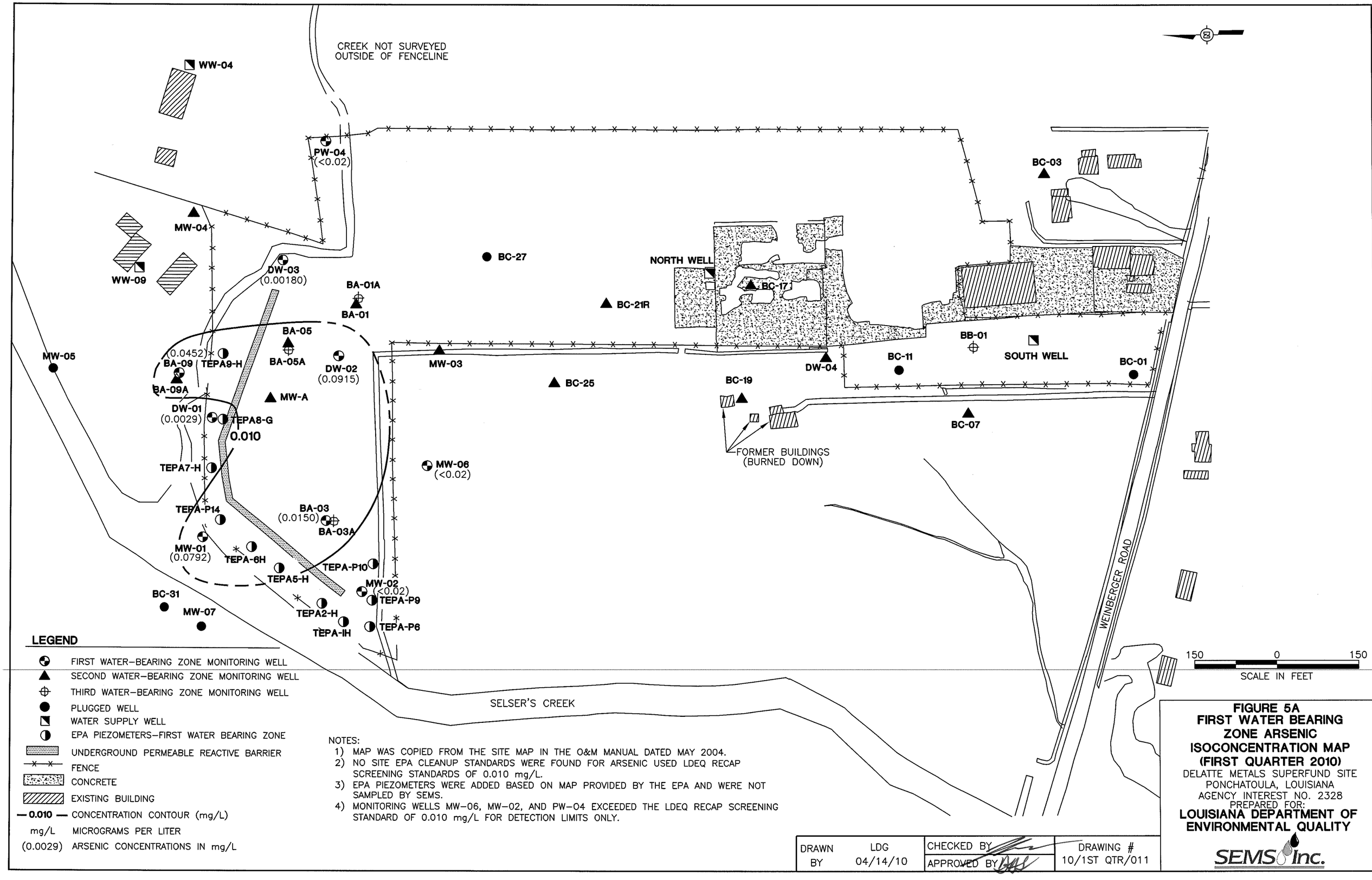
NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. THE EPA SITE CLEANUP STANDARD FOR LEAD IS 0.015 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE SITE CLEANUP STANDARDS FOR LEAD

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/010

FIGURE 4D
WATER WELL
LEAD ISOCONCENTRATION MAP
(FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS-FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- — 0.010 — CONCENTRATION CONTOUR (mg/L)
- mg/L MICROGRAMS PER LITER
- (0.0029) ARSENIC CONCENTRATIONS IN mg/L

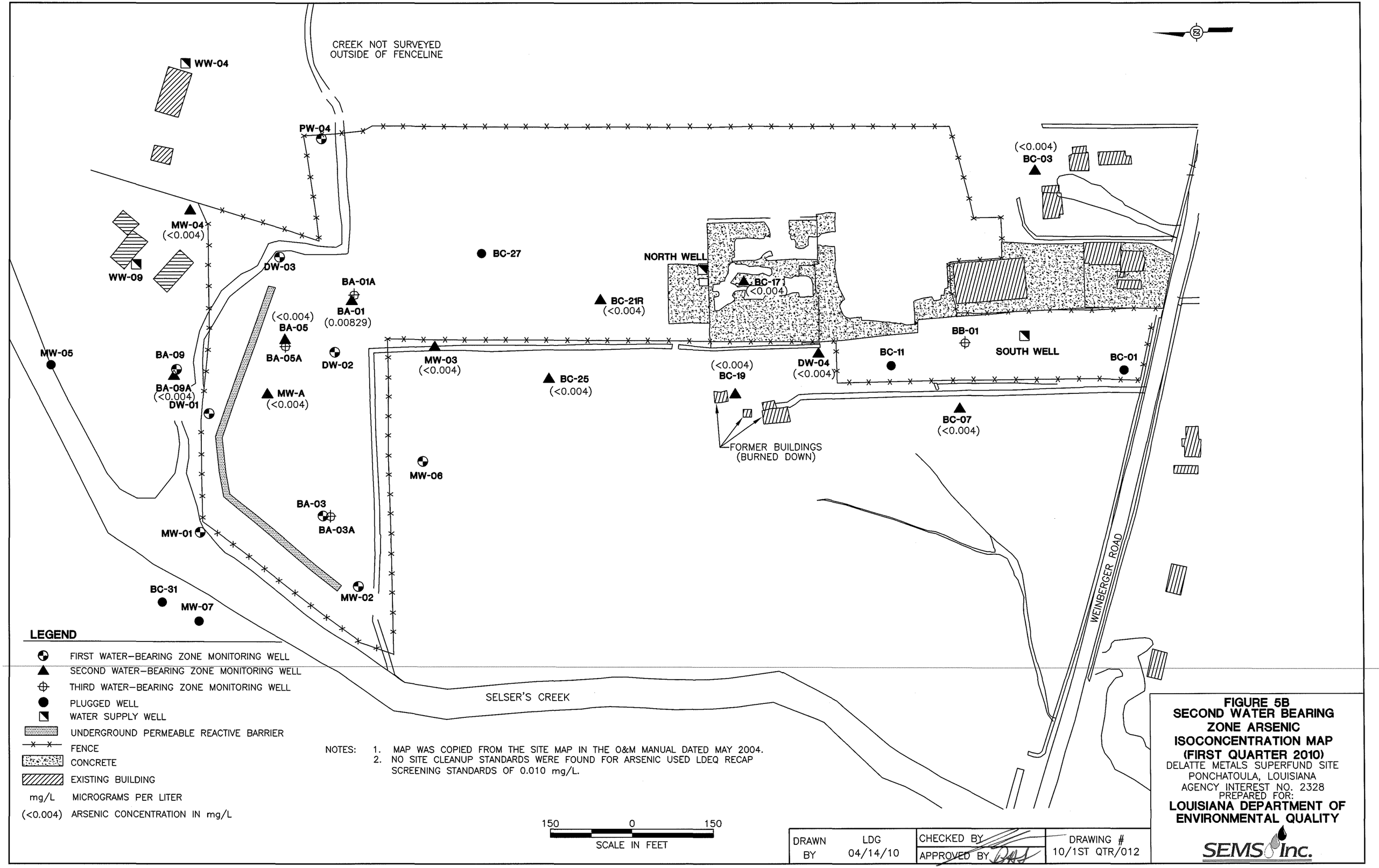
NOTES:

1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR ARSENIC USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.
4) MONITORING WELLS MW-06, MW-02, AND PW-04 EXCEEDED THE LDEQ RECAP SCREENING STANDARD OF 0.010 mg/L FOR DETECTION LIMITS ONLY.

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/011
		APPROVED BY	

FIGURE 5A
FIRST WATER BEARING ZONE ARSENIC ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
PW-04
MW-04
(<0.004)
WW-09
DW-03
BA-01A
BA-01
(0.00829)
BC-27
NORTH WELL
BC-17
(<0.004)
BC-21R
(<0.004)
(<0.004)
BC-03
BB-01
SOUTH WELL
BC-11
BC-01
MW-05
BA-09
BA-09A
(<0.004)
DW-01
BA-05
BA-05A
DW-02
MW-A
(<0.004)
MW-03
(<0.004)
BC-25
(<0.004)
(<0.004)
BC-19
DW-04
(<0.004)
BC-07
(<0.004)
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
MW-01
BC-31
MW-07
MW-02
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
mg/L MICROGRAMS PER LITER
(<0.004) ARSENIC CONCENTRATION IN mg/L
NOTES: 1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR ARSENIC USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.
150 0 150
SCALE IN FEET
DRAWN BY LDG 04/14/10
CHECKED BY
APPROVED BY
DRAWING # 10/1ST QTR/012
FIGURE 5B
SECOND WATER BEARING ZONE ARSENIC ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
(0.00417)
BA-01A
BA-01
BC-27
NORTH WELL
BC-17
BC-21R
BC-03
BB-01
(0.00319)
SOUTH WELL
BC-11
BC-01
DW-04
MW-03
BA-05
BA-05A
(<0.004)
DW-02
MW-05
BA-09
BA-09A
DW-01
MW-A
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
(<0.004)
MW-01
BC-31
MW-07
MW-02
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MICROGRAMS PER LITER
- (<0.004) ARSENIC CONCETRATIONS IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR ARSENIC USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.
3. NO WELLS SAMPLED EXCEEDED LDEQ SCREENING STANDARDS FOR ARSENIC

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/013
		APPROVED BY	

FIGURE 5C
THIRD WATER BEARING ZONE ARSENIC ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
(<0.004)

PW-04

MW-04

WW-09
(<0.004)

DW-03

BA-01A

BA-01

BC-27

BC-21R

(<0.004)
NORTH WELL

BC-17

BC-03

BB-01

SOUTH WELL
(<0.004)

BC-11

BC-01

DW-04

MW-05

BA-09

BA-09A

DW-01

BA-05

BA-05A

DW-02

MW-03

BC-25

BC-19

MW-A

BC-07

FORMER BUILDINGS
(BURNED DOWN)

MW-06

BA-03

BA-03A

MW-01

BC-31

MW-07

MW-02

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MICROGRAMS PER LITER
- (<0.004) ARSENIC CONCETRATIONS IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR ARSENIC USED LDEQ RECAP SCREENING STANDARDS OF 0.010 mg/L.
3. NO WELLS SAMPLED EXCEEDED LDEQ SCREENING STANDARDS FOR ARSENIC

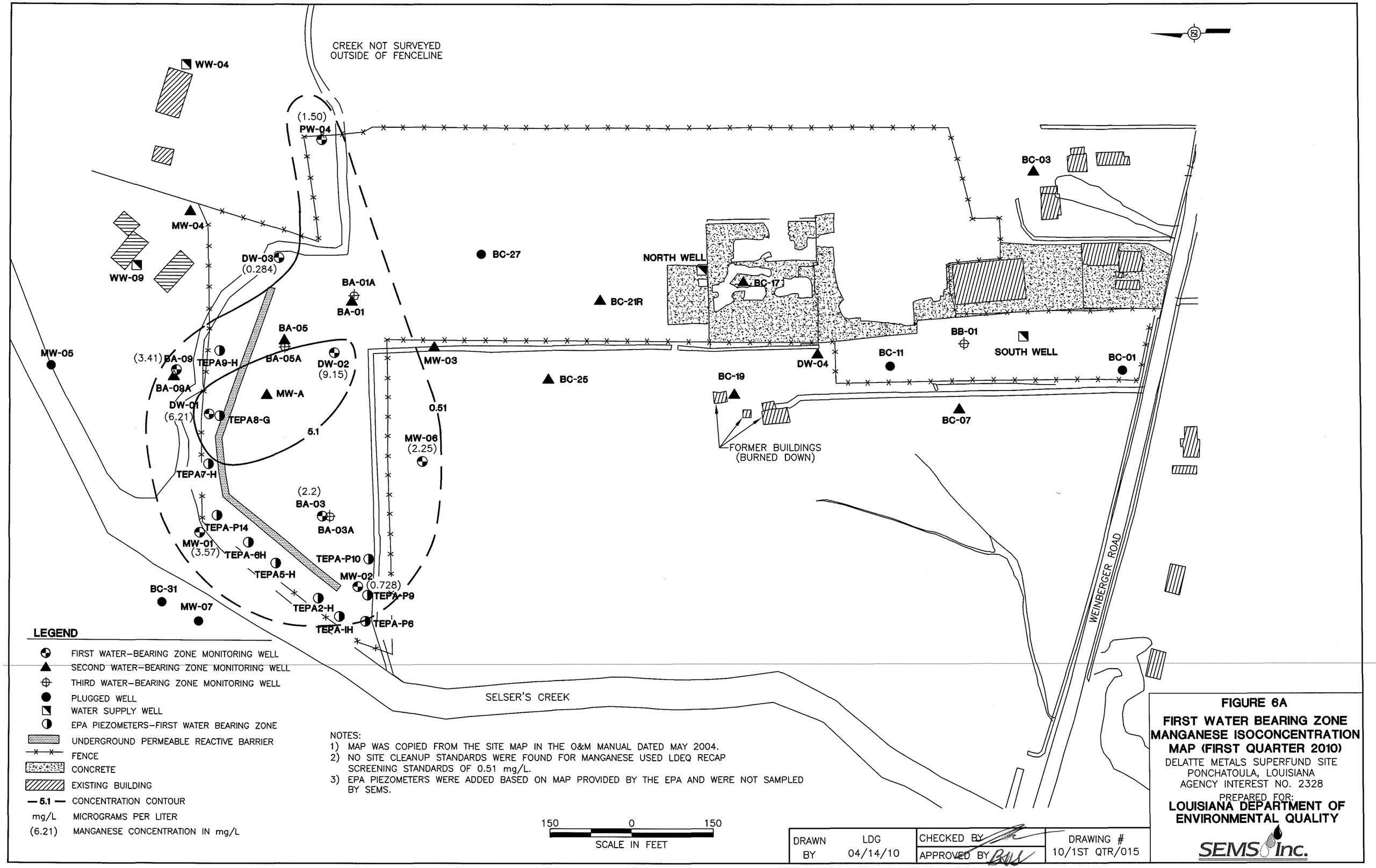
150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/014
		APPROVED BY	

FIGURE 5D
WATER WELL ARSENIC ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS-FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- —5.1— CONCENTRATION CONTOUR
- mg/L MICROGRAMS PER LITER
- (6.21) MANGANESE CONCENTRATION IN mg/L

NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE USED LDEQ RECAP SCREENING STANDARDS OF 0.51 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/015
		APPROVED BY	

FIGURE 6A

FIRST WATER BEARING ZONE MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2010)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

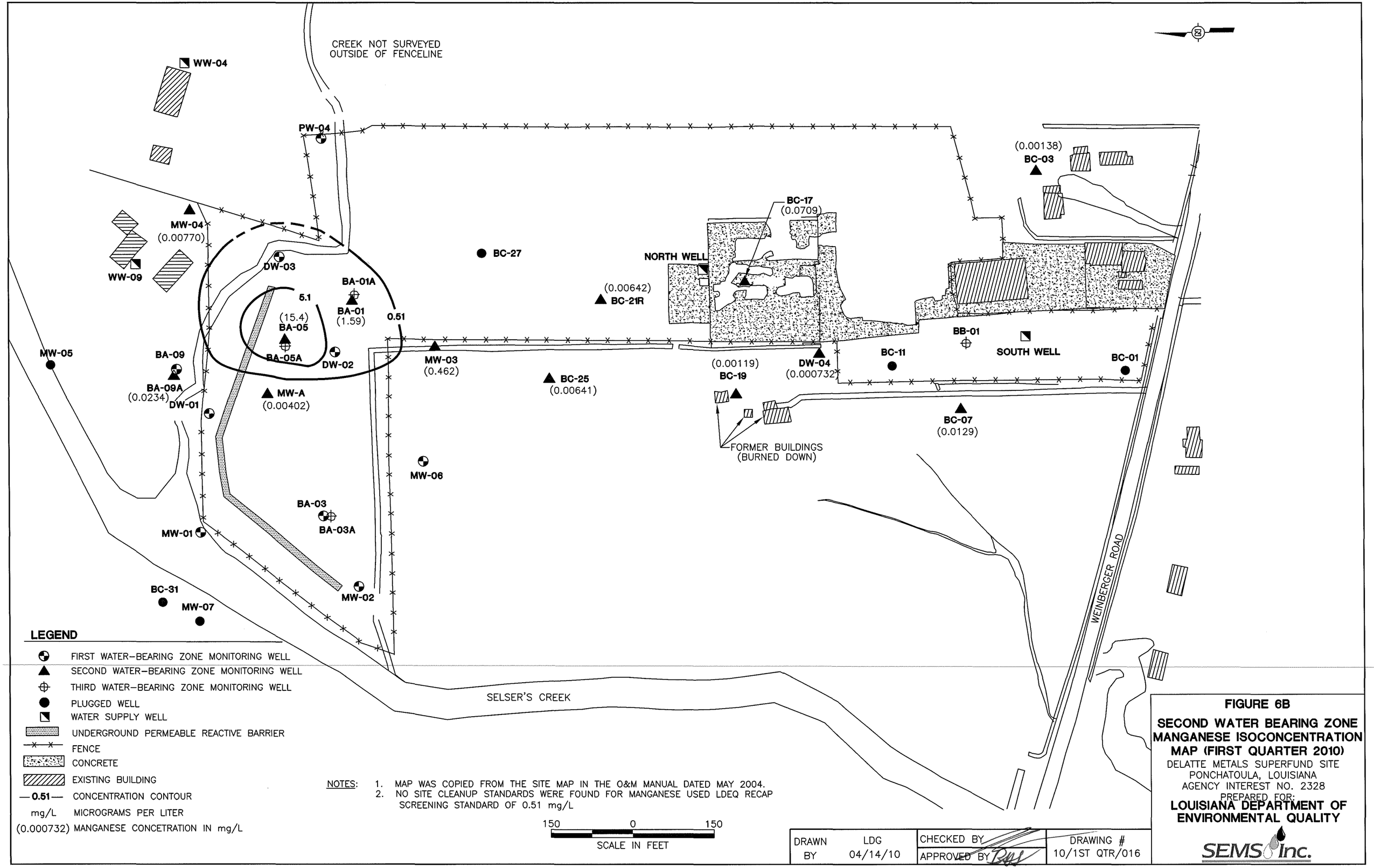


FIGURE 6B

SECOND WATER BEARING ZONE MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2010)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRAWN BY	LDG 04/14/10	CHECKED BY / APPROVED BY	DRAWING # 10/1ST QTR/016

SEMS Inc.

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

WW-04
PW-04
MW-04
WW-09
DW-03
(0.00660)
BA-01A
BA-01
BC-27
NORTH WELL
BC-17
BC-21R
BC-03
BB-01
(0.00421)
SOUTH WELL
BC-11
BC-01
DW-04
MW-05
BA-09
BA-09A
DW-01
BA-05
BA-05A
(0.012)
MW-A
DW-02
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
(0.0238)
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MICROGRAMS PER LITER
- (0.0238) MANGANESE CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE USED LDEQ RECAP SCREENING STANDARD OF 0.51 mg/L
3. NO WELLS SAMPLED EXCEEDING THE LDEQ SCREENING STANDARDS FOR MANGANESE

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/017

FIGURE 6C
THIRD WATER BEARING ZONE MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

(0.00297)
WW-04

CREEK NOT SURVEYED
OUTSIDE OF FENCELINE

PW-04

MW-04

WW-09
(0.0144)

DW-03

BA-01A

BA-01

BC-27

(0.00324)
NORTH WELL

BC-17

BC-21R

BC-03

BB-01

SOUTH WELL
(0.00364)

BC-01

BC-11

DW-04

MW-05

BA-09

BA-09A

DW-01

BA-05

BA-05A

DW-02

MW-A

MW-03

BC-25

BC-19

BC-07

FORMER BUILDINGS
(BURNED DOWN)

MW-06

BA-03

BA-03A

MW-01

MW-02

BC-31

MW-07

WEINBERGER ROAD

SELSER'S CREEK

LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MICROGRAMS PER LITER
- (0.00297) MANGANESE CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE CLEANUP STANDARDS WERE FOUND FOR MANGANESE USED LDEQ RECAP SCREENING STANDARDS OF 0.51 mg/L
3. NO WELLS SAMPLED EXCEEDING THE LDEQ SCREENING STANDARDS FOR MANGANESE

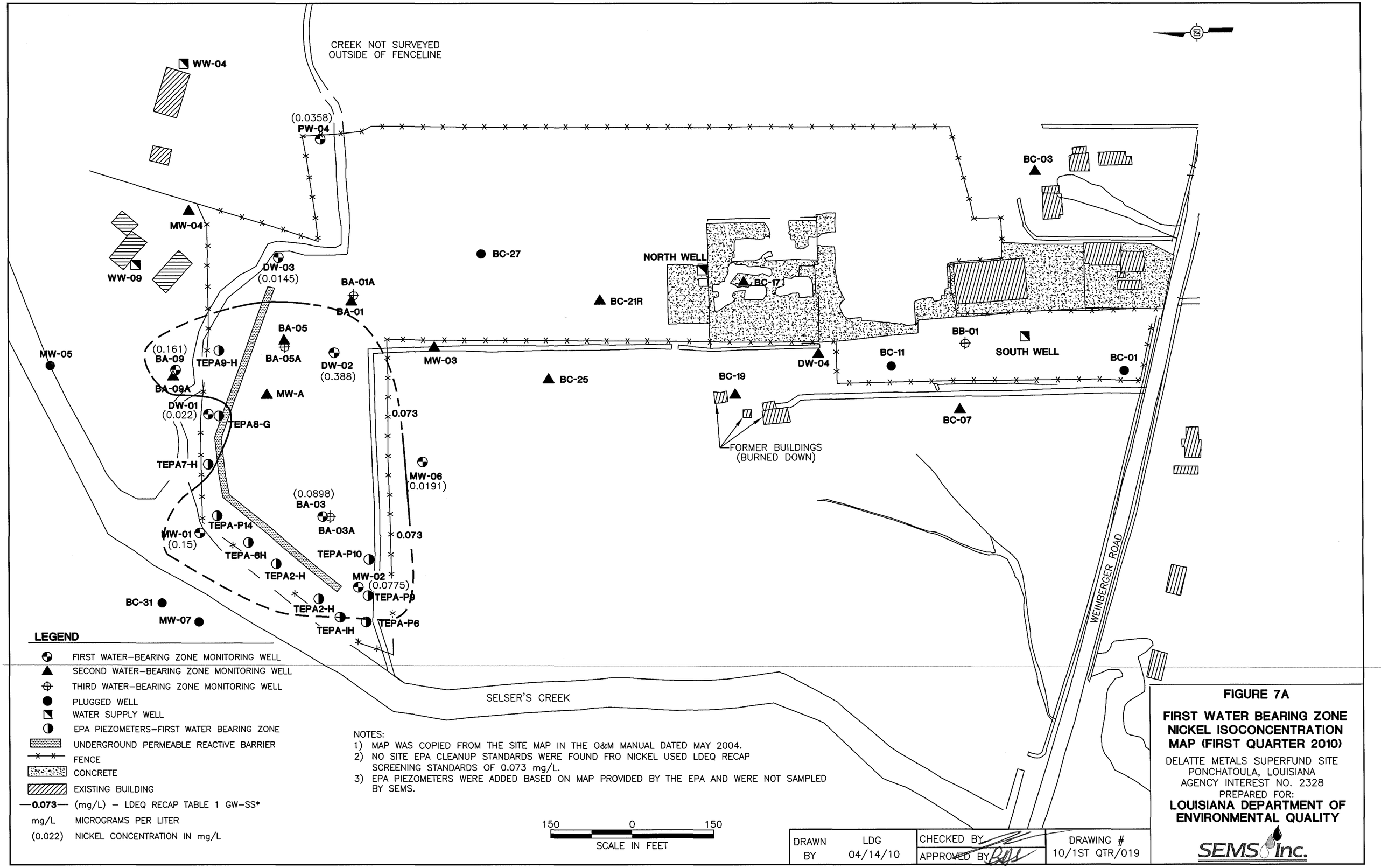
150 0 150
SCALE IN FEET

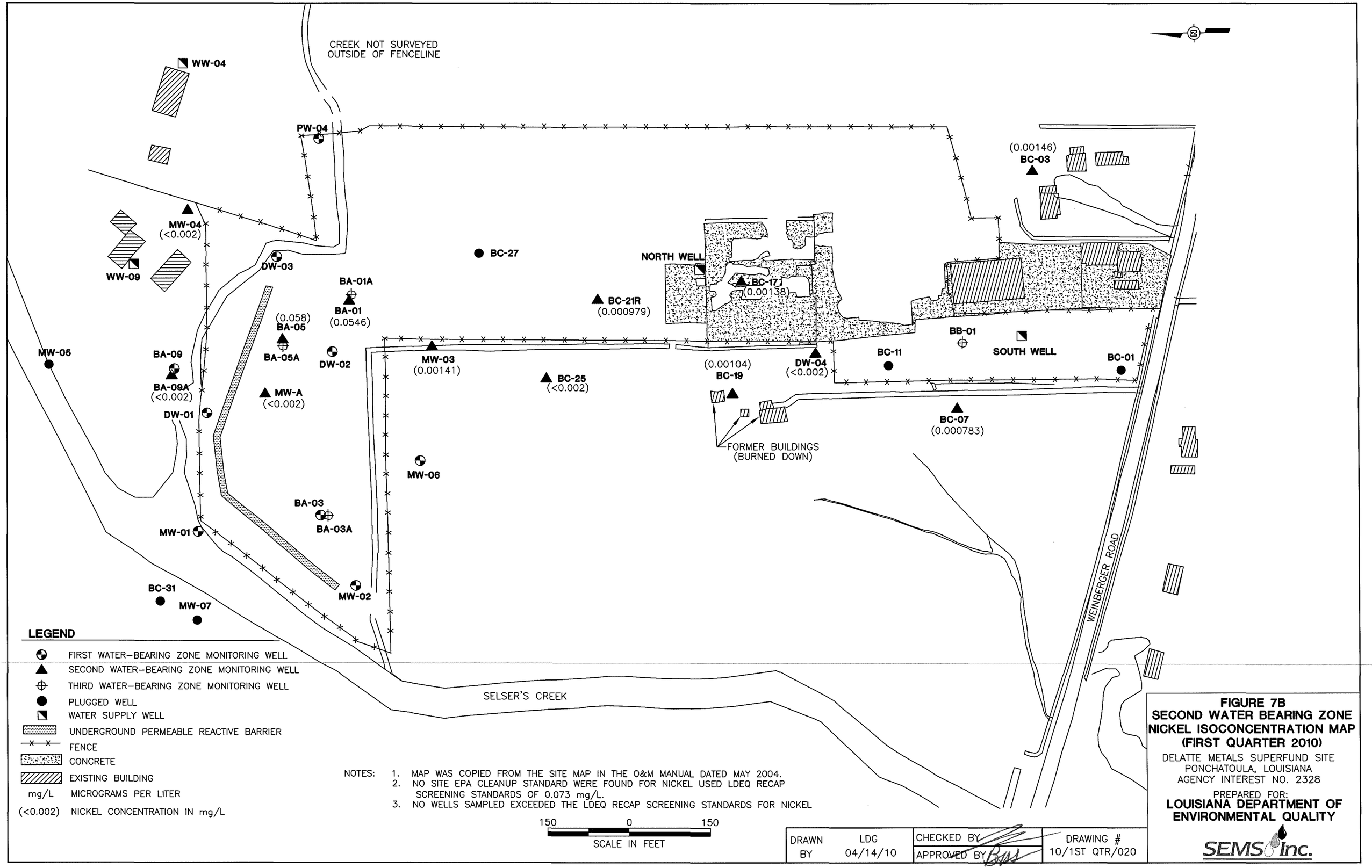
DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/018

FIGURE 6D
WATER WELL MANGANESE ISOCONCENTRATION MAP (FIRST QUARTER 2010)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
(0.0358)
PW-04
MW-04
WW-09
DW-03
(0.0145)
BA-01A
BA-01
BC-27
BC-21R
NORTH WELL
BC-17
BC-03
BB-01
SOUTH WELL
BC-11
BC-01
DW-04
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-05
(0.161)
BA-09
TEPA9-H
BA-09A
BA-05
BA-05A
DW-02
(0.388)
MW-A
DW-01
(0.022)
TEPA8-G
TEPA7-H
0.073
MW-06
(0.0191)
(0.0898)
BA-03
BA-03A
TEPA-P14
MW-01
(0.15)
TEPA-6H
TEPA-P10
TEPA2-H
MW-02
(0.0775)
TEPA-P9
BC-31
MW-07
TEPA2-H
TEPA-IH
TEPA-P6
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
EPA PIEZOMETERS-FIRST WATER BEARING ZONE
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
0.073 (mg/L) - LDEQ RECAP TABLE 1 GW-SS*
mg/L MICROGRAMS PER LITER
(0.022) NICKEL CONCENTRATION IN mg/L
NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE EPA CLEANUP STANDARDS WERE FOUND FRO NICKEL USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.
150 0 150
SCALE IN FEET
DRAWN BY LDG 04/14/10
CHECKED BY
APPROVED BY
DRAWING # 10/1ST QTR/019
FIGURE 7A
FIRST WATER BEARING ZONE NICKEL ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MICROGRAMS PER LITER
- (<0.002) NICKEL CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARD WERE FOUND FOR NICKEL USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR NICKEL

150 0 150
SCALE IN FEET

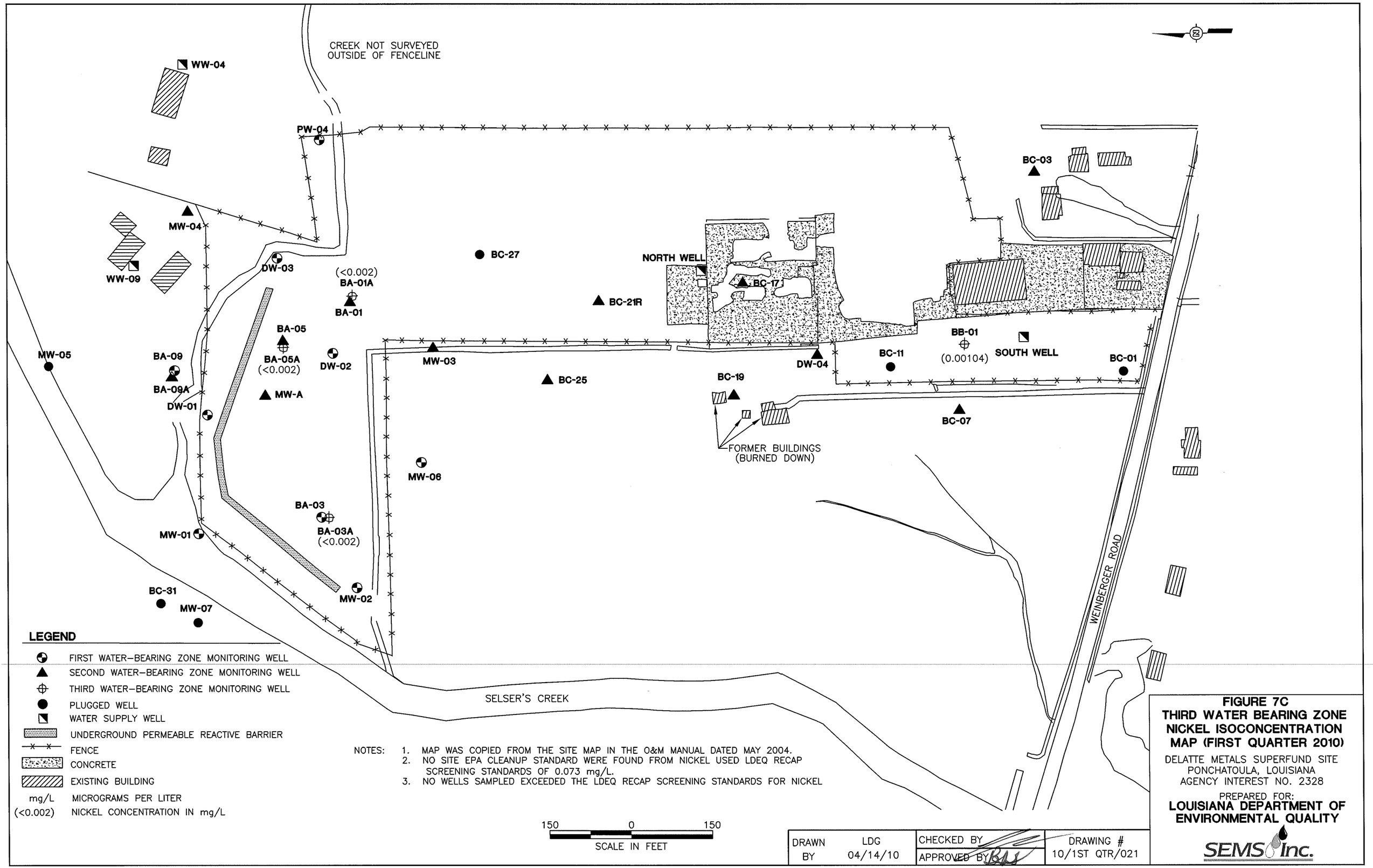
DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/020
		APPROVED BY	

FIGURE 7B
SECOND WATER BEARING ZONE NICKEL ISOCONCENTRATION MAP (FIRST QUARTER 2010)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MICROGRAMS PER LITER
- (<0.002) — NICKEL CONCENTRATION IN mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARD WERE FOUND FROM NICKEL USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR NICKEL

150 0 150
SCALE IN FEET

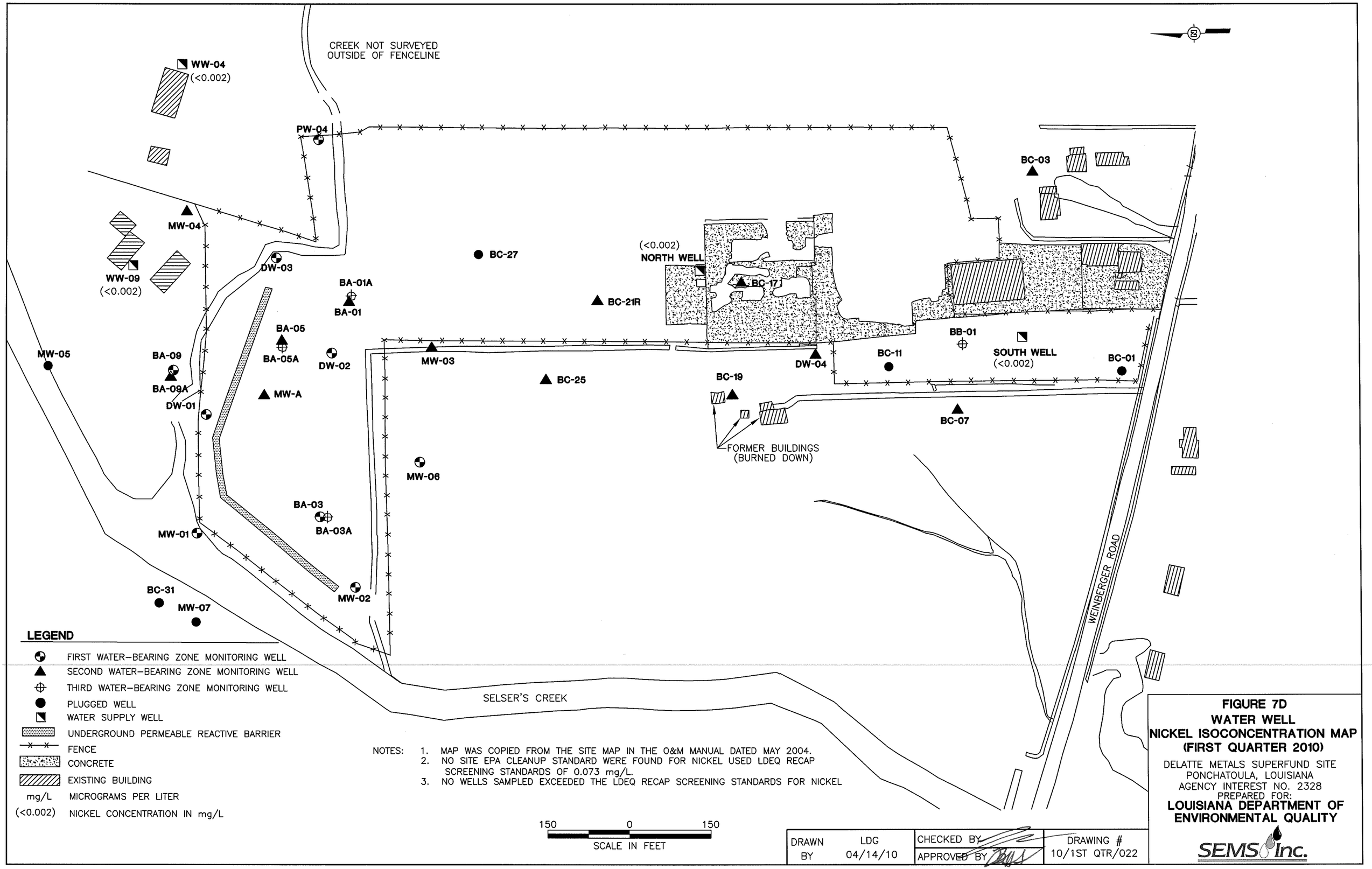
DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY BLS	DRAWING # 10/1ST QTR/021

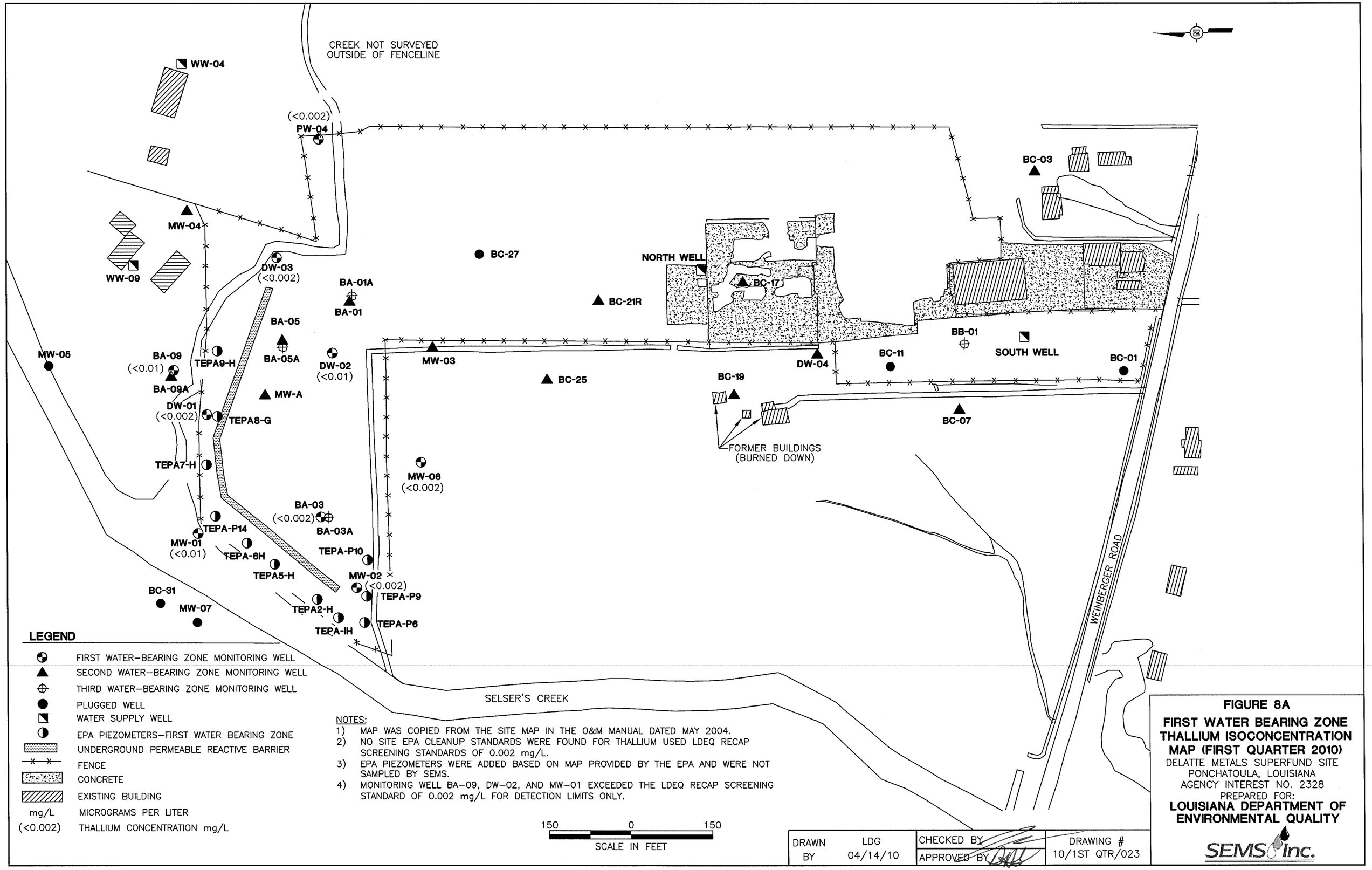
FIGURE 7C
THIRD WATER BEARING ZONE NICKEL ISOCONCENTRATION MAP (FIRST QUARTER 2010)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
(<0.002)
PW-04
MW-04
WW-09
(<0.002)
DW-03
BA-01A
BA-01
BC-27
BC-21R
(<0.002)
NORTH WELL
BC-17
BC-03
BB-01
SOUTH WELL
(<0.002)
BC-01
BC-11
DW-04
MW-03
BC-25
BC-19
BC-07
FORMER BUILDINGS
(BURNED DOWN)
MW-05
BA-09
BA-09A
DW-01
BA-05
BA-05A
DW-02
MW-A
MW-06
BA-03
BA-03A
MW-01
MW-02
BC-31
MW-07
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
mg/L MICROGRAMS PER LITER
(<0.002) NICKEL CONCENTRATION IN mg/L
NOTES: 1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARD WERE FOUND FOR NICKEL USED LDEQ RECAP SCREENING STANDARDS OF 0.073 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ RECAP SCREENING STANDARDS FOR NICKEL
150 0 150
SCALE IN FEET
DRAWN BY LDG 04/14/10
CHECKED BY
APPROVED BY
DRAWING # 10/1ST QTR/022
FIGURE 7D
WATER WELL
NICKEL ISOCONCENTRATION MAP
(FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER–BEARING ZONE MONITORING WELL
- SECOND WATER–BEARING ZONE MONITORING WELL
- THIRD WATER–BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- EPA PIEZOMETERS–FIRST WATER BEARING ZONE
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MICROGRAMS PER LITER
- (<0.002) — THALLIUM CONCENTRATION mg/L

NOTES:
1) MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2) NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM USED LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L.
3) EPA PIEZOMETERS WERE ADDED BASED ON MAP PROVIDED BY THE EPA AND WERE NOT SAMPLED BY SEMS.
4) MONITORING WELL BA–09, DW–02, AND MW–01 EXCEEDED THE LDEQ RECAP SCREENING STANDARD OF 0.002 mg/L FOR DETECTION LIMITS ONLY.

150 0 150
SCALE IN FEET

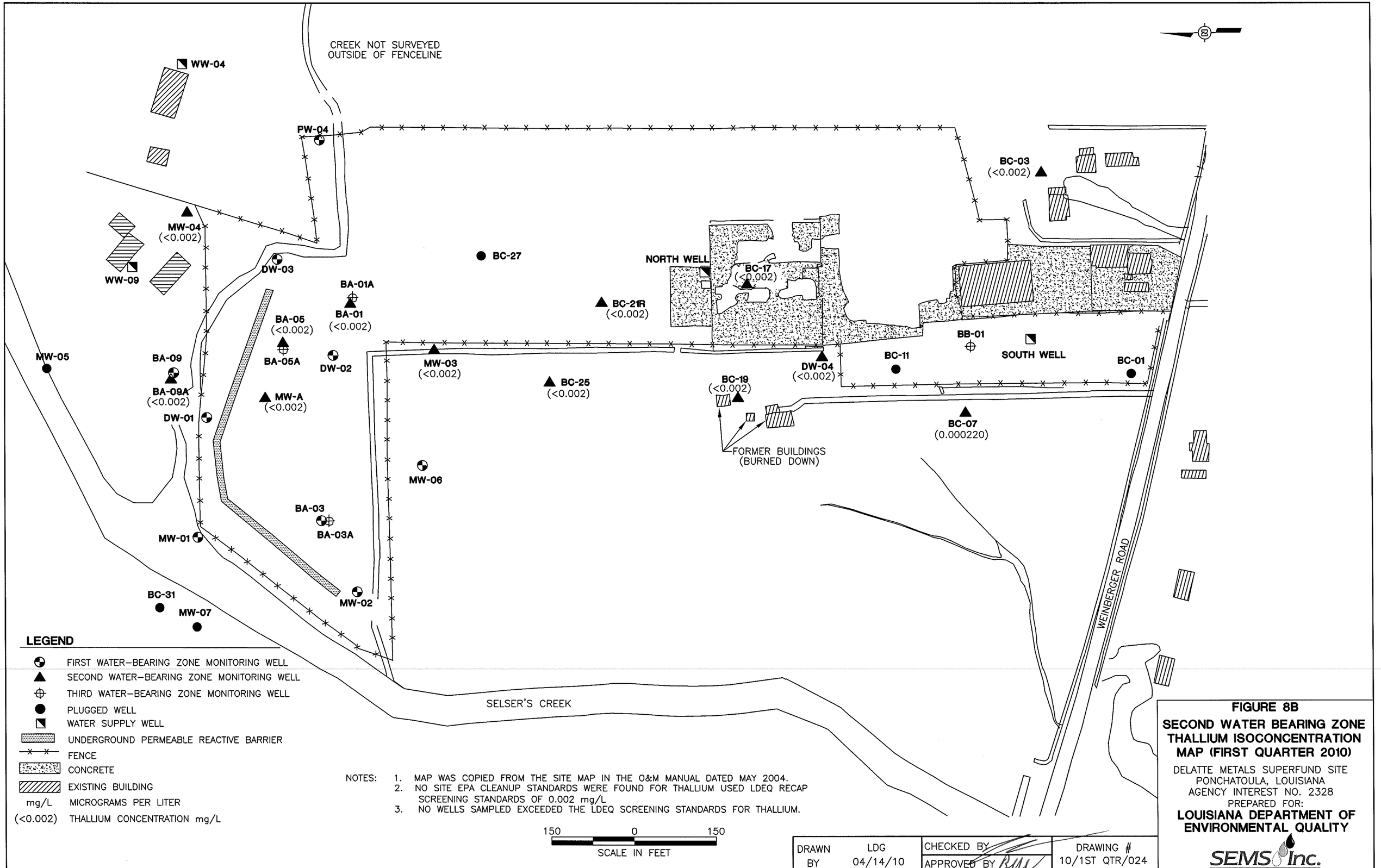
DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/023

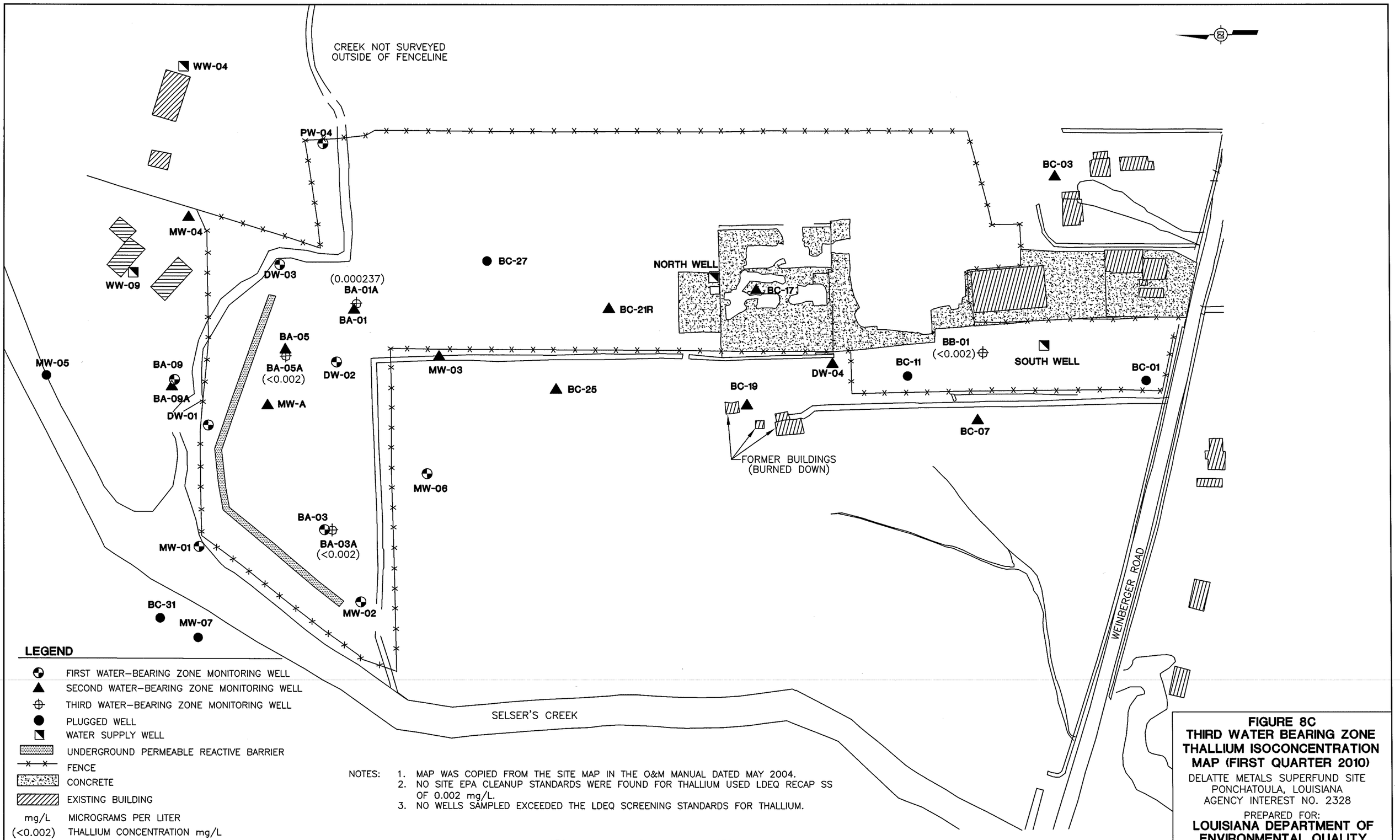
FIGURE 8A

FIRST WATER BEARING ZONE THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2010)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.


CREEK NOT SURVEYED
OUTSIDE OF FENCELINE
WW-04
PW-04
MW-04
(<0.002)
WW-09
DW-03
BA-01A
BA-01
(<0.002)
BA-05
(<0.002)
BA-05A
DW-02
BC-27
NORTH WELL
BC-17
(<0.002)
BC-21R
(<0.002)
BC-03
(<0.002)
BB-01
SOUTH WELL
BC-11
BC-01
MW-05
BA-09
BA-09A
(<0.002)
DW-01
MW-A
(<0.002)
MW-03
(<0.002)
BC-25
(<0.002)
DW-04
(<0.002)
BC-19
(<0.002)
BC-07
(0.000220)
FORMER BUILDINGS
(BURNED DOWN)
MW-06
BA-03
BA-03A
MW-01
BC-31
MW-07
MW-02
WEINBERGER ROAD
SELSER'S CREEK
LEGEND
FIRST WATER-BEARING ZONE MONITORING WELL
SECOND WATER-BEARING ZONE MONITORING WELL
THIRD WATER-BEARING ZONE MONITORING WELL
PLUGGED WELL
WATER SUPPLY WELL
UNDERGROUND PERMEABLE REACTIVE BARRIER
FENCE
CONCRETE
EXISTING BUILDING
mg/L MICROGRAMS PER LITER
(<0.002) THALLIUM CONCENTRATION mg/L
NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM USED LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L
3. NO WELLS SAMPLED EXCEEDED THE LDEQ SCREENING STANDARDS FOR THALLIUM.
150 0 150
SCALE IN FEET
DRAWN BY LDG 04/14/10
CHECKED BY
APPROVED BY
DRAWING # 10/1ST QTR/024
FIGURE 8B
SECOND WATER BEARING ZONE THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L — MICROGRAMS PER LITER
- (<0.002) — THALLIUM CONCENTRATION mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM USED LDEQ RECAP SS OF 0.002 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ SCREENING STANDARDS FOR THALLIUM.

150 0 150
SCALE IN FEET

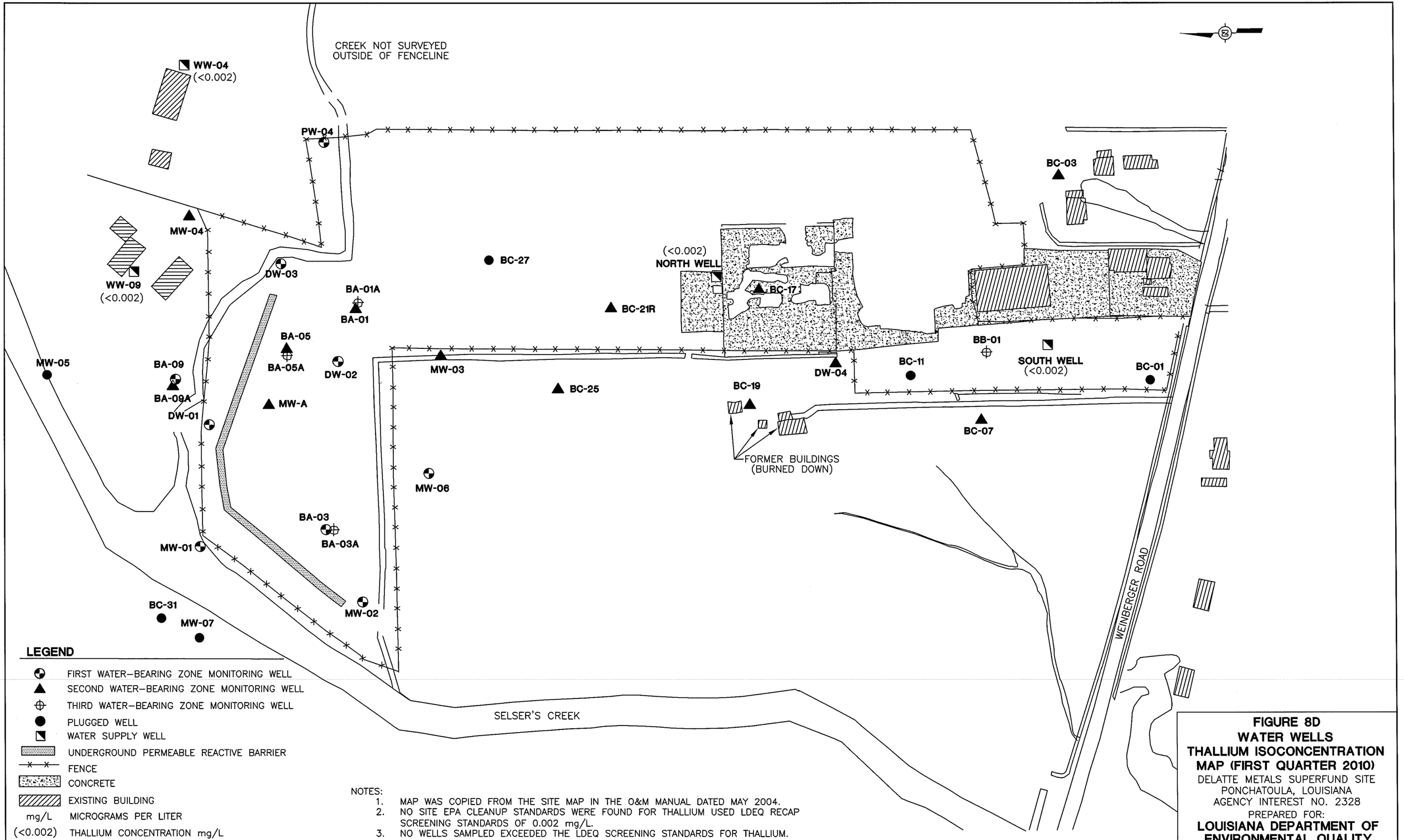
DRAWN BY	LDG 04/14/10	CHECKED BY	DRAWING # 10/1ST QTR/025
		APPROVED BY	

FIGURE 8C
THIRD WATER BEARING ZONE THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2010)

DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328

PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.



LEGEND

- FIRST WATER-BEARING ZONE MONITORING WELL
- SECOND WATER-BEARING ZONE MONITORING WELL
- THIRD WATER-BEARING ZONE MONITORING WELL
- PLUGGED WELL
- WATER SUPPLY WELL
- UNDERGROUND PERMEABLE REACTIVE BARRIER
- FENCE
- CONCRETE
- EXISTING BUILDING
- mg/L MICROGRAMS PER LITER
- (<0.002) THALLIUM CONCENTRATION mg/L

NOTES:
1. MAP WAS COPIED FROM THE SITE MAP IN THE O&M MANUAL DATED MAY 2004.
2. NO SITE EPA CLEANUP STANDARDS WERE FOUND FOR THALLIUM USED LDEQ RECAP SCREENING STANDARDS OF 0.002 mg/L.
3. NO WELLS SAMPLED EXCEEDED THE LDEQ SCREENING STANDARDS FOR THALLIUM.

150 0 150
SCALE IN FEET

DRAWN BY	LDG 04/14/10	CHECKED BY APPROVED BY	DRAWING # 10/1ST QTR/026

FIGURE 8D
WATER WELLS
THALLIUM ISOCONCENTRATION MAP (FIRST QUARTER 2010)
DELATTE METALS SUPERFUND SITE
PONCHATOULA, LOUISIANA
AGENCY INTEREST NO. 2328
PREPARED FOR:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SEMS Inc.

ATTACHMENT A

FIELD DATA SHEETS & WASTE MANIFESTS

DELATTE METALS SUPERFUND SITE OPERATION AND MAINTENANCE ACTIVITY LOG

PROJECT GENERAL INFORMATION

Client: LDEQ

Date: 2/8/10 - 2/11/10

Facility #: Delatte Metals Superfund Site

Activities: Notify facility of arrival. Inspect facility monitoring wells and PRB for integrity. Gauge, and sample appropriate wells.

Address: Weinberger Road, Ponchatoula, LA

Project #: N-207-0006

SEMS ACTIVITY DOCUMENTATION (Continued On Back)

Time (Military)	Notes & Observations
Arrived : (930)	Notified facility personnel of arrival : (YES) NO Stuck in Mud 2-3 hours 2/8/10 Rained overnight 2/8/10 - 2/9/10 Jesse Hopper & Lance Meaux 2/8 & 2/9/10 Adam Morgan & Lance Meaux on 2/10/10 Jesse Hopper & Adam Morgan 2/11/10 Have H&S plan : (YES) NO Potentiometric data collection procedure equilibration, inspect/document well inte Measure wells from least contaminated Well purging procedures: Use low flow When water quality characteristics stabi water to on-site 55-gallon drums for cor Groundwater sample collection procedu micro purge methods after water quality container (on ice) for transport to the de with completed chain-of-custody docum
Departed : ( )	

SEMS EQUIPMENT & MATERIALS USED

Task	Description	Accounting Code	Unit	Quantity
0002 ~~005~~	Operation, maintenance and related activities per well.		each	31
006	Quarterly reports preparation		each	
007	Plugging and Abandoning 0-30 ft bgs		foot	
008	Plugging and Abandoning 31-60 ft bgs		foot	
009	Plugging and Abandoning 61-100 ft bgs		foot	
0010	Well labels		each	
0011	Well Locks		each	
0012	Concrete Pad		each	
0010 ~~0013~~	Well cover		each	2

SEMS PERSONNEL INFORMATION

Employee Name: Jesse Hopper

Employee Signature:

DELATTE METALS SUPERFUND SITE OPERATION AND MAINTENANCE ACTIVITY LOG

SEMS EQUIPMENT & MATERIALS USED

Task	Description	Accounting Code	Unit	Quantity
0011 ~~0014~~	Repainting		each	4
0015	Post Replacement		each	
0016	Installation of new well 0-30 ft bgs		foot	
0017	Installation of new well 31-60 ft bgs		foot	
0018	Installation of new well 61-100ft bgs		foot	
0019	Clearing access to wells		each	
0020	Characterization, profiling related to disposal		each	
0021	Disposal of decon water and purge water, Haz		gallon	
0019 ~~0022~~	Disposal of decon water and purge water, Non-Haz		gallon	220
0023	Disposal of PPE, and sampling equipment, Haz		Drum	
0024	Disposal of PPE, and sampling equipment, Non-Haz		Drum	
135	Generator Daily Rental (DO NOT BILL)		Day	
59	Grundfous Pump (DO NOT BILL)		Day	
37	100' Roll of tubingl (DO NOT BILL)		Roll	
04A	Truck Day Rate (DO NOT BILL)		Day	

Employee Name: _____ Employee Signature: _____

SEMS, Inc.

Delatte Metals O&M PRB Inspection Checklist

SEMS Project #: N-207-0006
Field Crew: Jesse Hoppes & Adam Mogen

Date Inspected 2/11/10

Is the soil overlying the PRB cracked, eroded, or show any other pathways that could allow for surface water to enter the subsurface?	
PRB Cleared	Yes
PRB Accessible	Yes
PRB Cracks Identified	NO
PRB Erosion Identified	Some low spots & standing water
Photos Taken	NO
NOTES:	water South of PRB Btwn DW-01 & DW-03 Some low spots as previous Near MW-02 & SW of MW-01

PRB=Permeable reactive barrier

Delatte Metals O&M QA/QC Checklist

SEMS Project #: N-207-0006
Field Crew: Jesse Hoppes
Lance Meier
Adam Morgan (2/10/10)

MS/MSD (Every 20 Samples)
Field Duplicate (Every 10 Samples)

MS/ MSD	Field Duplicate	Sample ID on COC	Sample Location ID of Original Sample (Field Duplicate)	Date	Time	Notes
X		BC-07	BC-07	2/9/10	819	
	X	Duplicate # 1	BC-17	2/9/10	1250	
X		BA-01A	BA-01A	2/9/10	1353	
	X	Duplicate #2	PW-04	2/10/10	1028	
	X	Duplicate #3	MW-A	2/10/10	1413	
	X	Duplicate #4	BA-03A	2/10/10	1526	

Delatte Metals O&M Well Inspection Checklist

SEMS Project #: N-207-0006
Field Crew: Jesse Hoppes
Adam Morgen
Lance Meaux

Well No.	Date Inspected	Wells Labeled	Wells Locked	Post Condition	Paint Needed	Pad Condition	Well Access	Standing/ Ponded Water	Collision Damage	Frost Heaving	Casing Degradation	Well Subsidence	Photos Taken	Notes
BA-09A	2/8/10	Yes	Yes	OK	NO	OK	OK	NO	NO	NO	NO	NO	NO	
BA-09		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MW-04		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
WW-09		NO	NO	NA	NO	OK	OK	NO	NO	NO	NO	NO	NO	
WW-04		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
(b) (6) well		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
BC-03		Yes	Yes	OK	NO	OK	OK	NO	NO	NO	NO	NO	NO	
BC-07	2/9/10	NO	↓	↓	Yes (painted)	↓	↓	yes	↓	↓	↓	↓	↓	water over concrete
DW-04	↓	Yes	↓	↓	NO	↓	↓	NO	↓	↓	↓	↓	↓	
BC-19	↓	NO	↓	↓	painted	↓	↓	↓	↓	↓	↓	↓	↓	
BC-05	↓	NO	↓	↓	painted	↓	↓	↓	↓	↓	↓	↓	↓	
MW-03	↓	Yes	↓	↓	NO	↓	↓	↓	↓	↓	↓	↓	↓	

Delatte Metals O&M Well Inspection Checklist

SEMS Project #: N-207-0006
Field Crew: Jesse Hoppes
Lance Meaux
Adam Morgan

Well No.	Date Inspected	Wells Labeled	Wells Locked	Post Condition	Paint Needed	Pad Condition	Well Access	Standing/ Ponded Water	Collision Damage	Frost Heaving	Casing Degradation	Well Subsidence	Photos Taken	Notes
MW-06	2/9/10	Yes	Yes	OK	NO	OK	OK	NO	NO	NO	NO	NO	NO	
BB-01	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
South Well		NO	NO	NA	NO	OK	OK	NO	NO	NO	NO	NO	NO	
BC-17		NO	Yes	OK	Painted	↓	↓	↓	↓	↓	↓	↓	↓	
North Well		NO	NO	NA	NO	OK	OK	NO	NO	NO	NO	NO	NO	
BC-21R		Yes	Yes	OK										
BA-01A														
BA-01	↓													
OW-03	2/10/10													
PW-04														
OW-02														
BA-05A														

Delatte Metals O&M Well Inspection Checklist

SEMS Project #: N-207-0006
Field Crew: Jesse Hoppes
Lance Meaux
Adam Morgan

Well No.	Date Inspected	Wells Labeled	Wells Locked	Post Condition	Paint Needed	Pad Condition	Well Access	Standing/ Ponded Water	Collision Damage	Frost Heaving	Casing Degradation	Well Subsidence	Photos Taken	Notes
BA-05	2/10/10	yes	yes	OK	NO	OK	OK	NO	NO	NO	NO	NO	NO	
MW-A				Fixed Lid										
DW-01				Fixed Lid										
BA-03A				OK										
BA-03				OK										
MW-02	2/11/10			OK										
MW-01	2/11/10			OK										

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-09A
Date Purged/Sampled: 2/8/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 42.0 ft.
Static Depth to Groundwater (DTW): 0.60 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 31.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: ~ gpm 210 mL ~~liter~~/min
Volume Purged: 1.5 gal. ~ liters
Date/Time of Sample: 2/8/10 Date 1053 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/-10%	+/- 0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1032	~	~	~	~	~	~	~	0.60
1036	330 mL/min	18.86	0.263	4.32	6.94	57	3.5	0.86
1040	300 mL/min	19.05	0.259	3.54	7.17	52	2.5	0.70
1044	255 mL/min	19.20	0.258	2.47	7.19	50	1.9	3.49
1049	210 mL/min	19.25	0.259	1.77	7.19	53	1.4	3.74
1053	~	19.19	0.259	1.60	7.19	54	1.2	3.65

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-09
Date Purged/Sampled: 2/8/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18 ft.
Static Depth to Groundwater (DTW): 7.09 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 7.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 240 mL ~~liter~~/min
Volume Purged: 1.5 gal. — liters
Date/Time of Sample: 2/8/10 Date 1121 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-1°C	+/-3%	+/-10%	+/-0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1101	240	—	—	—	—	—	~	7.09
1105	—	17.78	3.65	0.60	3.15	505	2.0	7.21
1109	—	17.77	3.76	0.43	3.16	476	2.3	7.24
1112	"	18.64	4.26	0.31	3.54	198	0.6	7.25
1115	"	18.77	4.20	0.29	3.56	185	0.4	7.22
1118	"	18.83	4.11	0.27	3.57	154	0.0	7.23
1121	"	18.84	3.93	0.26	3.58	144	0.0	7.25

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-4
Date Purged/Sampled: 2/8/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 24 ft.
Static Depth to Groundwater (DTW): 12.46 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 13.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 180 ~~liter~~ mL/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/8/10 Date 1151 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
~~1031~~	—	—	—	—	—	—	—	12.46
1132	200 mL/min	—	—	—	—	—	—	12.46
1136	180 mL/min	18.84	0.402	5.66	5.63	33	10.4	13.40
1139	"	18.70	0.273	5.72	6.52	-27	3.7	13.63
1142	"	18.76	0.265	5.70	6.65	-18	2.6	13.81
1145	"	18.82	0.268	5.59	6.73	-7	4.7	13.91
1148	"	18.77	0.273	5.52	6.76	0	3.8	13.99
1151	"	18.78	0.277	5.32	6.77	5	5.1	14.02

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: WW-09
Date Purged/Sampled: 2/8/10 **Sampled By:** JAH + LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 60 ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: ~ gpm — liter/min
Volume Purged: — gal. — liters
Date/Time of Sample: 2/8/10 Date 1225 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/-10%	+/- 0.1	+/-10%	+/-10% (if>10 NTU or FTU)	<0.3 ft. or Top of Screen
~~1225~~	—	—	—	—	—	—	—	—
1200	—	Let flow		20 minutes			—	—
1225	—	19.51	0.277	3.14	8.29	-80	0.6	—

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: WW-04
Date Purged/Sampled: 2/8/10 **Sampled By:** ~~[illegible]~~ LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): UNK ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: ___ gpm ___ liter/min
Volume Purged: ___ gal. ___ liters
Date/Time of Sample: 2/8/10 Date 1420 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) Let water flow for 20 min

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1400	—	—	—	—	—	—	—	—
1420	—	19.77	0.287	2.29	9.10	-149	0.9	—

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	☒	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: (b) (6) Well
Date Purged/Sampled: 2/8/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): UNK ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: — gpm — liter/min
Volume Purged: — gal. — liters
Date/Time of Sample: 2/8/10 Date 1430 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1410	—	—	—	—	—	—	—	—
1430	—	19.66	0.284	3.11	8.60	-106	0.2	—

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-03
Date Purged/Sampled: 2/8/10 **Sampled By:** JAH + LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 28.0 ft.
Static Depth to Groundwater (DTW): 3.65 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 17.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 160 mL ~~liter~~/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/8/10 Date 1509 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/-10%	+/- 0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1449	225 mL/min	—	—	—	—	—	—	3.65
1455	200 mL/min	18.86	3.49	4.00	7.49	-22	0.9	5.54
1500	1 L	18.66	3.50	3.52	7.49	-13	1.4	6.05
1503	160 mL/min	18.87	3.50	3.41	7.48	-7	0.7	6.34
1506	1 L	18.71	3.49	3.36	7.47	-1	0.3	6.50
1509	1 L	18.71	3.49	3.33	7.46	3	0.8	6.65

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	☒

no 0.5 solvent collected

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-07
Date Purged/Sampled: 2/9/10 **Sampled By:** JAF & CM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18.5 ft.
Static Depth to Groundwater (DTW): 2.24 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 8.0 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 225 ~~liter~~ mL/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/9/10 Date 819 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
803	270 mL/min	13.66	2.58	5.79	7.15	302	1.4	2.24
807	225	↓	↓	↓	↓	↓	↓	3.56
810	"	13.47	2.57	2.28	7.30	335	1.2	4.24
813	"	13.73	2.57	2.11	7.37	385	1.7	5.06
816	"	14.00	2.57	2.04	7.38	400	1.7	5.48
819	"	14.12	2.57	1.99	7.39	423	1.5	5.89

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

Standing water over well & printed well

SHEET 1 OF 1

MS/MSD

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: DW-04
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & CM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 38 ft.
Static Depth to Groundwater (DTW): 3.89 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 27.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 195 mL liter/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/9/10 Date 848 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
835	195 mL	—	—	—	—	—	—	3.89
839	"	15.80	1.96	7.31	7.80	373	2.6	4.40
842	"	16.67	1.92	7.50	7.86	396	0.5	4.58
845	"	17.04	1.92	7.62	7.86	400	0.7	4.63
848	"	17.21	1.92	7.65	7.88	405	0.2	4.65

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	☒	Dissolved Metals Collected	☐

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-19
Date Purged/Sampled: 3/9/10 **Sampled By:** JAL & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (**TD**): 22.5 ft.
Static Depth to Groundwater (**DTW**): 4.02 ft.
Screen Length (**SL**) from Boring Logs: 10 ft.
Depth to Top of Well Screen (**TD-SL**): 12.0 ft.
Height of Water Column (**H=TD-DTW**): _____ ft.

Purge Flow Rate: — gpm 170 mL liter/min
Volume Purged: 0.5 gal. — liters
Date/Time of Sample: 3/9/10 Date 911 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
901	170 mL/min	—	—	—	—	—	—	4.02
905	"	15.58	2.99	3.96	7.24	338	2.2	4.85
909	"	15.77	2.99	3.61	7.25	335	1.6	5.22
911	"	15.73	3.00	3.52	7.26	333	1.8	5.55

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

Pointed well

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-25
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & CM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 32.0 ft.
Static Depth to Groundwater (DTW): 5.02 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 21.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 210 mL liter/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/9/10 Date 943 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-1°C	+/-3%	+/-10%	+/-0.1	+/-10%	+/-10% (if>10 NTU or FTU)	<0.3 ft. or Top of Screen
924	210 mL/min	—	—	—	—	—	—	5.02 5.0
933	"	16.35	1.054	7.62	7.37	232	3.5	5.24
937	"	16.73	1.000	7.08	7.35	355	1.6	5.26
940	"	16.77	~~1.000~~ 1.001	6.97	7.34	389	0.8	5.26
943	"	17.04	1.004	6.72	7.32	404	1.2	5.26

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

~~Heat to~~ Pan fed well

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-3
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 27.5 ft.
Static Depth to Groundwater (DTW): 4.78 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 17.0 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 210 mL ~~liter~~/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/9/10 Date 1006 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/-10%	+/- 0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
953	210 mL/min	—	—	—	—	—	—	4.78
959	1	16.43	2.04	1.56	6.83	320	4.8	5.40
1002	1	16.50	2.05	1.34	6.82	355	4.2	5.50
1006	1	16.64	2.05	1.24	6.82	378	4.3	5.60

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-6
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 16.5 ft.
Static Depth to Groundwater (DTW): 6.48 ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 195 ~~liter~~/min mL
Volume Purged: 1.5 gal. — liters
Date/Time of Sample: 2/9/10 Date 1101 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/-10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1034	195 mL/min	—	—	—	—	—	—	6.48
1042	"	14.69	0.513	1.94	5.09	208	6.9	6.85
1046	"	14.98	0.4999	1.18	4.02	289	8.8	6.89
1049	"	15.03	0.508	1.02	3.98	315	6.4	6.91
1052	"	15.11	0.521	0.91	3.96	330	4.1	6.91
1055	"	15.10	0.525	0.80	3.93	350	2.7	6.91
1058	"	15.11	0.541	0.75	3.92	364	2.5	6.91
1101	"	15.13	0.549	0.69	3.92	376	2.1	6.91

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BB-01
Date Purged/Sampled: 2/4/10 **Sampled By:** JAH + LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 96.0 ft.
Static Depth to Groundwater (DTW): 2.79 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 85.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 210 ~~liter~~ mL/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/4/10 Date 1150 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-1°C	+/-3%	+/-10%	+/-0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1136	210 mL/min	—	—	—	—	—	—	2.79
1139	"	15.82	0.293	4.92	9.39	2	8.1	3.00
1144	"	16.65	0.296	2.16	10.30	40	4.1	3.01
1147	"	16.21	0.298	1.74	10.32	55	4.3	3.01
1150	"	17.01	0.295	1.37	10.31	69	6.1	3.01

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: South well
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): UNK ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: ___ gpm ___ liter/min
Volume Purged: ___ gal. ___ liters
Date/Time of Sample: 2/9/10 Date 1225 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) ___ gal. (1 well volume) ___ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) ___ gal. (1 well volume) ___ gal. (3 well volumes)
☐ Other: ___

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minute

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-1°C	+/-3%	+/-10%	+/-0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1251225	—	12.78	0.937	5.02	9.42	-62	1.7	—

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-17
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & CM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 28.0 ft.
Static Depth to Groundwater (DTW): 3.90 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 17.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 160 mL ~~liter~~/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/9/10 Date 1250 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1234	250 mL/min	—	—	—	—	—	—	3.90
1239	"	16.92	2.21	1.57	7.20	387	3.4	5.22
1241	180 mL/min	17.25	2.21	1.31	7.10	469	2.4	6.20
1244	"	16.82	2.21	1.29	7.08	483	1.7	6.99
1247	"	16.91	2.21	1.25	7.07	488	1.8	7.49
1250	"	17.09	2.22	1.23	7.06	492	1.5	7.82

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Duplicate #1

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

Painted well

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: North Well
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): UNK ft.
Static Depth to Groundwater (DTW): UNK ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): UNK ft.

Purge Flow Rate: ~ gpm — liter/min
Volume Purged: _____ gal. _____ liters
Date/Time of Sample: 2/9/10 Date 1255 Time

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☒ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☒ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☒ Other (Specify) Let water flow for 20 minutes

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1235	-	let flow 20 minutes						
1255	-	19.69	0.286	1.35	9.10	255	1.6	-

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BC-21R
Date Purged/Sampled: 2/9/10 **Sampled By:** JAH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 17.5 ft.
Static Depth to Groundwater (DTW): 4.01 ft.
Screen Length (SL) from Boring Logs: 5 ft.
Depth to Top of Well Screen (TD-SL): 12.0 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 180 mL/liter/min
Volume Purged: 0.75 gal. — liters
Date/Time of Sample: 2/9/10 Date 1319 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-1°C	+/-3%	+/-10%	+/-0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1306	160 mL/m.	—	—	—	—	—	—	4.01
1310	"	14.39	1.389	4.52	7.34	439	1.8	4.79
1313	"	14.63	1.390	4.52	7.27	504	1.8	5.02
1316	"	14.87	1.390	4.44	7.25	521	1.6	5.21
1319	"	14.96	1.390	4.40	7.24	526	2.0	5.34

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-01A
Date Purged/Sampled: 2/9/10 **Sampled By:** JDH & LM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 46.0 ft.
Static Depth to Groundwater (DTW): 4.12 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 35.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 180 mL liter/min
Volume Purged: 0.75 gal. — liters
Date/Time of Sample: 2/9/10 Date 1353 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1340	180 mL/min	—	—	—	—	—	—	4.12
1343	"	16.98	0.331	2.87	7.68	351	3.8	4.91
1347	"	18.14	0.270	1.74	7.70	343	3.0	5.42
1350	"	18.02	0.268	1.60	7.67	324	2.8	5.70
1353	"	18.32	0268	1.44	7.65	317	1.8	5.82

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

MS & MSD

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-01
Date Purged/Sampled: 2/9/10 **Sampled By:** JAA + CM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 26.0 ft.
Static Depth to Groundwater (DTW): 5.44 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 15.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: ~ gpm 200 mL ~~liter~~/min
Volume Purged: 0.75 gal. ~ liters
Date/Time of Sample: 2/9/10 Date 1419 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1407	200 mL/min	~~18.06~~	~	~	~	~	~	5.44
1410	"	18.07	2.87	0.49	6.22	106	516	6.20
1413	"	18.23	2.88	0.38	6.18	102	491	6.38
1416	"	17.90	2.87	0.32	6.16	99	453	6.49
1419	"	17.82	2.85	0.30	6.16	95	411	6.59

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	X

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: DW-3
Date Purged/Sampled: 2/10/10 **Sampled By:** CSm / AMM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 16 ft.
Static Depth to Groundwater (DTW): 4.80 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 5.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 180 mL ~~liter~~/min
Volume Purged: 0.75 gal. — liters
Date/Time of Sample: 2/10/10 Date 953 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
941	180 mL/min	—	—	—	—	—	—	4.80
944	"	14.54	0.361	1.93	3.85	483	13.7	4.95
947	"	14.74	0.361	1.69	3.89	487	11.3	4.95
950	"	14.99	0.363	1.53	3.88	472	9.7	4.95
953	"	14.92	0.370	1.46	3.88	461	9.9	4.91

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: PW-4
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM / LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 19.5 ft.
Static Depth to Groundwater (DTW): 3.46 ft.
Screen Length (SL) from Boring Logs: UNK ft.
Depth to Top of Well Screen (TD-SL): UNK ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 180 mL ~~liter~~/min
Volume Purged: 0.5 gal. — liters
Date/Time of Sample: 2/10/10 Date 1028 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1019	180 mL/min	—	—	—	—	—	—	3.46
1022	"	14.41	1.103	0.59	4.07	330	4.8	3.64
1025	"	14.51	1.099	0.45	4.06	329	5.1	3.64
1028	"	14.84	1.094	0.38	4.06	328	4.8	3.68

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Duplicate #2

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: DW-2
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 11 ft.
Static Depth to Groundwater (DTW): 3.84 ft.
Screen Length (SL) from Boring Logs: 5 ft.
Depth to Top of Well Screen (TD-SL): 5.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 205 mL/min
Volume Purged: 1.5 gal. — liters
Date/Time of Sample: 2/10/10 Date 1140 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/- 10%	+/- 0.1	+/- 10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1116	205mL/min	—	—	—	—	—	—	3.84
1119	11	14.04	4.32	2.97	3.26	386	10.5	4.00
1122	11	14.48	5.31	0.64	3.20	244	7.1	4.02
1125	11	14.28	5.96	0.39	3.20	208	4.5	4.05
1128	11	14.41	6.30	0.33	3.18	198	3.5	3.97
1131	11	14.36	6.55	0.29	3.21	185	3.5	3.97
1134	11	14.47	6.67	0.28	3.19	176	3.0	3.98
1137	11	14.50	6.78	0.28	3.20	167	3.1	3.99
1140	11	14.70	6.84	0.26	3.20	157	3.00	4.00

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-05A
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 54.0 ft.
Static Depth to Groundwater (DTW): 3.06 ft.
Screen Length (SL) from Boring Logs: 5 ft.
Depth to Top of Well Screen (TD-SL): 36.0 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 210 ~~liter~~/min mL
Volume Purged: 0.75 gal. — liters
Date/Time of Sample: 2/10/10 Date 1203 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-1°C	+/-3%	+/-10%	+/-0.1	+/-10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1151	210 mL/min	—	—	—	—	—	—	3.06
1154	11	17.32	0.378	5.56	6.41	-60	22.6	4.04
1157	11	17.54	0.273	4.38	7.15	-68	4.7	4.64
1200	11	17.66	0.272	3.76	7.30	-67	4.1	4.92
1203	11	17.76	0.272	3.24	7.38	-61	3.8	5.14

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-05
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 18.5 ft.
Static Depth to Groundwater (DTW): 7.05 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 8.0 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 180 ~~liter~~ mL/min
Volume Purged: 1.5 gal. — liters
Date/Time of Sample: 2/10/10 Date 1238 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/-3%	+/- 10%	+/- 0.1	+/-10%	+/-10% (if>10 NTU or FTU)	<0.3 ft. or Top of Screen
1211	180mL/min	—	—	—	—	—	—	7.05
1214	11	15.82	6.19	0.89	6.34	-7	54.0	7.74
1217	11	15.98	6.38	0.44	6.35	-7	43.4	8.11
1220	11	16.00	6.38	0.37	6.35	-6	35.7	8.38
1223	11	16.05	6.39	0.32	6.34	-4	27.7	8.62
1226	11	16.12	6.39	0.31	6.33	-3	22.4	8.79
1229	11	16.42	6.39	0.29	6.32	-1	17.5	8.94
1232	11	16.89	6.39	0.28	6.32	0	12.8	9.09
1235	11	17.14	6.37	0.28	6.32	1	10.9	9.20
Notes: 1 Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges. 2 Take measurements every 3 to 5 minutes.								
1238	11	17.12	6.37	0.27	6.33	2	9.6	9.31

Total Metals Collected		Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-A
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 27 ft.
Static Depth to Groundwater (DTW): 9.29 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 16.5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 210 mL liter/min
Volume Purged: 0.75 gal. — liters
Date/Time of Sample: 2/10/10 Date 1413 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1401	210mL/min	—	—	—	—	—	—	9.29
1404	11	18.34	0.989	2.89	7.09	-20	9.9	9.84
1407	11	18.30	0.772	2.70	7.32	-17	9.4	10.00
1410	11	18.43	0.763	2.60	7.37	-8	9.2	10.10
1413	11	18.67	0.762	2.54	7.39	-4	7.4	10.18

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Duplicate #3

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: DW-1
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 19 ft.
Static Depth to Groundwater (DTW): 8.96 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 8.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 180mL ~~liter~~/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/10/10 Date 1450 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/-10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1426	180mL/min	—	—	—	—	—	—	8.96
1429	11	17.20	0.663	3.67	5.98	129	211	9.19
1432	11	17.18	0.665	3.52	5.63	161	117	9.21
1435	11	17.18	0.676	3.40	5.42	181	63.4	9.25
1438	11	17.20	0.686	3.26	5.31	191	41.9	9.28
1441	11	17.00	0.696	3.17	5.27	198	33.9	9.29
1444	11	17.02	0.702	3.13	5.22	203	29.8	9.31
1447	11	17.03	0.712	2.99	5.19	209	27.1	9.33
1450	11	16.92	0.717	2.90	5.19	213	27.8	9.35

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	X

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-03A
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 100 ft.
Static Depth to Groundwater (DTW): 1.80 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 89.5 ft.
Height of Water Column (H=TD-DTW): _____ ft.

Purge Flow Rate: — gpm 210 mL ~~liter~~/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/10/10 Date 1526 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/-1°C	+/-3%	+/-10%	+/-0.1	+/-10%	+/-10% (if>10 NTU or FTU)	<0.3 ft. or Top of Screen
1509	210mL/min	—	—	—	—	—	—	1.80
1511	11	16.72	0.310	3.67	7.16	105	6.9	1.80
1514	11	16.89	0.306	1.34	7.62	-31	7.3	1.80
1517	11	17.01	0.307	0.92	7.97	-73	7.8	1.80
1520	11	16.97	0.308	0.80	8.25	-102	7.1	1.80
1523	11	16.92	0.308	0.73	8.34	-109	6.9	1.80
1526	11	16.96	0.308	0.71	8.39	-114	6.6	1.80

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Duplicate #4

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: BA-03
Date Purged/Sampled: 2/10/10 **Sampled By:** AMM & LSM

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 13.5 ft.
Static Depth to Groundwater (DTW): 6.05 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 3 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 210 mL ~~liter~~/min
Volume Purged: 1.5 gal. — liters
Date/Time of Sample: 2/10/10 Date 1557 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1533	210mL/min	—	—	—	—	—	—	6.05
1536	"	15.09	0.485	1.00	5.59	61	7.7	6.10
1539	"	15.01	0.510	1.05	5.30	105	6.4	6.11
1542	"	14.99	0.772	1.24	4.94	133	6.8	6.11
1545	"	15.15	1.366	1.62	4.66	214	6.4	6.11
1548	"	15.04	1.62	1.93	4.58	256	6.6	6.11
1551	"	15.10	1.69	1.92	4.52	287	5.6	6.11
1554	"	15.06	1.73	2.04	4.51	304	5.7	6.11
1557	"	15.10	1.76	2.24	4.52	316	5.8	6.11

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-2
Date Purged/Sampled: 2/11/10 **Sampled By:** AMM & JAH

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 10.5 ft.
Static Depth to Groundwater (DTW): 6.50 ft.
Screen Length (SL) from Boring Logs: 5 ft.
Depth to Top of Well Screen (TD-SL): 5 ft.
Height of Water Column (H=TD-DTW): ____ ft.

Purge Flow Rate: — gpm 210 mL liter/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/11/10 Date 1020 Time

WELL CASING VOLUME CALCULATIONS

☑ 2" Well (H x 0.163 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) ____ gal. (1 well volume) ____ gal. (3 well volumes)
☐ Other: ____

PURGING METHOD

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☑ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1002	210 mL/min	—	—	—	—	—	—	6.50
1005	"	14.76	1.97	1.19	2.91	400	10.3	7.08
1008	"	14.99	1.91	0.76	2.89	397	7.4	7.24
1011	"	15.23	1.66	0.62	2.90	392	6.1	7.30
1014	"	15.21	1.80	0.55	2.91	389	8.5	7.34
1017	"	15.24	1.77	0.48	2.92	387	5.6	7.38
1020	"	15.45	1.73	0.47	2.92	388	5.5	7.40

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

LOW-FLOW GROUNDWATER SAMPLING LOG

Project: Delatte Metals Superfund Site
Project No.: N-207-0006
Site Location: Ponchatoula, Louisiana
Monitor Well No.: MW-1
Date Purged/Sampled: 2/11/10 **Sampled By:** Amma JAH

MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 28.5 ft.
Static Depth to Groundwater (DTW): 12.64 ft.
Screen Length (SL) from Boring Logs: 15 ft.
Depth to Top of Well Screen (TD-SL): 13 ft.
Height of Water Column (H=TD-DTW): 15.86 ft.

Purge Flow Rate: — gpm 225 mL ~~liter~~/min
Volume Purged: 1 gal. — liters
Date/Time of Sample: 2/11/10 Date 1053 Time

WELL CASING VOLUME CALCULATIONS

☒ 2" Well (H x 0.163 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _____ gal. (1 well volume) _____ gal. (3 well volumes)
☐ Other: _____

PURGING METHOD

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Water Well
☐ Other (Specify)

METHOD OF SAMPLE COLLECTION

☒ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) _____

LOW-FLOW MONITORING PARAMETERS

Time	Volume Purged	Temp.	Specific Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	DTW
hr/min	Gal (cumulative)	°C	mS/sec	mg/L	Standard Units	Eh	NTU or FTU	feet
Targets	0.1 to 0.5 L/min or 0.026 to 0.132 gpm	+/- 1°C	+/- 3%	+/- 10%	+/- 0.1	+/- 10%	+/- 10% (if >10 NTU or FTU)	<0.3 ft. or Top of Screen
1036	225 mL/min	—	—	—	—	—	—	12.64
1040	"	17.89	2.86	1.23	3.77	191	6.0	12.70
1043	"	18.38	3.53	0.71	3.20	175	4.4	12.71
1046	"	18.65	4.45	0.60	3.13	171	3.7	12.73
1050	"	18.74	4.48	0.52	3.12	162	3.2	12.73
1053	"	18.67	4.53	0.45	3.11	152	2.9	12.73

Notes: 1. Well is stable if 3 consecutive measurements of as many as 3 indicators are within their target ranges.
2. Take measurements every 3 to 5 minutes.

Total Metals Collected	X	Dissolved Metals Collected	

SHEET 1 OF 1

FCC environmental

523 N. Sam Houston Parkway East, Suite 400, Houston, TX 77060

1-800-523-9071

CUSTOMER CONTACT
KEVIN

PHONE NUMBER
225-753-4949

SITE NUMBER NAME AND ADDRESS
28290102
DELATTE METAL
19113 WEINBERGER RD

PONCHATOULA LA 70454-0000
V-R-N:

SPECIAL NOTES

504.237.8848

OB JESSE HOPPES W/ SEMS. BILL TO SEMS (283054). TO BE COMPLETED TUESDAY 2-9-10. LMB 01-29-10

SERVICE ORDER

NUMBER 3339584

PAGE 1 OF 1

CALL TYPE	PROBLEM CODE	ORDER ORIGIN
DD		CC

PRIORITY
N1

CALL WAS TAKEN ON 01-29 AT 1213 BY BOWL

P.O. NUMBER
207-0006

ROUTE
NODM

ASSIGNED TECH
282001 GEORGE HORTON

PROBLEM SYNOPSIS, AS REPORTED
DRUM COLLECTION

M/A NUMBER
MA0407463

PROMISE DATE, TIME
02-09-10

VEHICLE NO.	TRAILER NO.	UPTIME UNIT NO.	TT	TM	ST	ARRIVE DATE	ARRIVE TIME	CLOSE DATE	CLOSE TIME	JOB COMPLETE
961369	N/A	289279	1.0	42	0.25	2-9-10	11:45	2-9-10	12:00	YES NO

PART / DESCRIPTION	U/M	QUANTITY	HM	SHIPPING DESCRIPTION	SERIAL # GLYCOL	SERIAL # pH	# CONT BRIX	# CONT SNIFFER	TYPE C-D-T
M ENERGYSURCHS ENERGY SURCGH SVC	EA								
COL-FUELWFDM FUEL WATER FLAMMABLE DM	DM	4		1 X Flammable Liquids n.o.s., (Gasoline/water mixture),3, UN1993, PGII					

Reuse Qualification Statement

By signing this document, I hereby certify that I understand the used Hydrocarbon Recovery Services, Inc. degreasing fluid (i.e. Mineral spirits, petroleum naphtha) returned to Hydrocarbon Recovery Services, Inc. for inclusion in the Hydrocarbon Recovery Services, Inc. Reuse Program will be utilized as an effective substitute for chemical product. For the purpose of qualifying to participate in the Program, I further certify that any used degreasing fluid so returned to Hydrocarbon Recovery Services, Inc. has not been mixed with hazardous waste or other objectionable substances.

All constituents that may be present in the degreasing fluid are contaminants resulting from, and incidental to, normal use of the solvent as a degreaser or cleaner. I have reviewed our physical facilities, administrative practices, and operational procedures and based on this review do willing make this true, accurate and complete certification.

Reuse Solvent QA & QC

Yes No
- ☐ ☐ Used solvent passed visual inspection
- ☐ ☐ Used solvent has no unusual odor
- ☐ ☐ Parts Cleaner is clean (front/back)
- ☐ ☐ Fusible link operational

Yes No Rep Initials _____
- ☐ ☐ Light assembly is in good working order
- ☐ ☐ Lid is unobstructed
- ☐ ☐ Parts Cleaner is properly grounded

Authorization Signature

I agree to pay for the above services and/or products and to be bound by the terms and conditions set forth above and on the reverse side of this document.

Jesse Hoppes mbh LDEQ 2/9/10

PRINT CUSTOMER NAME / CUSTOMER SIGNATURE / DATE

031658

_____ Initial if Conditionally Exempt Small Quantity Generator as defined in 40 CFR 261.5
_____ Initial if Do-it-yourself collection center

Generator EPA ID# UNKNOWN

The GENERATOR hereby certifies that the material collected from the GENERATOR'S facility by Hydrocarbon Recovery Services, Inc. does not contain any PCB's as defined in 40 CFR 761 and is not hazardous waste or been mixed with a listed or characteristic hazardous waste as defined in 40 CFR 261. If the material collected is a used oil as defined in 40 CFR part 279, the GENERATOR certifies that the total halogen content is less than 1,000 ppm, or the GENERATOR hereby certifies that the rebuttable waste presumption under 40 CFR Part 279 has been rebutted. The GENERATOR will be responsible for any and all costs including, but not limited to, proper disposal, testing, and transportation if the material contains PCB's or is determined to be a hazardous waste. I certify that to the best of my knowledge, the information presented herein is correct and accurate, and I am authorized to sign on behalf of the GENERATOR.

Shipping Declaration:

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Transporter Information:
Hydrocarbon Recovery Services, Inc.
523 N. Sam Houston Parkway East, Suite 400
Houston, TX 77060
US DOT ID#: 1688621
EPA ID#: TXR000078094
EMERGENCY CONTACT CHEMTREC (800) 424-9300

Designated Facility
14890 Intracoastal Drive
New Orleans, LA 70129
(800) 523-9071
EPA ID#: LAD092096106

George 2-9-10 X

DRIVER SIGNATURE / DATE RECEIVED AT PLANT / DATE

FILE

LF 070 Rev A

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

10020428

Report To:		Project Name:	N-207-0006
SEMS, INC.		Site:	DELATTE METALS
JESSE HOPPES		Site Address:	
11628 S. CHOCTAW DRIVE			PONCHATOULA LA
		PO Number:	
BATON ROUGE		State:	Louisiana
LA		State Cert. No.:	02048
70815-		Date Reported:	2/23/2010
ph: (225) 924-2002	fax:		

I. SAMPLE RECEIPT

A. All samples were received intact. The internal ice chest temperatures were measured upon receipt and recorded on the Sample Receipt Checklist included in this data package.

II. ANALYSIS

A. Holding Times: All analyses were completed within the recommended holding time.

B. Measurement Basis: "J" values may be presented for the analyses in this report. Programmatically, "J" values are those confirmed values for components detected less than the "Rep. Limit" but greater than the laboratory method detection limit (MDL). Thus, it should be noted that positive values may appear on quantitation reports but not on Form I if those values are below the MDL.

C. Analytical Exceptions:

Total Metals by method 6020: Laboratory batch 87095-Target analyte Manganese was detected in the method blank at a concentration below the laboratory reporting limits (0.000277J mg/L.) The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in SPL's quality control program had Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Manganese and Nickel due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits. Laboratory batch 87906-Target analyte Manganese was detected in the method blank at a concentration below the laboratory reporting limits (0.000279J mg/L.) The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in SPL's quality control program had Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Manganese and Nickel due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Dissolved Metals by method 6020: Laboratory batch 87103-Target analytes Manganese (0.0022J mg/L) and Nickel (0.00677 mg/L) were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

III. QUALITY CONTROL

A. Analytical Protocol and Deliverables: The samples were analyzed in accordance with the protocol requirements.

B. Initial and Continuing Calibrations: All QA acceptance criteria were met for initial and continuing calibration samples.

C. Blanks: Method and calibration blanks met the method criteria except as otherwise noted.

2/23/2010

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

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NOTE: This data package was produced using software base on CLP type deliverables. The forms and documentation in this data package are to be considered "CLP-like" and may not meet all the criteria specified in the CLP protocols. The data are reported based on the method requirements.

CERTIFICATION:

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 has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

2/23/2010

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

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SEMS, INC.

Certificate of Analysis Number:

10020428

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: N-207-0006
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 2/23/2010

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
BA-09A	10020428-01	Water	2/8/2010 10:53:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-09	10020428-02	Water	2/8/2010 11:21:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-04	10020428-03	Water	2/8/2010 11:51:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
WW-09	10020428-04	Water	2/8/2010 12:25:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
WW-04	10020428-05	Water	2/8/2010 2:20:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
(b) (6) WELL	10020428-06	Water	2/8/2010 2:30:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-03	10020428-07	Water	2/8/2010 3:09:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-07	10020428-08	Water	2/9/2010 8:19:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-07MS	10020428-08MS	Water	2/9/2010 8:19:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-07MSD	10020428-08MSD	Water	2/9/2010 8:19:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DW-04	10020428-09	Water	2/9/2010 8:48:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-19	10020428-10	Water	2/9/2010 9:11:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-25	10020428-11	Water	2/9/2010 9:43:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-03	10020428-12	Water	2/9/2010 10:06:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-06	10020428-13	Water	2/9/2010 11:01:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BB-01	10020428-14	Water	2/9/2010 11:50:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
SOUTH WELL	10020428-15	Water	2/9/2010 12:25:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-17	10020428-16	Water	2/9/2010 12:50:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
NORTH WELL	10020428-17	Water	2/9/2010 12:55:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-21R	10020428-18	Water	2/9/2010 1:19:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01A	10020428-19	Water	2/9/2010 1:53:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01AMS	10020428-19MS	Water	2/9/2010 1:53:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01AMSD	10020428-19MSD	Water	2/9/2010 1:53:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01	10020428-20	Water	2/9/2010 2:19:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐

2/23/2010

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

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Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
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70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: N-207-0006
Site: DELATTE METALS
Site Address:

PONCHATOULA LA

PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 2/23/2010

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DW-03	10020428-21	Water	2/10/2010 9:53:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
PW-04	10020428-22	Water	2/10/2010 10:28:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DW-02	10020428-23	Water	2/10/2010 11:40:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-05A	10020428-24	Water	2/10/2010 12:03:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-05	10020428-25	Water	2/10/2010 12:38:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-A	10020428-26	Water	2/10/2010 2:13:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DW-01	10020428-27	Water	2/10/2010 2:50:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-03A	10020428-28	Water	2/10/2010 3:26:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-03	10020428-29	Water	2/10/2010 3:57:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-02	10020428-30	Water	2/11/2010 10:20:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-01	10020428-31	Water	2/11/2010 10:53:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #1	10020428-32	Water	2/9/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #2	10020428-33	Water	2/10/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #3	10020428-34	Water	2/10/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #4	10020428-35	Water	2/10/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐

2/23/2010

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BA-09A **Collected:** 02/08/2010 10:53 **SPL Sample ID:** 10020428-01

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 17:47	RJD	3457642
Lead	0.000504	J	0.000137	0.001	1	02/15/10 17:47	RJD	3457642
Manganese	0.0234		9.14E-05	0.002	1	02/15/10 17:47	RJD	3457642
Nickel	ND		0.000678	0.002	1	02/15/10 17:47	RJD	3457642
Thallium	ND		0.000147	0.002	1	02/15/10 17:47	RJD	3457642

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
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Client Sample ID: BA-09 **Collected:** 02/08/2010 11:21 **SPL Sample ID:** 10020428-02

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	ND		0.000687	0.005	5	02/16/10 12:22	RJD	3458574
Manganese	3.41		9.14E-05	0.002	1	02/15/10 17:50	RJD	3457643
Nickel	0.161		0.000678	0.002	1	02/15/10 17:50	RJD	3457643
Thallium	ND		0.000735	0.01	5	02/16/10 12:22	RJD	3458574

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	0.0452		0.00797	0.02	1	02/19/10 20:32	SVW	3464457

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

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J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-04 **Collected:** 02/08/2010 11:51 **SPL Sample ID:** 10020428-03

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 17:53	RJD	3457644
Lead	0.000524	J	0.000137	0.001	1	02/15/10 17:53	RJD	3457644
Manganese	0.0077		9.14E-05	0.002	1	02/15/10 17:53	RJD	3457644
Nickel	ND		0.000678	0.002	1	02/15/10 17:53	RJD	3457644
Thallium	ND		0.000147	0.002	1	02/15/10 17:53	RJD	3457644

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
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Client Sample ID: WW-09 **Collected:** 02/08/2010 12:25 **SPL Sample ID:** 10020428-04

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 17:55	RJD	3457645
Lead	0.000381	J	0.000137	0.001	1	02/15/10 17:55	RJD	3457645
Manganese	0.0144		9.14E-05	0.002	1	02/15/10 17:55	RJD	3457645
Nickel	ND		0.000678	0.002	1	02/15/10 17:55	RJD	3457645
Thallium	ND		0.000147	0.002	1	02/15/10 17:55	RJD	3457645

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: WW-04 **Collected:** 02/08/2010 14:20 **SPL Sample ID:** 10020428-05

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 17:58	RJD	3457646
Lead	ND		0.000137	0.001	1	02/15/10 17:58	RJD	3457646
Manganese	0.00297		9.14E-05	0.002	1	02/15/10 17:58	RJD	3457646
Nickel	ND		0.000678	0.002	1	02/15/10 17:58	RJD	3457646
Thallium	ND		0.000147	0.002	1	02/15/10 17:58	RJD	3457646

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: (b) (6) WELL **Collected:** 02/08/2010 14:30 **SPL Sample ID:** 10020428-06

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:01	RJD	3457647
Lead	0.00292		0.000137	0.001	1	02/15/10 18:01	RJD	3457647
Manganese	0.0203		9.14E-05	0.002	1	02/15/10 18:01	RJD	3457647
Nickel	ND		0.000678	0.002	1	02/15/10 18:01	RJD	3457647
Thallium	ND		0.000147	0.002	1	02/15/10 18:01	RJD	3457647

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
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Client Sample ID: BC-03 **Collected:** 02/08/2010 15:09 **SPL Sample ID:** 10020428-07

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:03	RJD	3457648
Lead	0.000221	J	0.000137	0.001	1	02/15/10 18:03	RJD	3457648
Manganese	0.00138	J	9.14E-05	0.002	1	02/15/10 18:03	RJD	3457648
Nickel	0.00146	J	0.000678	0.002	1	02/15/10 18:03	RJD	3457648
Thallium	ND		0.000147	0.002	1	02/15/10 18:03	RJD	3457648

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
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TNTC - Too numerous to count

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SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BC-07 **Collected:** 02/09/2010 8:19 **SPL Sample ID:** 10020428-08

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 17:26	RJD	3457634
Lead	0.000163	J	0.000137	0.001	1	02/15/10 17:26	RJD	3457634
Manganese	0.0129		9.14E-05	0.002	1	02/15/10 17:26	RJD	3457634
Nickel	0.000783	J	0.000678	0.002	1	02/15/10 17:26	RJD	3457634
Thallium	0.00022	J	0.000147	0.002	1	02/15/10 17:26	RJD	3457634

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

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* - Surrogate Recovery Outside Advisable QC Limits
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LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DW-04 **Collected:** 02/09/2010 8:48 **SPL Sample ID:** 10020428-09

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:06	RJD	3457649
Lead	0.000534	J	0.000137	0.001	1	02/15/10 18:06	RJD	3457649
Manganese	0.000732	J	9.14E-05	0.002	1	02/15/10 18:06	RJD	3457649
Nickel	ND		0.000678	0.002	1	02/15/10 18:06	RJD	3457649
Thallium	ND		0.000147	0.002	1	02/15/10 18:06	RJD	3457649

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-19 **Collected:** 02/09/2010 9:11 **SPL Sample ID:** 10020428-10

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:09	RJD	3457650
Lead	0.000185	J	0.000137	0.001	1	02/15/10 18:09	RJD	3457650
Manganese	0.00119	J	9.14E-05	0.002	1	02/15/10 18:09	RJD	3457650
Nickel	0.00104	J	0.000678	0.002	1	02/15/10 18:09	RJD	3457650
Thallium	ND		0.000147	0.002	1	02/15/10 18:09	RJD	3457650

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-25 **Collected:** 02/09/2010 9:43 **SPL Sample ID:** 10020428-11

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:12	RJD	3457651
Lead	0.000153	J	0.000137	0.001	1	02/15/10 18:12	RJD	3457651
Manganese	0.00641		9.14E-05	0.002	1	02/15/10 18:12	RJD	3457651
Nickel	ND		0.000678	0.002	1	02/15/10 18:12	RJD	3457651
Thallium	ND		0.000147	0.002	1	02/15/10 18:12	RJD	3457651

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: MW-03 **Collected:** 02/09/2010 10:06 **SPL Sample ID:** 10020428-12

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:20	RJD	3457654
Lead	0.00508		0.000137	0.001	1	02/15/10 18:20	RJD	3457654
Manganese	0.462		9.14E-05	0.002	1	02/15/10 18:20	RJD	3457654
Nickel	0.00141	J	0.000678	0.002	1	02/15/10 18:20	RJD	3457654
Thallium	ND		0.000147	0.002	1	02/15/10 18:20	RJD	3457654

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: MW-06 **Collected:** 02/09/2010 11:01 **SPL Sample ID:** 10020428-13

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.000493	J	0.000137	0.001	1	02/15/10 18:22	RJD	3457655
Manganese	2.25		9.14E-05	0.002	1	02/15/10 18:22	RJD	3457655
Nickel	0.0191		0.000678	0.002	1	02/15/10 18:22	RJD	3457655
Thallium	ND		0.000147	0.002	1	02/15/10 18:22	RJD	3457655

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	ND		0.00797	0.02	1	02/19/10 20:22	SVW	3464455

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BB-01 **Collected:** 02/09/2010 11:50 **SPL Sample ID:** 10020428-14

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	0.00319	J	0.00145	0.004	1	02/15/10 18:25	RJD	3457656
Lead	0.00591		0.000137	0.001	1	02/15/10 18:25	RJD	3457656
Manganese	0.00421		9.14E-05	0.002	1	02/15/10 18:25	RJD	3457656
Nickel	0.00104	J	0.000678	0.002	1	02/15/10 18:25	RJD	3457656
Thallium	ND		0.000147	0.002	1	02/15/10 18:25	RJD	3457656

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: SOUTH WELL **Collected:** 02/09/2010 12:25 **SPL Sample ID:** 10020428-15

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:28	RJD	3457657
Lead	0.000213	J	0.000137	0.001	1	02/15/10 18:28	RJD	3457657
Manganese	0.00364		9.14E-05	0.002	1	02/15/10 18:28	RJD	3457657
Nickel	ND		0.000678	0.002	1	02/15/10 18:28	RJD	3457657
Thallium	ND		0.000147	0.002	1	02/15/10 18:28	RJD	3457657

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-17 **Collected:** 02/09/2010 12:50 **SPL Sample ID:** 10020428-16

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:30	RJD	3457658
Lead	0.0209		0.000137	0.001	1	02/15/10 18:30	RJD	3457658
Manganese	0.0709		9.14E-05	0.002	1	02/15/10 18:30	RJD	3457658
Nickel	0.00138	J	0.000678	0.002	1	02/15/10 18:30	RJD	3457658
Thallium	ND		0.000147	0.002	1	02/15/10 18:30	RJD	3457658

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: NORTH WELL **Collected:** 02/09/2010 12:55 **SPL Sample ID:** 10020428-17

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:33	RJD	3457659
Lead	0.000732	J	0.000137	0.001	1	02/15/10 18:33	RJD	3457659
Manganese	0.00324		9.14E-05	0.002	1	02/15/10 18:33	RJD	3457659
Nickel	ND		0.000678	0.002	1	02/15/10 18:33	RJD	3457659
Thallium	ND		0.000147	0.002	1	02/15/10 18:33	RJD	3457659

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-21R **Collected:** 02/09/2010 13:19 **SPL Sample ID:** 10020428-18

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 18:36	RJD	3457660
Lead	0.000162	J	0.000137	0.001	1	02/15/10 18:36	RJD	3457660
Manganese	0.00642		9.14E-05	0.002	1	02/15/10 18:36	RJD	3457660
Nickel	0.000979	J	0.000678	0.002	1	02/15/10 18:36	RJD	3457660
Thallium	ND		0.000147	0.002	1	02/15/10 18:36	RJD	3457660

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-01A **Collected:** 02/09/2010 13:53 **SPL Sample ID:** 10020428-19

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	0.00417		0.00145	0.004	1	02/15/10 19:00	RJD	3457668
Lead	0.000339	J	0.000137	0.001	1	02/15/10 19:00	RJD	3457668
Manganese	0.0066		9.14E-05	0.002	1	02/15/10 19:00	RJD	3457668
Nickel	ND		0.000678	0.002	1	02/15/10 19:00	RJD	3457668
Thallium	0.000237	J	0.000147	0.002	1	02/15/10 19:00	RJD	3457668

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-01 **Collected:** 02/09/2010 14:19 **SPL Sample ID:** 10020428-20

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**	**SW6020 Units: mg/L**		
Lead	ND		0.000137	0.001	1	02/16/10 10:39	RJD	3458555
Manganese	1.59		9.14E-05	0.002	1	02/16/10 10:39	RJD	3458555
Nickel	0.0546		0.000678	0.009	1	02/16/10 10:39	RJD	3458555
Thallium	ND		0.000147	0.002	1	02/16/10 10:39	RJD	3458555

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/12/2010 14:00	SA	1.00

DISSOLVED METALS BY METHOD 6010B					**MCL**	**SW6010B Units: mg/L**		
Arsenic	0.00829	J	0.00797	0.02	1	02/19/10 23:07	SVW	3464484

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/12/2010 14:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.000806	J	0.000137	0.001	1	02/15/10 18:38	RJD	3457661
Manganese	1.34		9.14E-05	0.002	1	02/15/10 18:38	RJD	3457661
Nickel	0.0465		0.000678	0.002	1	02/15/10 18:38	RJD	3457661
Thallium	ND		0.000147	0.002	1	02/15/10 18:38	RJD	3457661

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	0.0172	J	0.00797	0.02	1	02/19/10 20:27	SVW	3464456

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DW-03 **Collected:** 02/10/2010 9:53 **SPL Sample ID:** 10020428-21

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	0.0018	J	0.00145	0.004	1	02/16/10 12:37	RJD	3458577
Lead	0.22		0.000137	0.001	1	02/16/10 12:37	RJD	3458577
Manganese	0.284		9.14E-05	0.002	1	02/15/10 19:21	RJD	3457676
Nickel	0.0145		0.000678	0.002	1	02/15/10 19:21	RJD	3457676
Thallium	ND		0.000147	0.002	1	02/16/10 12:37	RJD	3458577

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: PW-04 **Collected:** 02/10/2010 10:28 **SPL Sample ID:** 10020428-22

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.000655	J	0.000137	0.001	1	02/16/10 12:40	RJD	3458578
Manganese	1.5		9.14E-05	0.002	1	02/15/10 19:24	RJD	3457677
Nickel	0.0358		0.000678	0.002	1	02/15/10 19:24	RJD	3457677
Thallium	ND		0.000147	0.002	1	02/16/10 12:40	RJD	3458578

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	ND		0.00797	0.02	1	02/19/10 21:57	SVW	3464472

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DW-02 **Collected:** 02/10/2010 11:40 **SPL Sample ID:** 10020428-23

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.046		0.000687	0.005	5	02/16/10 12:53	RJD	3458582
Manganese	9.15		9.14E-05	0.002	1	02/15/10 19:27	RJD	3457678
Nickel	0.388		0.000678	0.002	1	02/15/10 19:27	RJD	3457678
Thallium	ND		0.000735	0.01	5	02/16/10 12:53	RJD	3458582

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	0.0915		0.00797	0.02	1	02/19/10 22:02	SVW	3464473

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-05A **Collected:** 02/10/2010 12:03 **SPL Sample ID:** 10020428-24

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 12:58	RJD	3458584
Lead	ND		0.000137	0.001	1	02/16/10 12:58	RJD	3458584
Manganese	0.012		9.14E-05	0.002	1	02/15/10 19:29	RJD	3457679
Nickel	ND		0.000678	0.002	1	02/15/10 19:29	RJD	3457679
Thallium	ND		0.000147	0.002	1	02/16/10 12:58	RJD	3458584

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-05 **Collected:** 02/10/2010 12:38 **SPL Sample ID:** 10020428-25

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/16/10 13:01	RJD	3458585
Lead	ND		0.000137	0.001	1	02/16/10 13:01	RJD	3458585
Manganese	15.4		9.14E-05	0.002	1	02/15/10 19:32	RJD	3457680
Nickel	0.058		0.000678	0.002	1	02/15/10 19:32	RJD	3457680
Thallium	ND		0.000147	0.002	1	02/16/10 13:01	RJD	3458585

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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SCOTT, LA 70583
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Client Sample ID: MW-A **Collected:** 02/10/2010 14:13 **SPL Sample ID:** 10020428-26

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:04	RJD	3458586
Lead	ND		0.000137	0.001	1	02/16/10 13:04	RJD	3458586
Manganese	0.00402		9.14E-05	0.002	1	02/15/10 19:35	RJD	3457681
Nickel	ND		0.000678	0.002	1	02/15/10 19:35	RJD	3457681
Thallium	ND		0.000147	0.002	1	02/16/10 13:04	RJD	3458586

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DW-01 **Collected:** 02/10/2010 14:50 **SPL Sample ID:** 10020428-27

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**	**SW6020 Units: mg/L**		
Arsenic	0.0029	J	0.00145	0.004	1	02/16/10 11:11	RJD	3458564
Lead	0.00283		0.000137	0.001	1	02/16/10 11:11	RJD	3458564
Manganese	6.21		9.14E-05	0.002	1	02/16/10 11:11	RJD	3458564
Nickel	0.022		0.000678	0.009	1	02/16/10 11:11	RJD	3458564
Thallium	ND		0.000147	0.002	1	02/16/10 11:11	RJD	3458564

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/12/2010 14:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	0.0648		0.00145	0.004	1	02/16/10 13:06	RJD	3458587
Lead	0.00357		0.000137	0.001	1	02/16/10 13:06	RJD	3458587
Manganese	5.19		9.14E-05	0.002	1	02/15/10 19:37	RJD	3457682
Nickel	0.0187		0.000678	0.002	1	02/15/10 19:37	RJD	3457682
Thallium	ND		0.000147	0.002	1	02/16/10 13:06	RJD	3458587

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-03A **Collected:** 02/10/2010 15:26 **SPL Sample ID:** 10020428-28

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/16/10 13:09	RJD	3458588
Lead	ND		0.000137	0.001	1	02/16/10 13:09	RJD	3458588
Manganese	0.0238		9.14E-05	0.002	1	02/15/10 19:40	RJD	3457683
Nickel	ND		0.000678	0.002	1	02/15/10 19:40	RJD	3457683
Thallium	ND		0.000147	0.002	1	02/16/10 13:09	RJD	3458588

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-03 **Collected:** 02/10/2010 15:57 **SPL Sample ID:** 10020428-29

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.146		0.000137	0.001	1	02/16/10 13:12	RJD	3458589
Manganese	2.2		9.14E-05	0.002	1	02/15/10 19:43	RJD	3457684
Nickel	0.0898		0.000678	0.002	1	02/15/10 19:43	RJD	3457684
Thallium	ND		0.000147	0.002	1	02/16/10 13:12	RJD	3458589

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	0.015	J	0.00797	0.02	1	02/19/10 22:07	SVW	3464474

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: MW-02 **Collected:** 02/11/2010 10:20 **SPL Sample ID:** 10020428-30

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.0015		0.000137	0.001	1	02/16/10 13:17	RJD	3458591
Manganese	0.728		9.14E-05	0.002	1	02/15/10 19:45	RJD	3457685
Nickel	0.0775		0.000678	0.002	1	02/15/10 19:45	RJD	3457685
Thallium	ND		0.000147	0.002	1	02/16/10 13:17	RJD	3458591

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	ND		0.00797	0.02	1	02/19/10 22:12	SVW	3464475

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: MW-01 **Collected:** 02/11/2010 10:53 **SPL Sample ID:** 10020428-31

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.00389	J	0.000687	0.005	5	02/16/10 13:31	RJD	3458595
Manganese	3.57		9.14E-05	0.002	1	02/15/10 19:54	RJD	3457688
Nickel	0.15		0.000678	0.002	1	02/15/10 19:54	RJD	3457688
Thallium	ND		0.000735	0.01	5	02/16/10 13:31	RJD	3458595

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	0.0792		0.00797	0.02	1	02/19/10 22:17	SVW	3464476

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DUPLICATE #1 **Collected:** 02/09/2010 0:00 **SPL Sample ID:** 10020428-32

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL						**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004		1	02/16/10 13:36	RJD	3458597
Lead	0.0153		0.000137	0.001		1	02/16/10 13:36	RJD	3458597
Manganese	0.0762		9.14E-05	0.002		1	02/15/10 19:56	RJD	3457689
Nickel	0.00139	J	0.000678	0.002		1	02/15/10 19:56	RJD	3457689
Thallium	ND		0.000147	0.002		1	02/16/10 13:36	RJD	3458597

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DUPLICATE #2 **Collected:** 02/10/2010 0:00 **SPL Sample ID:** 10020428-33

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.000508	J	0.000137	0.001	1	02/16/10 13:39	RJD	3458598
Manganese	1.43		9.14E-05	0.002	1	02/15/10 19:59	RJD	3457690
Nickel	0.0326		0.000678	0.002	1	02/15/10 19:59	RJD	3457690
Thallium	ND		0.000147	0.002	1	02/16/10 13:39	RJD	3458598

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	ND		0.00797	0.02	1	02/19/10 22:23	SVW	3464477

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DUPLICATE #3 **Collected:** 02/10/2010 0:00 **SPL Sample ID:** 10020428-34

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:41	RJD	3458599
Lead	ND		0.000137	0.001	1	02/16/10 13:41	RJD	3458599
Manganese	0.00171	J	9.14E-05	0.002	1	02/15/10 20:02	RJD	3457691
Nickel	ND		0.000678	0.002	1	02/15/10 20:02	RJD	3457691
Thallium	ND		0.000147	0.002	1	02/16/10 13:41	RJD	3458599

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DUPLICATE #4 **Collected:** 02/10/2010 0:00 **SPL Sample ID:** 10020428-35

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:44	RJD	3458600
Lead	0.000184	J	0.000137	0.001	1	02/16/10 13:44	RJD	3458600
Manganese	0.0259		9.14E-05	0.002	1	02/15/10 20:04	RJD	3457692
Nickel	ND		0.000678	0.002	1	02/15/10 20:04	RJD	3457692
Thallium	ND		0.000147	0.002	1	02/16/10 13:44	RJD	3458600

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87095

Method Blank

RunID: ICPDV_100219D-3464445 Units: mg/L
Analysis Date: 02/19/2010 19:32 Analyst: SVW
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00797

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-02A	BA-09
10020428-13A	MW-06
10020428-20A	BA-01

Laboratory Control Sample (LCS)

RunID: ICPDV_100219D-3464446 Units: mg/L
Analysis Date: 02/19/2010 19:37 Analyst: SVW
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1144	114.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-08
RunID: ICPDV_100219D-3464449 Units: mg/L
Analysis Date: 02/19/2010 19:52 Analyst: SVW
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.1176	117.6		0.1	0.1121	112.1		4.821		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87095-I

Method Blank

RunID: ICPMS_100215A-3457632 Units: mg/L
Analysis Date: 02/15/2010 17:21 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00145
Lead	ND		0.001	0.000137
Manganese	0.000277	J	0.002	0.0000914
Nickel	ND		0.002	0.000678
Thallium	ND		0.002	0.000147

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-01A	BA-09A
10020428-02A	BA-09
10020428-03A	MW-04
10020428-04A	WW-09
10020428-05A	WW-04
10020428-06A	(b) (6) WELL
10020428-07A	BC-03
10020428-08A	BC-07
10020428-09A	DW-04
10020428-10A	BC-19
10020428-11A	BC-25
10020428-12A	MW-03
10020428-13A	MW-06
10020428-14A	BB-01
10020428-15A	SOUTH WELL
10020428-16A	BC-17
10020428-17A	NORTH WELL
10020428-18A	BC-21R
10020428-20A	BA-01

Laboratory Control Sample (LCS)

RunID: ICPMS_100215A-3457633 Units: mg/L
Analysis Date: 02/15/2010 17:23 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09557	95.57		80	120
Lead	0.1000	0.1105	110.5		80	120
Manganese	0.1000	0.09684	96.84		80	120
Nickel	0.1000	0.09450	94.50		80	120
Thallium	0.1000	0.1094	109.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: **Metals by Method 6020 (ICP/MS), Total** **WorkOrder:** **10020428**
Method: **SW6020** **Lab Batch ID:** **87095-I**

Sample Spiked: 10020428-08
RunID: ICPMS_100215A-3457636 Units: mg/L
Analysis Date: 02/15/2010 17:31 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.08697	86.97		0.1	0.07762	77.62		11.35		20	75	125
Lead	0.0001632	J	0.1	0.09341	93.24		0.1	0.08222	82.05		12.74		20	75	125
Manganese	0.01288	B	0.1	0.09721	84.33		0.1	0.08531	72.43	*	13.04		20	75	125
Nickel	0.0007827	J	0.1	0.07987	79.08		0.1	0.07132	70.54	*	11.30		20	75	125
Thallium	0.0002199	J	0.1	0.09135	91.13		0.1	0.08192	81.70		10.88		20	75	125

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 10020428-08
RunID: ICPMS_100215A-3457638 Units: mg/L
Analysis Date: 02/15/2010 17:37 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Manganese	0.0129	0.5	0.4511	87.65	0.5	0.4831	94.04	6.840	20	75	125
Nickel	0.000783	0.5	0.4317	86.19	0.5	0.4585	91.54	6.013	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87096

Method Blank

RunID: ICPDV_100219D-3464462 Units: mg/L
Analysis Date: 02/19/2010 21:07 Analyst: SVW
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00797

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-22A	PW-04
10020428-23A	DW-02
10020428-29A	BA-03
10020428-30A	MW-02
10020428-31A	MW-01
10020428-33A	DUPLICATE #2

Laboratory Control Sample (LCS)

RunID: ICPDV_100219D-3464463 Units: mg/L
Analysis Date: 02/19/2010 21:12 Analyst: SVW
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1170	117.0		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-19
RunID: ICPDV_100219D-3464466 Units: mg/L
Analysis Date: 02/19/2010 21:27 Analyst: SVW
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.01395	J	0.1	0.1239	109.9		0.1	0.1151	101.2		7.306		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

2/23/2010 9:20:14 AM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 10020428
Method: SW6020 **Lab Batch ID:** 87096-I

Method Blank

RunID: ICPMS_100215A-3457666 Units: mg/L
Analysis Date: 02/15/2010 18:55 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00145
Lead	ND		0.001	0.000137
Manganese	0.000279	J	0.002	0.0000914
Nickel	ND		0.002	0.000678
Thallium	ND		0.002	0.000147

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-19A	BA-01A
10020428-21A	DW-03
10020428-22A	PW-04
10020428-23A	DW-02
10020428-24A	BA-05A
10020428-25A	BA-05
10020428-26A	MW-A
10020428-27A	DW-01
10020428-28A	BA-03A
10020428-29A	BA-03
10020428-30A	MW-02
10020428-31A	MW-01
10020428-32A	DUPLICATE #1
10020428-33A	DUPLICATE #2
10020428-34A	DUPLICATE #3
10020428-35A	DUPLICATE #4

Laboratory Control Sample (LCS)

RunID: ICPMS_100215A-3457667 Units: mg/L
Analysis Date: 02/15/2010 18:57 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09538	95.38		80	120
Lead	0.1000	0.1110	111.0		80	120
Manganese	0.1000	0.09043	90.43		80	120
Nickel	0.1000	0.08917	89.17		80	120
Thallium	0.1000	0.1114	111.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-19
RunID: ICPMS_100215A-3457670 Units: mg/L
Analysis Date: 02/15/2010 19:05 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 10020428
Method: SW6020 **Lab Batch ID:** 87096-I

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.004168		0.1	0.08991	85.74		0.1	0.08652	82.35		3.849		20	75	125
Lead	0.0003388	J	0.1	0.09556	95.22		0.1	0.09022	89.88		5.752		20	75	125
Manganese	0.006595	B	0.1	0.08318	76.58		0.1	0.08147	74.88	*	2.073		20	75	125
Nickel	ND		0.1	0.07623	76.23		0.1	0.07348	73.48	*	3.662		20	75	125
Thallium	0.0002367	J	0.1	0.09355	93.32		0.1	0.08961	89.38		4.304		20	75	125

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 10020428-19
RunID: ICPMS_100215A-3457672 Units: mg/L
Analysis Date: 02/15/2010 19:11 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Manganese	0.0066	0.5	0.4767	94.02	0.5	0.4784	94.36	0.3517	20	75	125
Nickel	ND	0.5	0.4642	92.84	0.5	0.4719	94.39	1.652	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87103

Method Blank

RunID: ICPDV_100219D-3464482 Units: mg/L
Analysis Date: 02/19/2010 22:58 Analyst: SVW
Preparation Date: 02/12/2010 14:00 Prep By: SA Method SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-20B	BA-01

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00797

Laboratory Control Sample (LCS)

RunID: ICPDV_100219D-3464483 Units: mg/L
Analysis Date: 02/19/2010 23:03 Analyst: SVW
Preparation Date: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1095	109.5		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-20
RunID: ICPDV_100219D-3464486 Units: mg/L
Analysis Date: 02/19/2010 23:18 Analyst: SVW
Preparation Date: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.008288	J	0.1	0.1158	107.5		0.1	0.1222	113.9		5.344		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87103-I

Method Blank

RunID: ICPMS_100216A-3458553 Units: mg/L
Analysis Date: 02/16/2010 10:33 Analyst: RJD
Preparation Date: 02/12/2010 14:00 Prep By: SA Method SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-20B	BA-01
10020428-27B	DW-01

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00145
Lead	ND		0.001	0.000137
Manganese	0.00022	J	0.002	0.0000914
Nickel	0.00877		0.009	0.000678
Thallium	ND		0.002	0.000147

Laboratory Control Sample (LCS)

RunID: ICPMS_100216A-3458554 Units: mg/L
Analysis Date: 02/16/2010 10:35 Analyst: RJD
Preparation Date: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09143	91.43		80	120
Lead	0.1000	0.09884	98.84		80	120
Manganese	0.1000	0.1016	101.6		80	120
Nickel	0.1000	0.09937	99.37		80	120
Thallium	0.1000	0.09885	98.85		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-20
RunID: ICPMS_100216A-3458557 Units: mg/L
Analysis Date: 02/16/2010 10:45 Analyst: RJD
Preparation Date: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.05396	53.96	*	0.1	0.05466	54.66	*	1.278		20	75	125
Lead	ND		0.1	0.08715	87.15		0.1	0.09142	91.42		4.783		20	75	125
Manganese	1.587	B	0.1	1.634	N/C		0.1	1.743	N/C		N/C		20	75	125
Nickel	0.05464	B	0.1	0.1314	76.73		0.1	0.1374	82.72		4.457		20	75	125
Thallium	ND		0.1	0.08616	86.16		0.1	0.09094	90.94		5.404		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87103-I

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 10020428-20
RunID: ICPMS_100216A-3458559 Units: mg/L
Analysis Date: 02/16/2010 10:50 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	ND	0.5	0.4266	85.31	0.5	0.4495	89.91	5.242	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**10020428**	Received By:	**HJC**
Date and Time Received:	**2/11/2010 5:20:00 PM**	Carrier name:	**SPL-Driver-Other**
Temperature:	**4°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes	☑	No ☐	Not Present	☐
2.	**Custody seals intact on shippping container/cooler?**	Yes	☐	No ☐	Not Present	☑
3.	**Custody seals intact on sample bottles?**	Yes	☐	No ☐	Not Present	☑
4.	**Chain of custody present?**	Yes	☑	No ☐		
5.	**Chain of custody signed when relinquished and received?**	Yes	☑	No ☐		
6.	**Chain of custody agrees with sample labels?**	Yes	☑	No ☐		
7.	**Samples in proper container/bottle?**	Yes	☑	No ☐		
8.	**Sample containers intact?**	Yes	☑	No ☐		
9.	**Sufficient sample volume for indicated test?**	Yes	☑	No ☐		
10.	**All samples received within holding time?**	Yes	☑	No ☐		
11.	**Container/Temp Blank temperature in compliance?**	Yes	☑	No ☐		
12.	**Water - VOA vials have zero headspace?**	Yes	☐	No ☐	VOA Vials Not Present	☑
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes	☑	No ☐	Not Applicable	☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 302978

10020428 page 1 of 4

Client Name: SEMS, Inc.
Address: 3801 N. Causeway Blvd, suite 209
City Metairie State LA Zip 70002
Phone/Fax: 504-342-2340 / 504-342-2543
Client Contact: Jesse Hoppes Email: jhoppes@semsinc.net
Project Name/No.: 207-0006
Site Name: Delatte Metals Superfund Site
Site Location: Ponchatoula, LA
Invoice To: SEMS, Inc. Ph: 504-342-2340

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Total Metals	Dissolved Metals	MS/MSD						
BA-09A	2/8/10	1053		X	W	P	X	2	1	X								1
BA-09	2/8/10	1121		X	W	P	X	2	1	X								1
MW-04	2/8/10	1151		X	W	P	X	2	1	X								1
WW-09	2/8/10	1225		X	W	P	X	2	1	X								1
WW-04	2/8/10	1420		X	W	P	X	2	1	X								1
(b) (6) Well	2/8/10	1430		X	W	P	X	2	1	X								1
BC-03	2/8/10	1509		X	W	P	X	2	1	X								1
BC-07	2/9/10	819		X	W	P	X	2	3	X		X						3
DW-04	2/9/10	848		X	W	P	X	2	1	X								1
BC-19	2/9/10	911		X	W	P	X	2	1	X								1

Client/Consultant Remarks: Run Arsenic, Thallium, Lead, Nickel, & Manganese

Laboratory remarks: Cs on cooler, SPL Driver (3W)

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 4.0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☒ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/11/10	1315	2. Received by: [signature]
3. Relinquished by: [signature]	2/11/10	1430	4. Received by: [signature]
5. Relinquished by: [signature]	2-11-10	1720	6. Received by Laboratory: [signature]

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☑ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 302977

page 2 of 4

Client Name: SEMS, Inc.
Address: 3801 N. Causeway Blvd, Suite 209
City Metairie State LA Zip 70002
Phone/Fax: 504-342-2340 / 504-342-2543
Client Contact: Jesse Hoppes Email: jhoppes@semsinc.net
Project Name/No.: 207-006
Site Name: Delatte Metals Superfund site
Site Location: Ponchatoula, LA
Invoice To: SEMS, Inc. Ph: 504-342-2340

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	# Containers	Requested Analysis: Total Metals	Dissolved Metals (Field Filtered)	MS/MSD						
BC-25	2/9/10	~~0935~~ 0943		X	W	P	X	2	1	X								1
MW-03	2/9/10	1006		X	W	P	X	2	1	X								1
MW-06	2/9/10	1101		X	W	P	X	2	1	X								1
BB-01	2/9/10	1150		X	W	P	X	2	1	X								1
South Well	2/9/10	1225		X	W	P	X	2	1	X								1
BC-17	2/9/10	1250		X	W	P	X	2	1	X								1
North Well	2/9/10	1255		X	W	P	X	2	1	X								1
BC-21R	2/9/10	1319		X	W	P	X	2	1	X								1
BA-01A	2/9/10	1353		X	W	P	X	2	3	X		X						3
BA-01	2/9/10	1419		X	W	P	X	2	2	X	X							2

Client/Consultant Remarks:
Run Arsenic, Thallium, Lead, Nickel & Manganese

Laboratory remarks: CS on cooler, SPL Drum, (3W)

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 4c0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☒ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time		date	time
1. Relinquished by Sampler:	2/11/10	1315	2. Received by:		
3. Relinquished by:	2/11/10	1430	4. Received by:		
5. Relinquished by:	2-11-10	1720	6. Received by Laboratory:		

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☒ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 302965

page 3 of 4

Client Name: SEMS, Inc.
Address: 3801 N. Causeway Blvd. Suite 209
City Metairie State LA Zip 70002
Phone/Fax: 504-342-2340 / 504-342-2543
Client Contact: Jesse Hoppes Email: jhoppes@semsinc.net
Project Name/No.: 207-0006
Site Name: Delatte Metals Superfund Site
Site Location:
Invoice To: SEMS, Inc. Ph: 504-342-2340

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total Metals	Requested Analysis: Dissolved Metals (field filtered)	
DW-03	2/10/10	953		X	W	P	X	2	1	X		1
PW-04	2/10/10	1028		X	W	P	X	2	1	X		1
DW-02	2/10/10	1140		X	W	P	X	2	1	X		1
BA-05A	2/10/10	1203		X	W	P	X	2	1	X		1
BA-05	2/10/10	1238		X	W	P	X	2	1	X		1
MW-A	2/10/10	1413		X	W	P	X	2	1	X		1
DW-01	2/10/10	1450		X	W	P	X	2	2	X	X	2
BA-03A	2/10/10	1526		X	W	P	X	2	1	X		1
BA-03	2/10/10	1557		X	W	P	X	2	1	X		1
MW-02	2/11/10	1020		X	W	P	X	2	1	X		1

Client/Consultant Remarks:
Run Arsenic, Lead, Thallium, Manganese, & Nickel

Laboratory remarks: NOKS, SPL Driver, (2W)

Intact? Y N
Ice? Y N
Temp: 4.0

Requested TAT
- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Contract
- ☒ Standard
- ☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☒ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time		date	time
1. Relinquished by Sampler:	2/11/10	1315	2. Received by:		
3. Relinquished by:	2/10/10	1430	4. Received by:		
5. Relinquished by:	2-11-10	1720	6. Received by Laboratory:		

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

X

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 302979

page 4 of 4

Client Name: SEMS, Inc.
Address: 3801 N. Causeway Blvd Suite 209
City Metairie State LA Zip 70002
Phone/Fax: 504-342-2340 / 504-342-2543
Client Contact: Jesse Hoppes Email: jhoppes@semsinc.net
Project Name/No.: 207-0006
Site Name: Delate Metals Superfund Site
Site Location: Ponchatoula, LA
Invoice To: SEMS, Inc. Ph: 504-237-8848

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: Total Metals								
MW-01	2/11/10	1053		X	W	P	X	2	1	X								1
Duplicate #1	12/9/10	—		X	W	P	X	2	1	X								1
Duplicate #2	12/10/10	—		X	W	P	X	2	1	X								1
Duplicate #3	12/10/10	—		X	W	P	X	2	1	X								1
Duplicate #4	12/10/10	—		X	W	P	X	2	1	X								1

Client/Consultant Remarks:

Laboratory remarks: No/cs, SPL Driver. SW

Intact? 4.5 ☑ Y ☐ N
Ice? 4.5 ☑ Y ☐ N
Temp: 4.0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☒ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/11/10	1315	2. Received by: [signature]
3. Relinquished by: [signature]	2/11/10	1430	4. Received by: [signature]
5. Relinquished by: [signature]	2-11-10	17:20	6. Received by Laboratory: [signature]

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

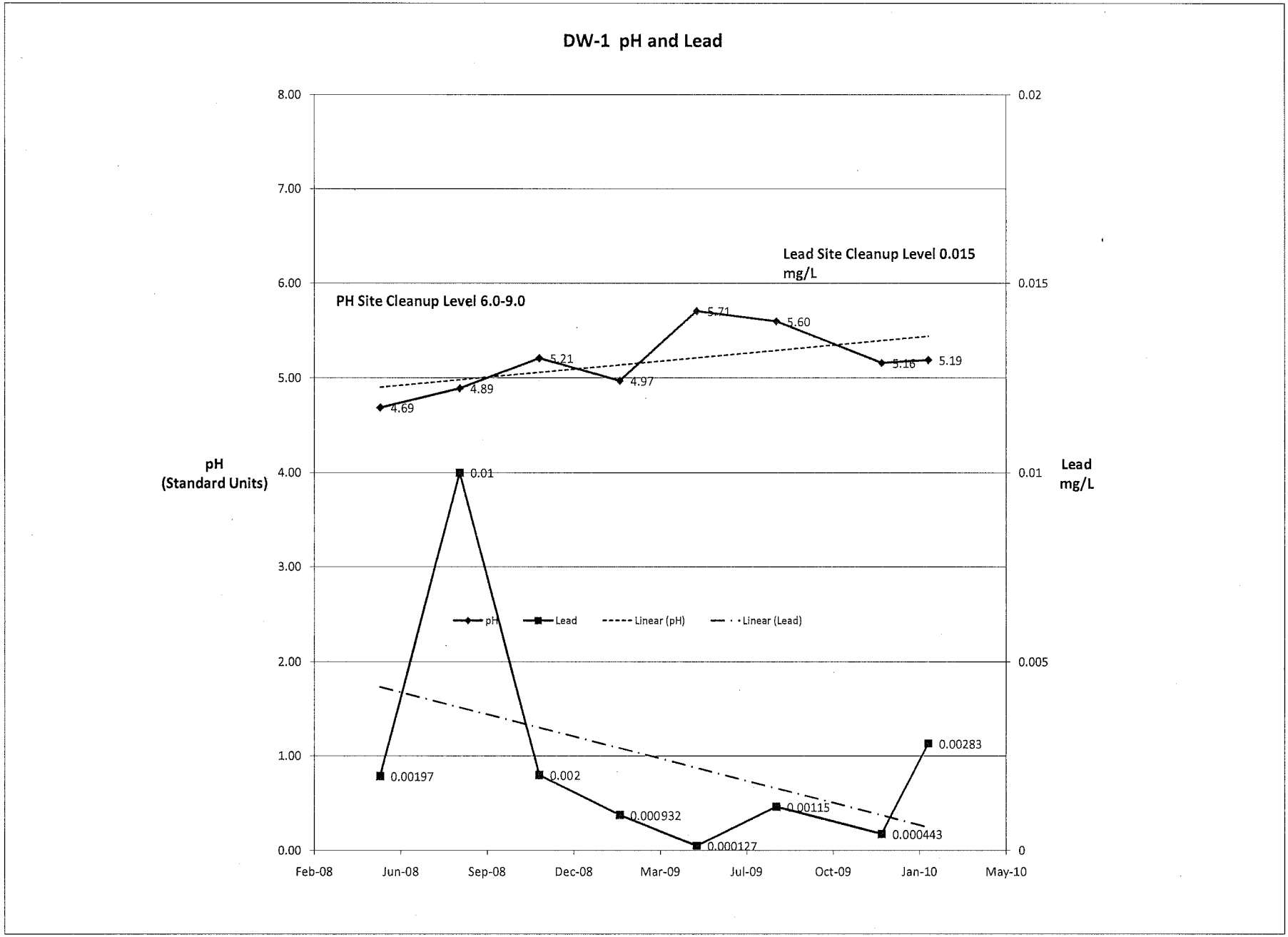
☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

ATTACHMENT C

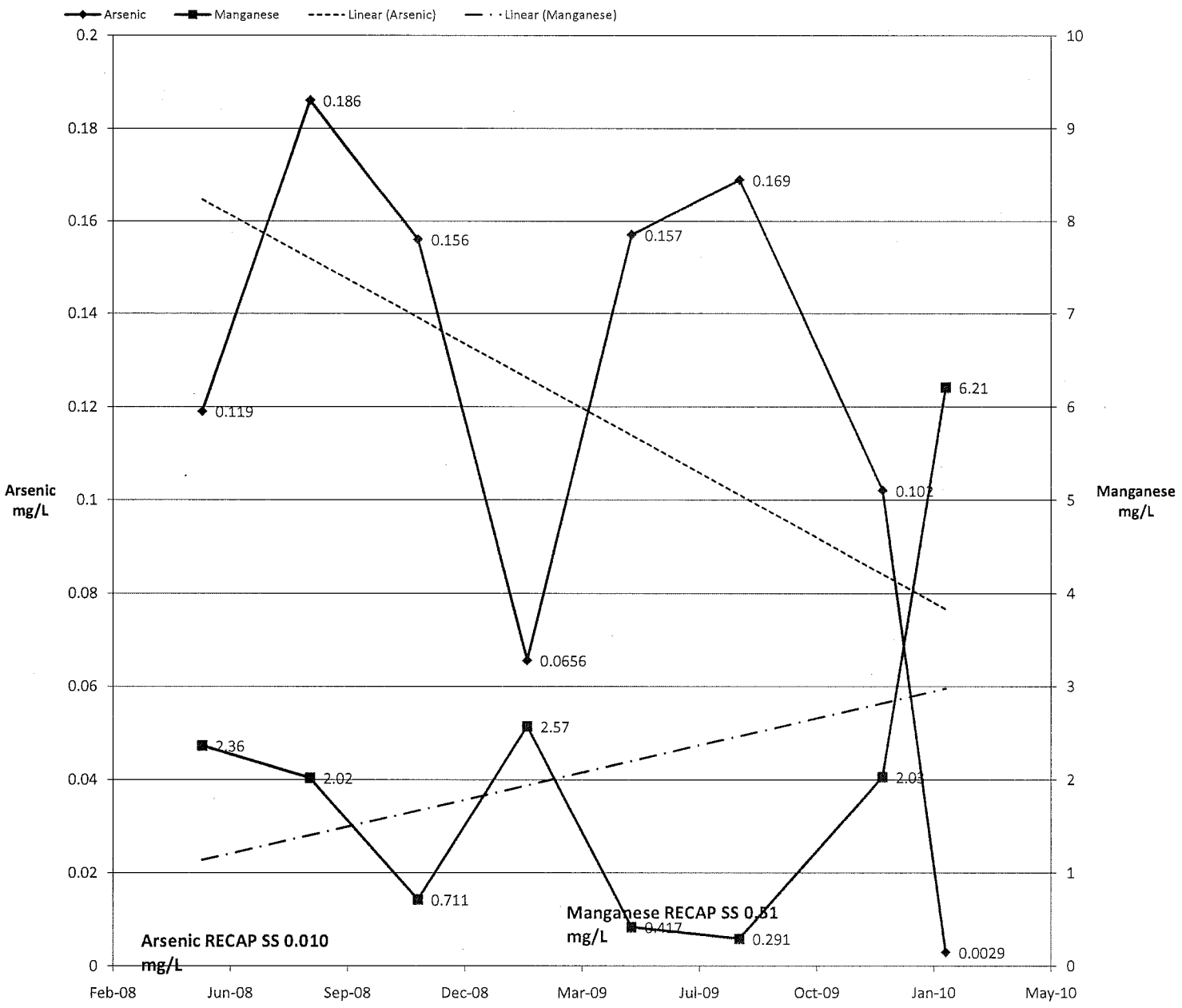
HISTORICAL CONCENTRATION
VS.
TIME GRAPHS

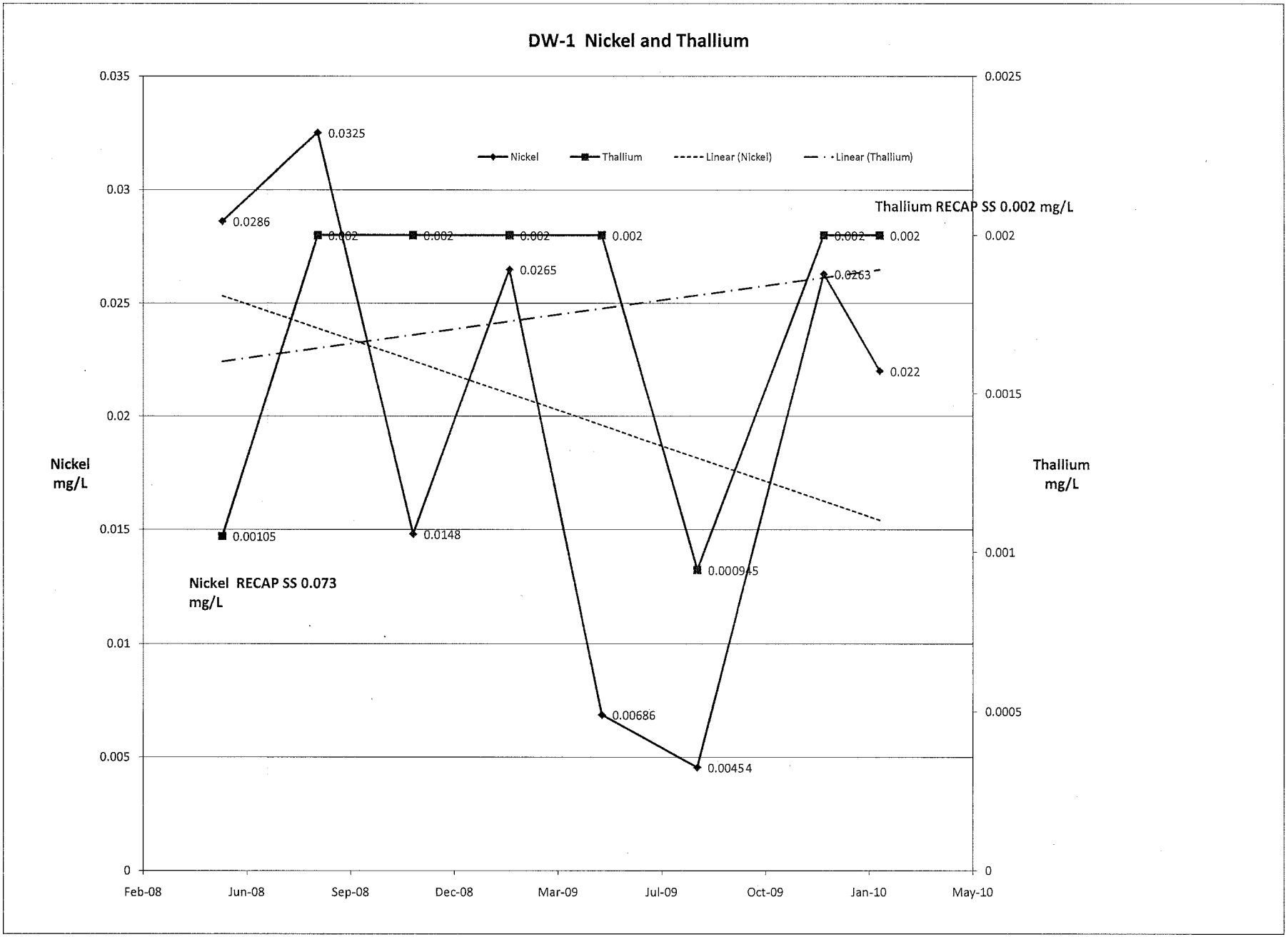
(PAST EIGHT QUARTERS)

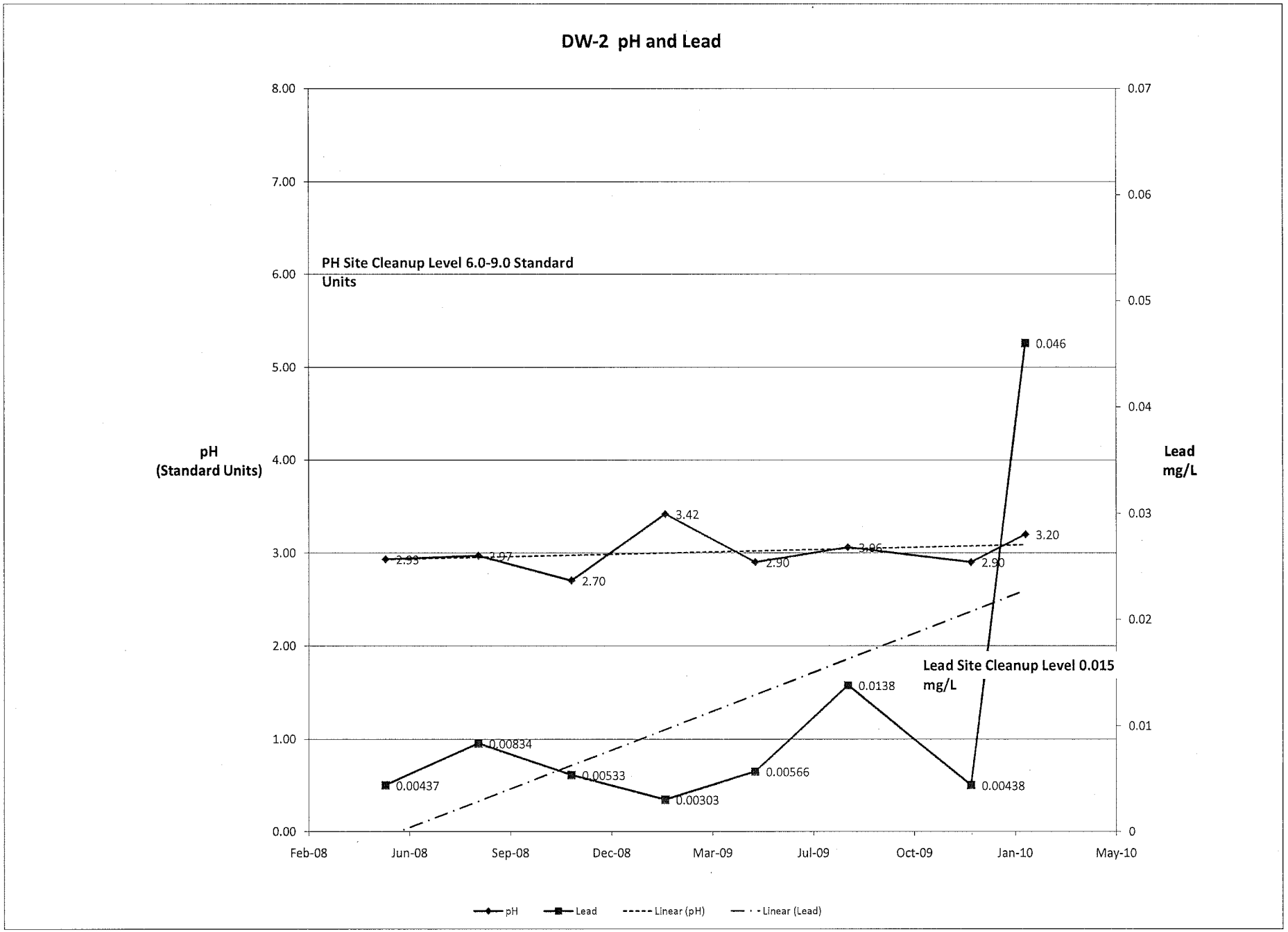
FIRST WATER BEARING ZONE

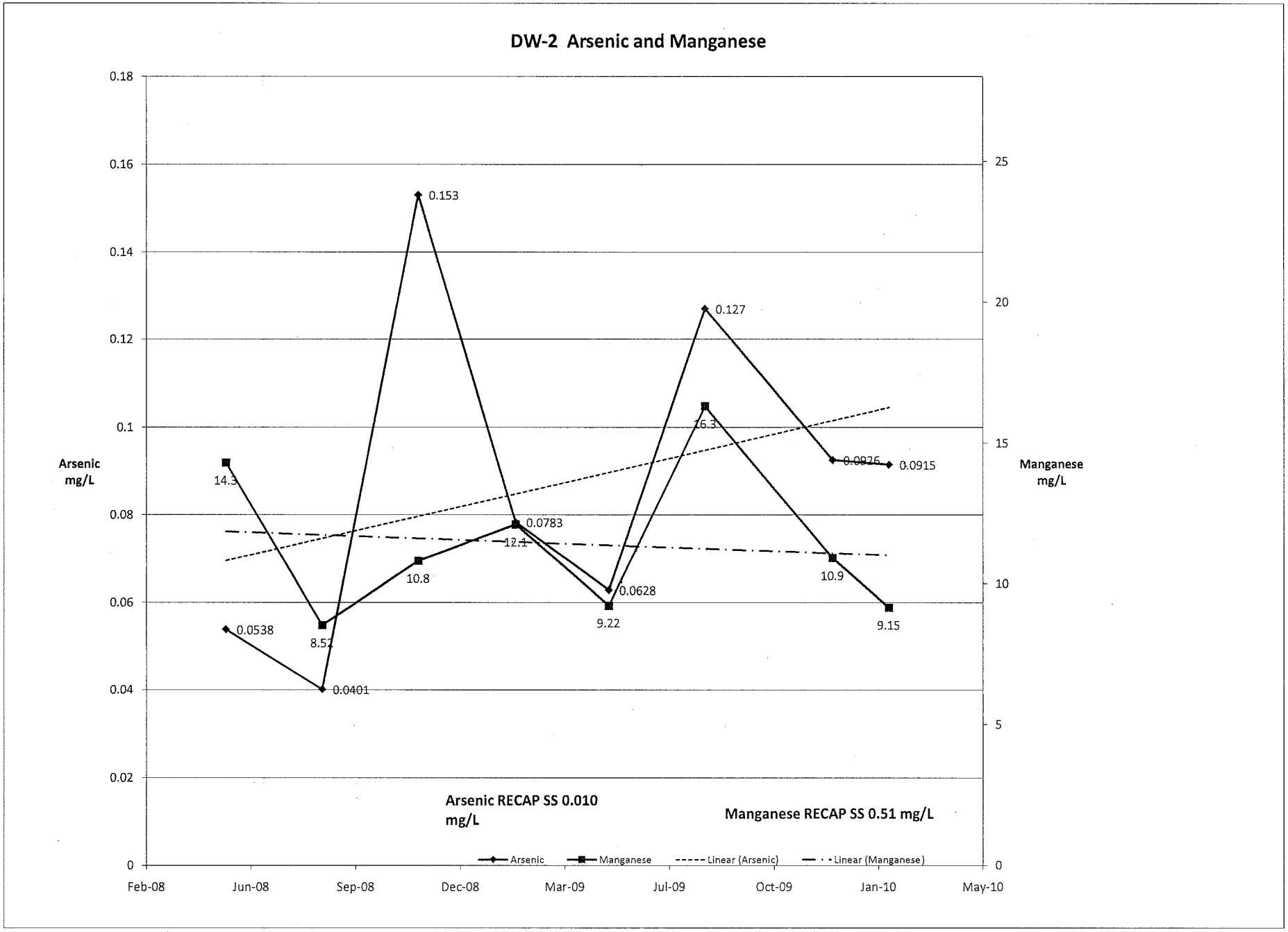

DW-1 pH and Lead
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.0-9.0
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
4.69
4.89
5.21
4.97
5.71
5.60
5.16
5.19
0.00197
0.01
0.002
0.000932
0.000127
0.00115
0.000443
0.00283
pH
Lead
Linear (pH)
Linear (Lead)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

DW-1 Arsenic and Manganese

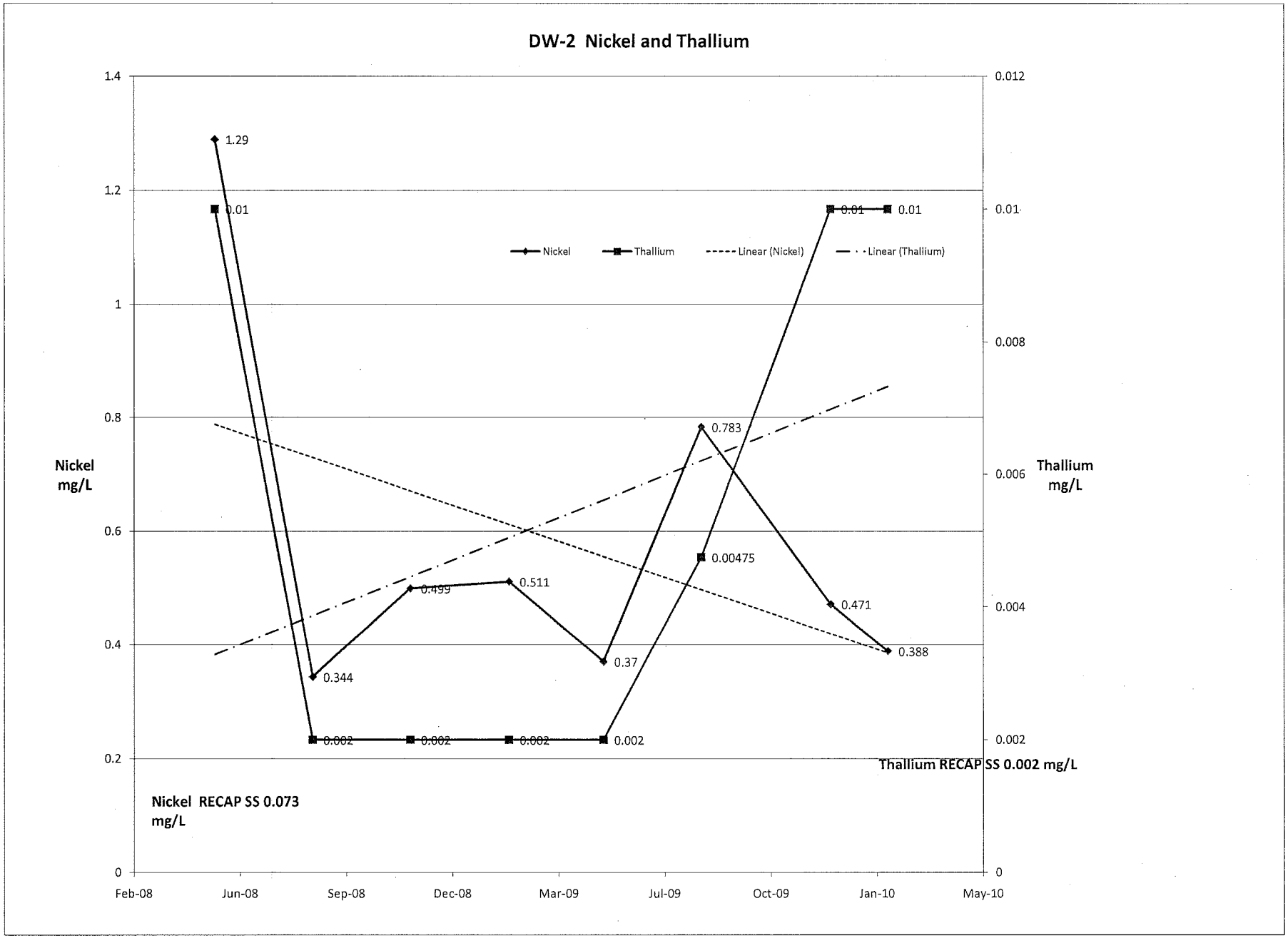


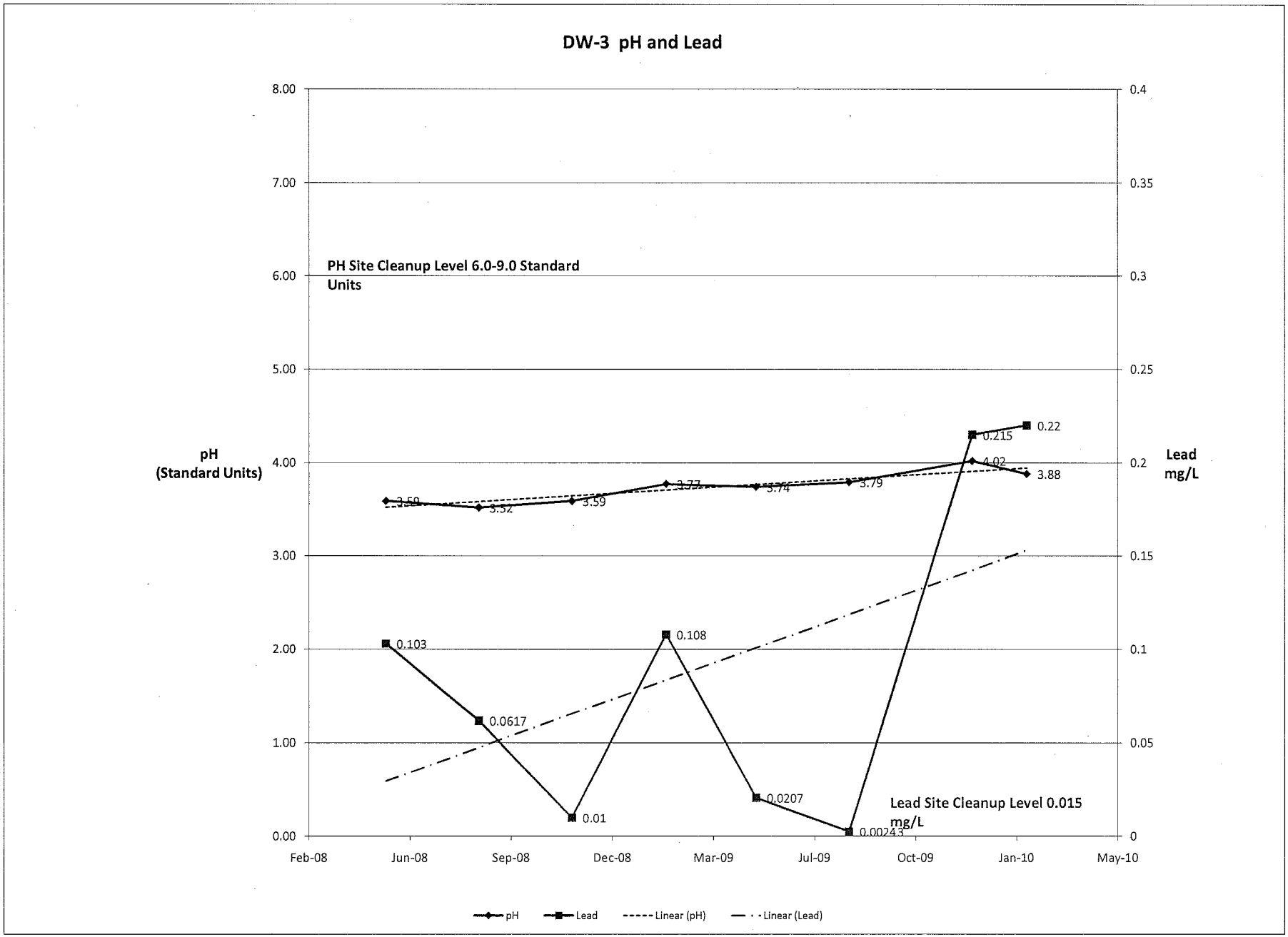

DW-1 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0.0025
0.002
0.0015
0.001
0.0005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.0286
0.0325
0.00105
0.0148
0.0265
0.00686
0.00454
0.00094
0.0263
0.022
0.002

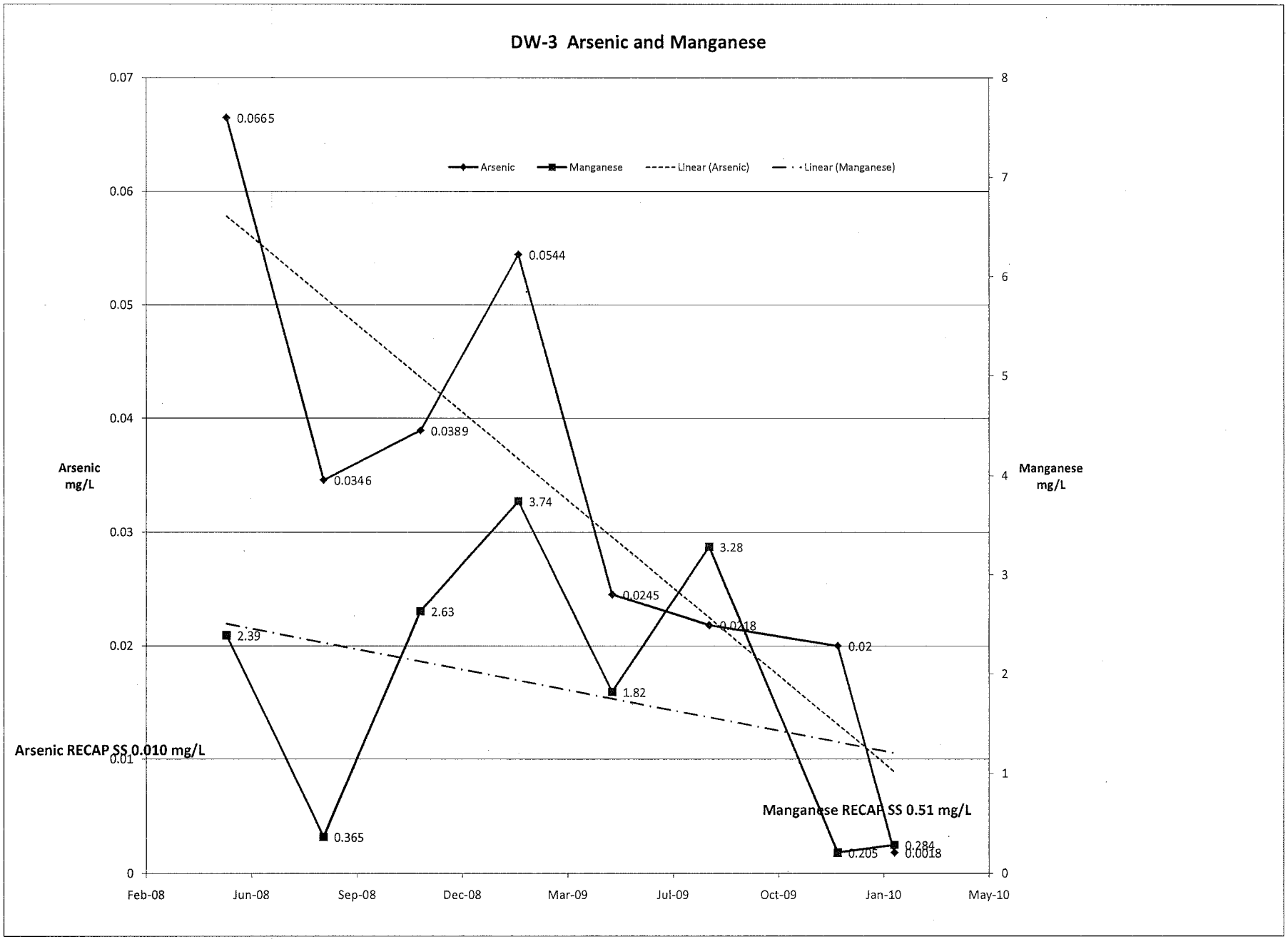

DW-2 pH and Lead
pH
(Standard Units)
Lead
mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
2.93
2.97
2.70
3.42
2.90
3.06
2.90
3.20
0.00437
0.00834
0.00533
0.00303
0.00566
0.0138
0.00438
0.046
pH
Lead
Linear (pH)
Linear (Lead)

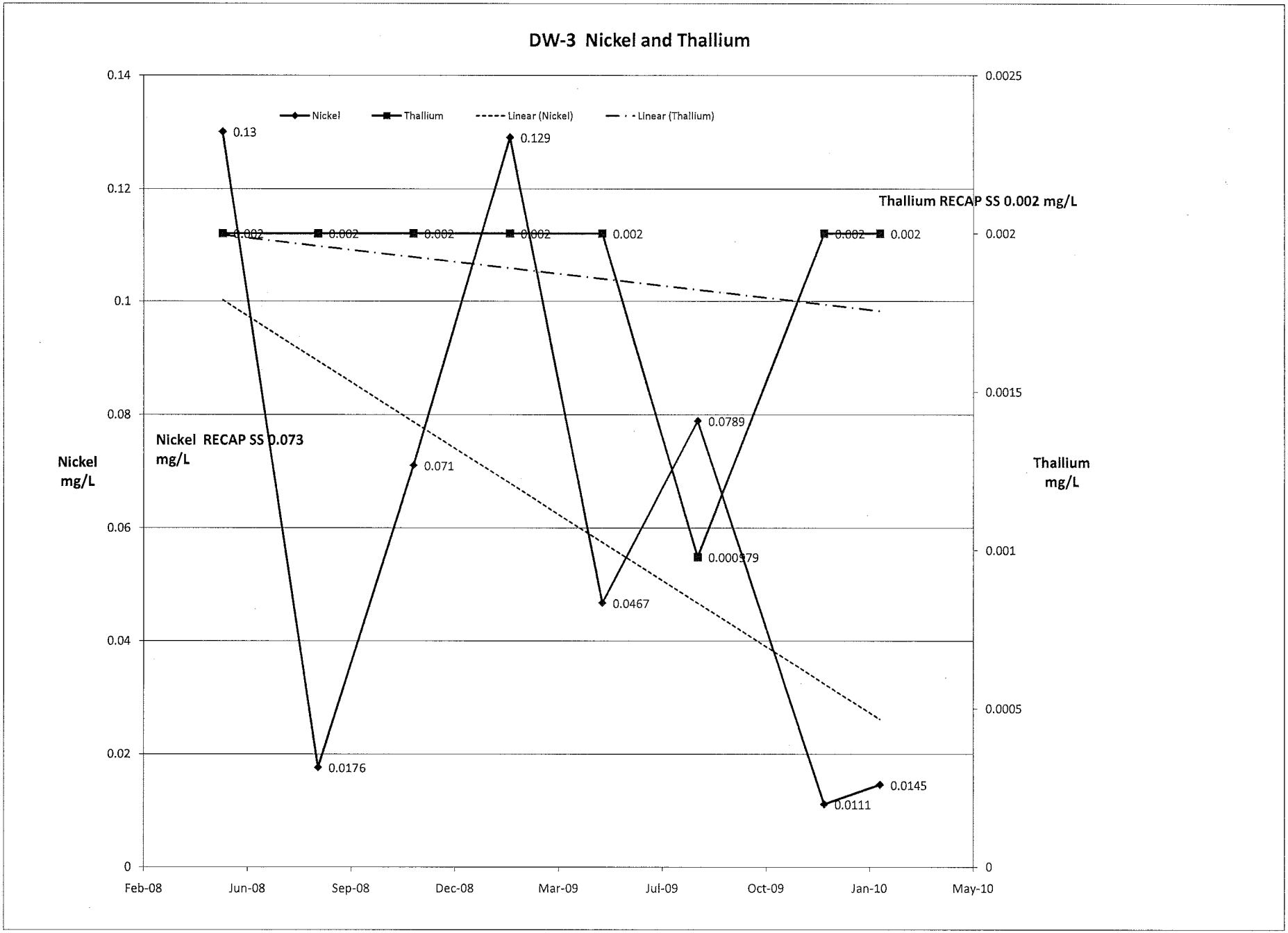


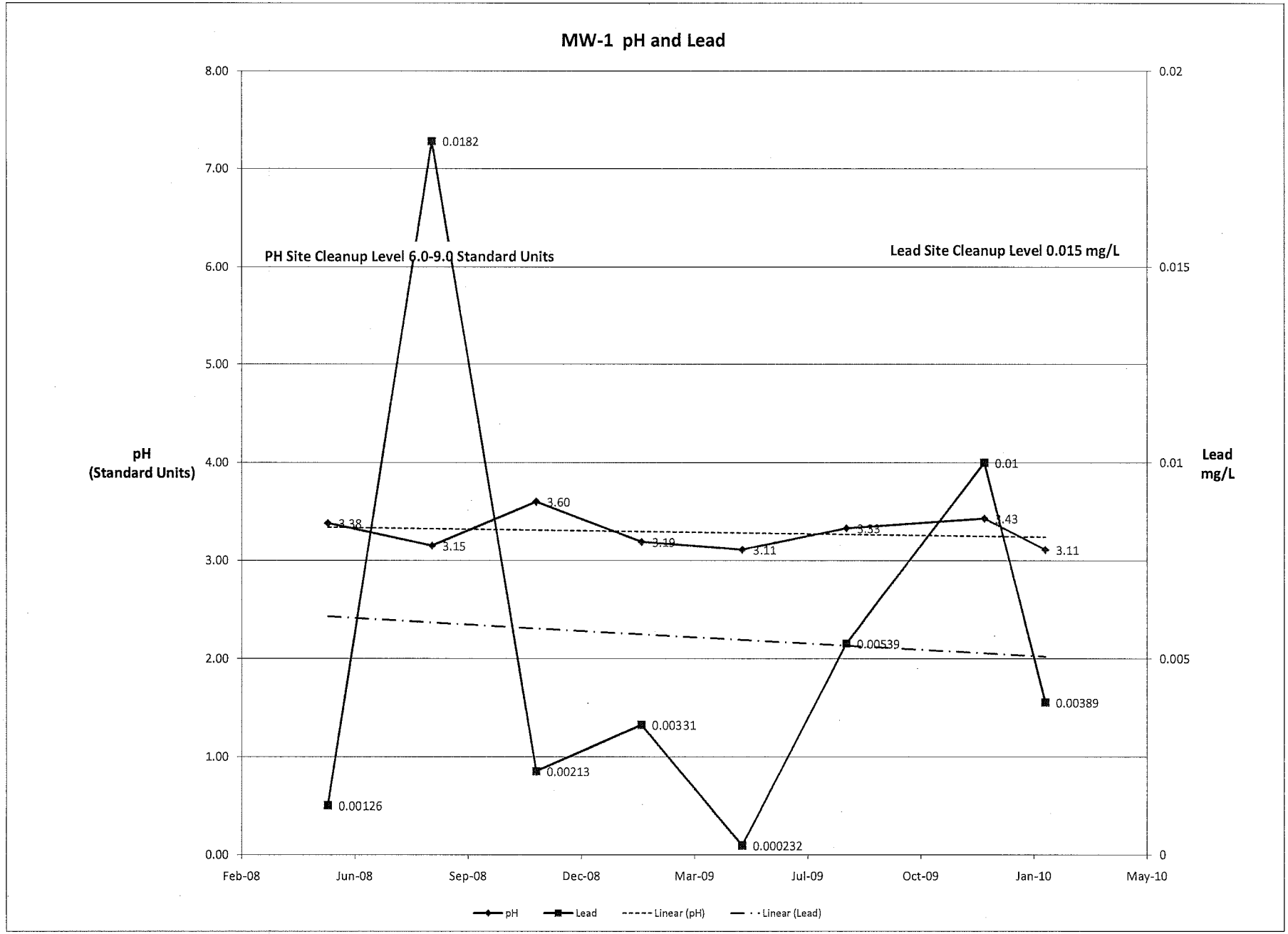
DW-2 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
25
20
15
10
5
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.153
0.127
0.0926
0.0915
0.0783
0.0628
0.0538
0.0401
14.3
8.52
10.8
12.1
9.22
16.3
10.9
9.15
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

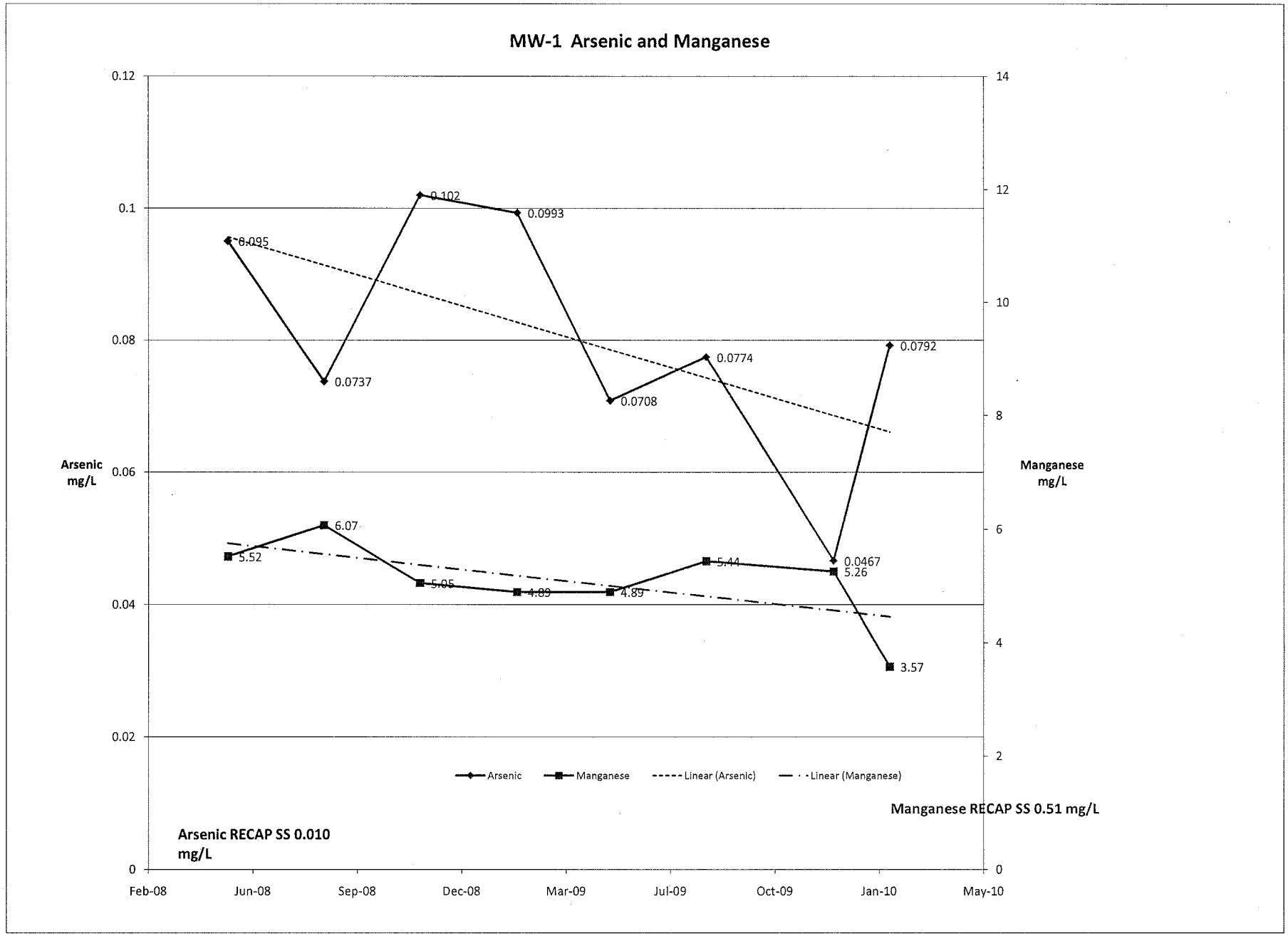

DW-2 Nickel and Thallium
Nickel
mg/L
Thallium
mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
1.29
0.01
0.344
0.002
0.002
0.002
0.002
0.499
0.511
0.37
0.783
0.01
0.01
0.00475
0.471
0.388
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.012
0.01
0.008
0.006
0.004
0.002
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

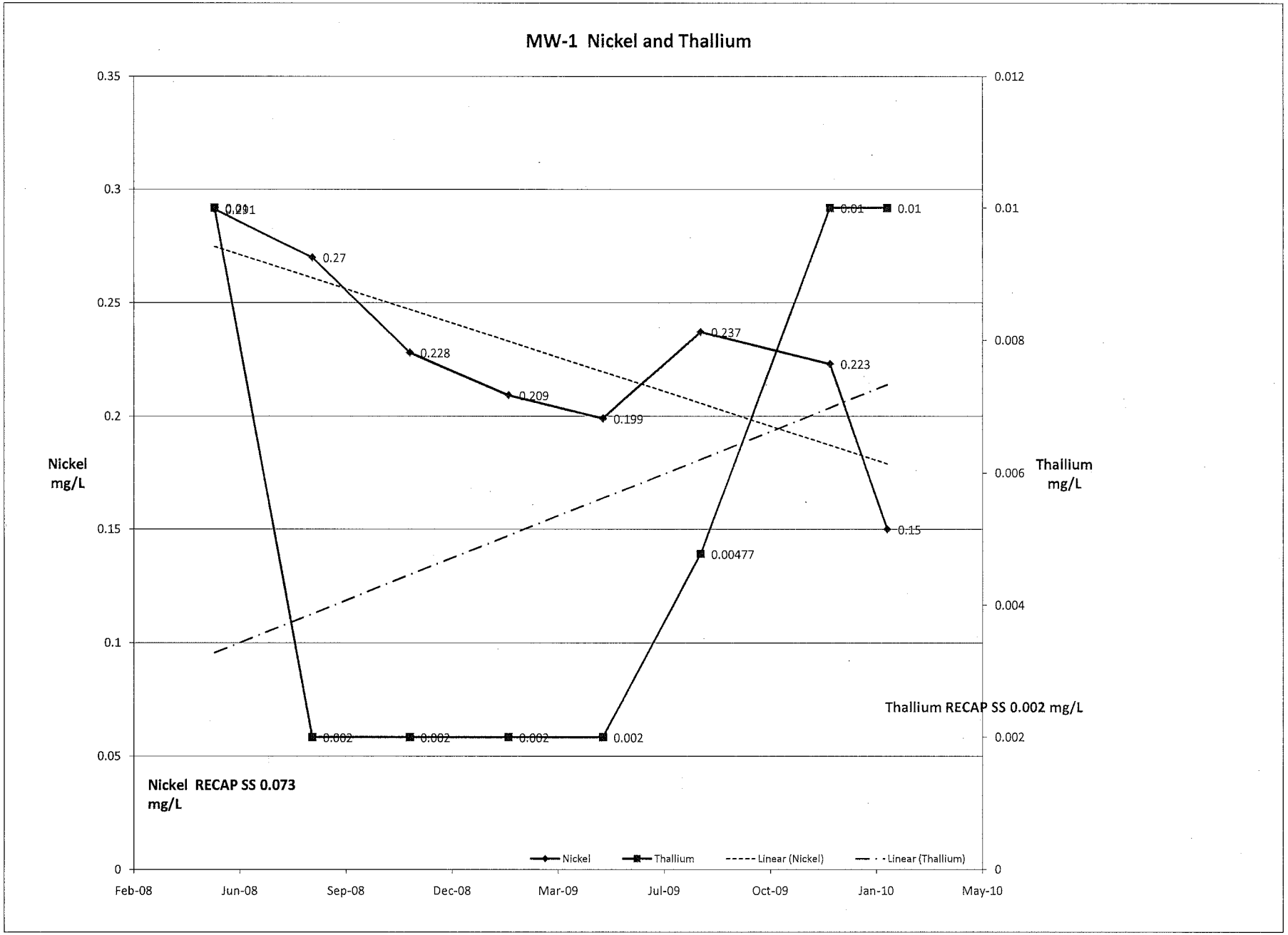

DW-3 pH and Lead
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
3.59
3.52
3.59
3.77
3.74
3.79
4.02
3.88
0.103
0.0617
0.01
0.108
0.0207
0.00243
0.215
0.22
pH
Lead
Linear (pH)
Linear (Lead)

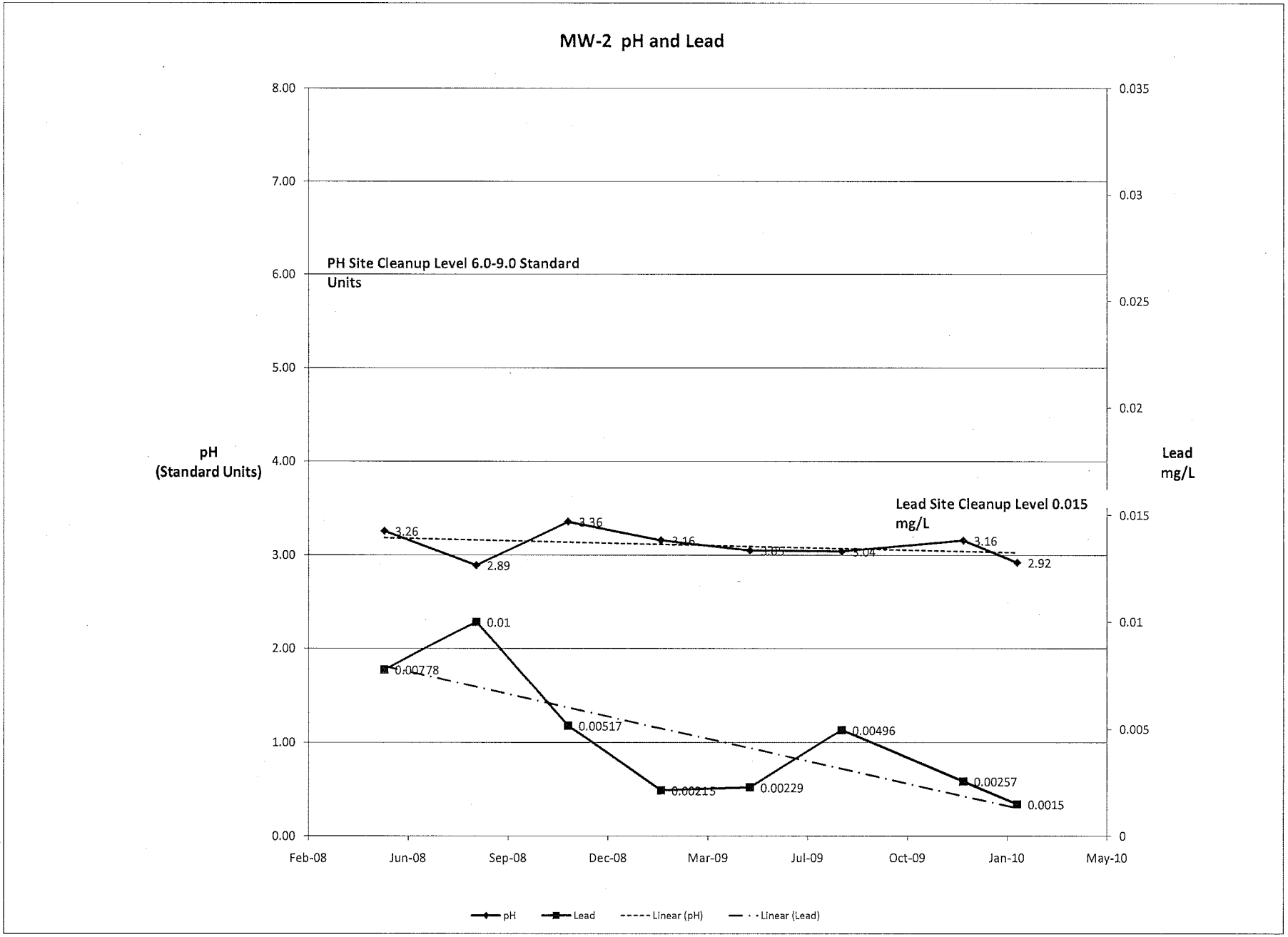

DW-3 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Arsenic mg/L
Manganese mg/L
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
8
7
6
5
4
3
2
1
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.0665
0.0346
0.0389
0.0544
0.0245
0.0218
0.02
0.0018
2.39
0.365
2.63
3.74
1.82
3.28
0.205
0.284
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L

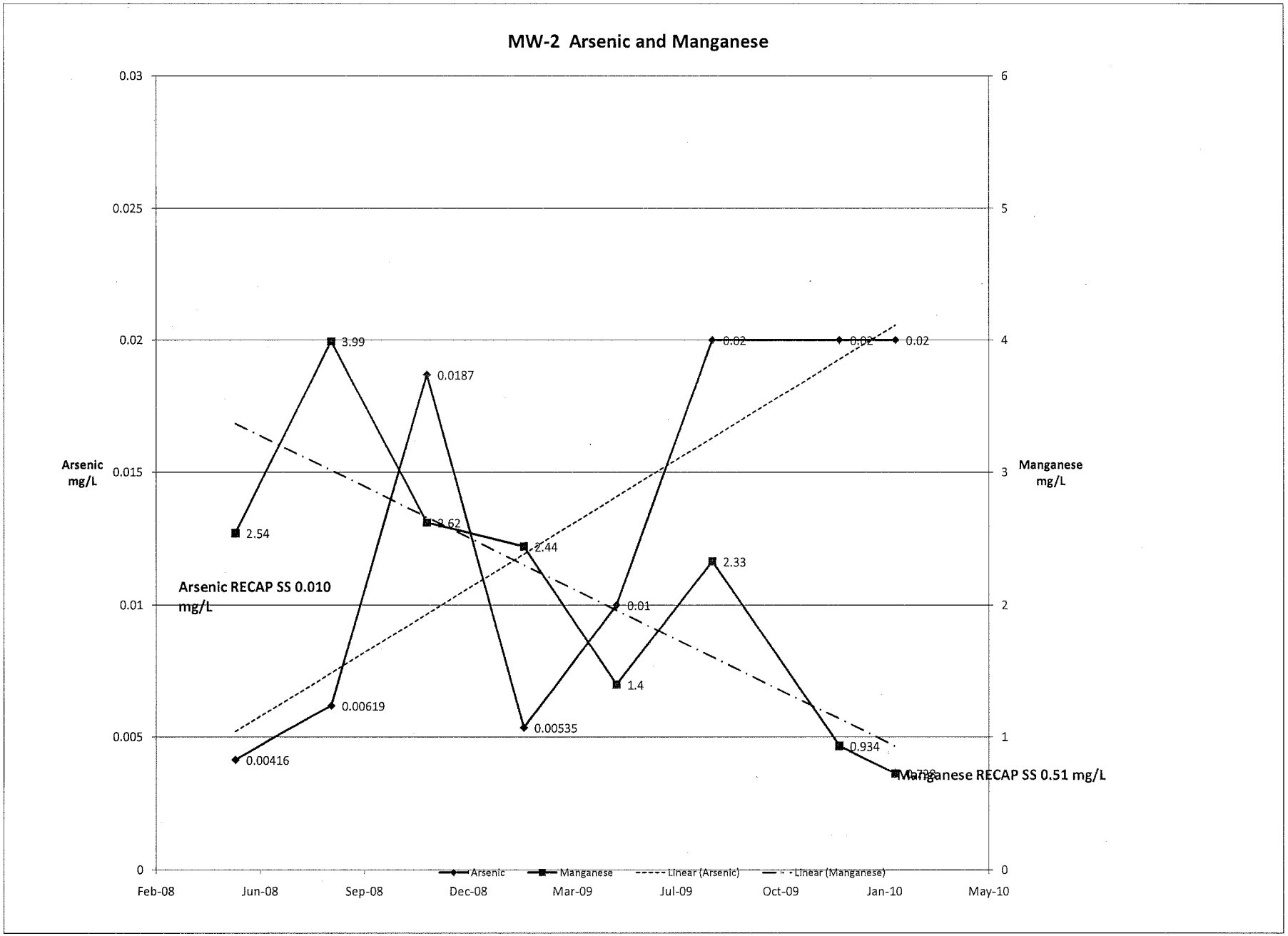

DW-3 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.0025
0.002
0.0015
0.001
0.0005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.13
0.0176
0.071
0.129
0.0467
0.0789
0.000579
0.0111
0.0145
0.002

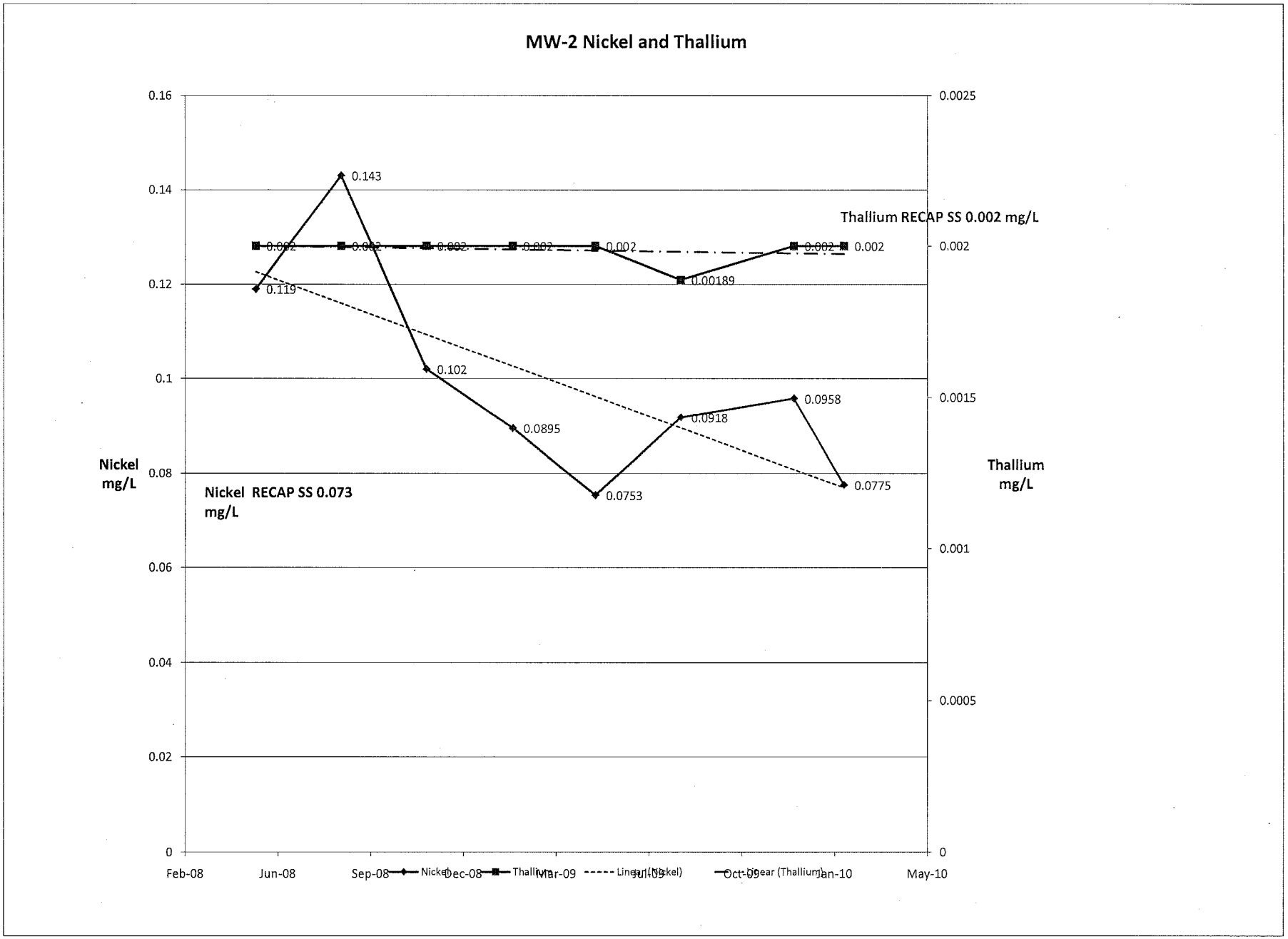

MW-1 pH and Lead
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.0182
0.00126
0.00213
0.00331
0.000232
0.00539
0.01
0.00389
3.38
3.15
3.60
3.19
3.11
3.33
3.43
3.11
pH
Lead
Linear (pH)
Linear (Lead)

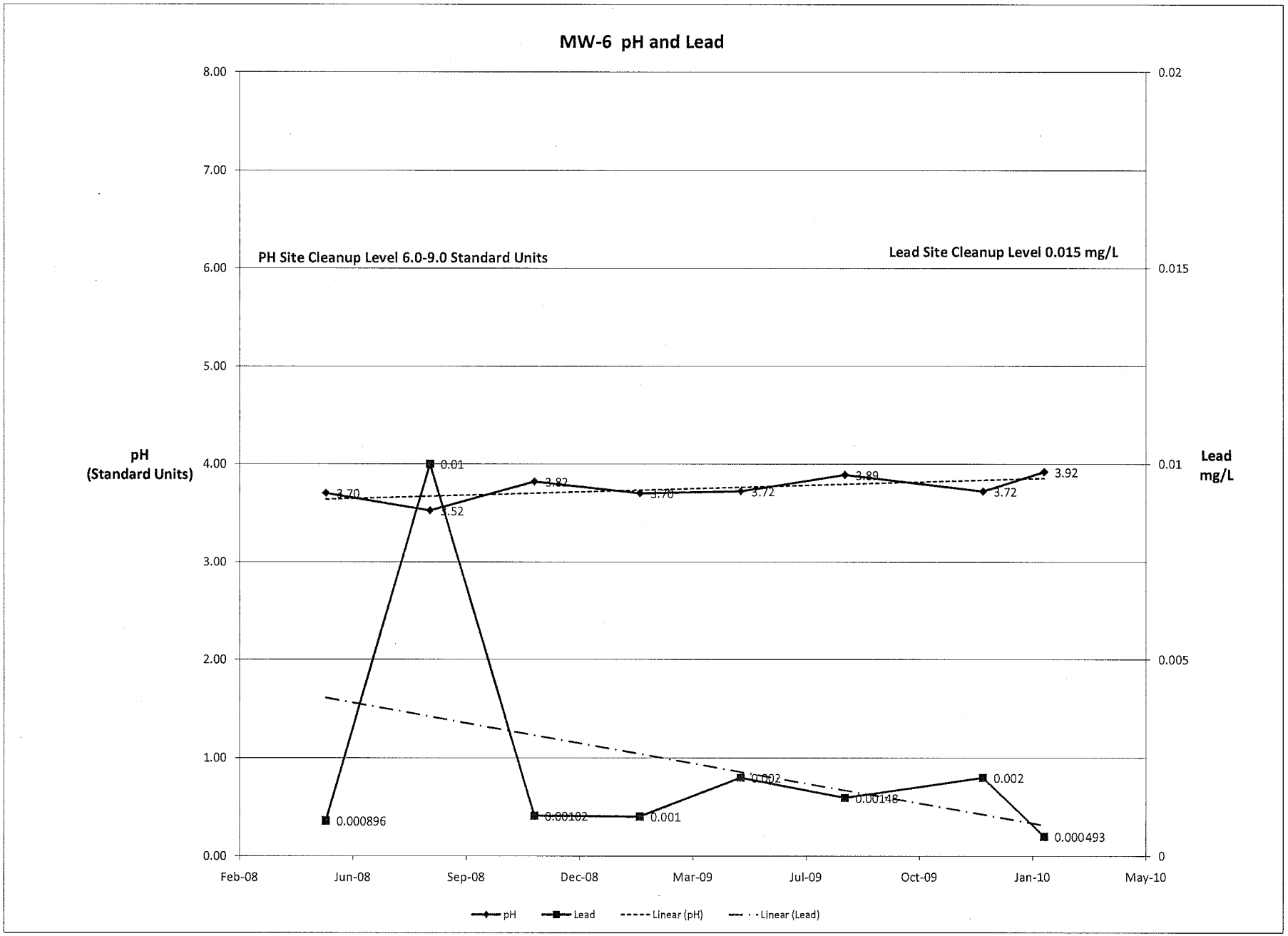

MW-1 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.12
0.1
0.08
0.06
0.04
0.02
0
14
12
10
8
6
4
2
0
0.095
0.0737
0.102
0.0993
0.0708
0.0774
0.0467
0.0792
5.52
6.07
5.05
4.89
4.89
5.44
5.26
3.57
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

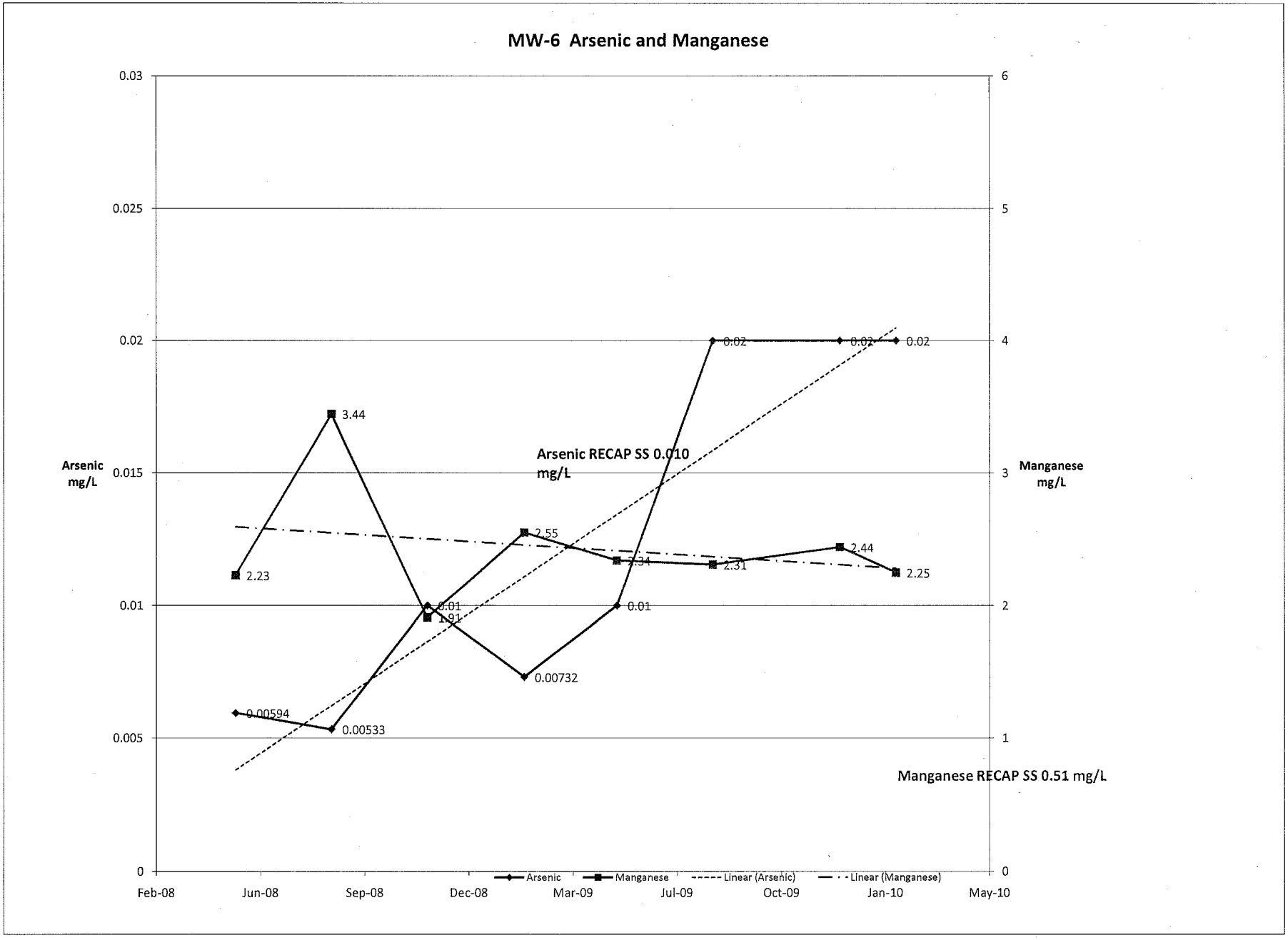

MW-1 Nickel and Thallium
Nickel mg/L
Thallium mg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.012
0.01
0.008
0.006
0.004
0.002
0
0.291
0.27
0.228
0.209
0.199
0.237
0.223
0.15
0.002
0.002
0.002
0.002
0.01
0.01
0.00477
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

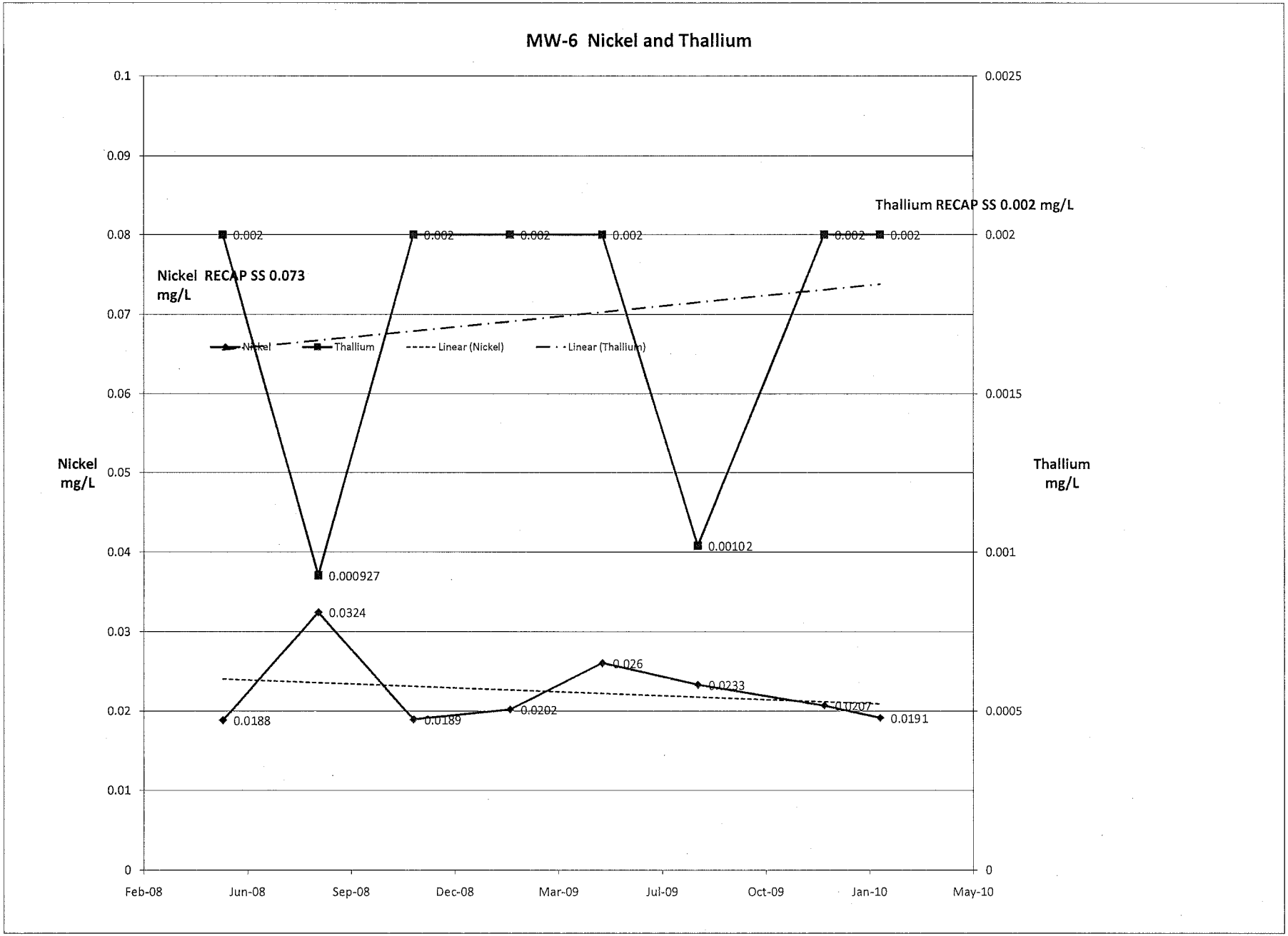

MW-2 pH and Lead
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
3.26
2.89
3.36
3.16
3.05
3.04
3.16
2.92
0.01
0.00778
0.00517
0.00215
0.00229
0.00496
0.00257
0.0015
pH
Lead
Linear (pH)
Linear (Lead)

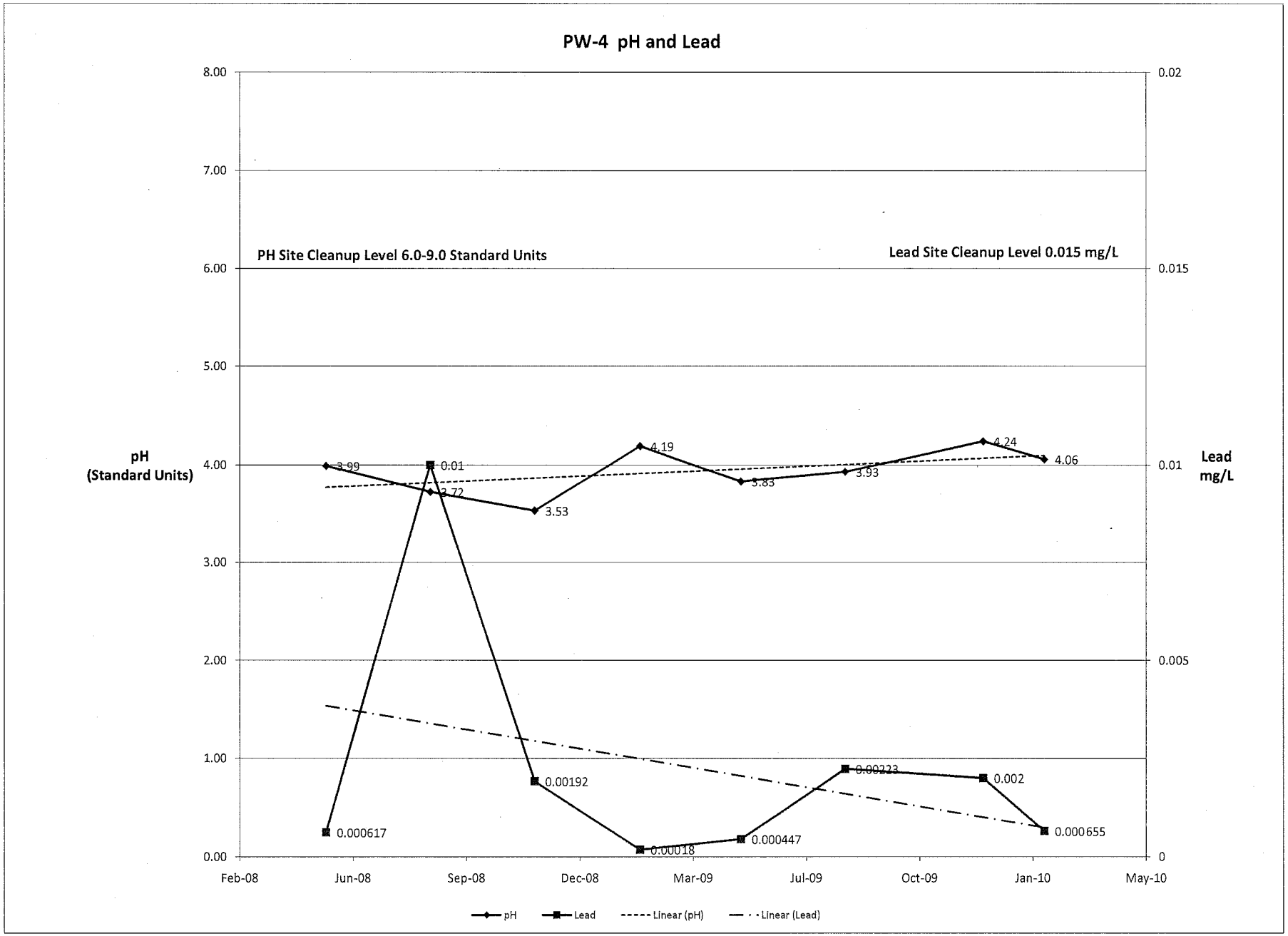

MW-2 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
6
5
4
3
2
1
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
2.54
3.99
2.62
0.0187
2.44
0.00535
0.01
1.4
0.02
0.02
0.02
2.33
0.934
0.00416
0.00619
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)


MW-2 Nickel and Thallium
Nickel mg/L
Thallium mg/L
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.143
0.119
0.102
0.0895
0.0753
0.0918
0.0958
0.0775
0.00189
0.002
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)

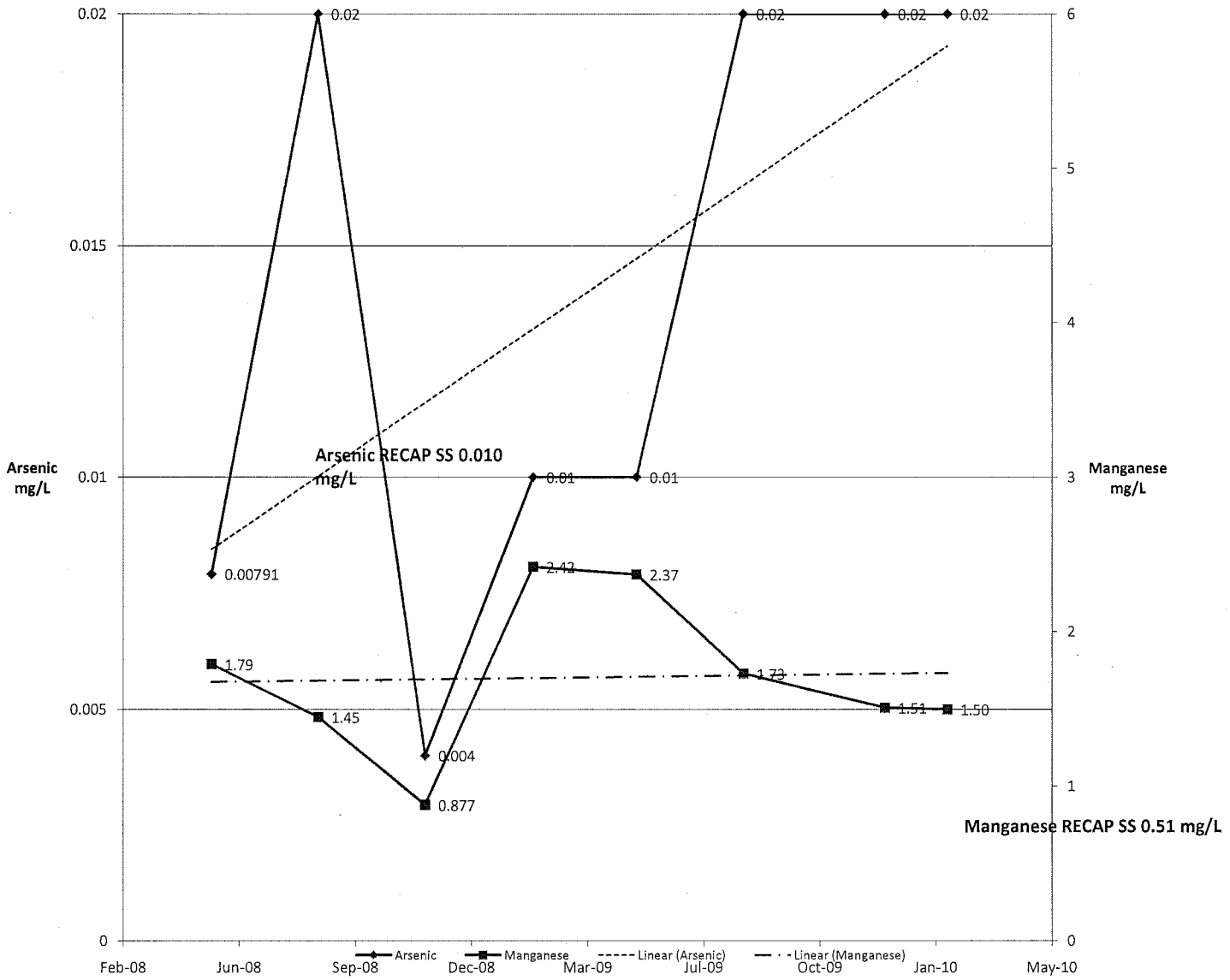

MW-6 pH and Lead
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
3.70
0.01
3.52
3.82
3.70
3.72
3.89
3.72
3.92
0.000896
0.00102
0.001
0.002
0.00148
0.002
0.000493
pH
Lead
Linear (pH)
Linear (Lead)

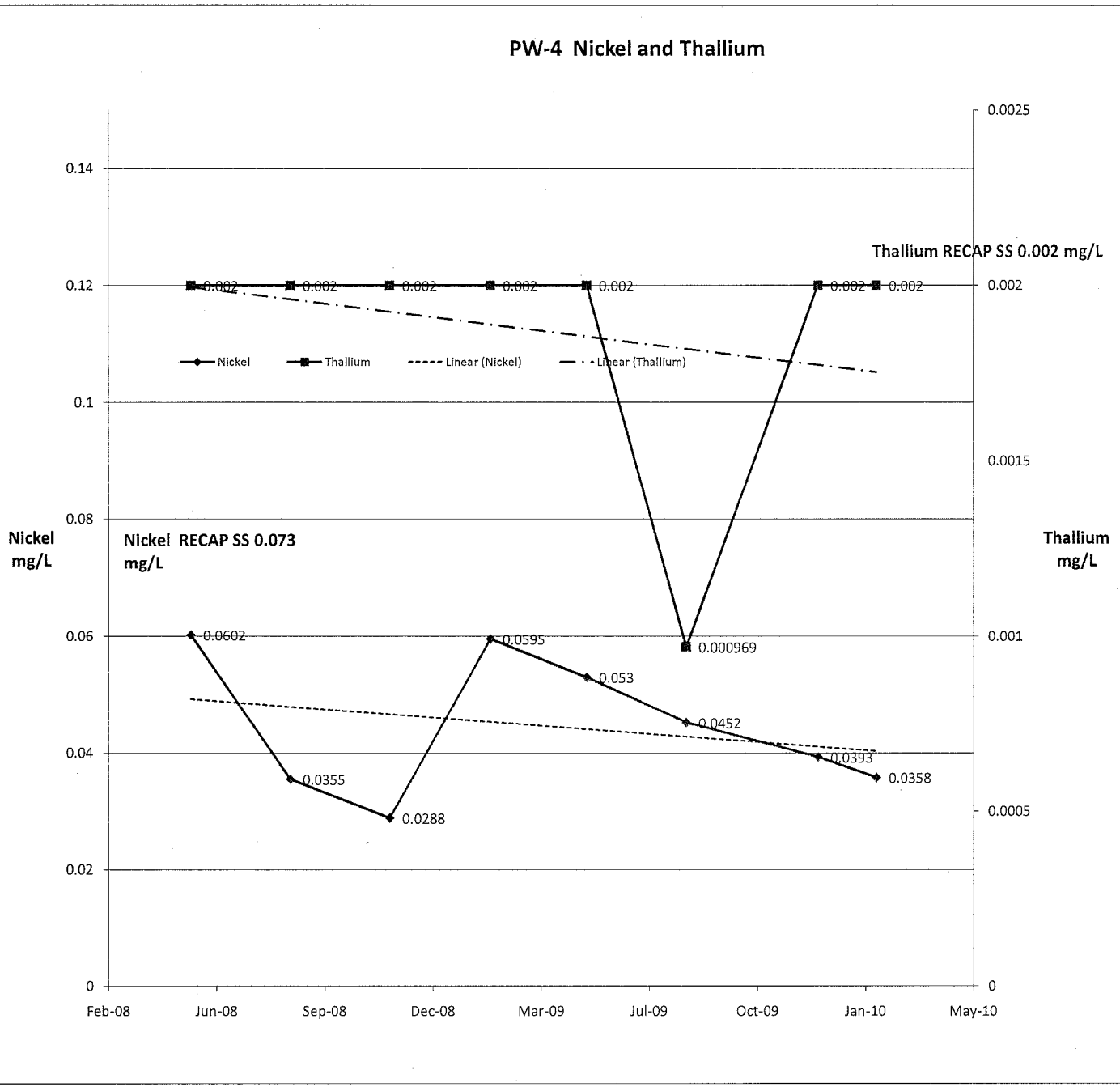

MW-6 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
6
5
4
3
2
1
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.00594
0.00533
0.01
0.01
0.00732
0.01
0.02
0.02
0.02
2.23
3.44
1.91
2.55
2.34
2.31
2.44
2.25
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

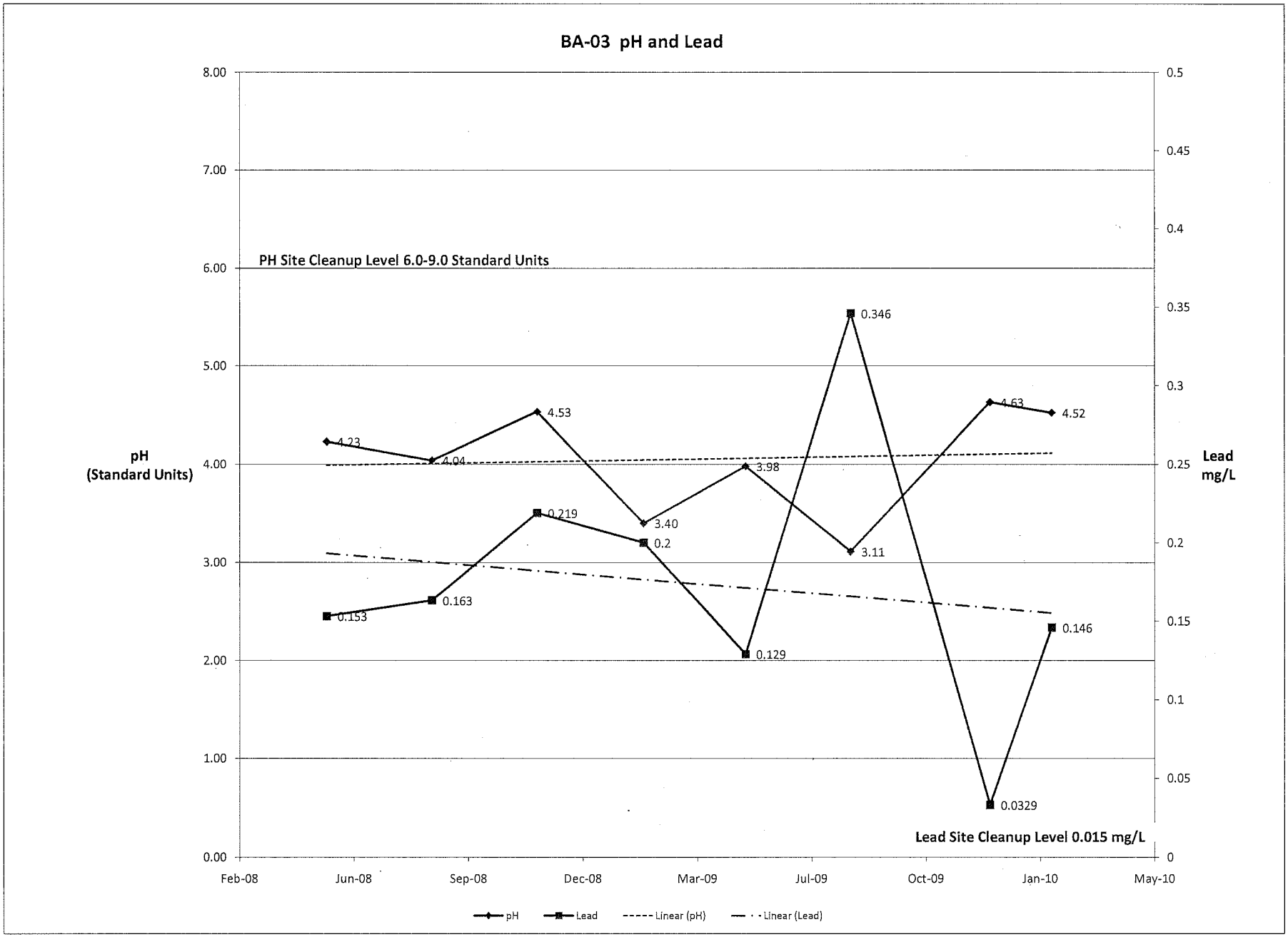

MW-6 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.000927
0.00102
0.0324
0.0188
0.0189
0.0202
0.026
0.0233
0.0207
0.0191
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

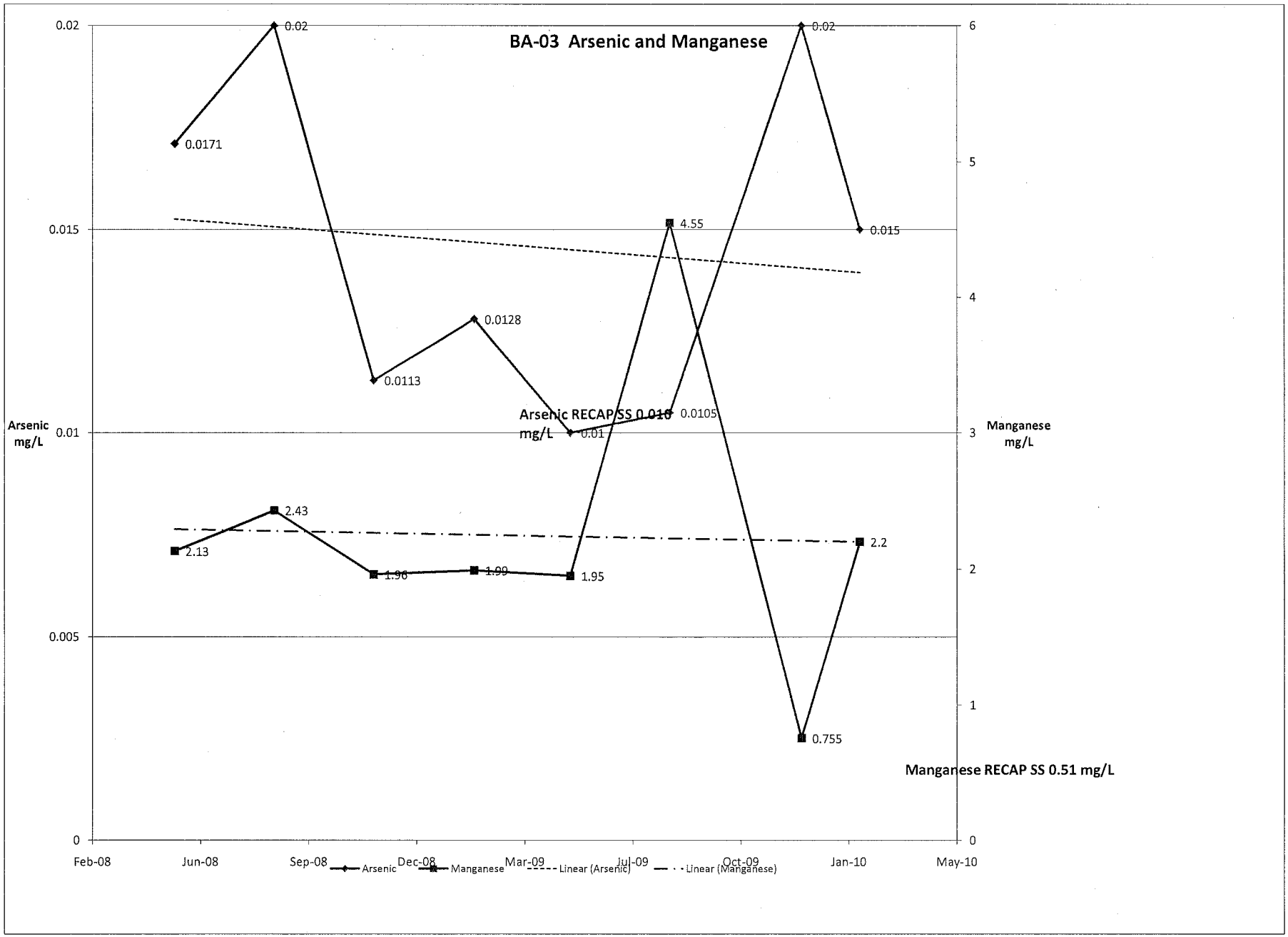

PW-4 pH and Lead
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
3.99
3.72
3.53
4.19
3.83
3.93
4.24
4.06
0.01
0.000617
0.00192
0.00018
0.000447
0.00223
0.002
0.000655
pH
Lead
Linear (pH)
Linear (Lead)

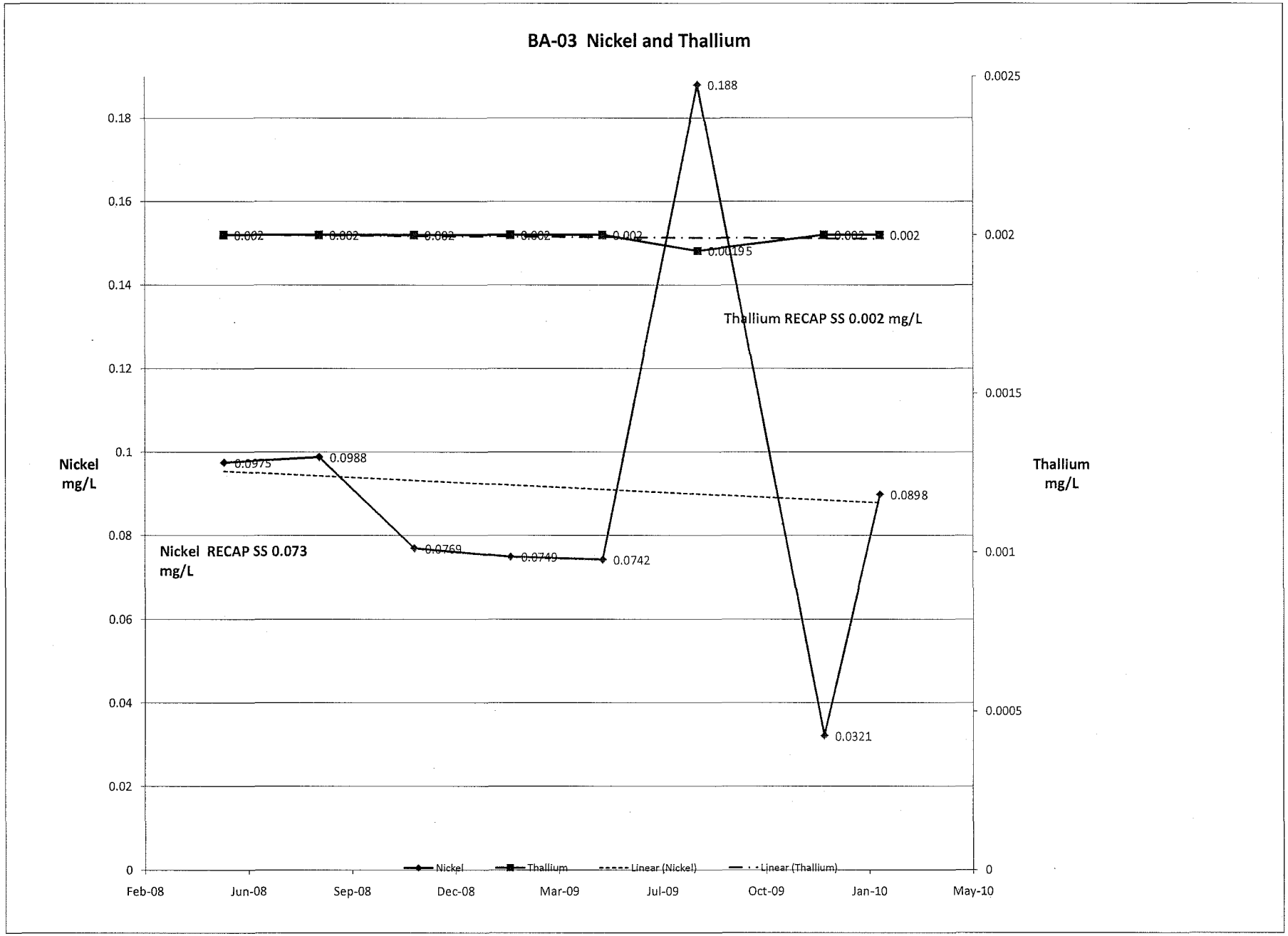
PW-4 Arsenic and Manganese

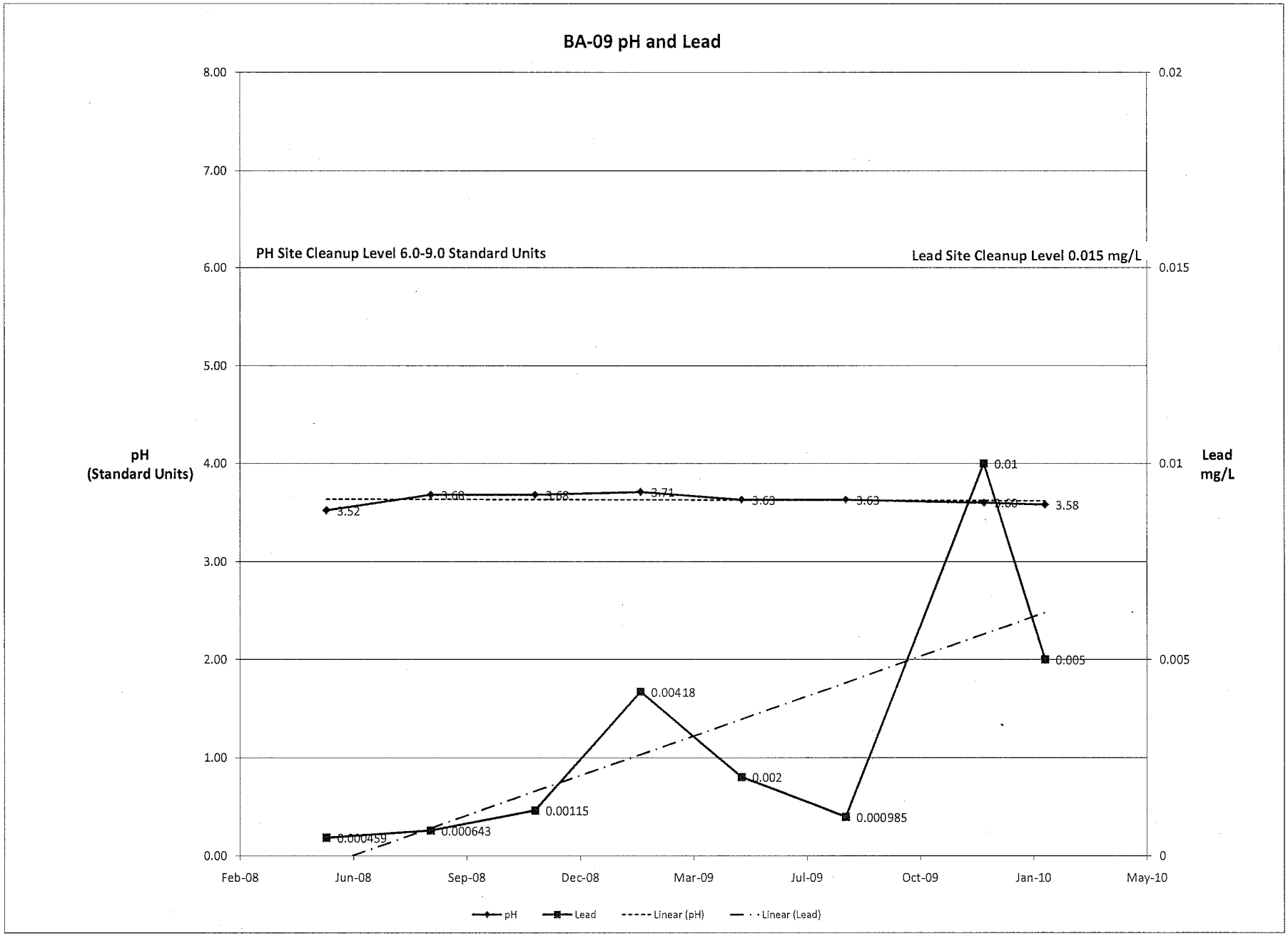


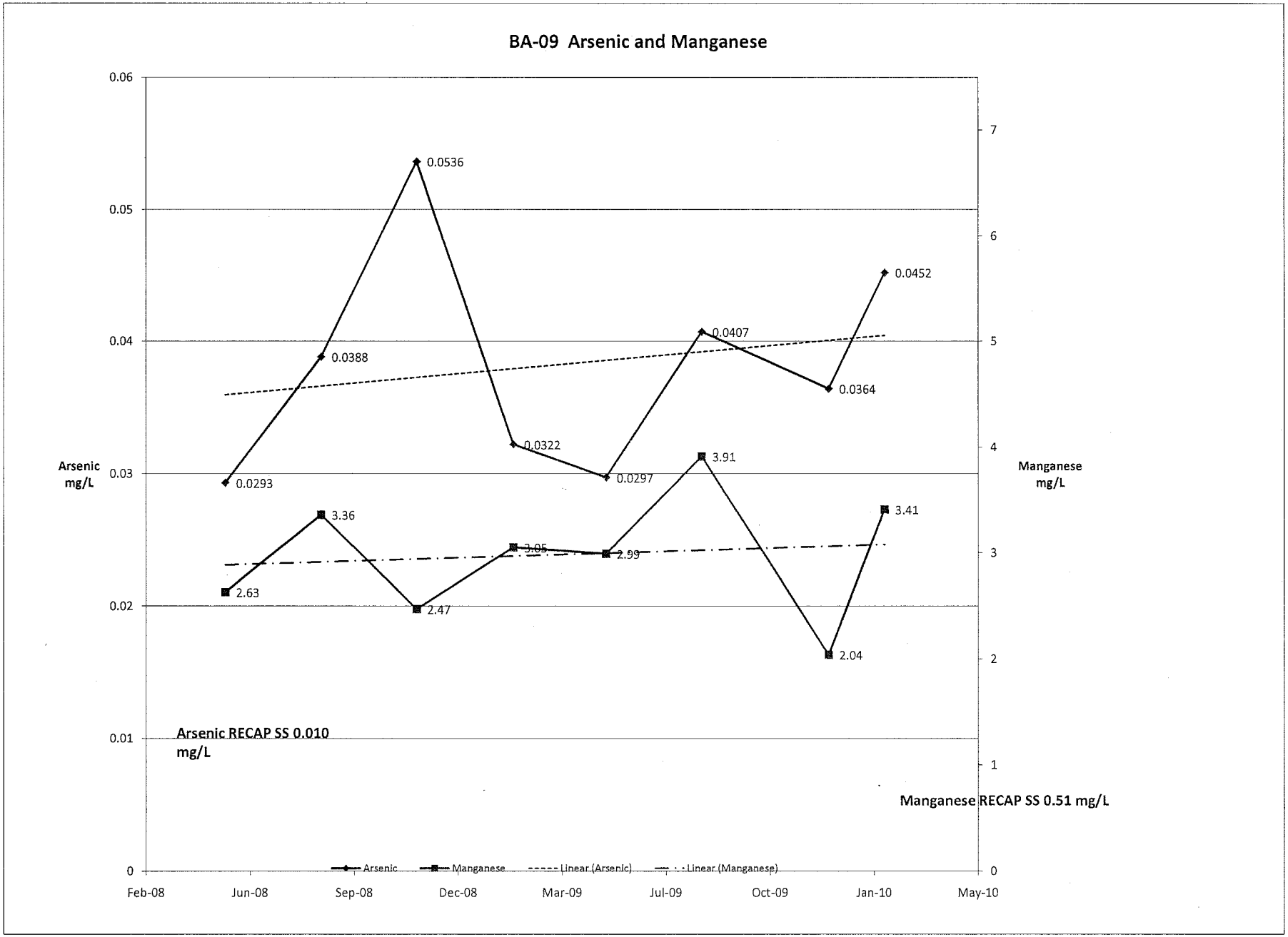

PW-4 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.0602
0.0355
0.0288
0.0595
0.053
0.0452
0.0393
0.0358
0.000969
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

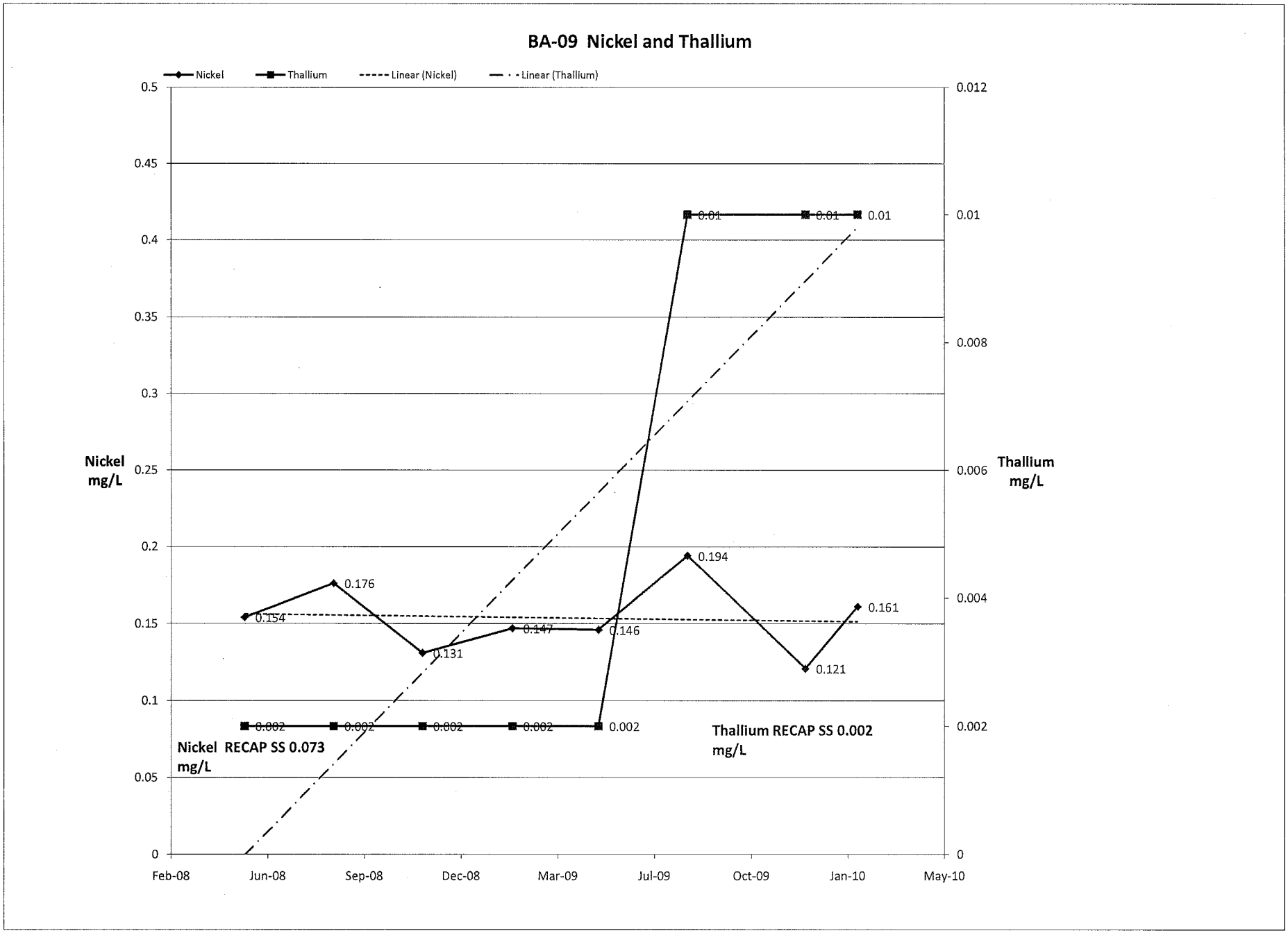

BA-03 pH and Lead
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
(Standard Units)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Lead
mg/L
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
4.23
4.04
4.53
3.40
3.98
3.11
4.63
4.52
0.153
0.163
0.219
0.2
0.129
0.346
0.0329
0.146
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)


BA-03 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
6
5
4
3
2
1
0
0.0171
0.02
0.0113
0.0128
0.01
0.0105
4.55
0.02
0.015
0.755
2.13
2.43
1.96
1.99
1.95
2.2
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

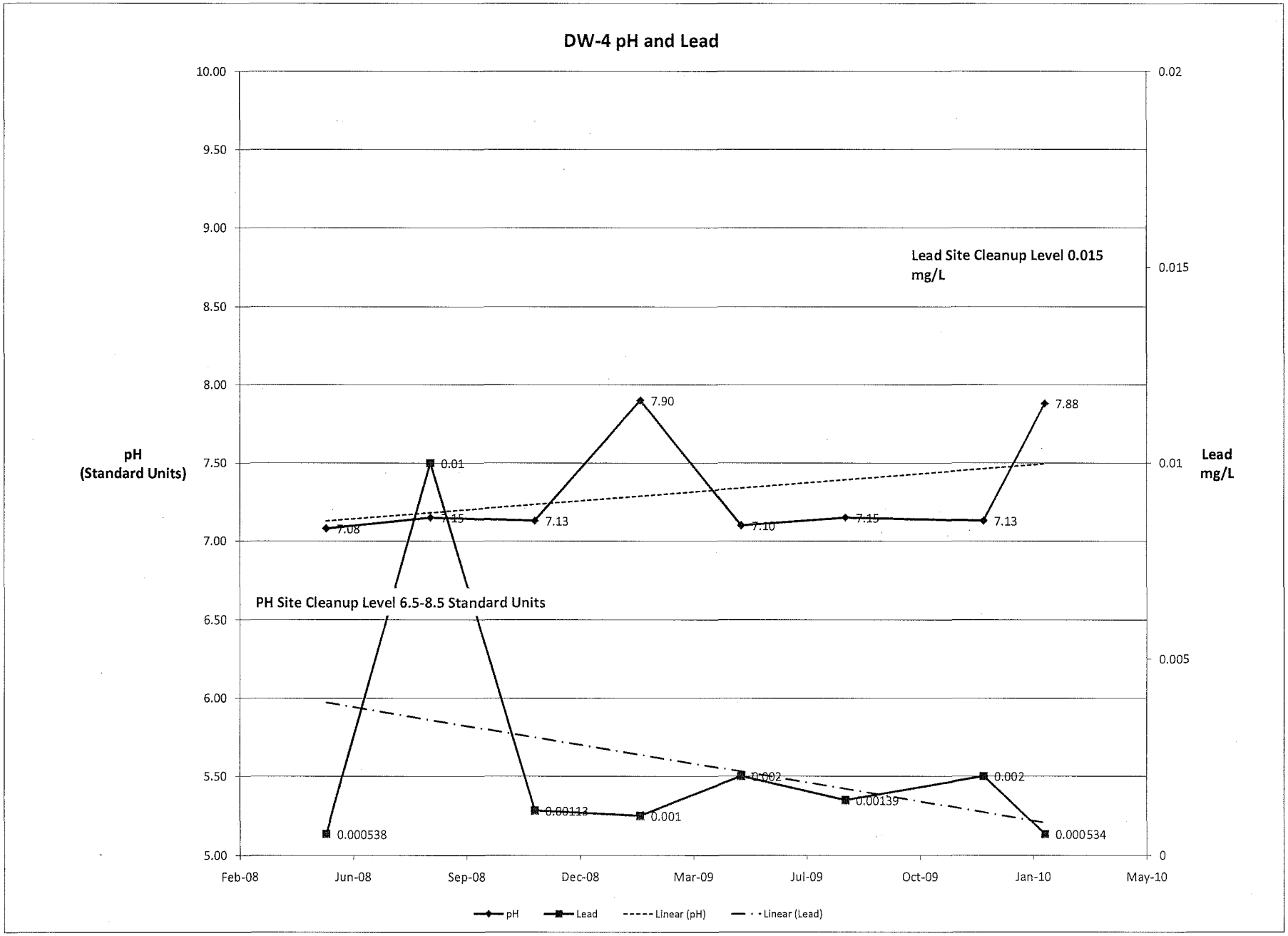

BA-03 Nickel and Thallium
Nickel mg/L
Thallium mg/L
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
0.188
0.0975
0.0988
0.0769
0.0749
0.0742
0.0898
0.0321
0.002
0.00195
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.0025
0.002
0.0015
0.001
0.0005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

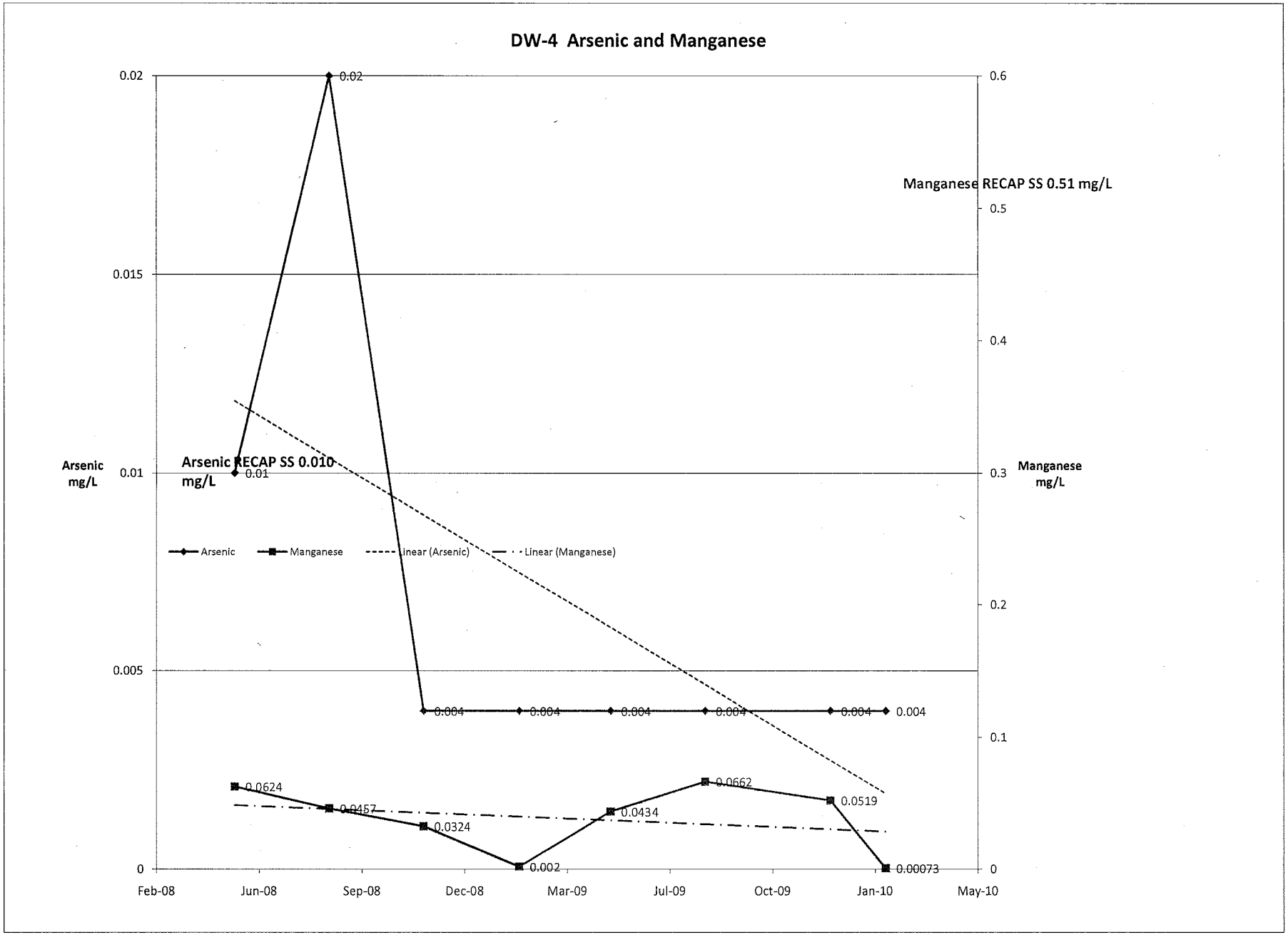

BA-09 pH and Lead
PH Site Cleanup Level 6.0-9.0 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
3.52
3.68
3.68
3.71
3.63
3.63
3.58
0.000459
0.000643
0.00115
0.00418
0.002
0.000985
0.01
0.005
pH
Lead
Linear (pH)
Linear (Lead)

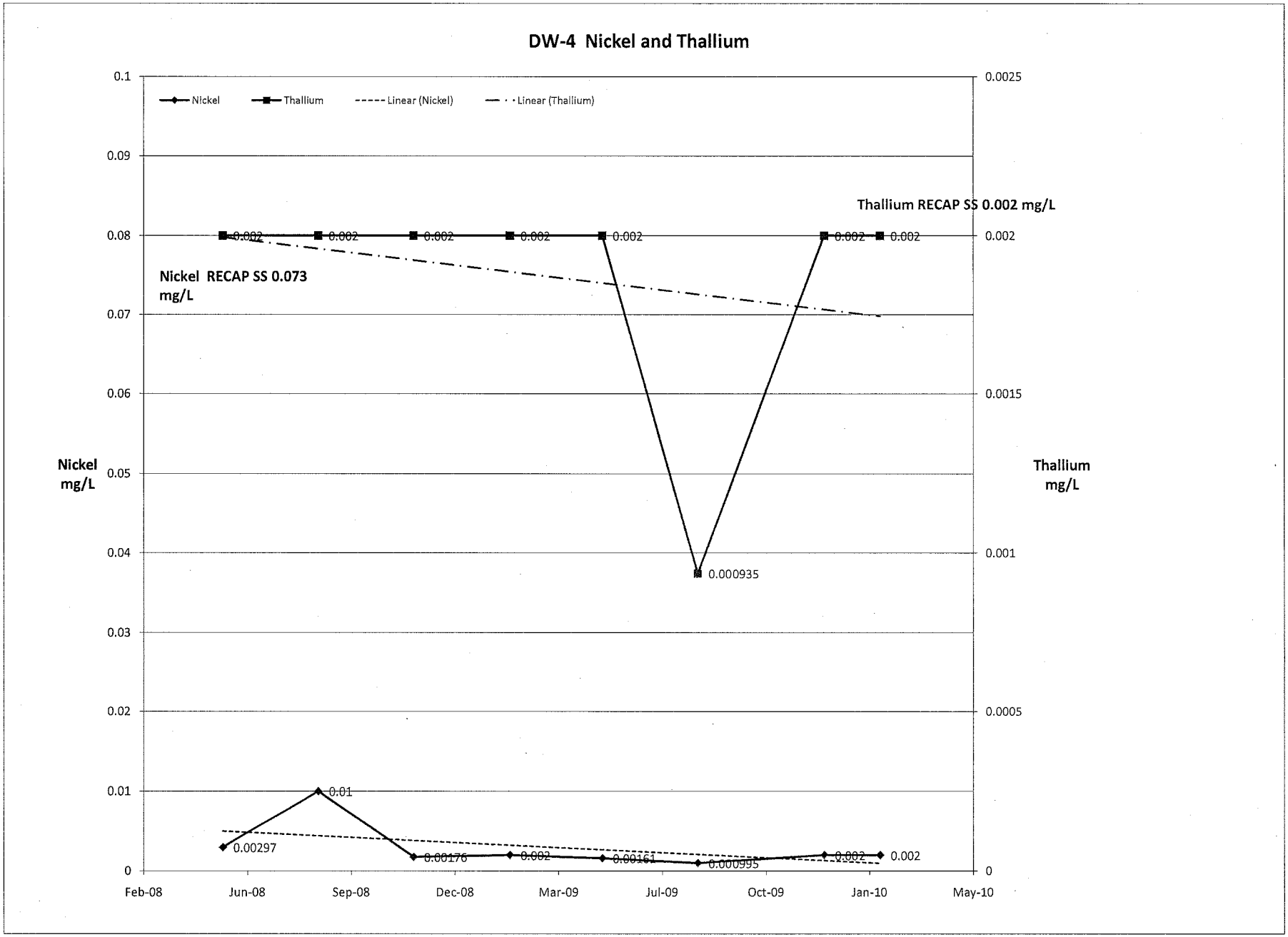

BA-09 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.06
0.05
0.04
0.03
0.02
0.01
0
7
6
5
4
3
2
1
0
0.0536
0.0452
0.0407
0.0388
0.0364
0.0322
0.0297
0.0293
3.91
3.41
3.36
3.05
2.99
2.63
2.47
2.04
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

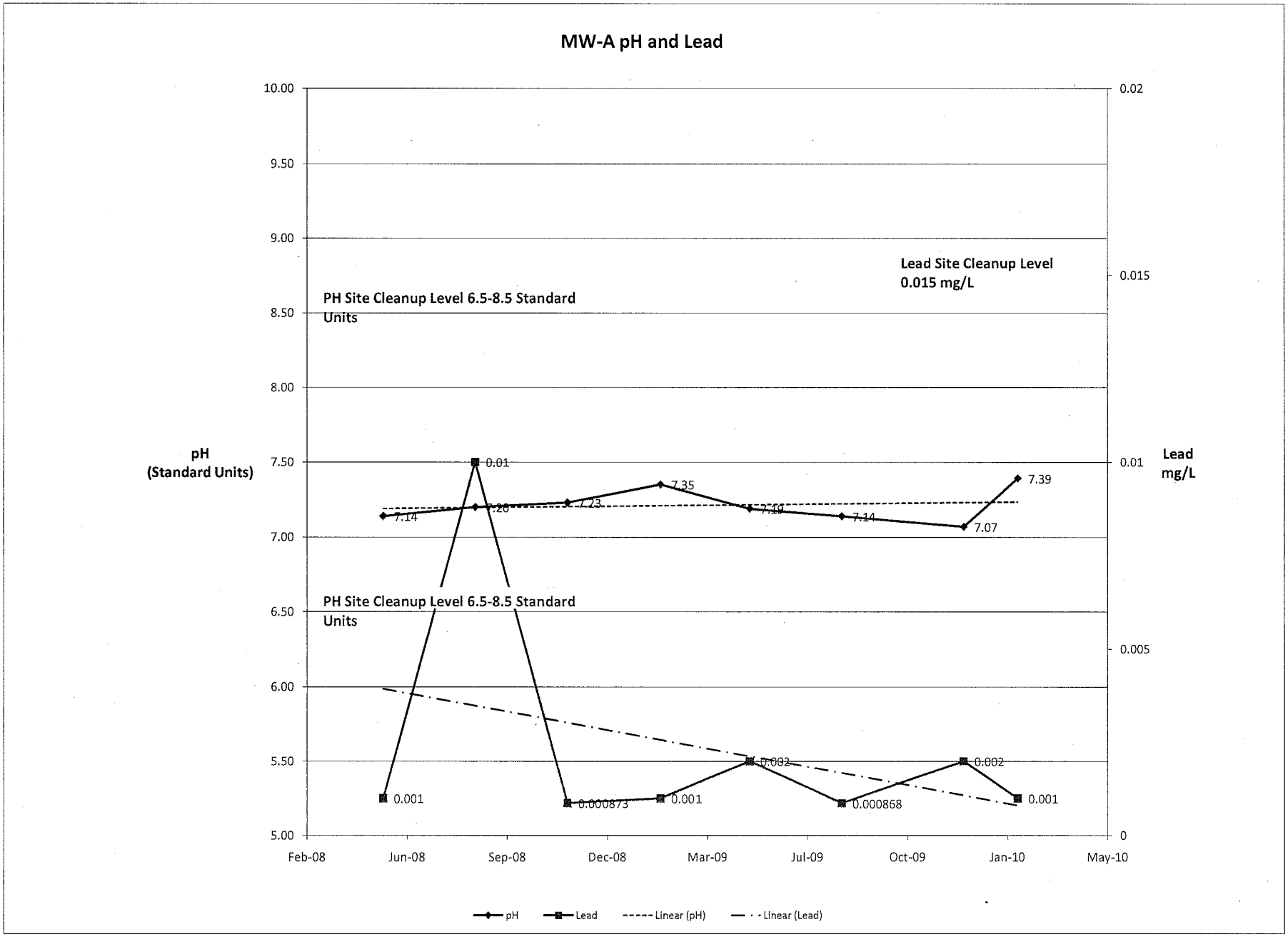

BA-09 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Nickel mg/L
Thallium mg/L
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.012
0.01
0.008
0.006
0.004
0.002
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.154
0.176
0.131
0.147
0.146
0.194
0.121
0.161
0.01
0.01
0.01
0.002
0.002
0.002
0.002
0.002
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L

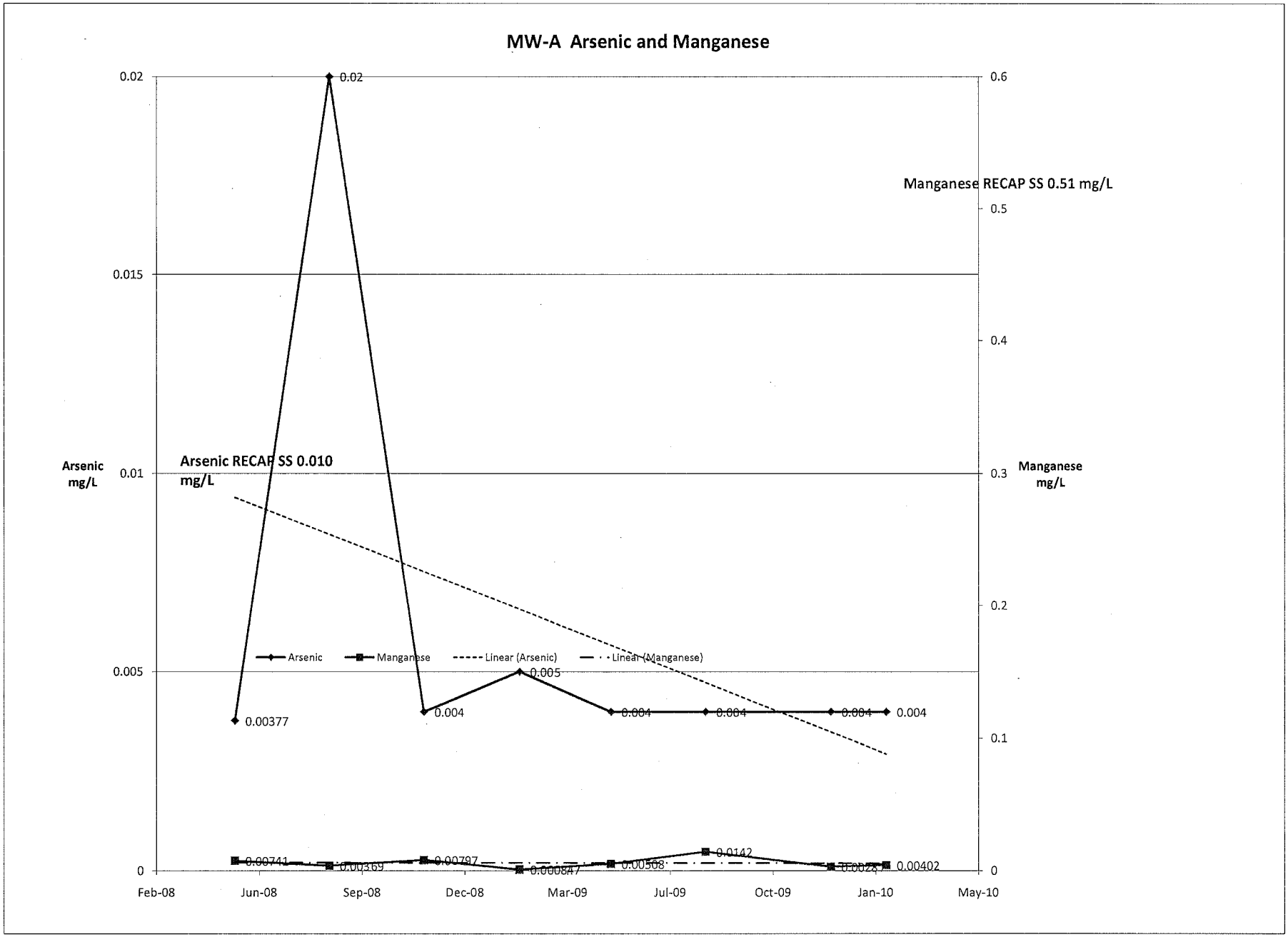
SECOND WATER BEARING ZONE

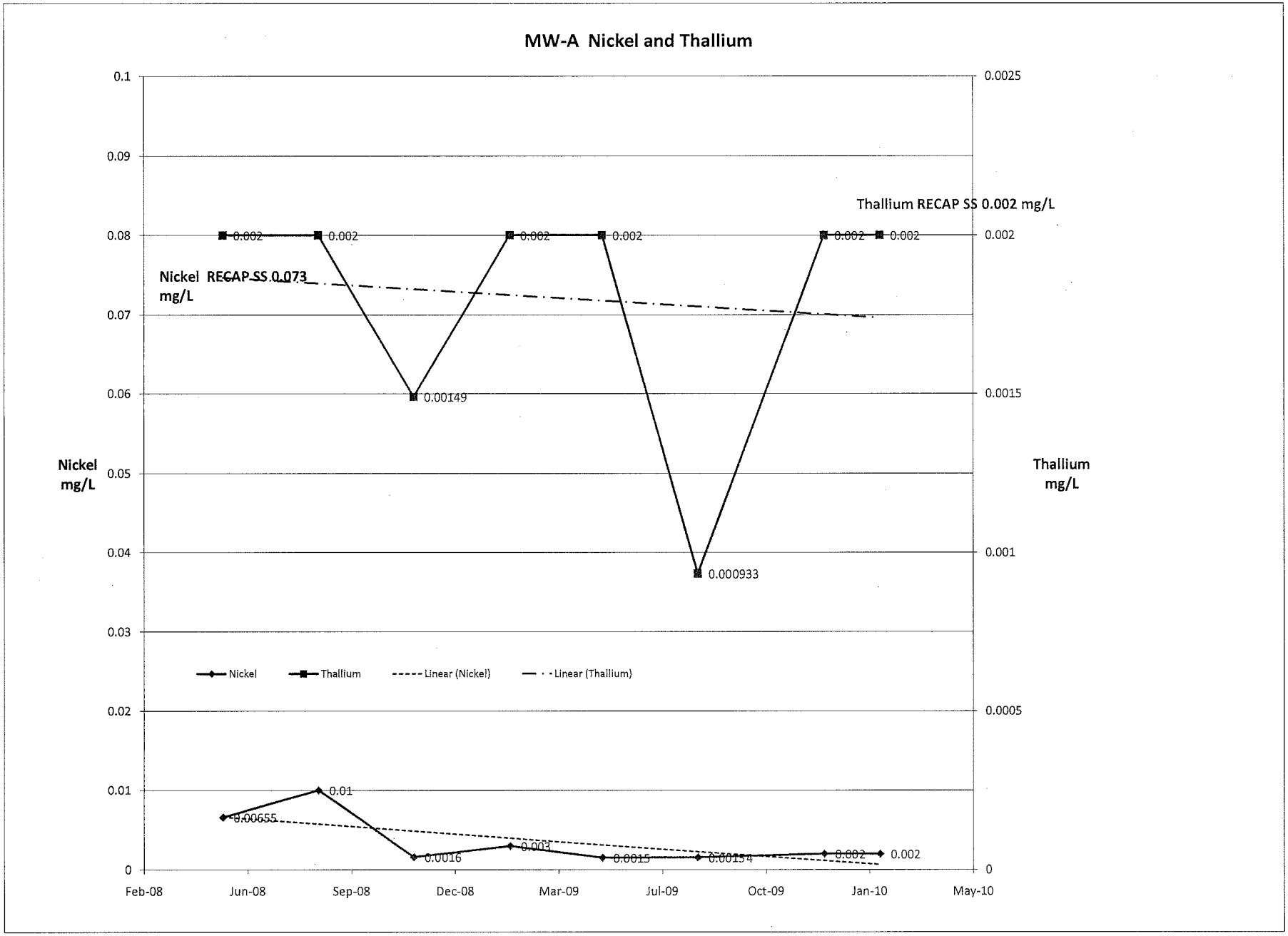

DW-4 pH and Lead
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
7.08
7.15
7.13
7.90
7.10
7.15
7.13
7.88
0.000538
0.01
0.00113
0.001
0.002
0.00139
0.002
0.000534
pH
Lead
Linear (pH)
Linear (Lead)

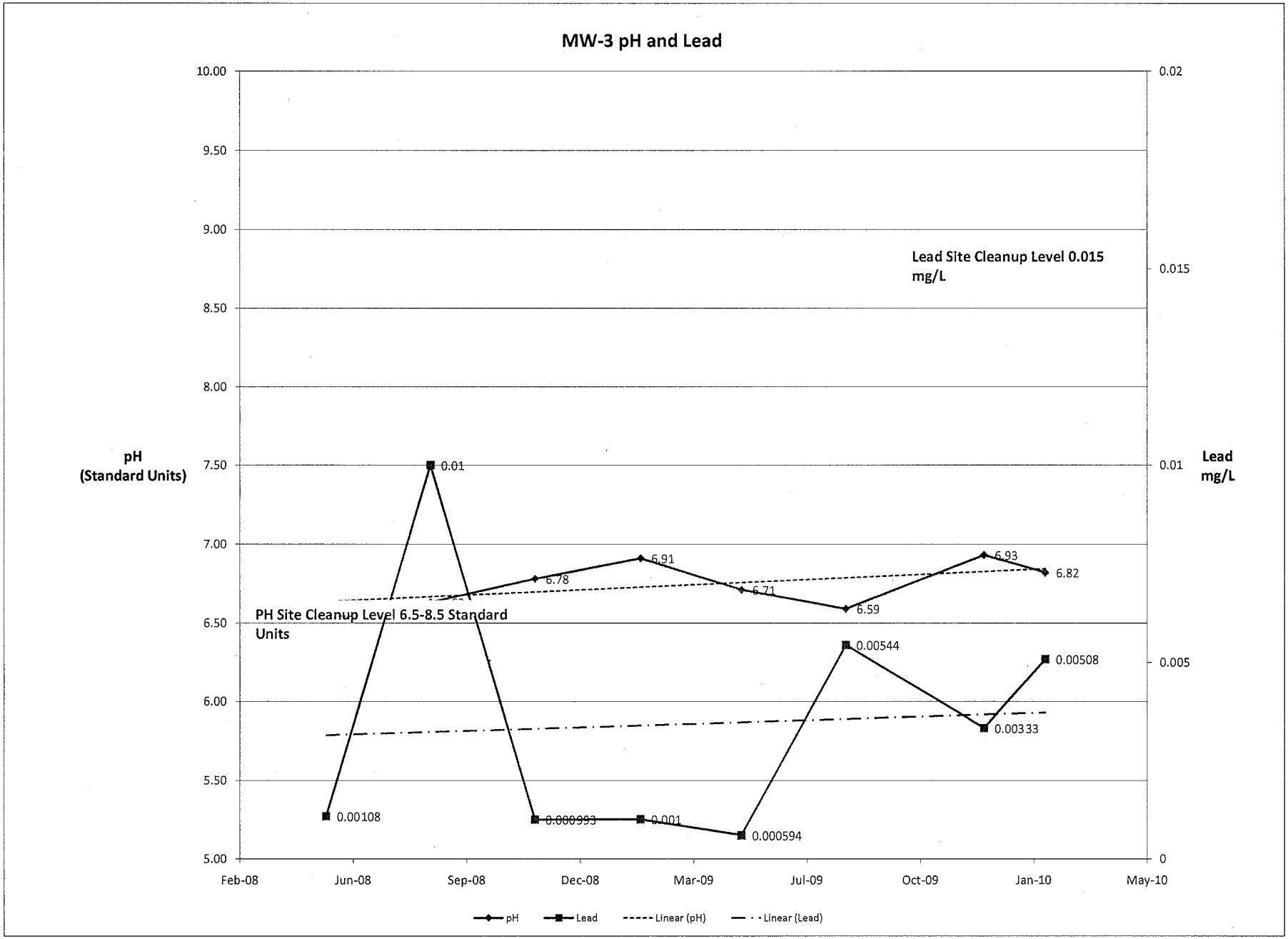

DW-4 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.02
0.01
0.004
0.004
0.004
0.004
0.004
0.004
0.0624
0.0457
0.0324
0.002
0.0434
0.0662
0.0519
0.00073
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

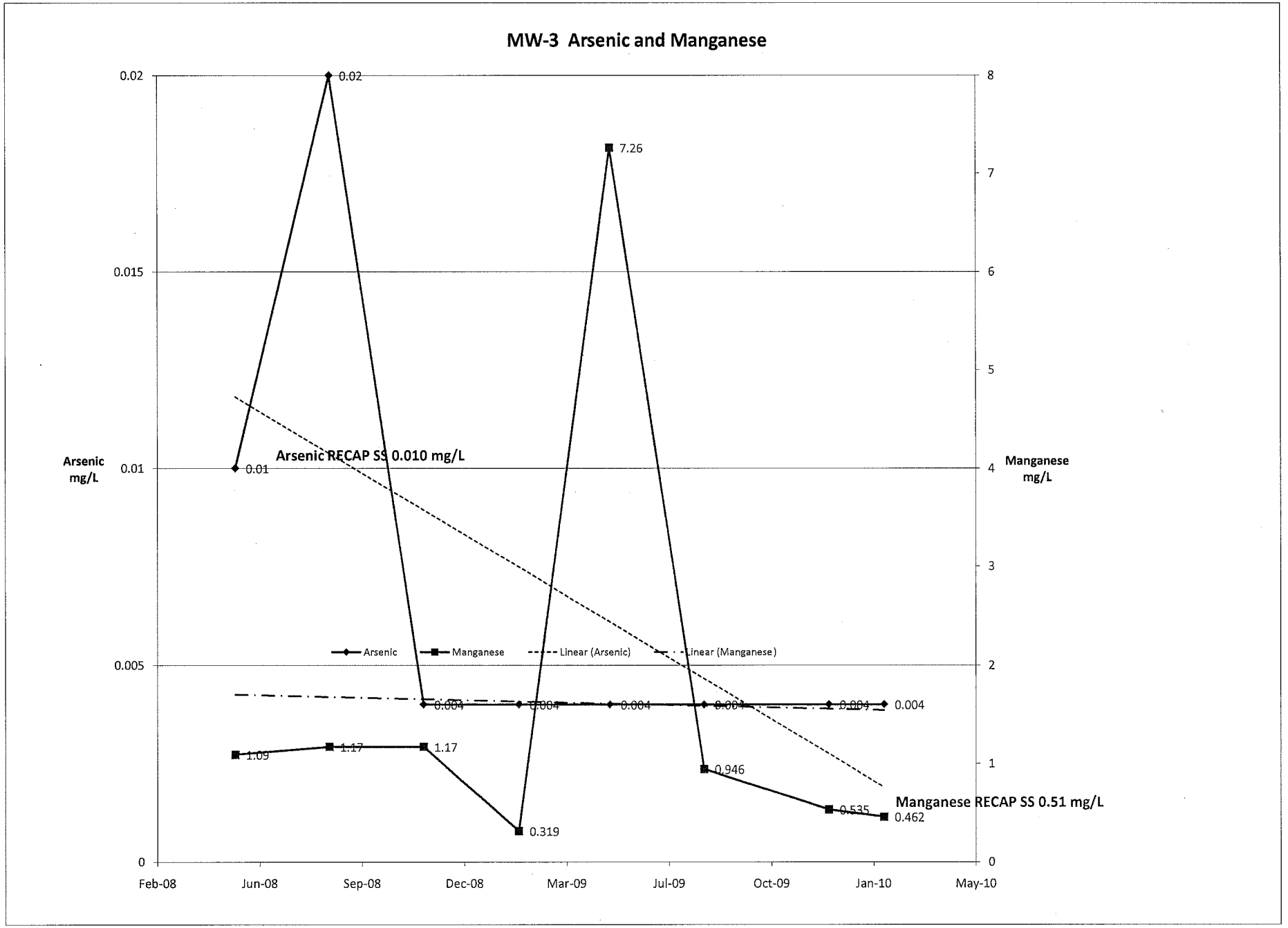

DW-4 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.000935
0.01
0.00297
0.00176
0.002
0.00161
0.000995
0.002
0.002
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

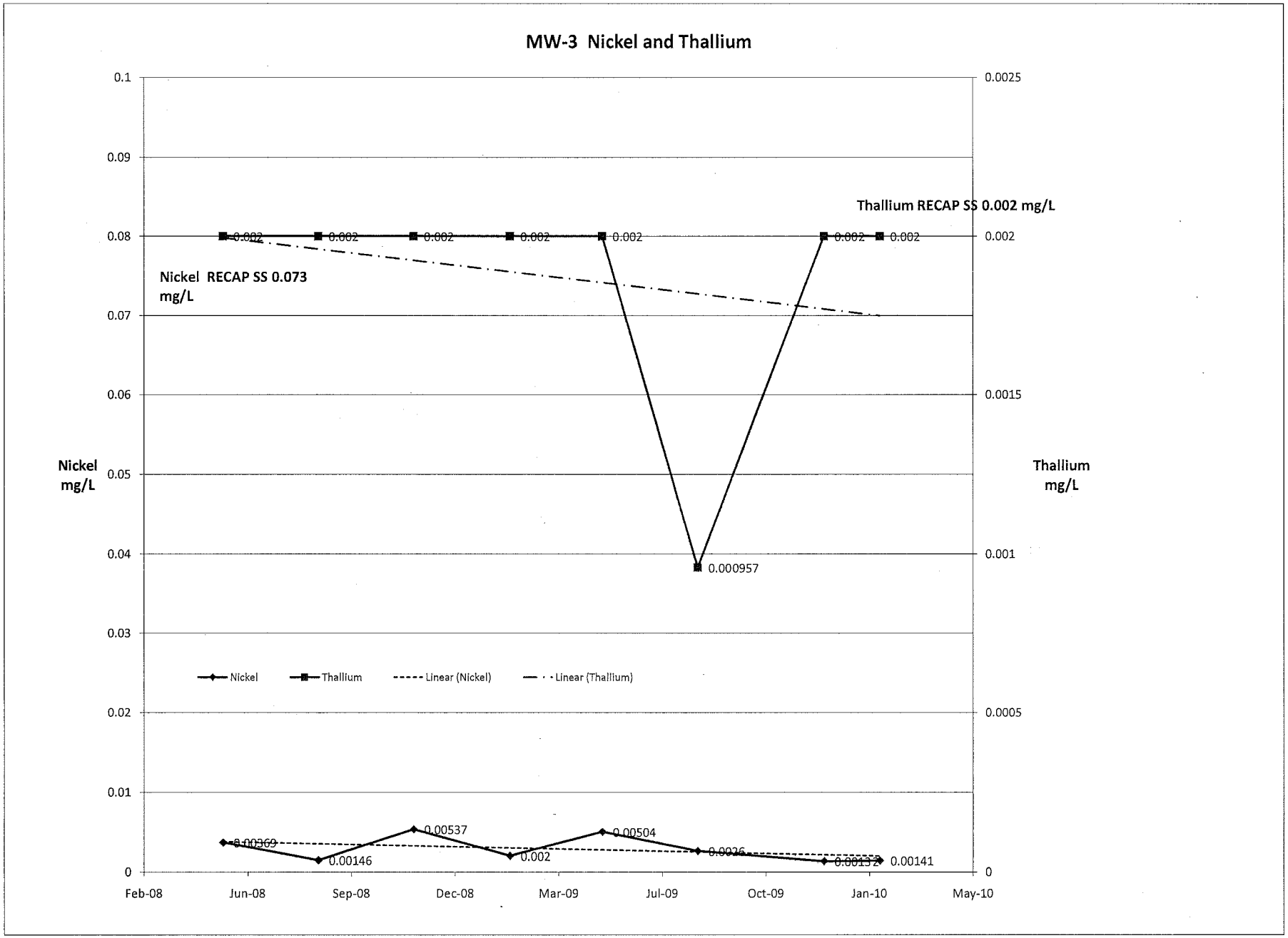

MW-A pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
pH
(Standard Units)
0.02
0.015
0.01
0.005
0
Lead
mg/L
Lead Site Cleanup Level
0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
PH Site Cleanup Level 6.5-8.5 Standard
Units
7.14
7.20
7.23
7.35
7.19
7.14
7.07
7.39
0.001
0.01
0.000873
0.001
0.002
0.000868
0.002
0.001
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

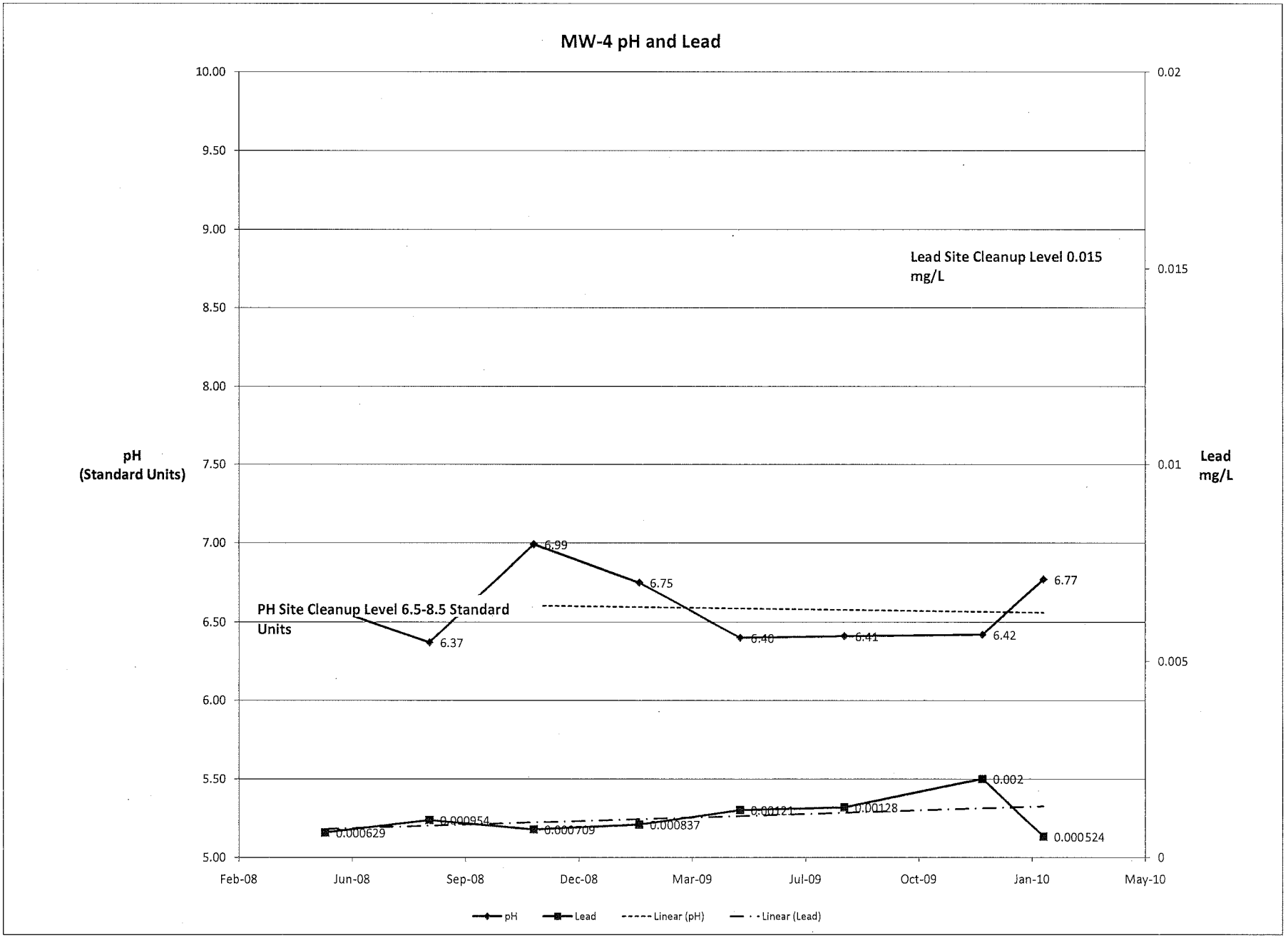

MW-A Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.00377
0.02
0.004
0.005
0.004
0.004
0.004
0.004
0.00741
0.00369
0.00797
0.000847
0.00508
0.0142
0.00402
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

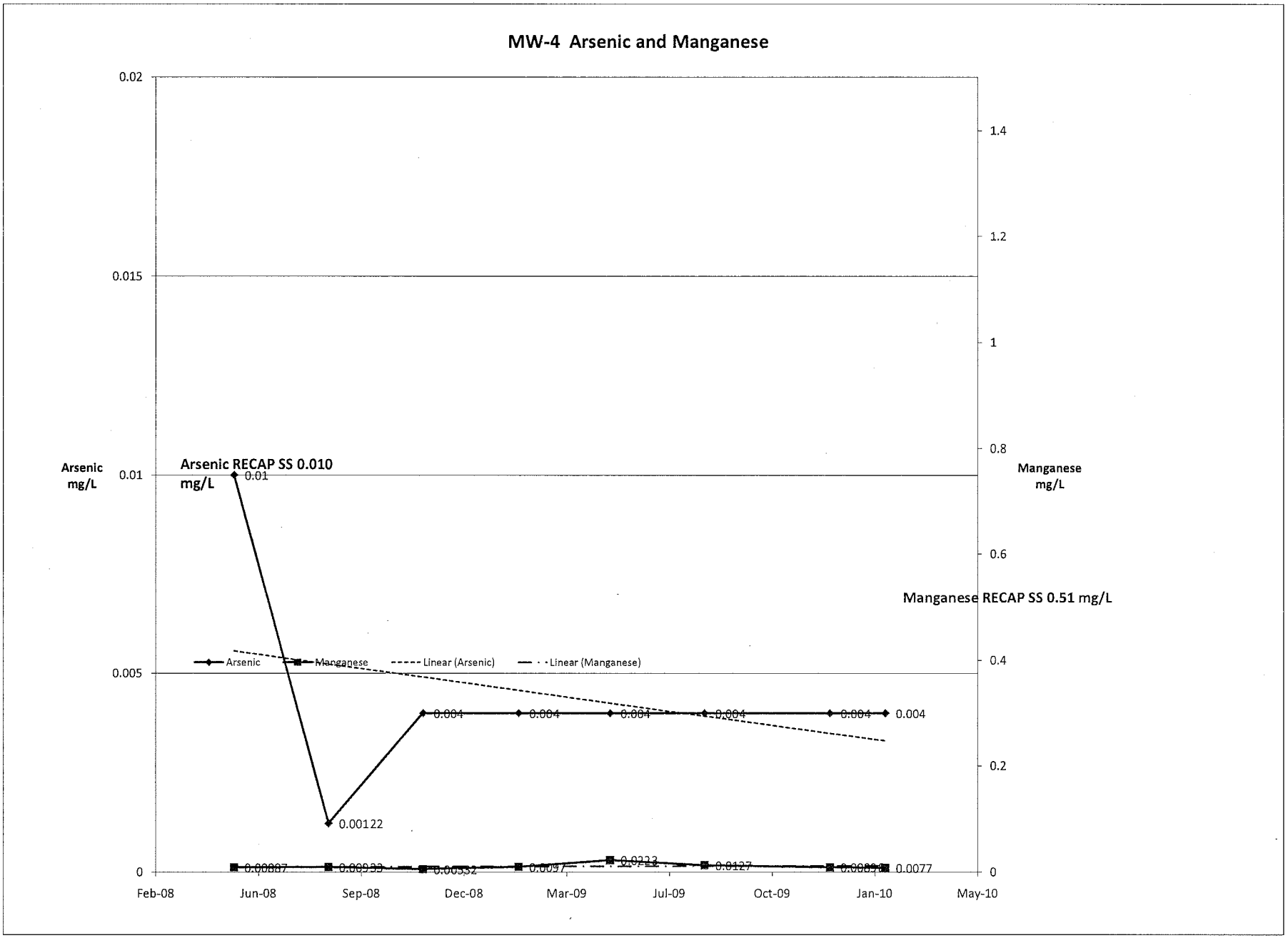

MW-A Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.00149
0.002
0.002
0.000933
0.002
0.002
0.00655
0.01
0.0016
0.003
0.0015
0.00154
0.002
0.002
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

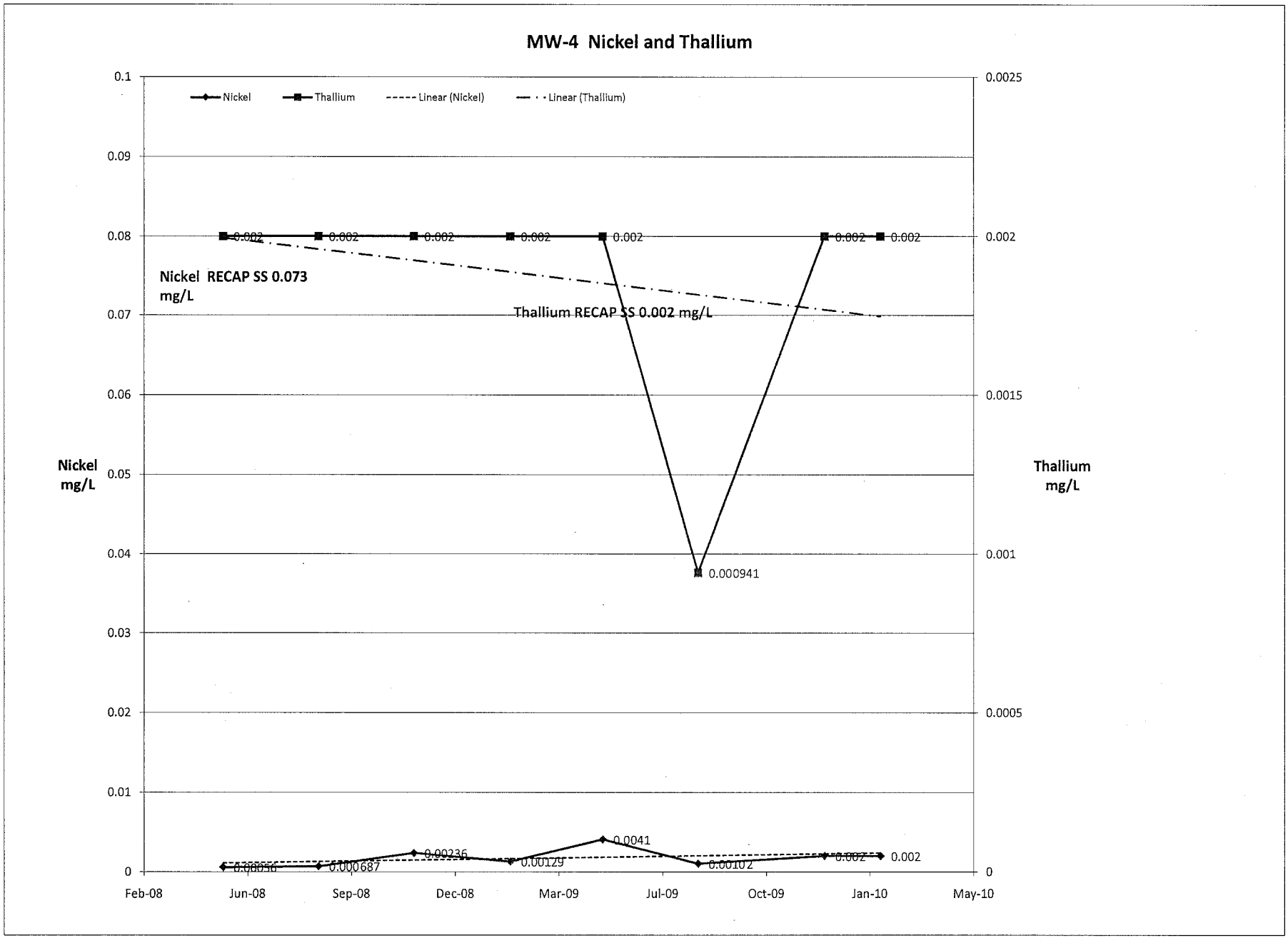

MW-3 pH and Lead
pH (Standard Units)
Lead mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
0.01
6.78
6.91
6.71
6.59
6.93
6.82
0.00544
0.00508
0.00333
0.00108
0.000993
0.001
0.000594
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

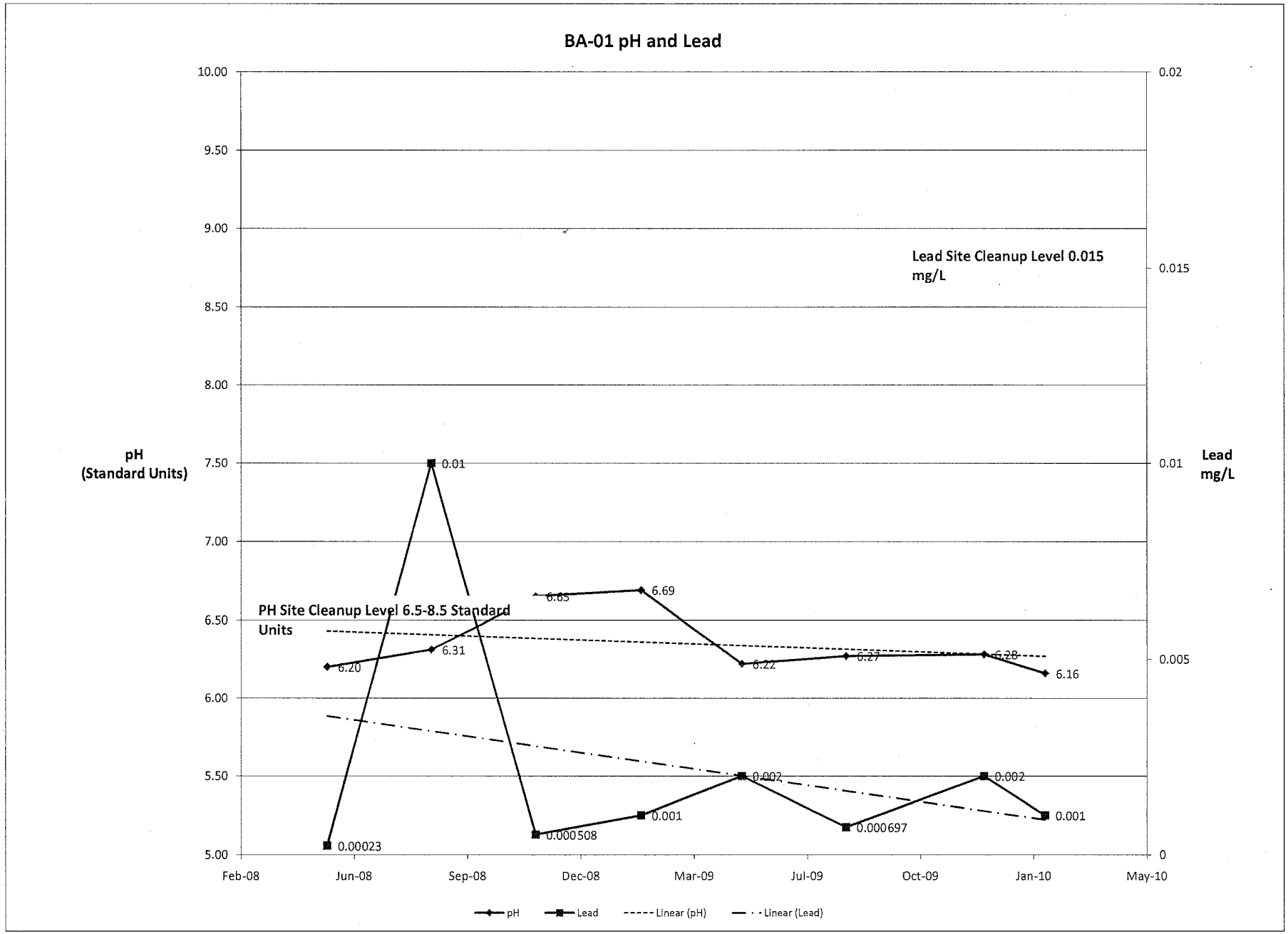

MW-3 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
8
7
6
5
4
3
2
1
0
0.02
0.01
7.26
0.004
0.004
0.004
0.004
0.004
0.004
1.09
1.17
1.17
0.319
0.946
0.535
0.462
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

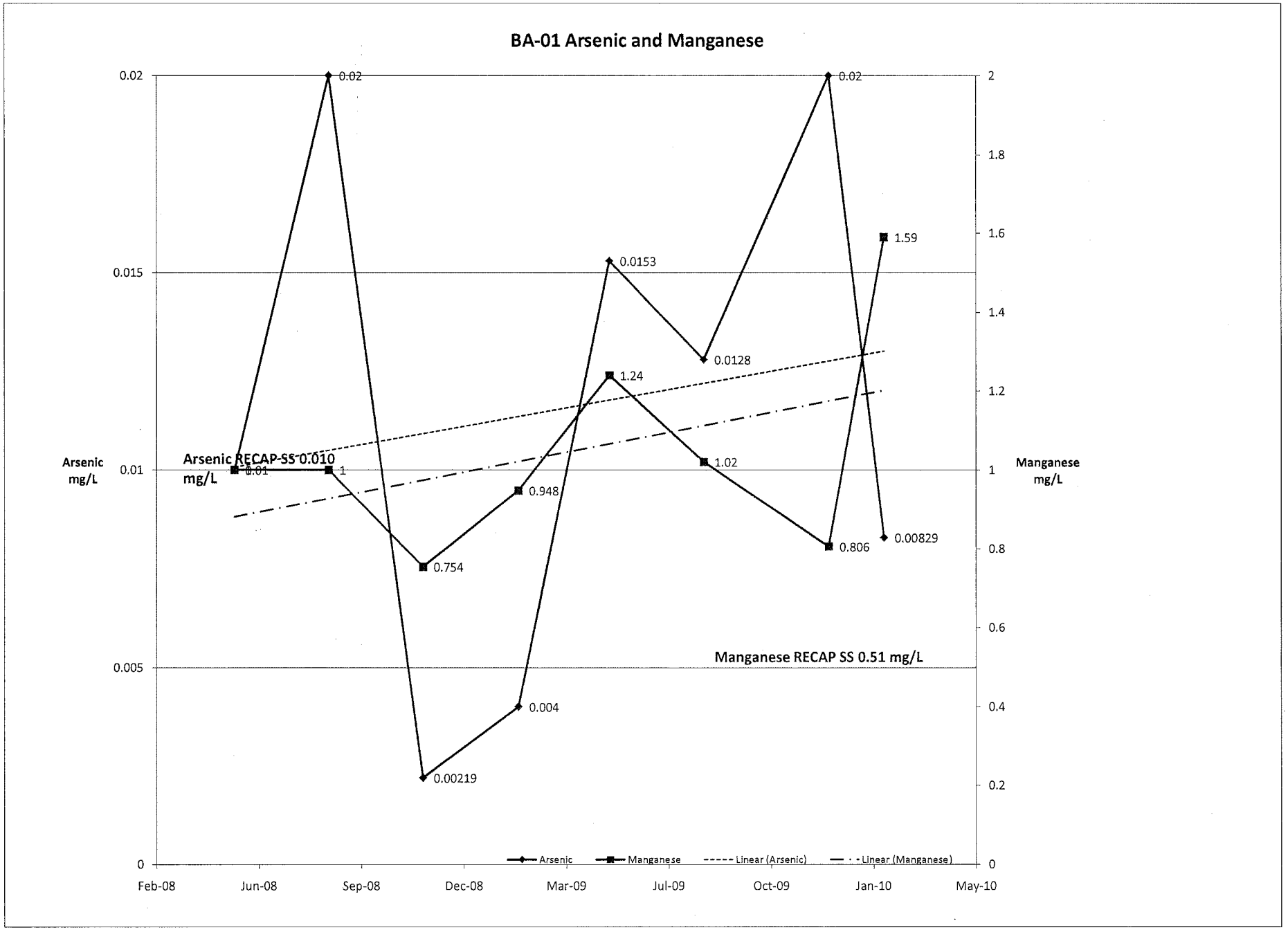

MW-3 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000957
0.00369
0.00146
0.00537
0.002
0.00504
0.0026
0.00141
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

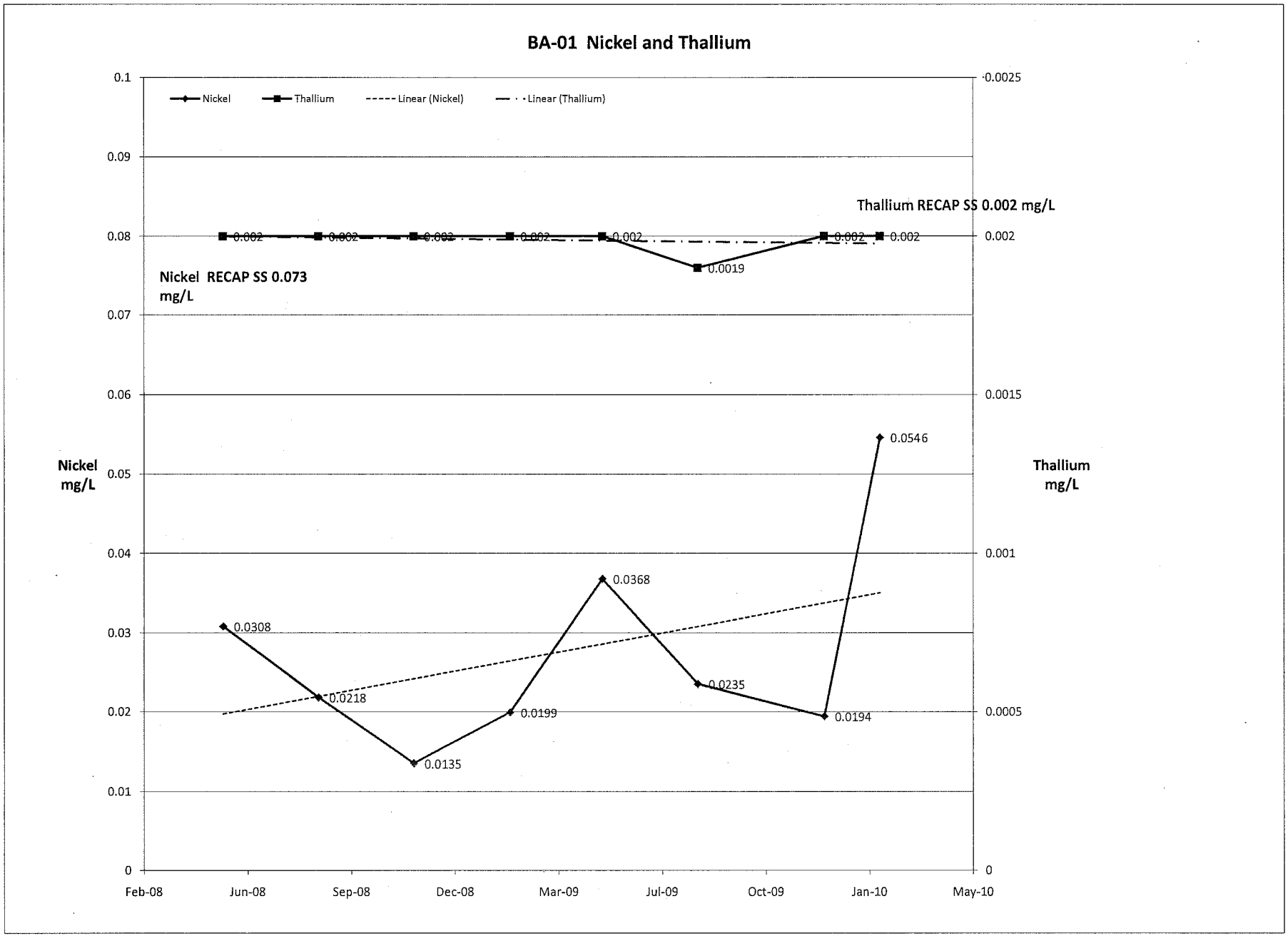

MW-4 pH and Lead
pH (Standard Units)
Lead mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
6.99
6.75
6.77
6.37
6.40
6.41
6.42
0.002
0.00121
0.00128
0.000954
0.000837
0.000709
0.000629
0.000524
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

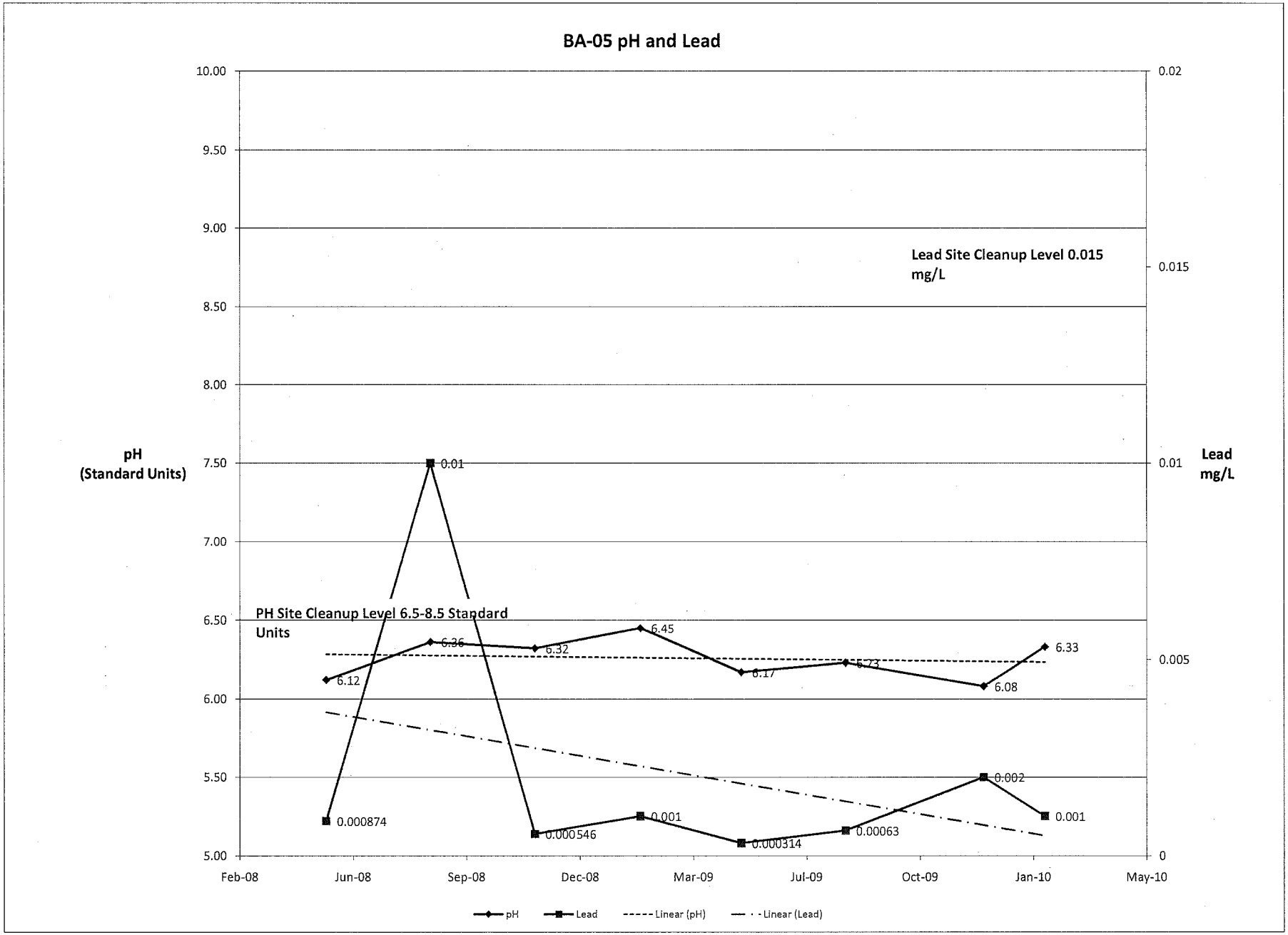

MW-4 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.01
0.00122
0.004
0.0077
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

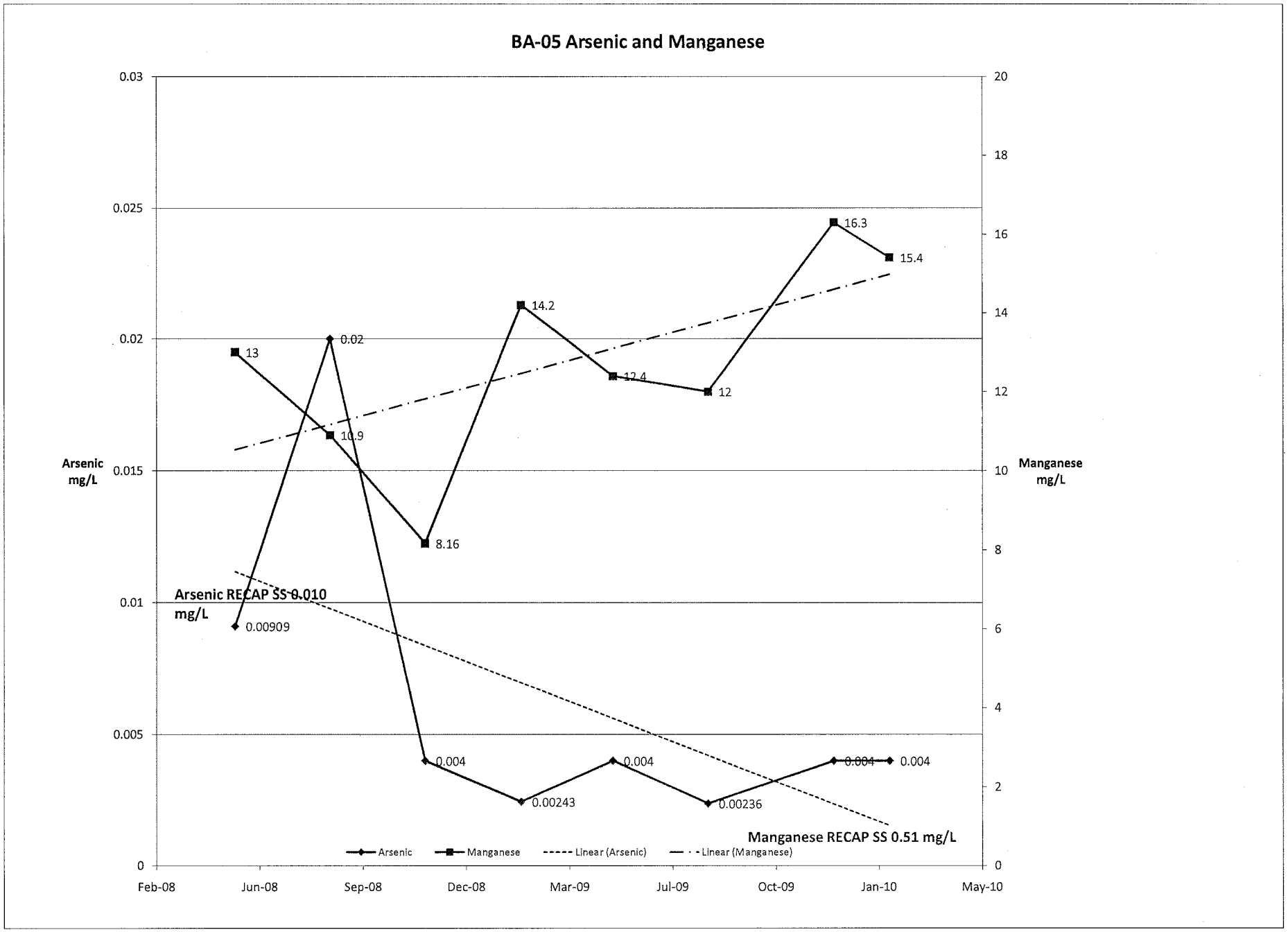

MW-4 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.000941
0.00236
0.00129
0.0041
0.00102
0.002
0.002
0.000687
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

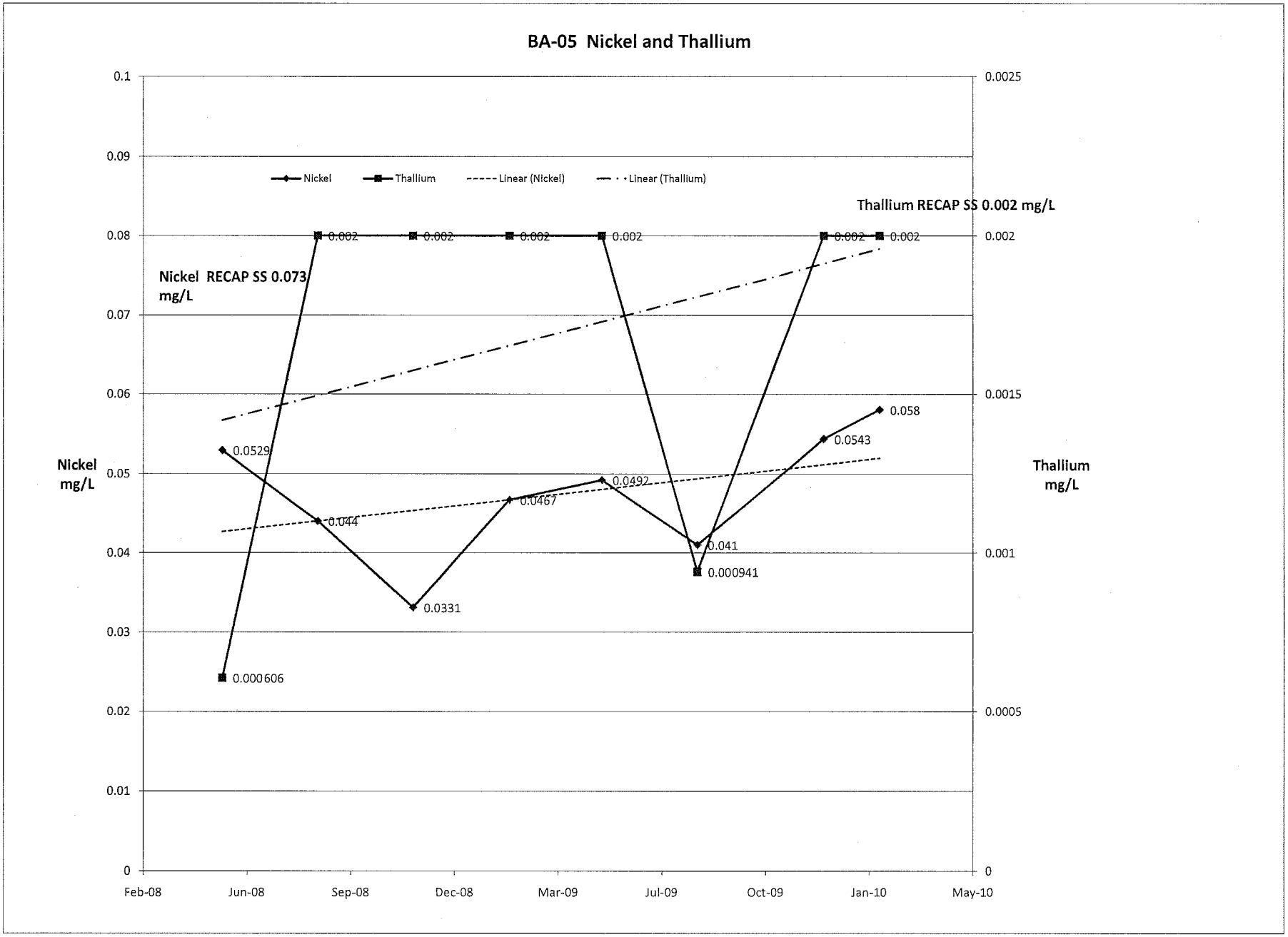

BA-01 pH and Lead
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
6.20
6.31
6.65
6.69
6.22
6.27
6.28
6.16
0.00023
0.01
0.000508
0.001
0.002
0.000697
0.002
0.001
pH
Lead
Linear (pH)
Linear (Lead)

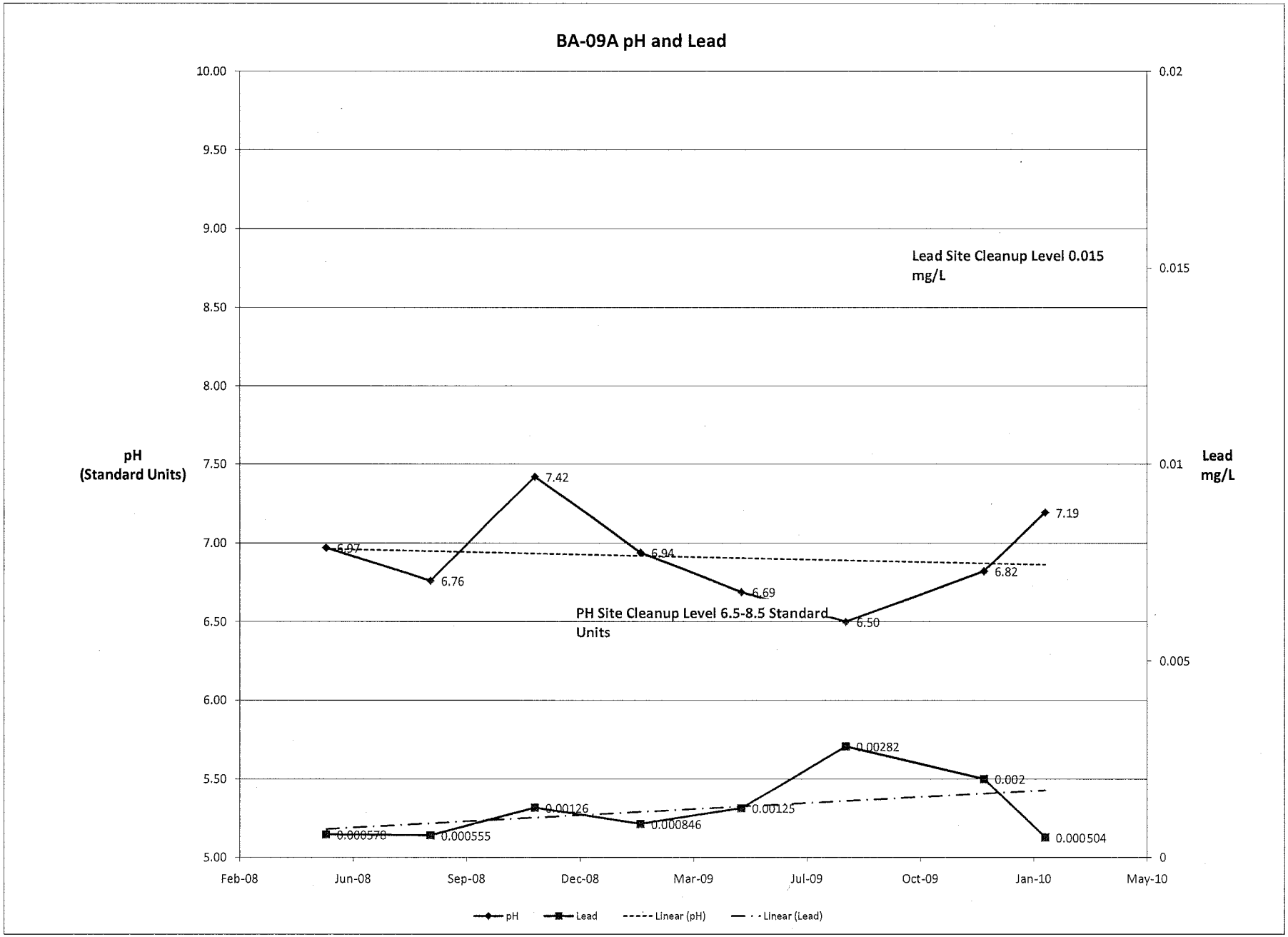

BA-01 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.02
0.02
0.0153
0.0128
1.59
1.24
1.02
0.948
0.754
0.806
0.00829
0.004
0.00219
0.01
1
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

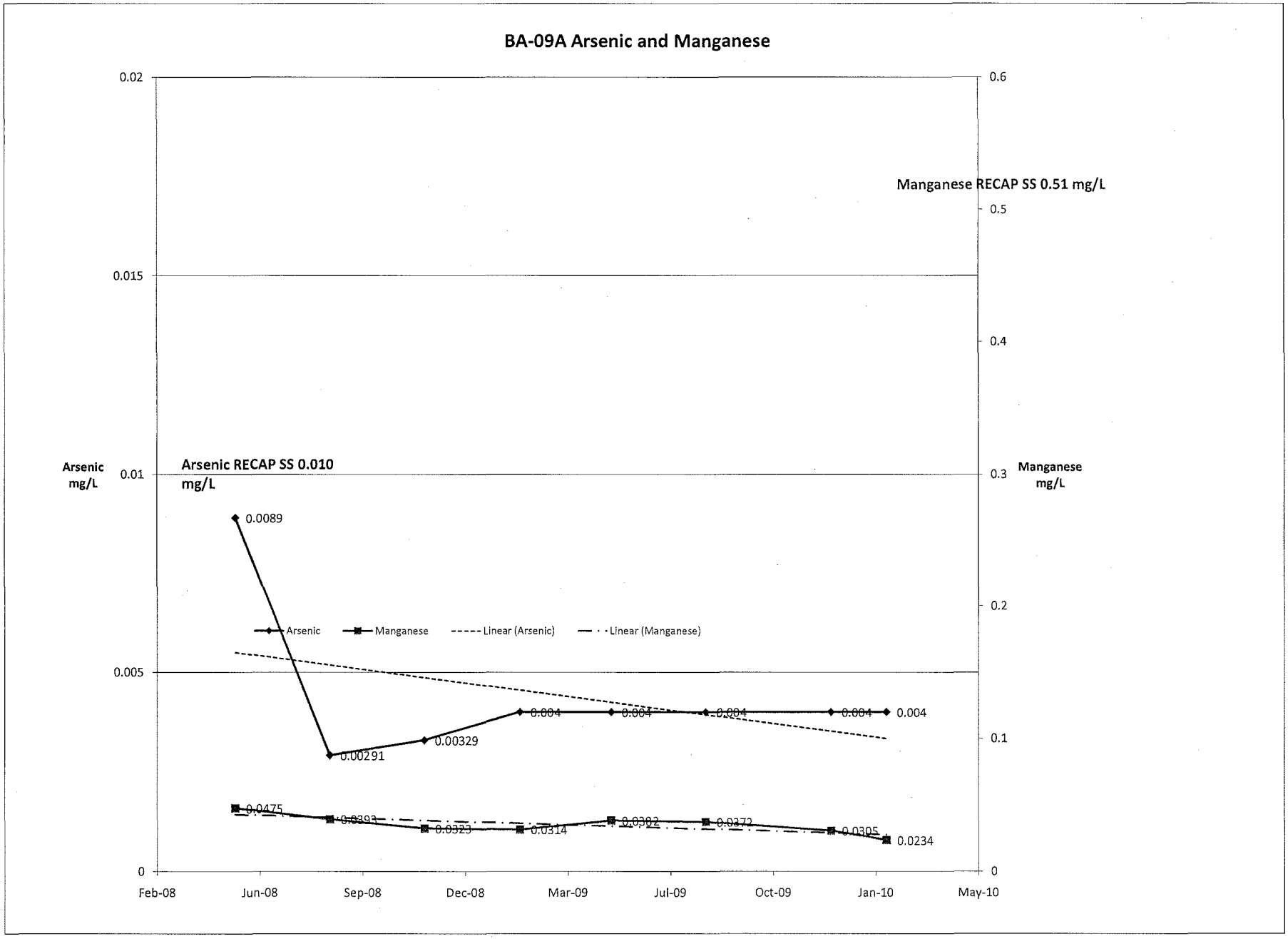

BA-01 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.0019
0.0308
0.0218
0.0135
0.0199
0.0368
0.0235
0.0194
0.0546
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

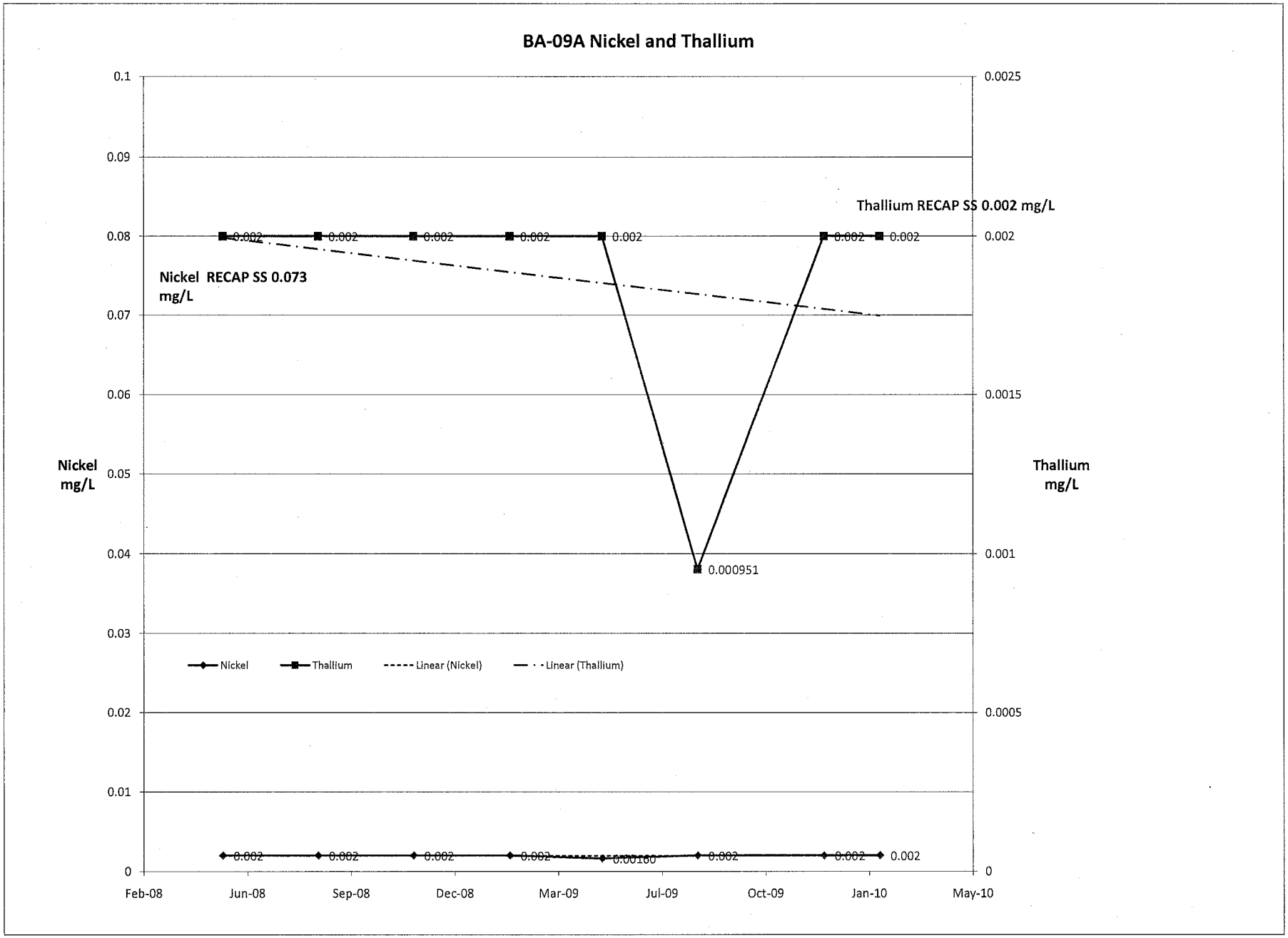

BA-05 pH and Lead
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
6.12
6.36
6.32
6.45
6.17
6.23
6.08
6.33
0.000874
0.01
0.000546
0.001
0.000314
0.00063
0.002
0.001
pH
Lead
Linear (pH)
Linear (Lead)

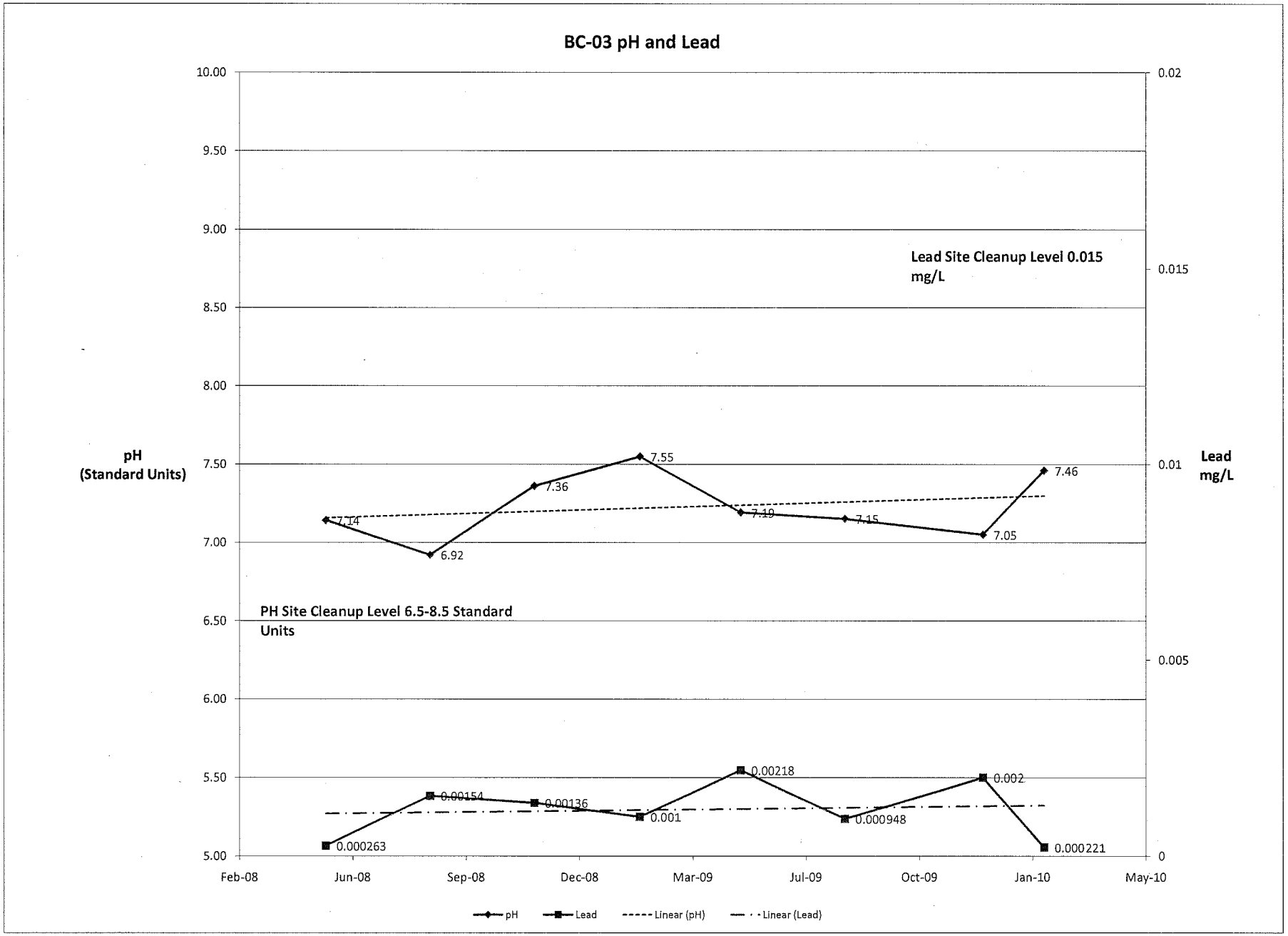

BA-05 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
20
18
16
14
12
10
8
6
4
2
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
13
10.9
8.16
14.2
12.4
12
16.3
15.4
0.02
0.00909
0.004
0.00243
0.004
0.00236
0.004
0.004
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

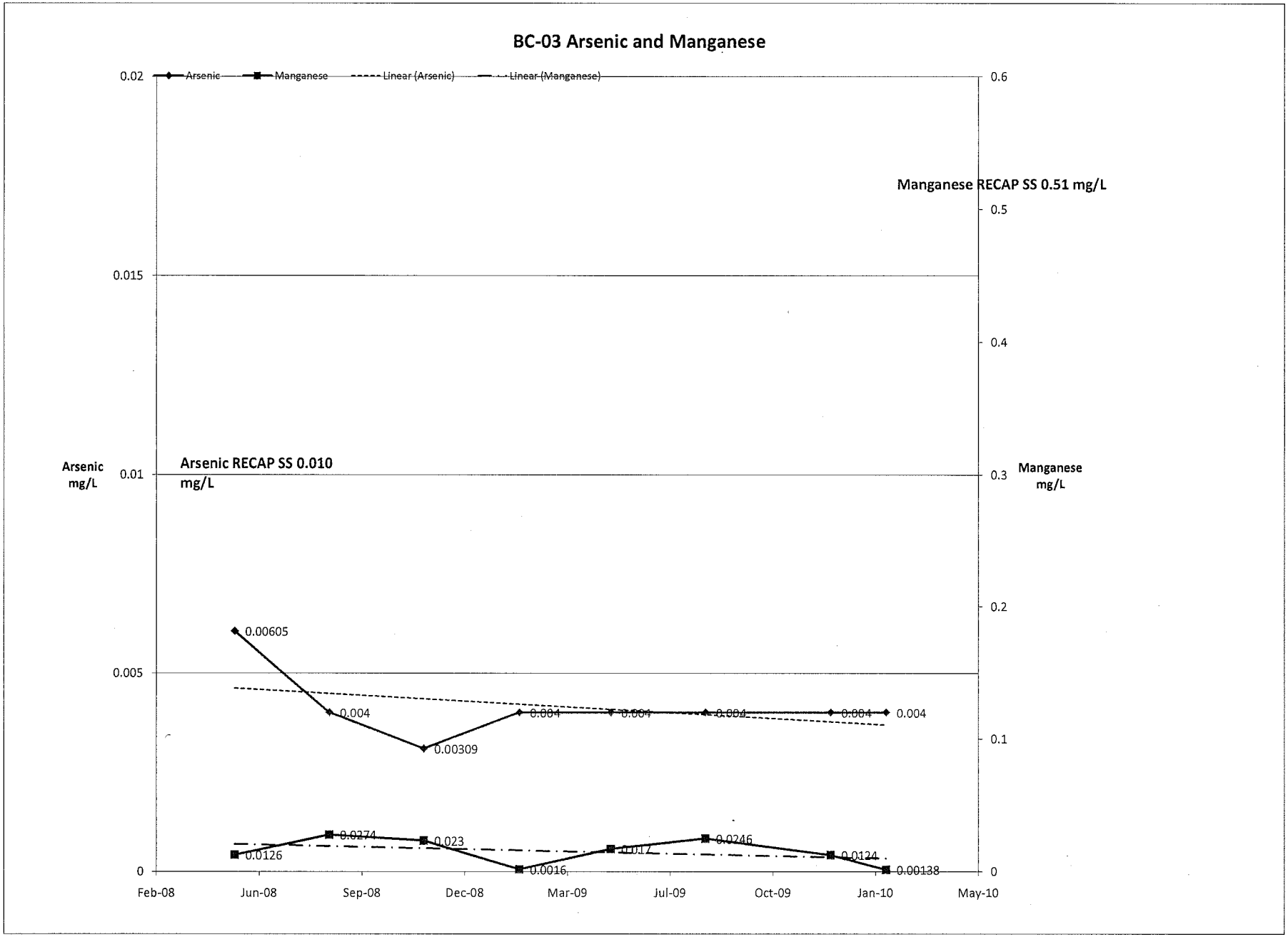

BA-05 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.0529
0.044
0.0331
0.0467
0.0492
0.041
0.058
0.0543
0.002
0.002
0.002
0.002
0.002
0.002
0.000606
0.000941

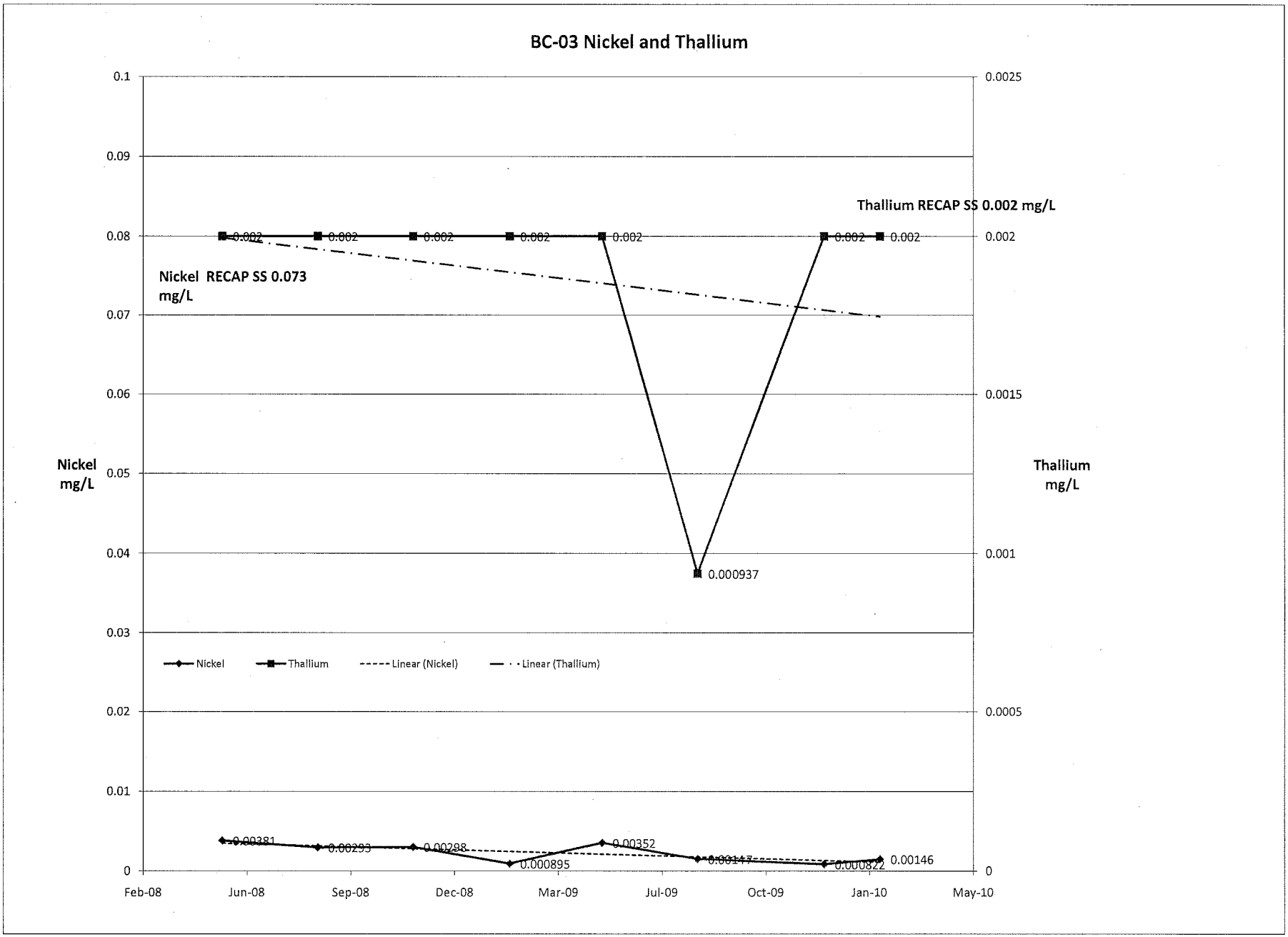

BA-09A pH and Lead
pH (Standard Units)
Lead mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
6.97
6.76
7.42
6.94
6.69
6.50
6.82
7.19
0.000578
0.000555
0.00126
0.000846
0.00125
0.00282
0.002
0.000504
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

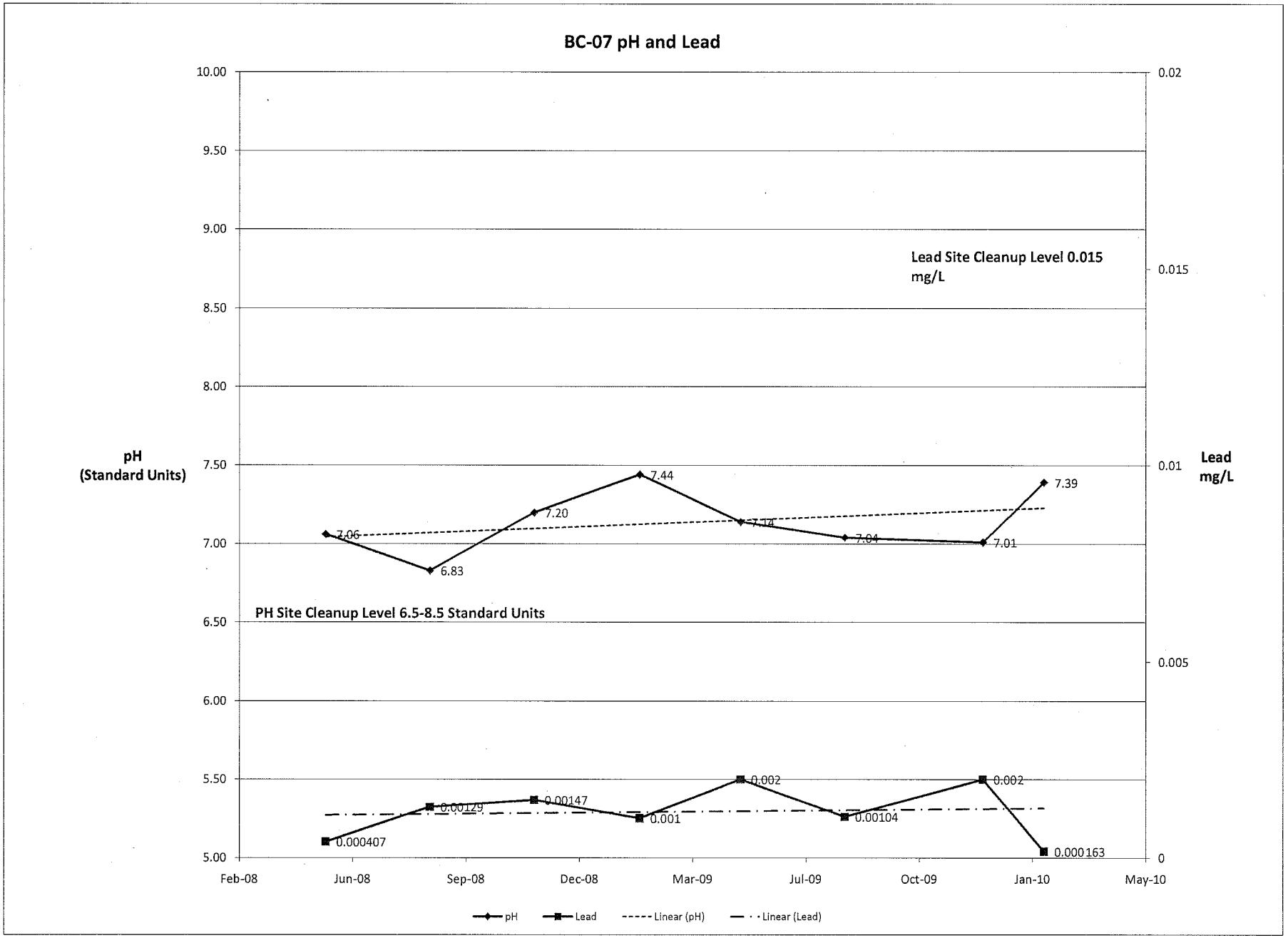

BA-09A Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.0089
0.00291
0.00329
0.004
0.004
0.004
0.004
0.004
0.0475
0.0393
0.0323
0.0314
0.0382
0.0372
0.0305
0.0234

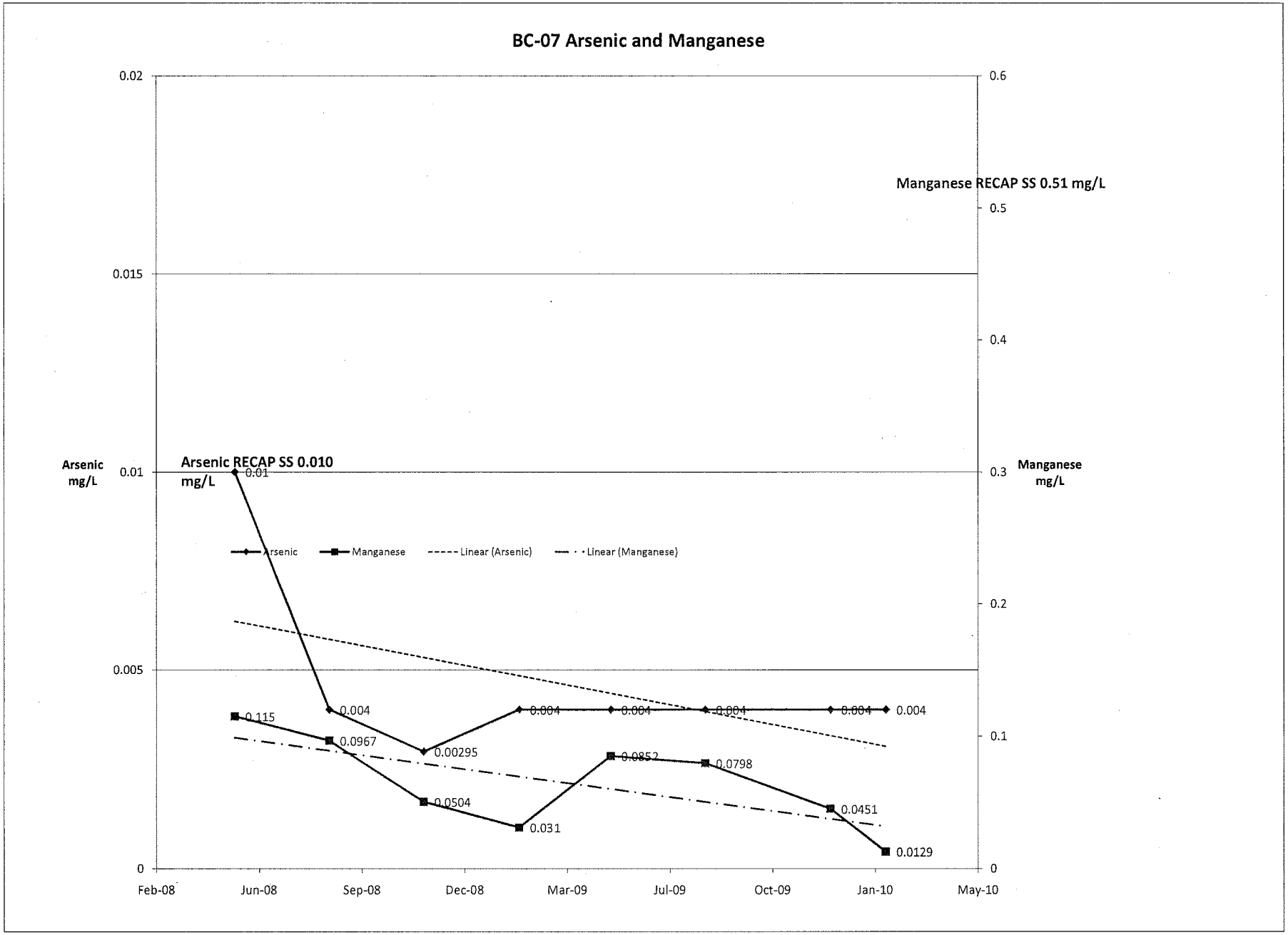

BA-09A Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000951
0.00160
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

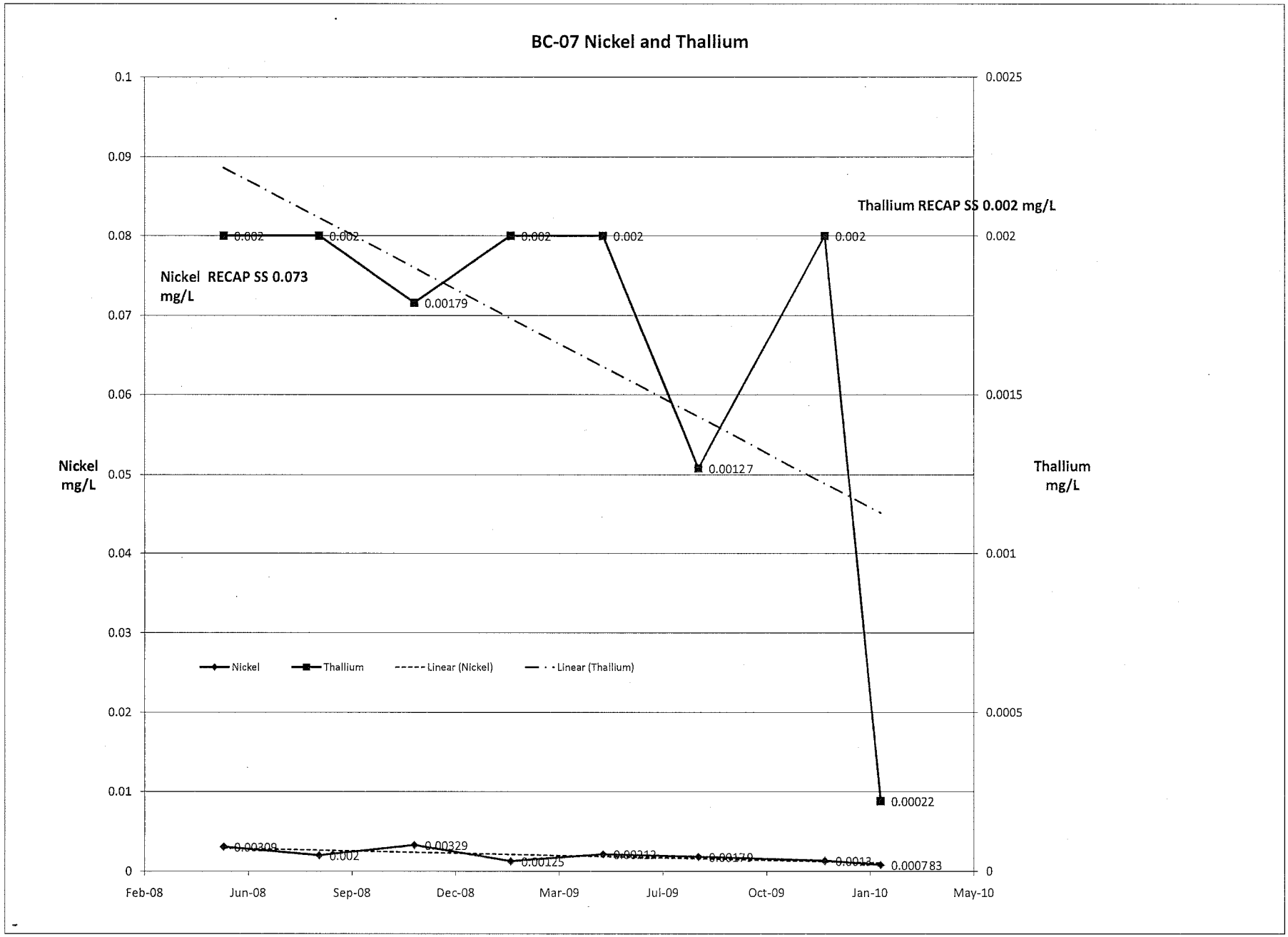

BC-03 pH and Lead
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
7.14
6.92
7.36
7.55
7.19
7.15
7.05
7.46
0.000263
0.00154
0.00136
0.001
0.00218
0.000948
0.002
0.000221
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

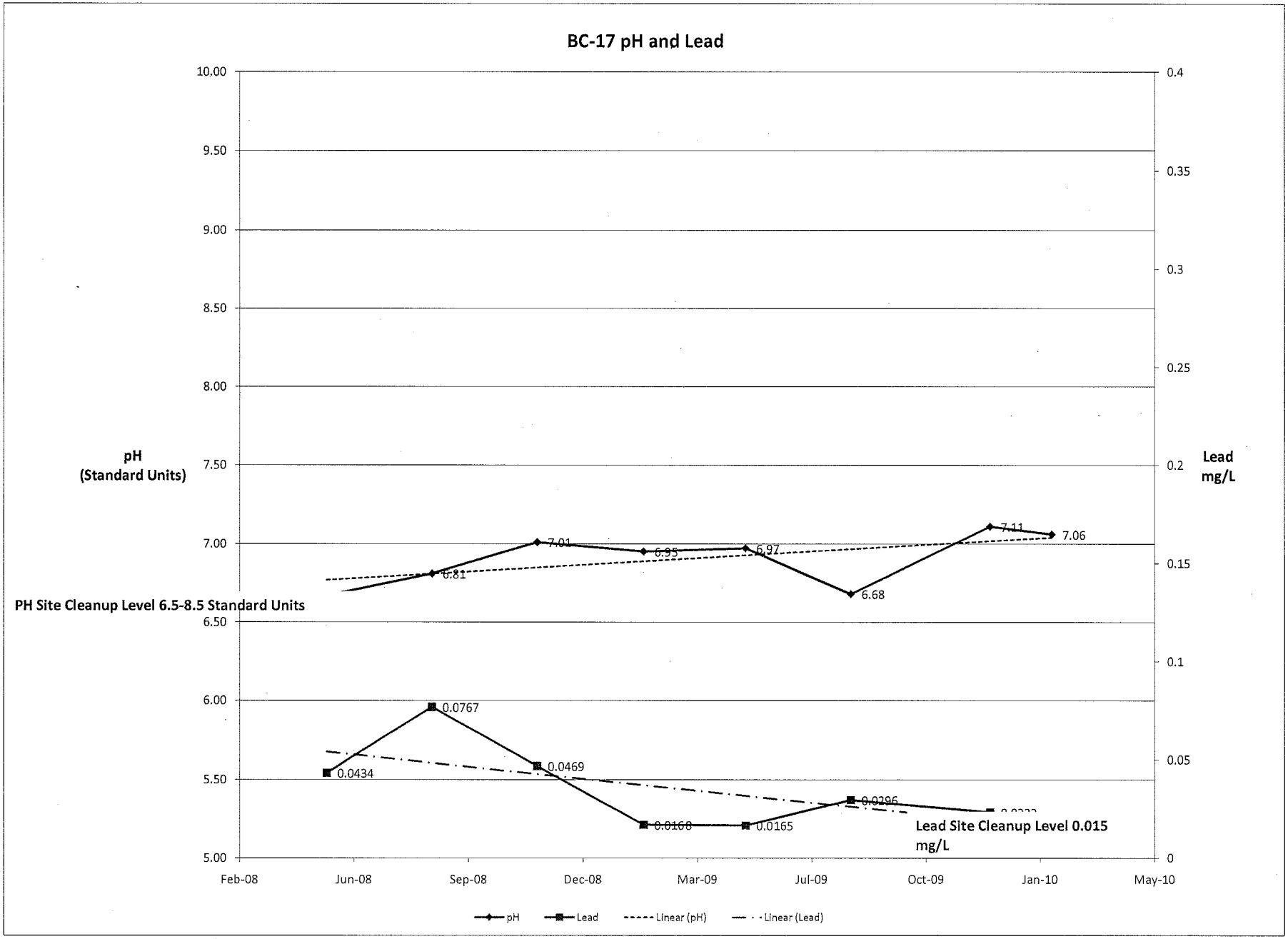

BC-03 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.00605
0.004
0.00309
0.004
0.004
0.004
0.004
0.004
0.0126
0.0274
0.023
0.0016
0.0246
0.0124
0.00138
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

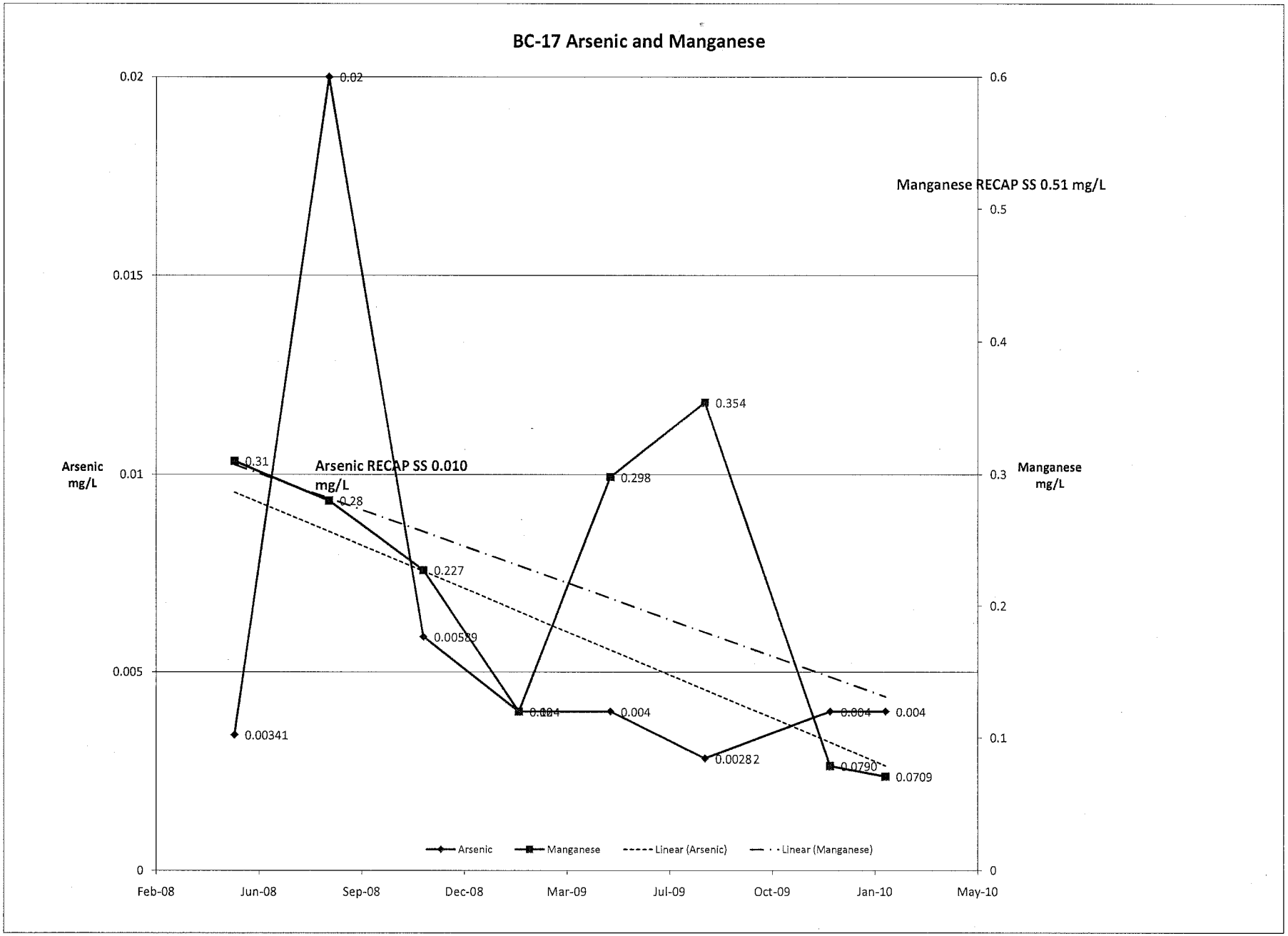

BC-03 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000937
0.00381
0.00293
0.00298
0.000895
0.00352
0.00147
0.000822
0.00146
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

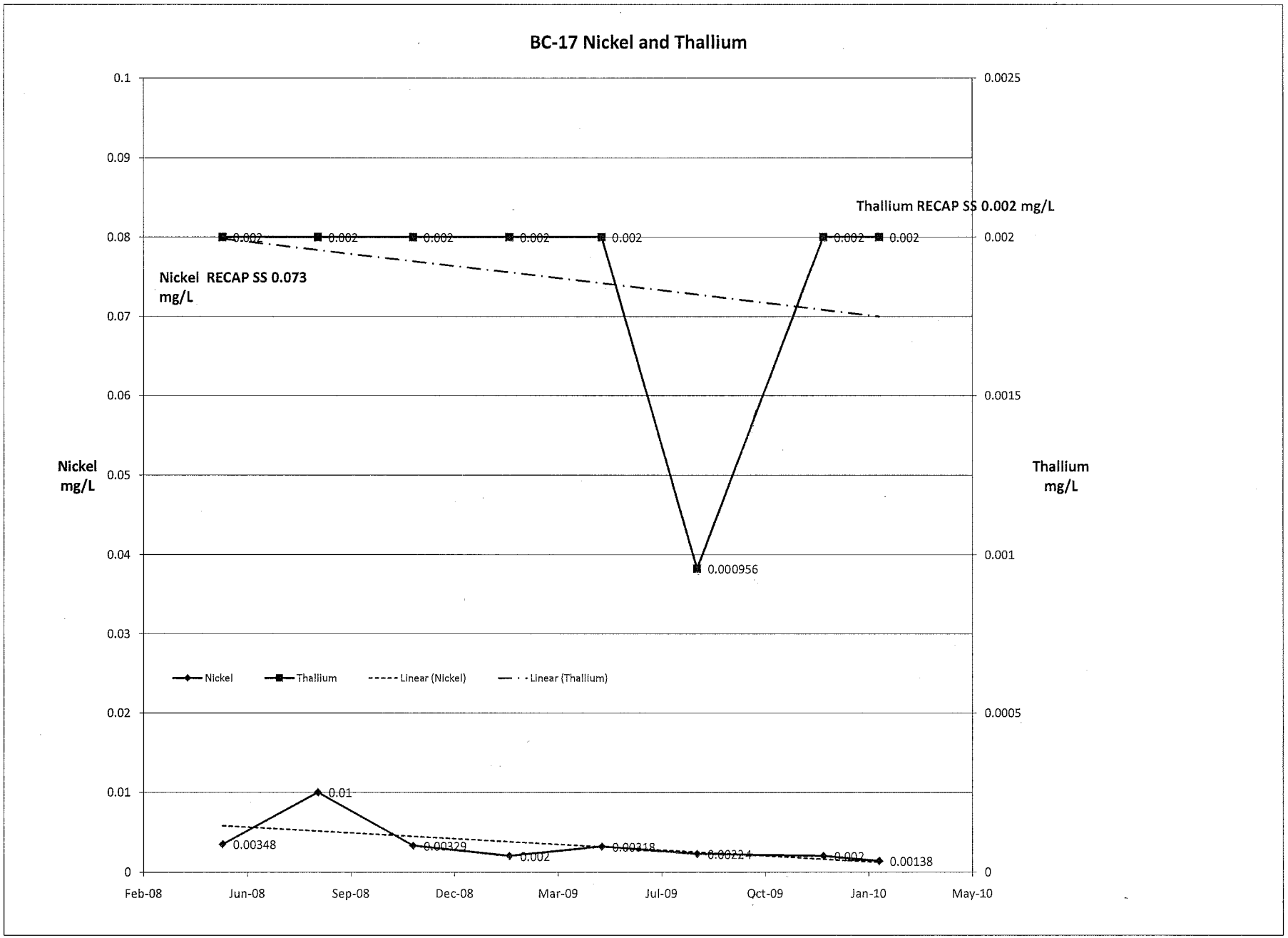

BC-07 pH and Lead
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
7.06
6.83
7.20
7.44
7.14
7.04
7.01
7.39
0.000407
0.00129
0.00147
0.001
0.002
0.00104
0.002
0.000163
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

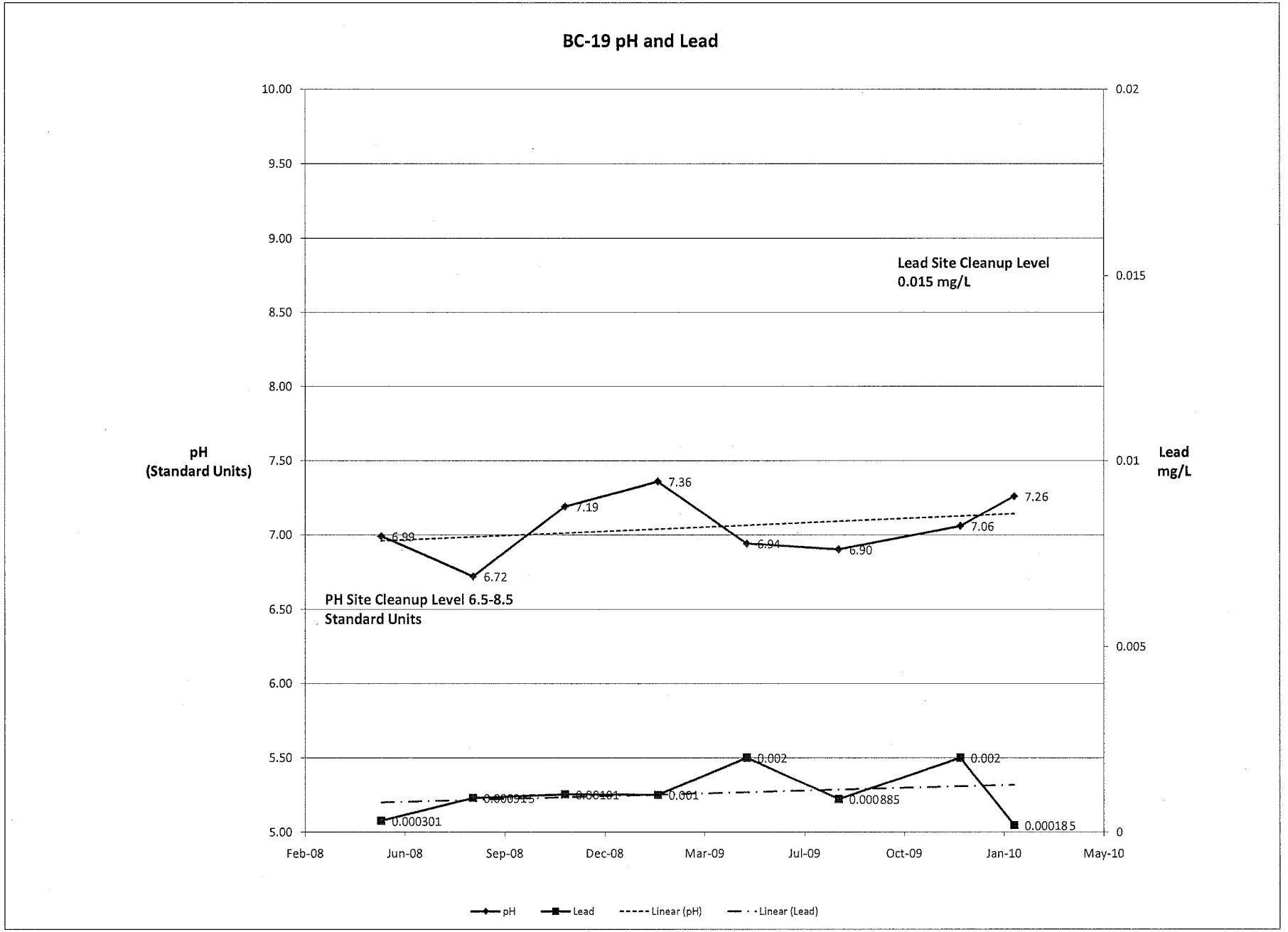

BC-07 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.01
0.004
0.00295
0.004
0.004
0.004
0.004
0.004
0.115
0.0967
0.0504
0.031
0.0852
0.0798
0.0451
0.0129
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

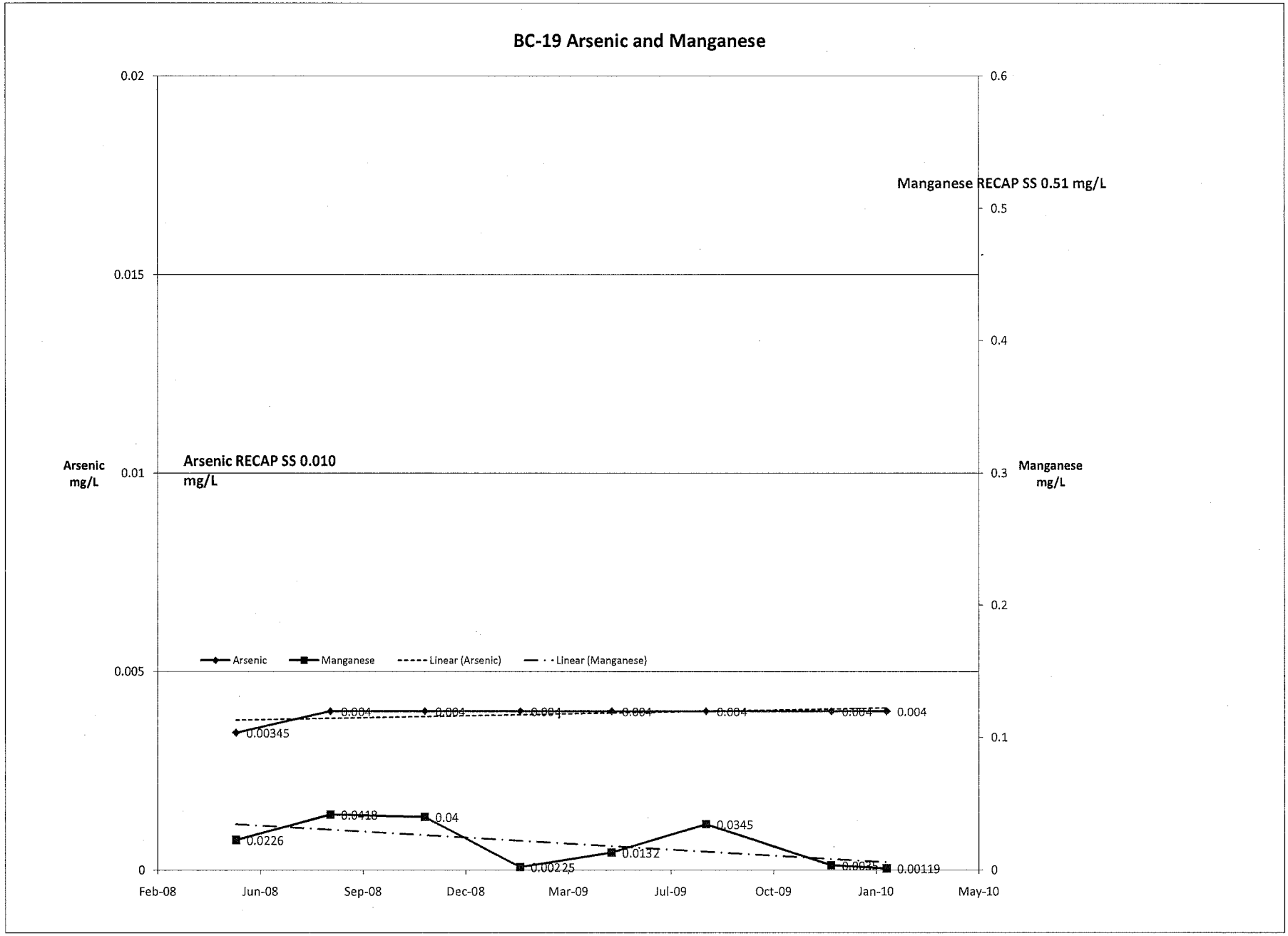

BC-07 Nickel and Thallium
Nickel RECAP SS 0.073 mg/L
Thallium RECAP SS 0.002 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.002
0.002
0.00179
0.002
0.002
0.00127
0.002
0.00022
0.00309
0.002
0.00329
0.00125
0.00212
0.00179
0.0013
0.000783
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)

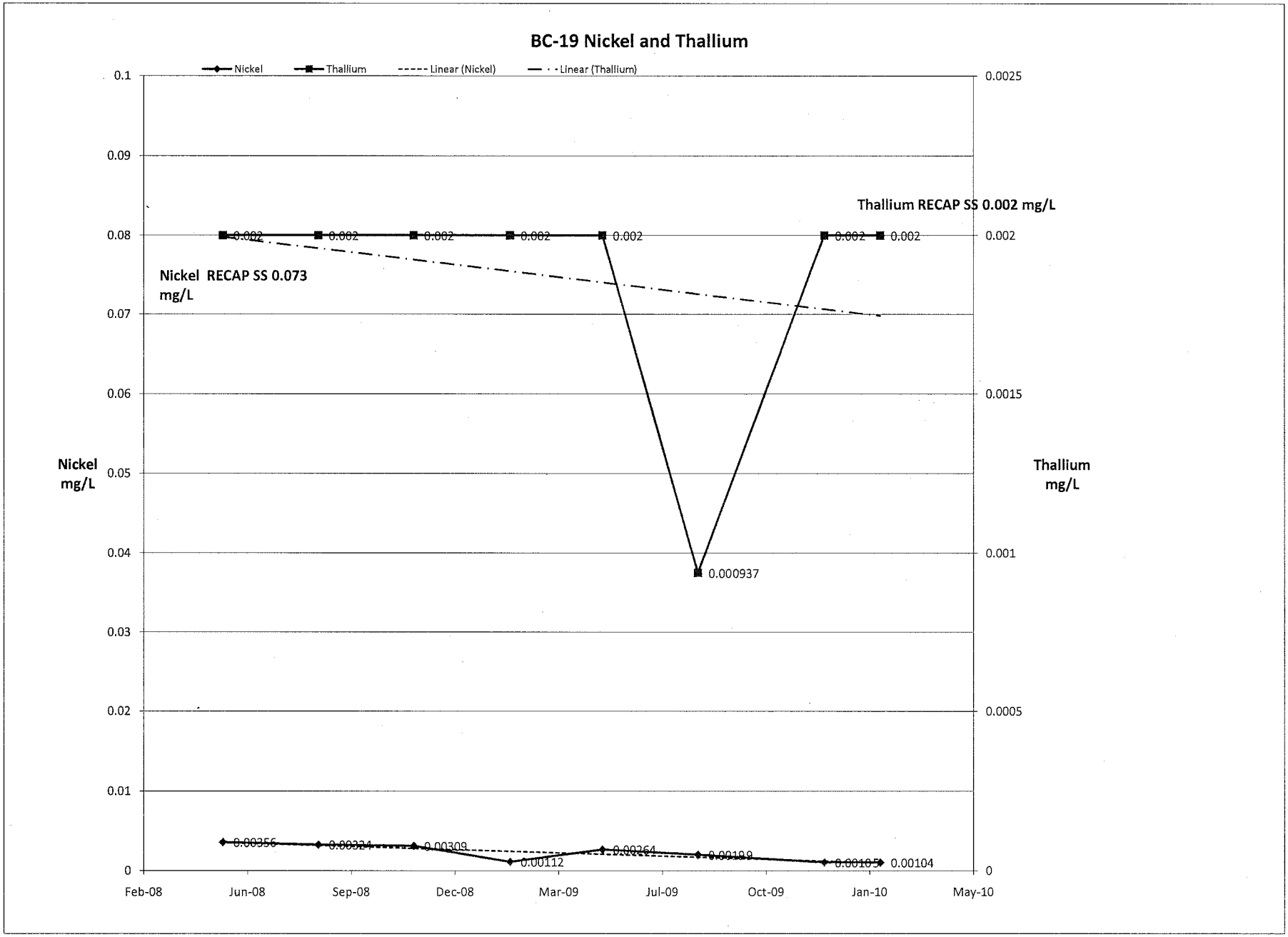

BC-17 pH and Lead
pH
(Standard Units)
Lead
mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
Lead Site Cleanup Level 0.015 mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
6.81
7.01
6.95
6.97
6.68
7.11
7.06
0.0434
0.0767
0.0469
0.0168
0.0165
0.0296
pH
Lead
Linear (pH)
Linear (Lead)

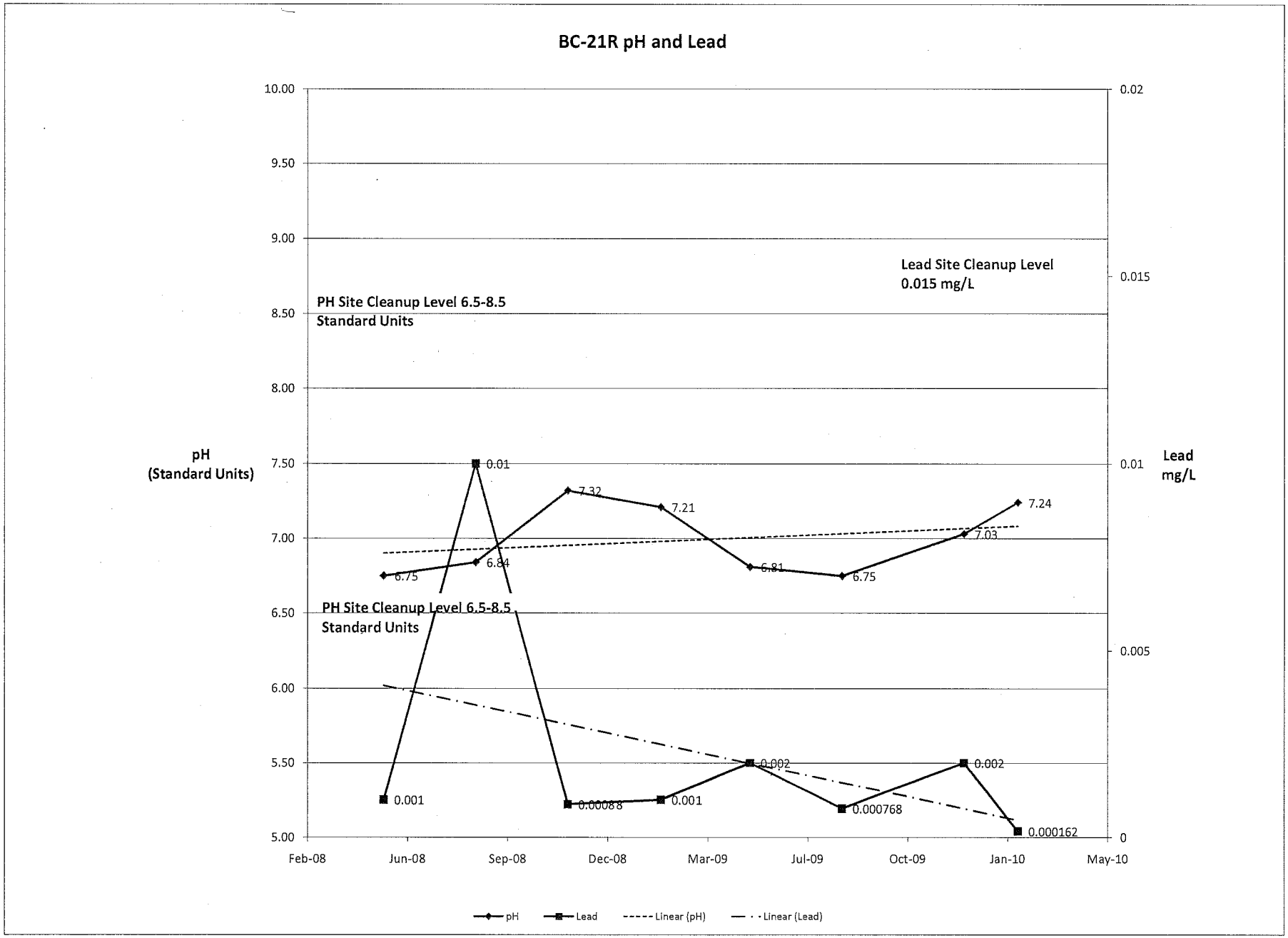

BC-17 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.31
0.28
0.227
0.00589
0.00341
0.02
0.298
0.354
0.004
0.00282
0.0790
0.0709
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

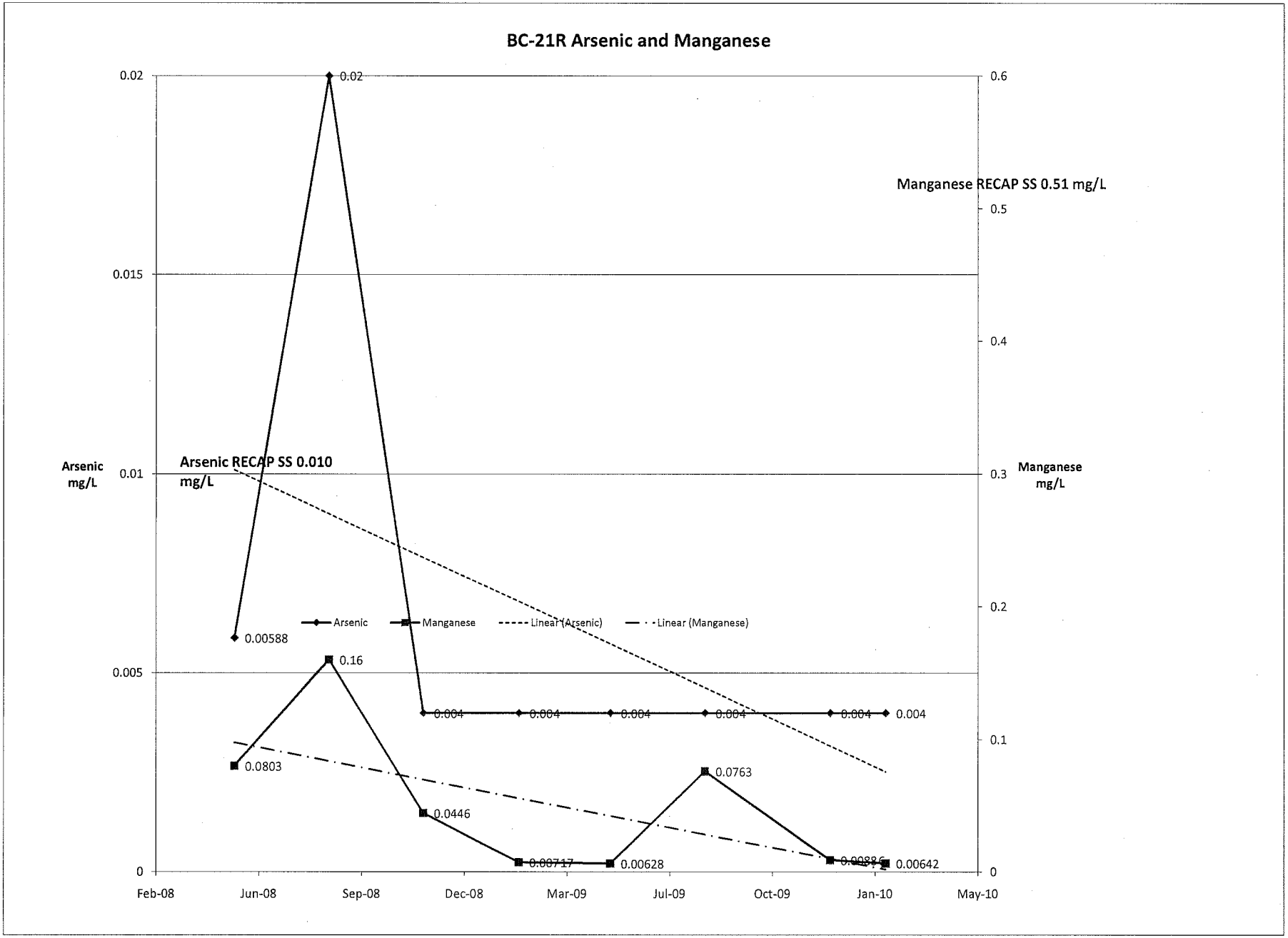

BC-17 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000956
0.01
0.00348
0.00329
0.002
0.00318
0.00224
0.002
0.00138
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

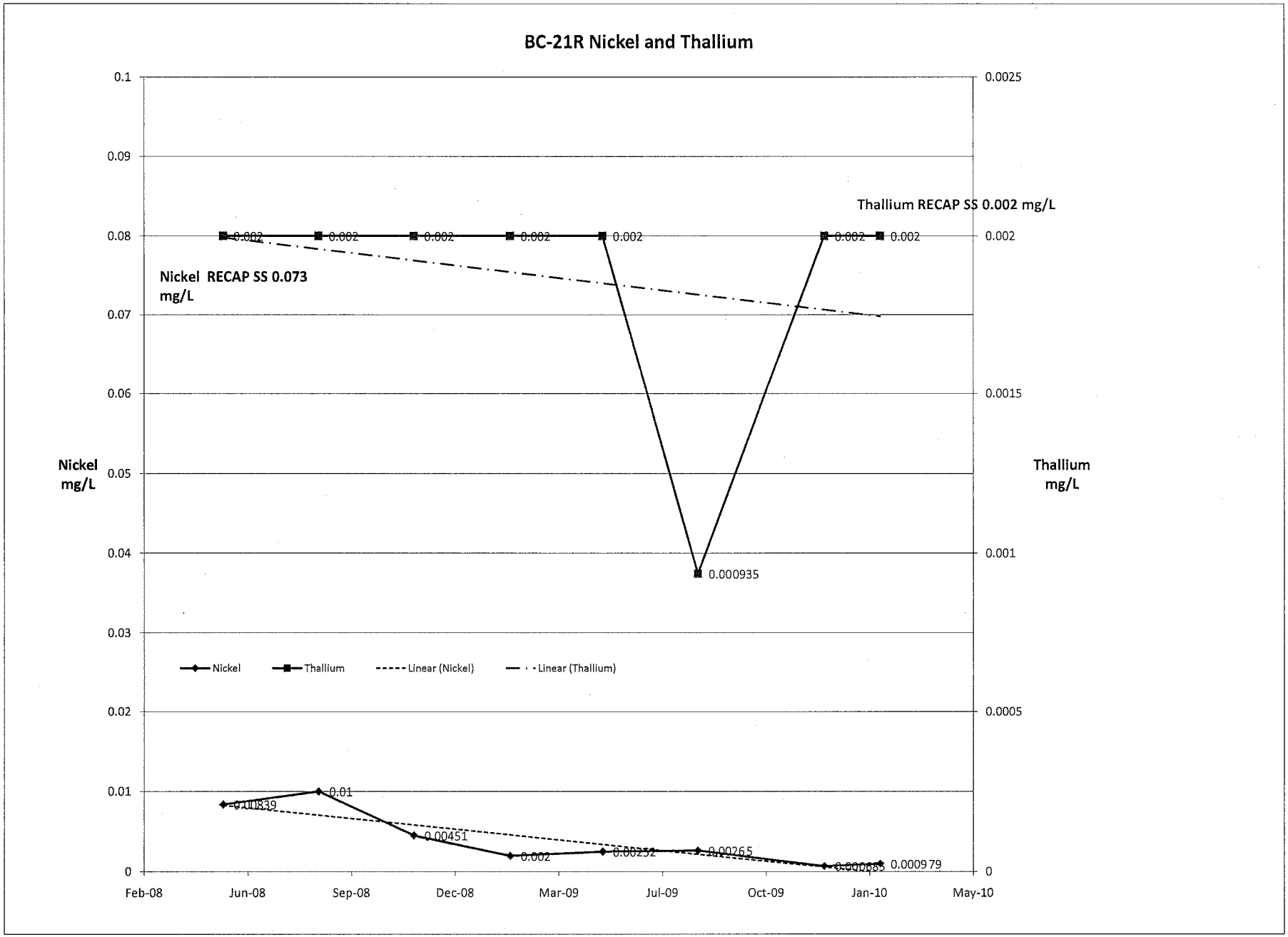

BC-19 pH and Lead
pH (Standard Units)
Lead mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
6.99
6.72
7.19
7.36
6.94
6.90
7.06
7.26
0.000301
0.000915
0.00101
0.001
0.002
0.000885
0.002
0.0001 85
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

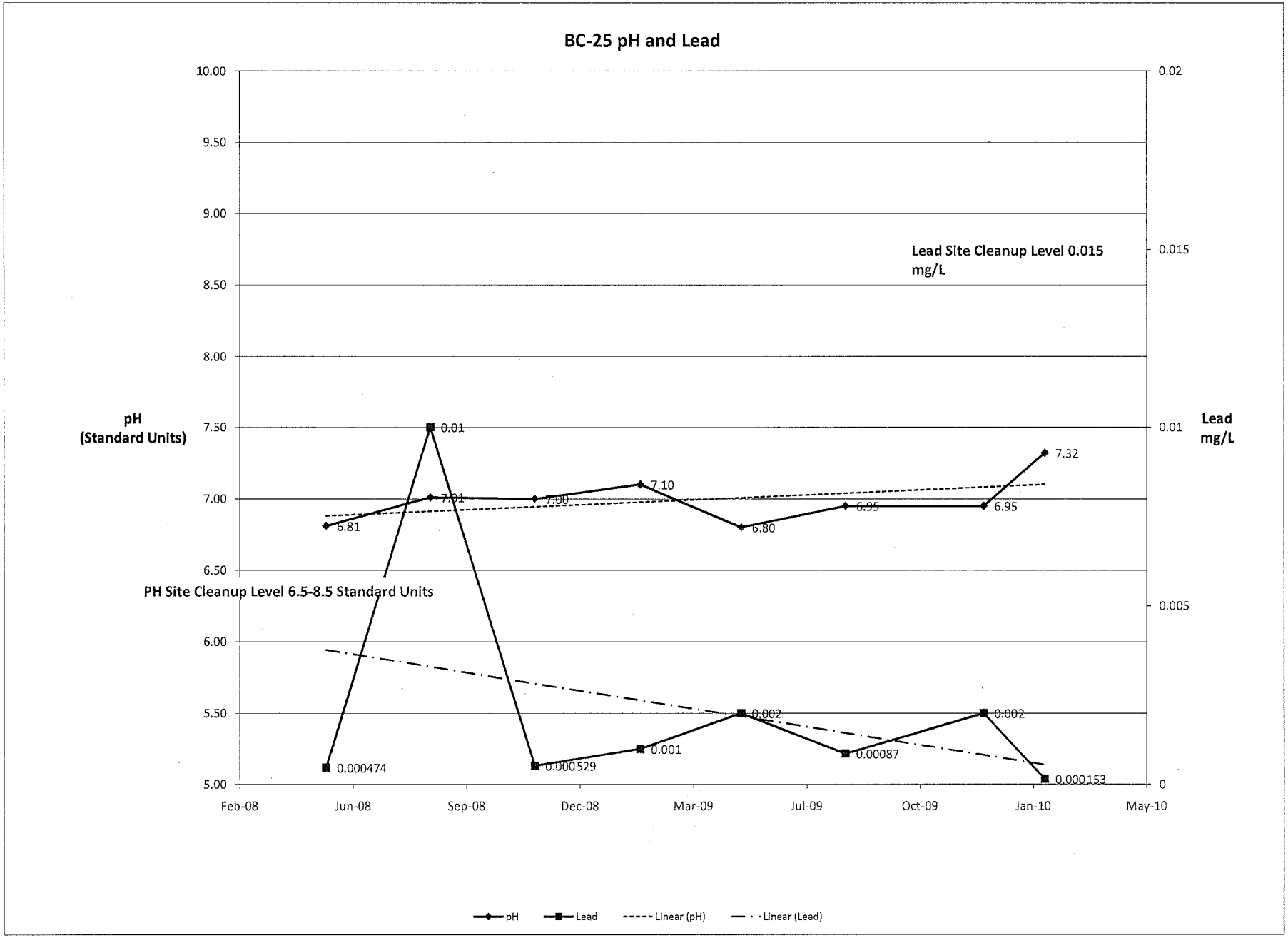

BC-19 Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.00345
0.004
0.004
0.004
0.004
0.004
0.004
0.004
0.0226
0.0418
0.04
0.002225
0.0132
0.0345
0.0025
0.00119
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

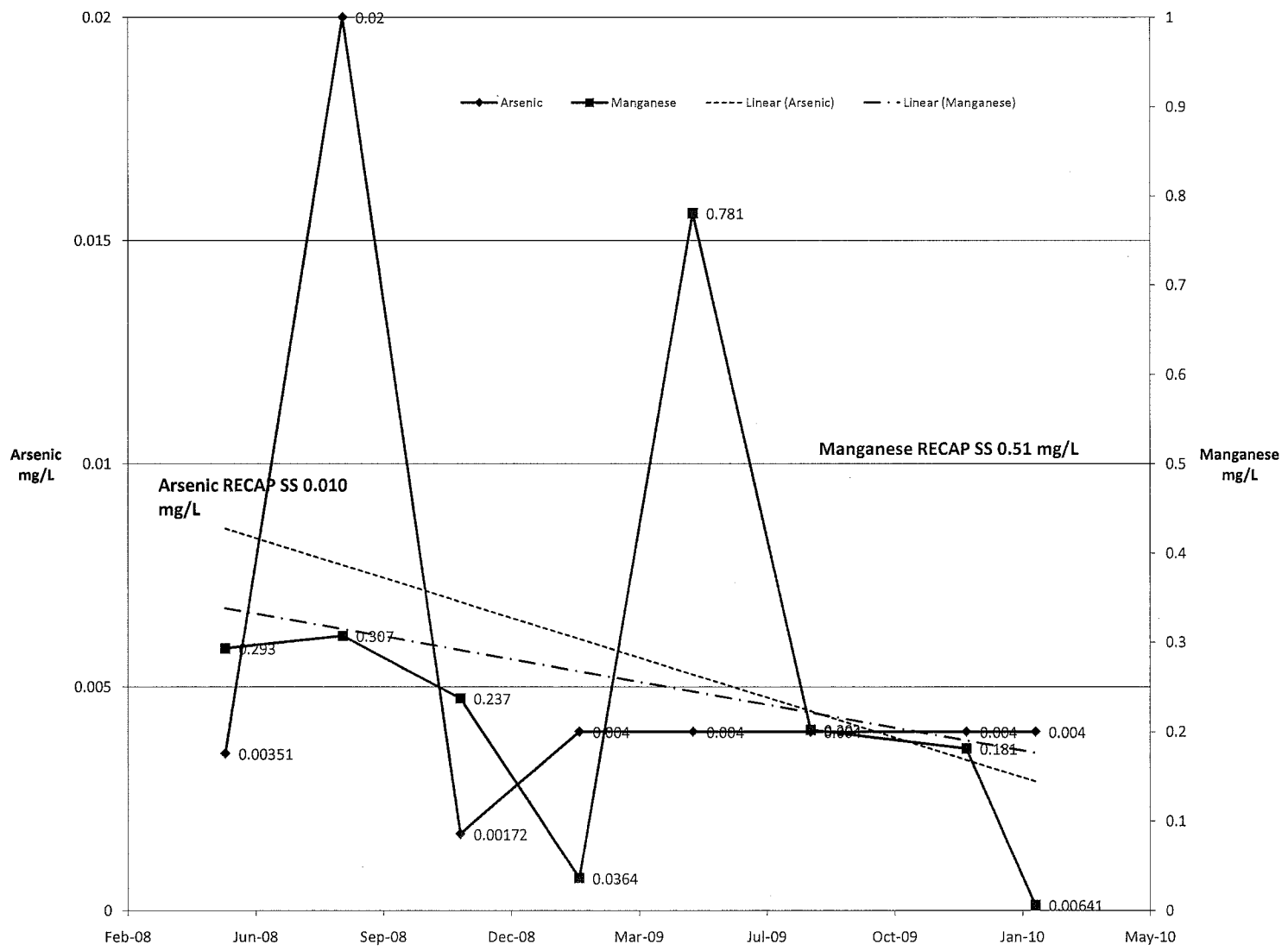

BC-19 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000937
0.00356
0.00324
0.00309
0.00112
0.00264
0.00189
0.00105
0.00104
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

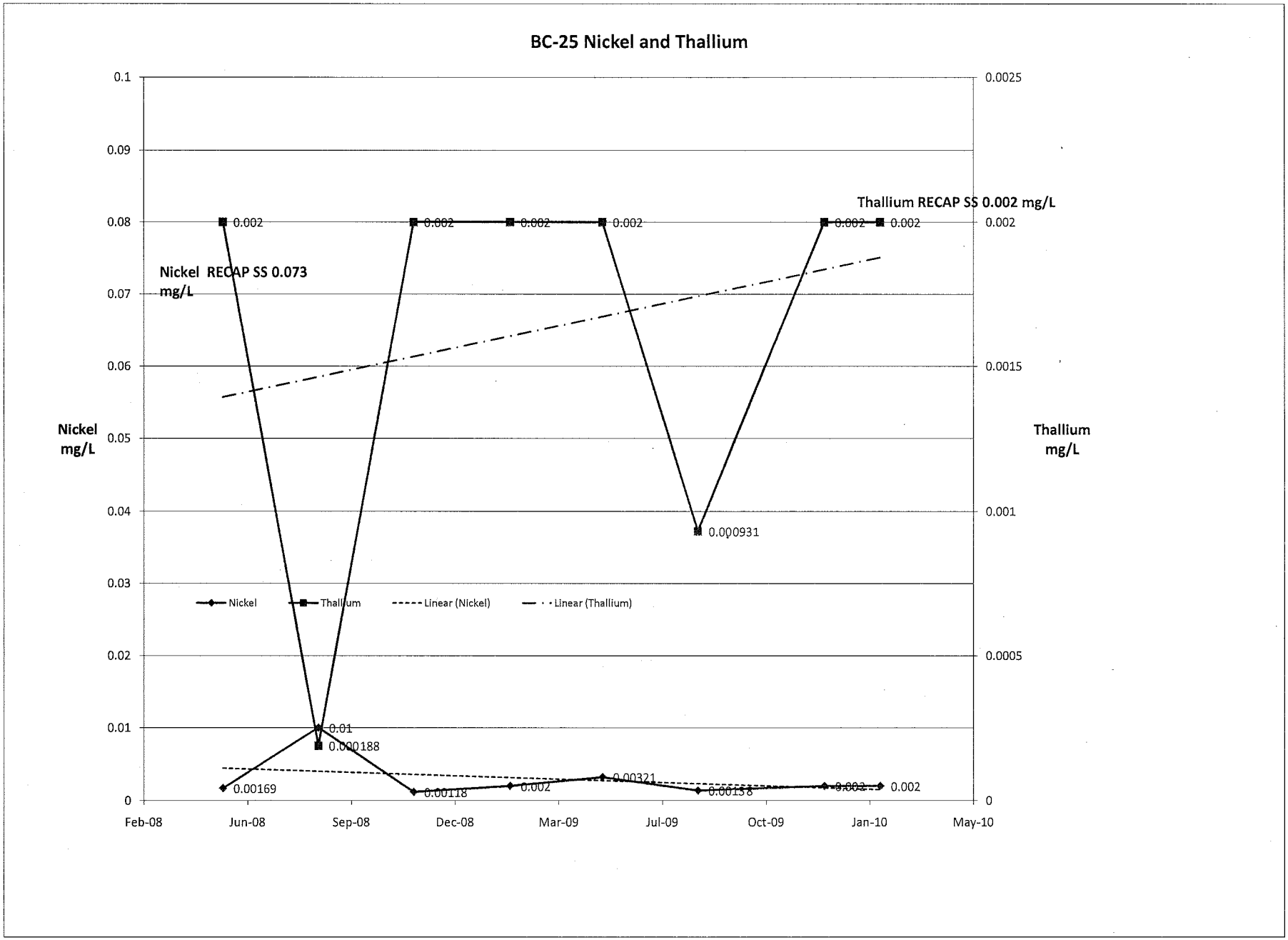

BC-21R pH and Lead
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level
0.015 mg/L
PH Site Cleanup Level 6.5-8.5
Standard Units
PH Site Cleanup Level 6.5-8.5
Standard Units
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
6.75
6.84
7.32
7.21
6.81
6.75
7.03
7.24
0.001
0.01
0.00088
0.001
0.002
0.000768
0.002
0.000162
pH
Lead
Linear (pH)
Linear (Lead)


BC-21R Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.00588
0.16
0.004
0.0803
0.0446
0.00717
0.00628
0.0763
0.00642
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

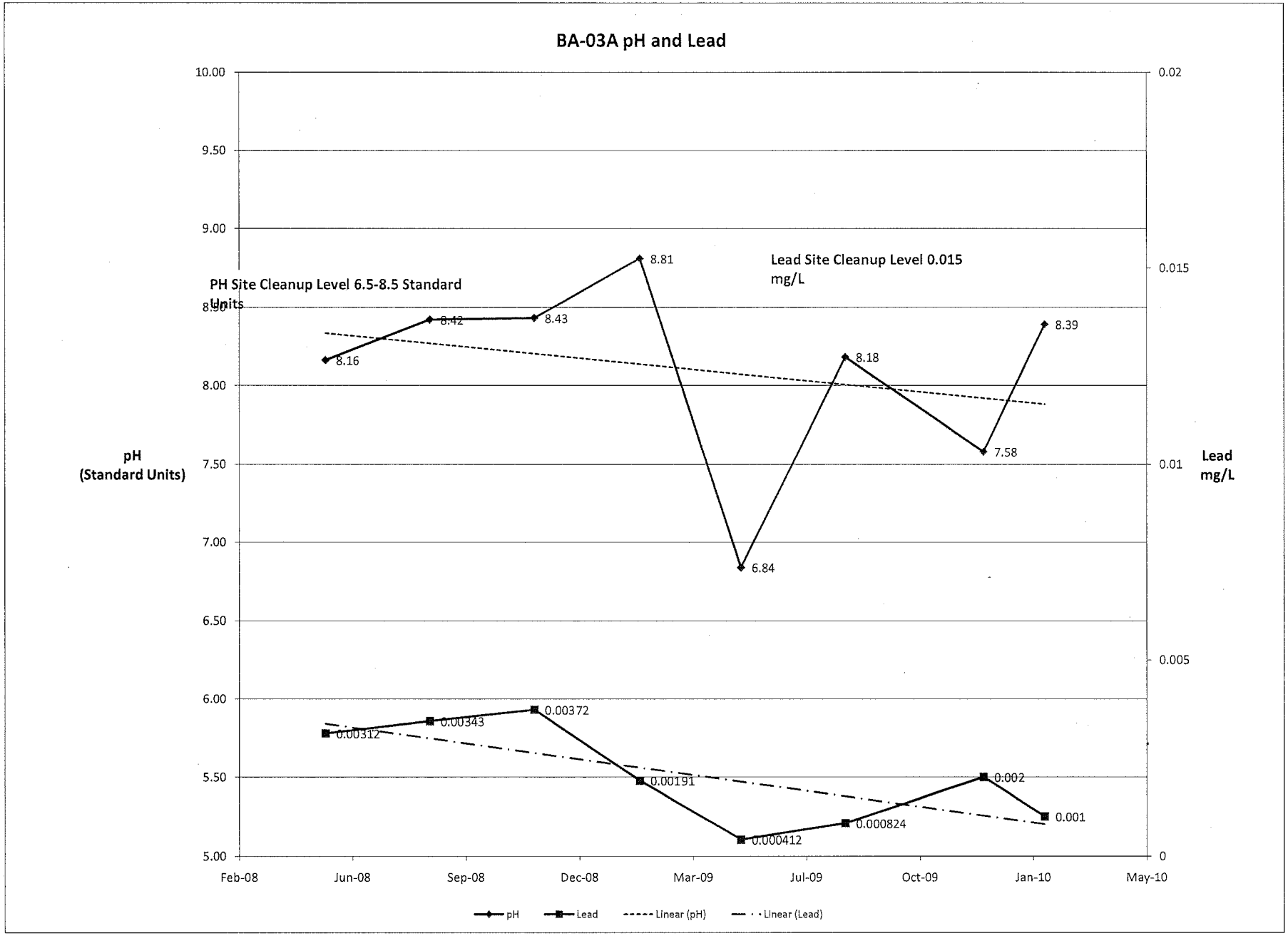

BC-21R Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.000935
0.00839
0.01
0.00451
0.002
0.00252
0.00265
0.000685
0.000979
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

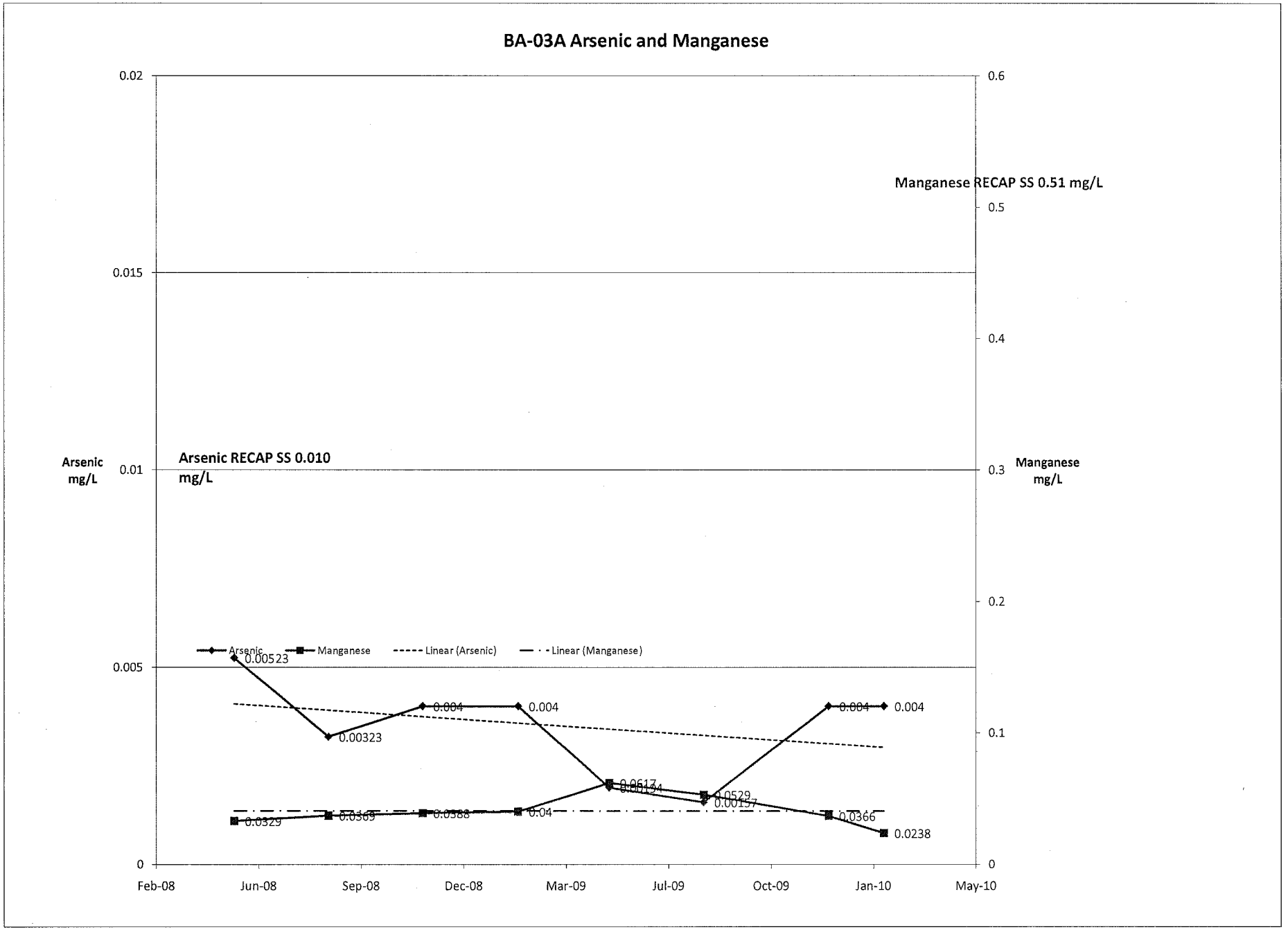

BC-25 pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
6.81
7.01
7.00
7.10
6.80
6.95
6.95
7.32
0.000474
0.01
0.000529
0.001
0.002
0.00087
0.002
0.000153
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

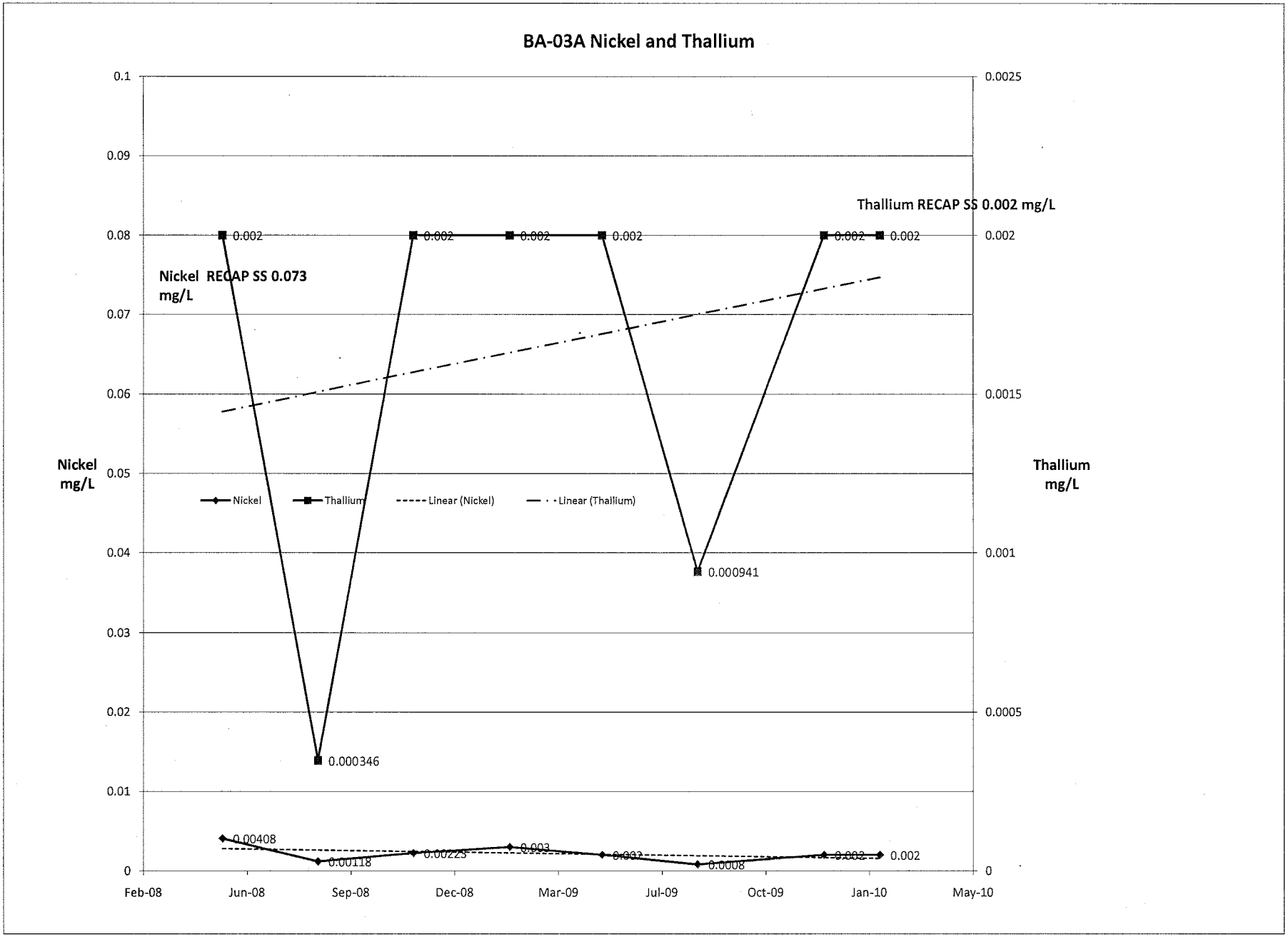

BC-25 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.02
0.781
0.293
0.307
0.237
0.00351
0.00172
0.0364
0.00641
0.004
0.181

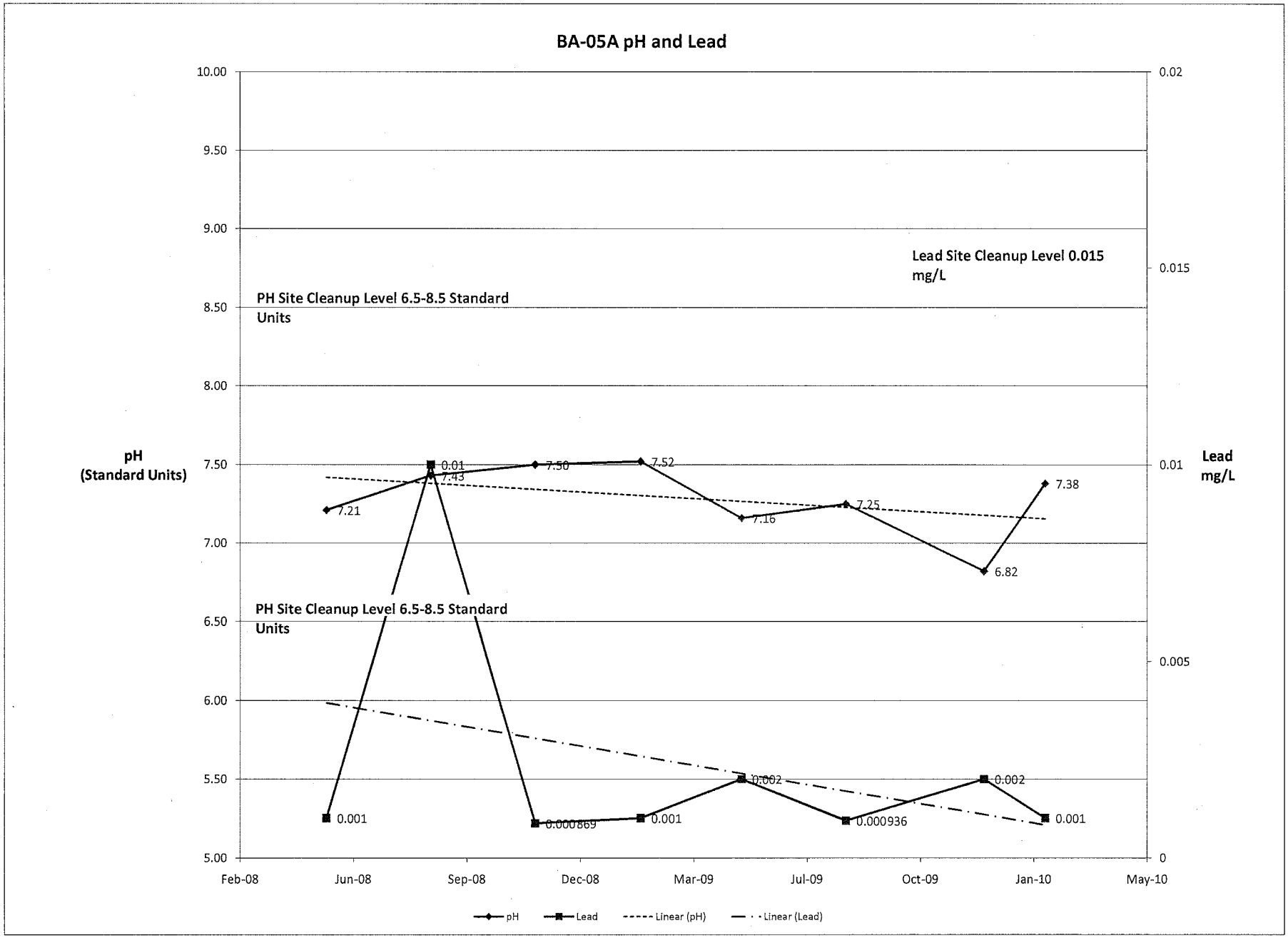

BC-25 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.002
0.01
0.000188
0.00169
0.00118
0.00321
0.00138
0.000931
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)

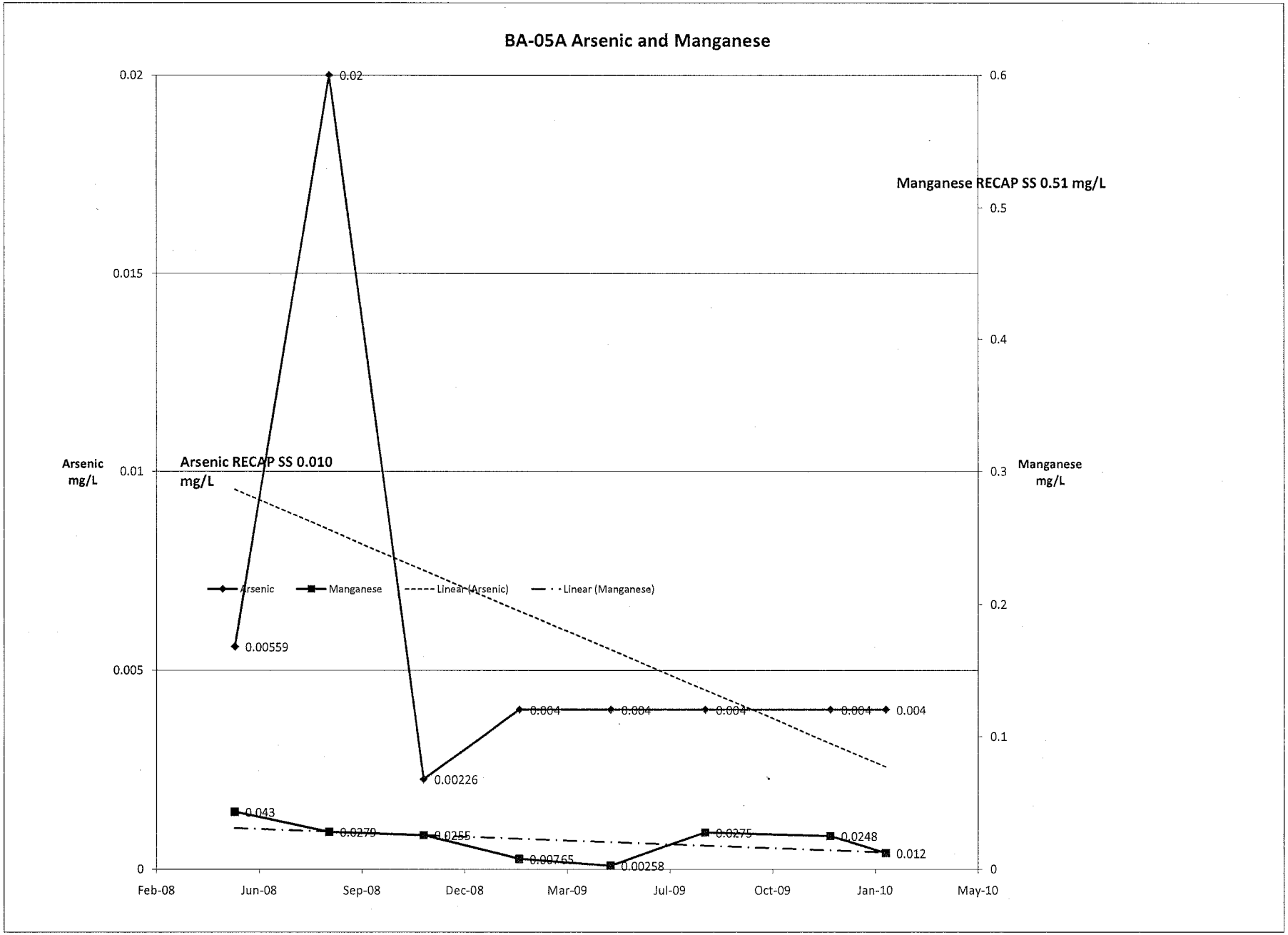
THIRD WATER BEARING ZONE

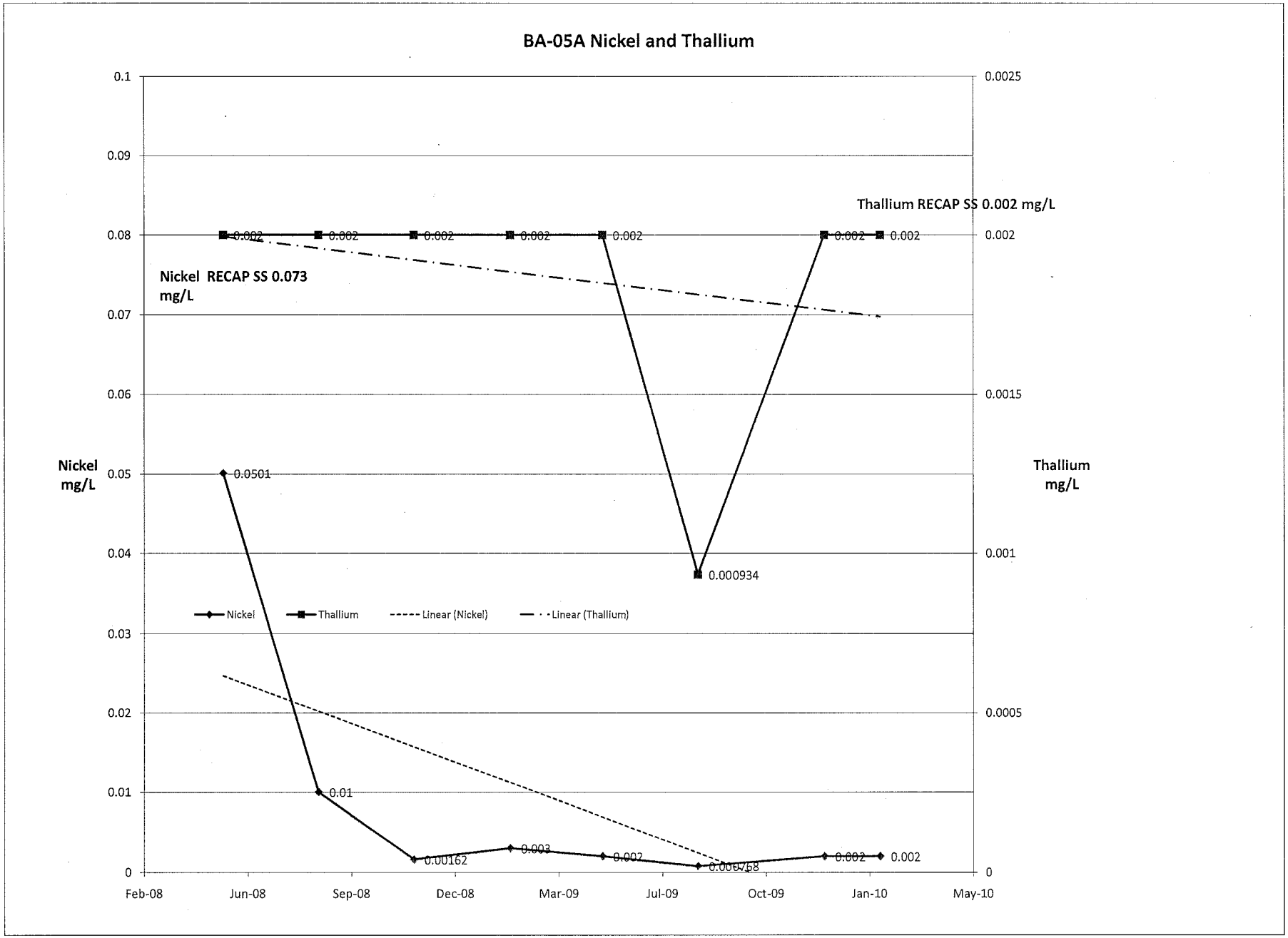

BA-03A pH and Lead
PH Site Cleanup Level 6.5-8.5 Standard Units
Lead Site Cleanup Level 0.015 mg/L
pH (Standard Units)
Lead mg/L
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
8.16
8.42
8.43
8.81
6.84
8.18
7.58
8.39
0.00312
0.00343
0.00372
0.00191
0.000412
0.000824
0.002
0.001
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

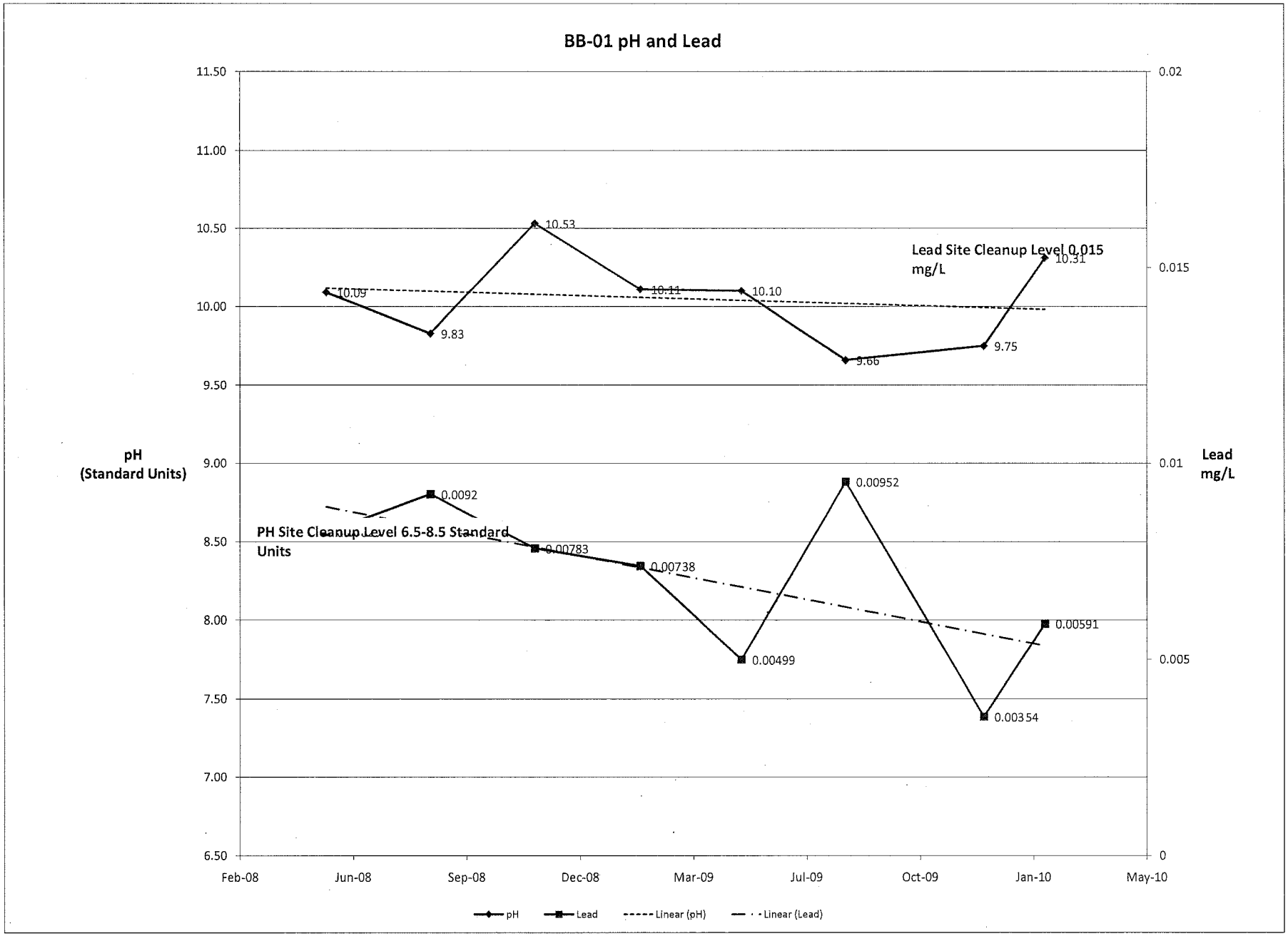

BA-03A Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
0.00523
0.00323
0.004
0.004
0.004
0.004
0.0529
0.00157
0.0329
0.0369
0.0388
0.04
0.0366
0.0238

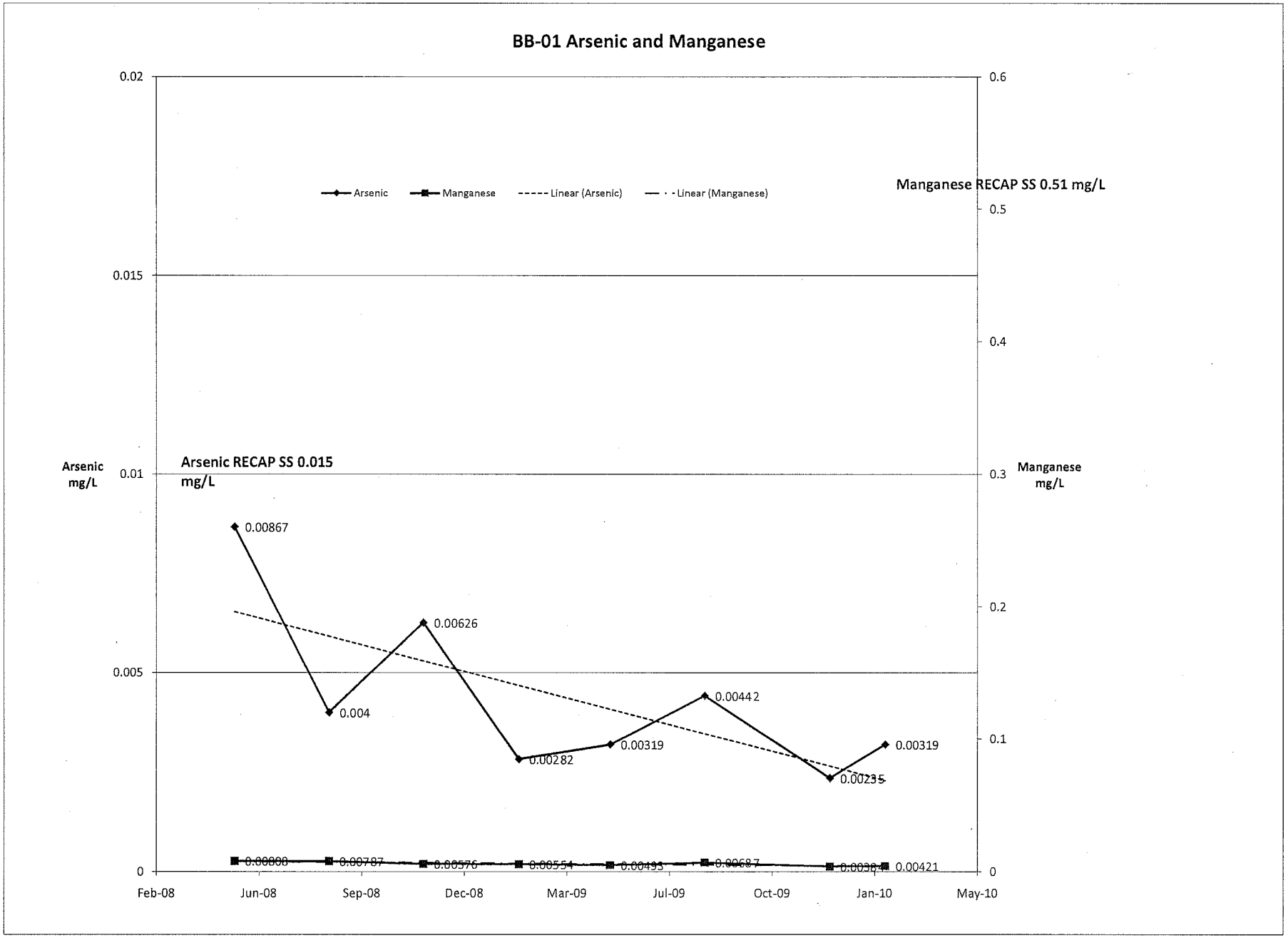

BA-03A Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000346
0.000941
0.00408
0.00118
0.0008
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

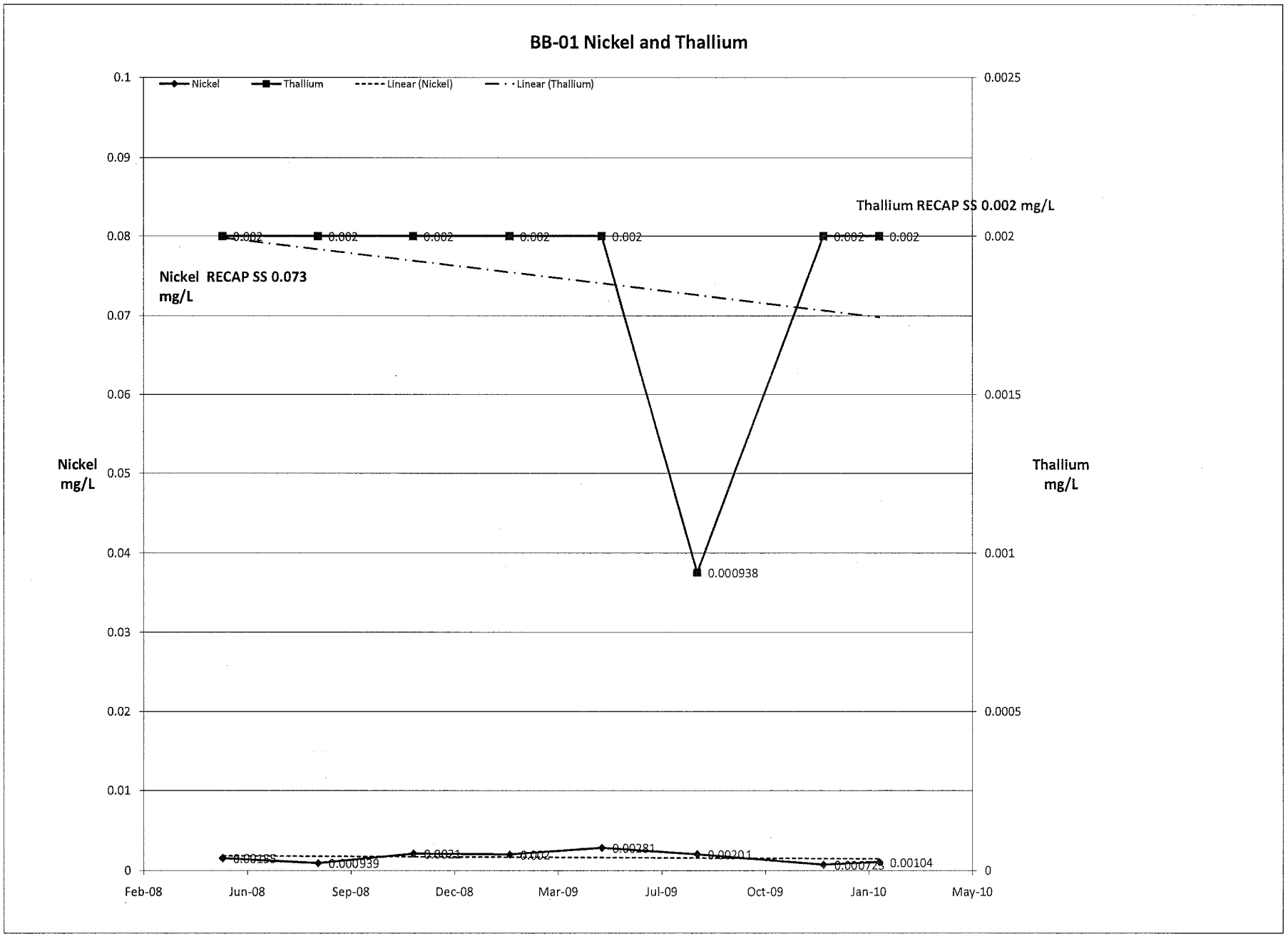

BA-05A pH and Lead
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level 0.015
mg/L
PH Site Cleanup Level 6.5-8.5 Standard
Units
PH Site Cleanup Level 6.5-8.5 Standard
Units
7.21
7.43
7.50
7.52
7.16
7.25
6.82
7.38
0.001
0.01
0.000869
0.001
0.002
0.000936
0.002
0.001
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

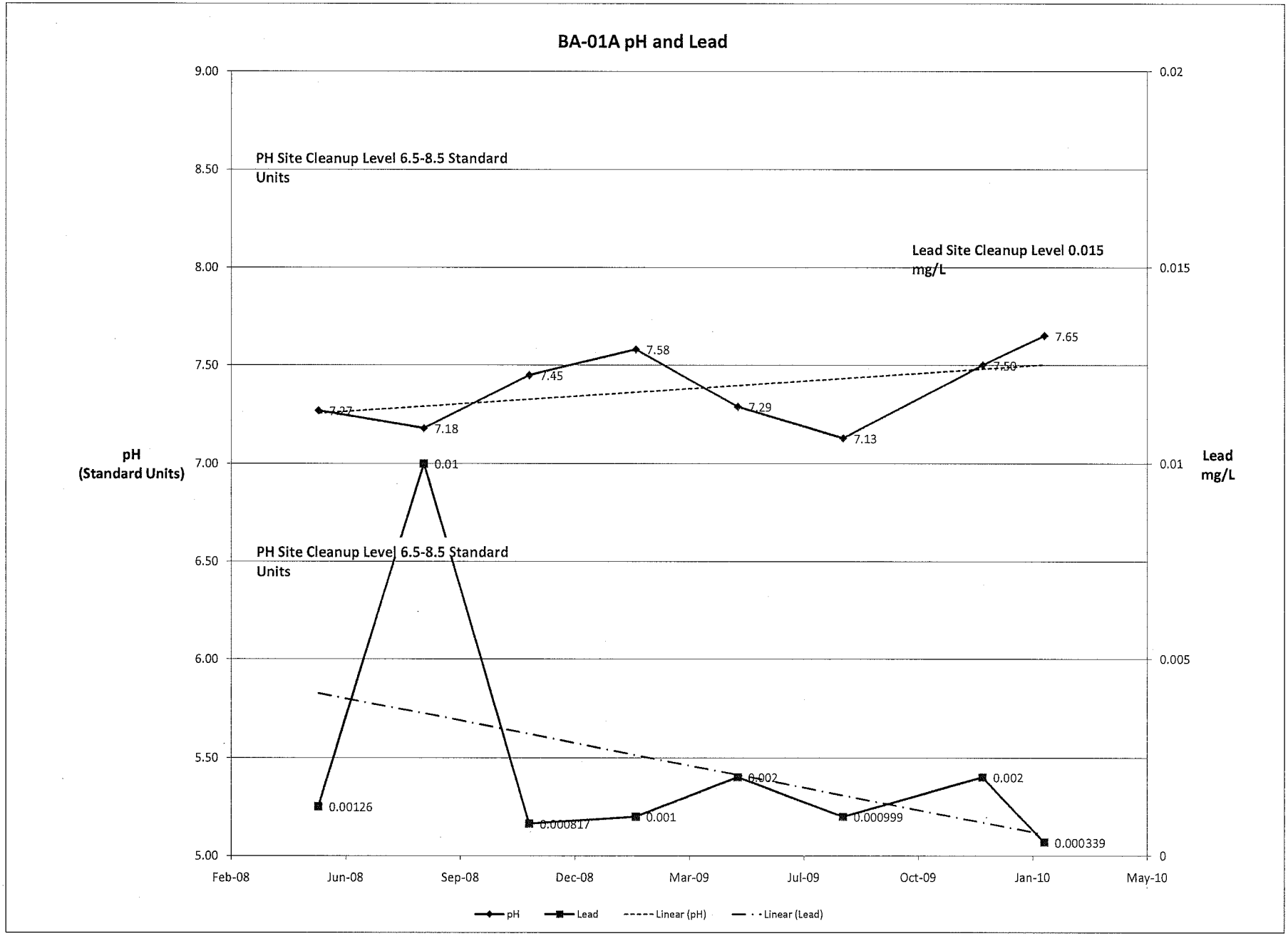

BA-05A Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.02
0.00559
0.00226
0.004
0.004
0.004
0.004
0.004
0.043
0.0279
0.0255
0.00765
0.00258
0.0275
0.0248
0.012
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

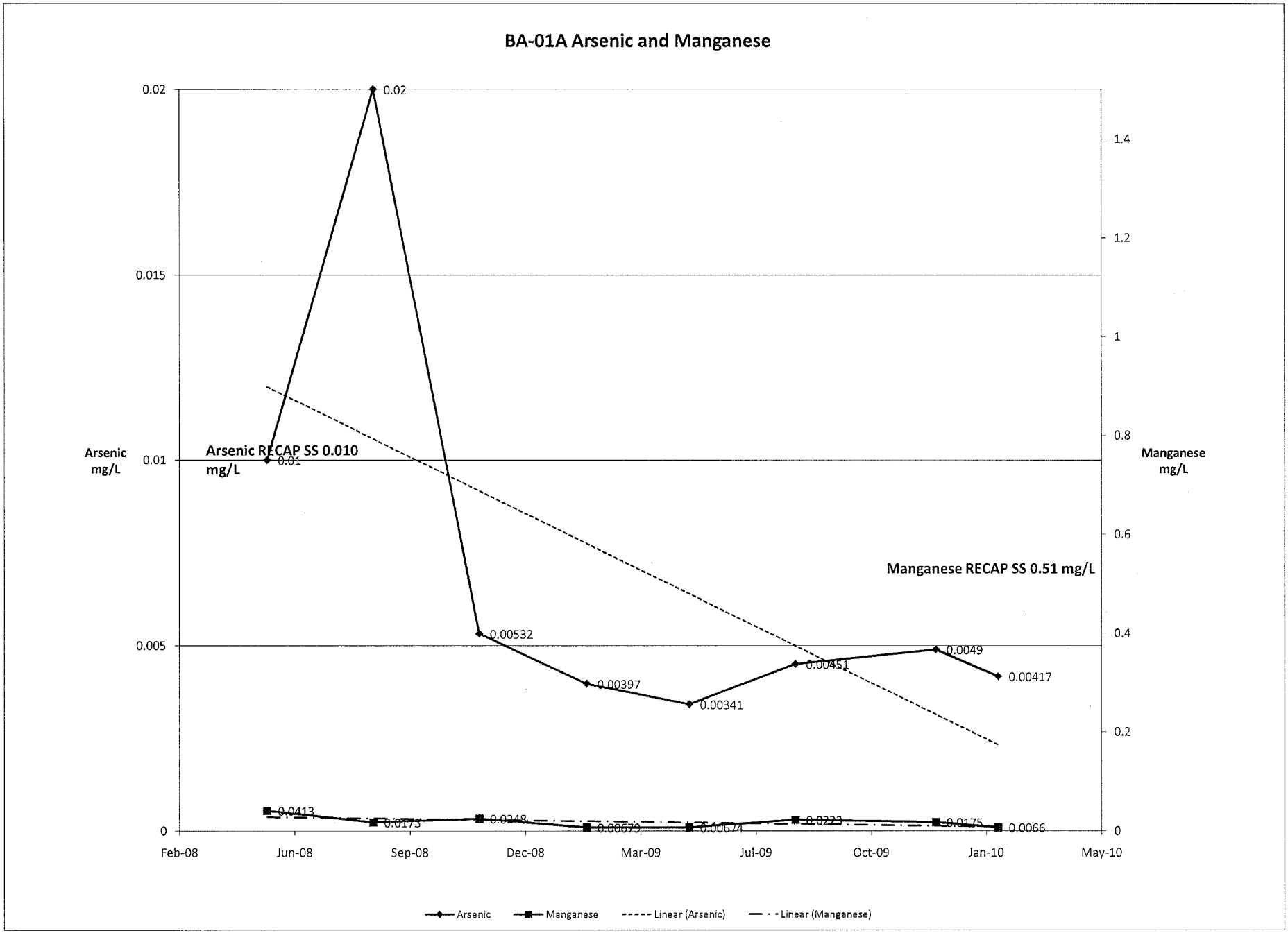

BA-05A Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.0501
0.01
0.00162
0.003
0.002
0.000758
0.000934
0.002
0.002
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

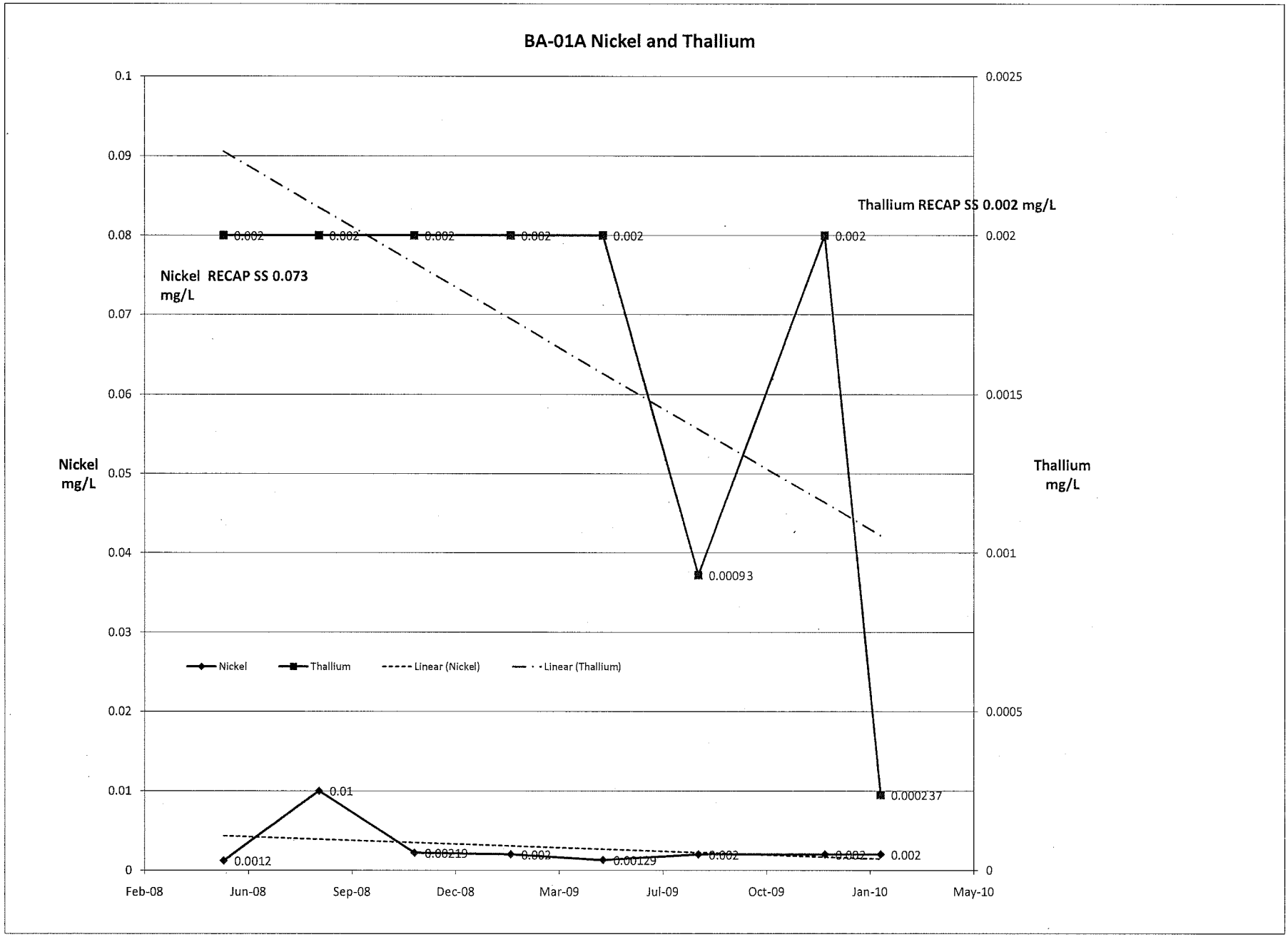

BB-01 pH and Lead
pH (Standard Units)
Lead mg/L
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
10.09
9.83
10.53
10.11
10.10
9.66
9.75
10.31
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
0.0092
0.00783
0.00738
0.00499
0.00952
0.00354
0.00591
pH
Lead
Linear (pH)
Linear (Lead)


BB-01 Arsenic and Manganese
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.015 mg/L
Arsenic mg/L
Manganese mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.00867
0.004
0.00626
0.00282
0.00319
0.00442
0.00235
0.00319
0.00421
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

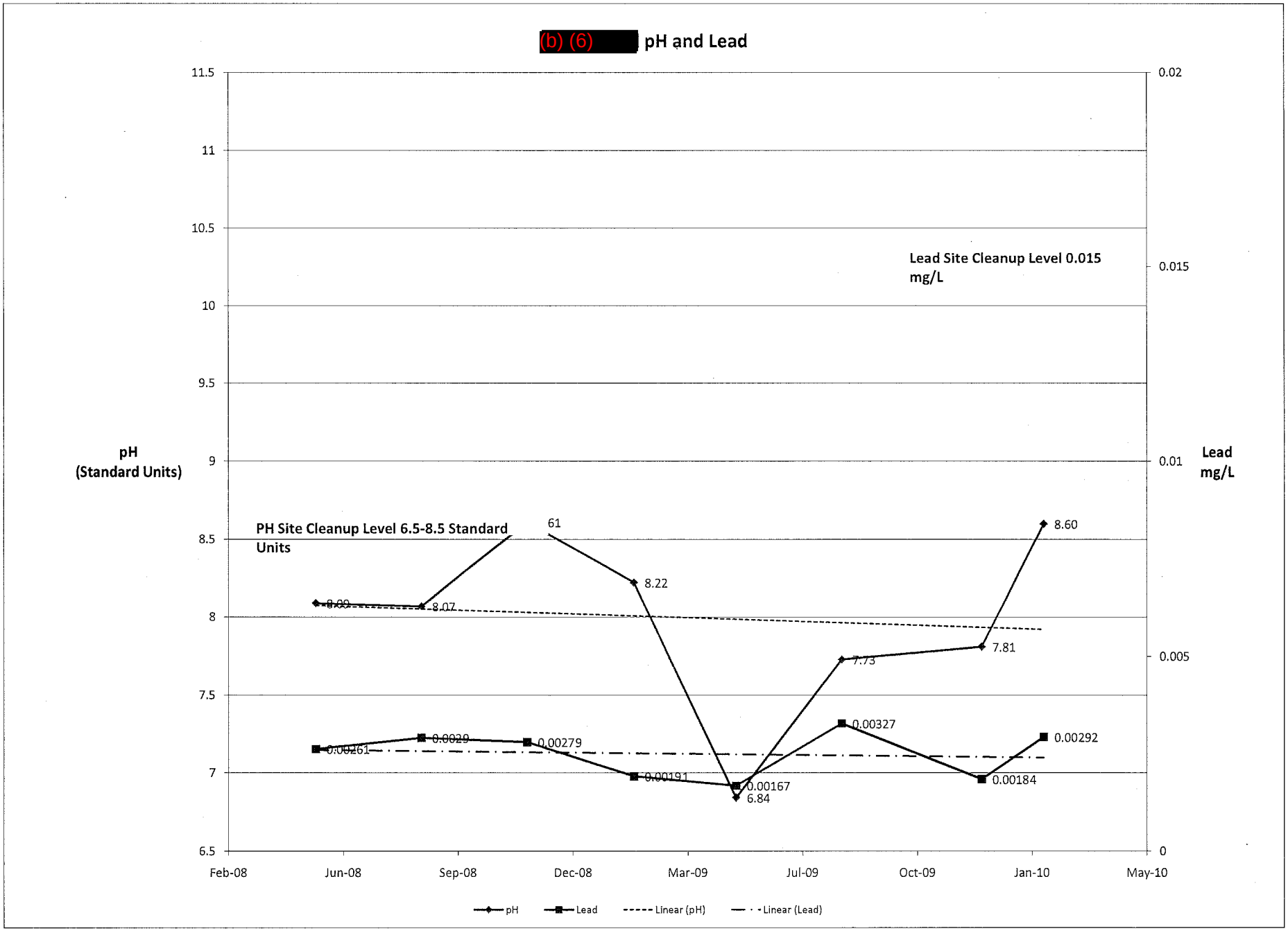

BB-01 Nickel and Thallium
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000938
0.00281
0.00201
0.00104
0.000939
0.000725
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

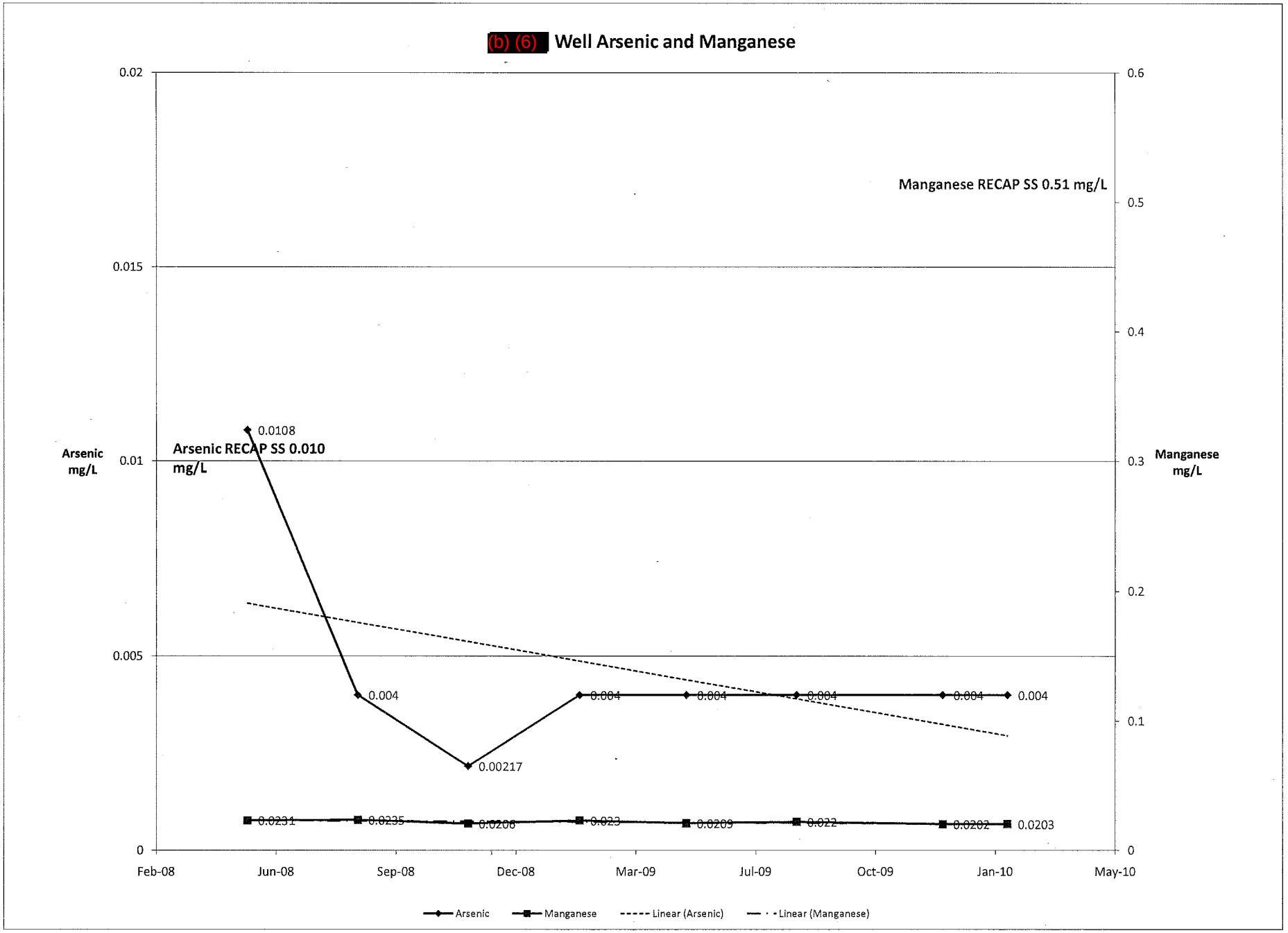

BA-01A pH and Lead
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
0.02
0.015
0.01
0.005
0
pH (Standard Units)
Lead mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
7.27
7.18
7.45
7.58
7.29
7.13
7.50
7.65
0.00126
0.01
0.000817
0.001
0.002
0.000999
0.002
0.000339
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

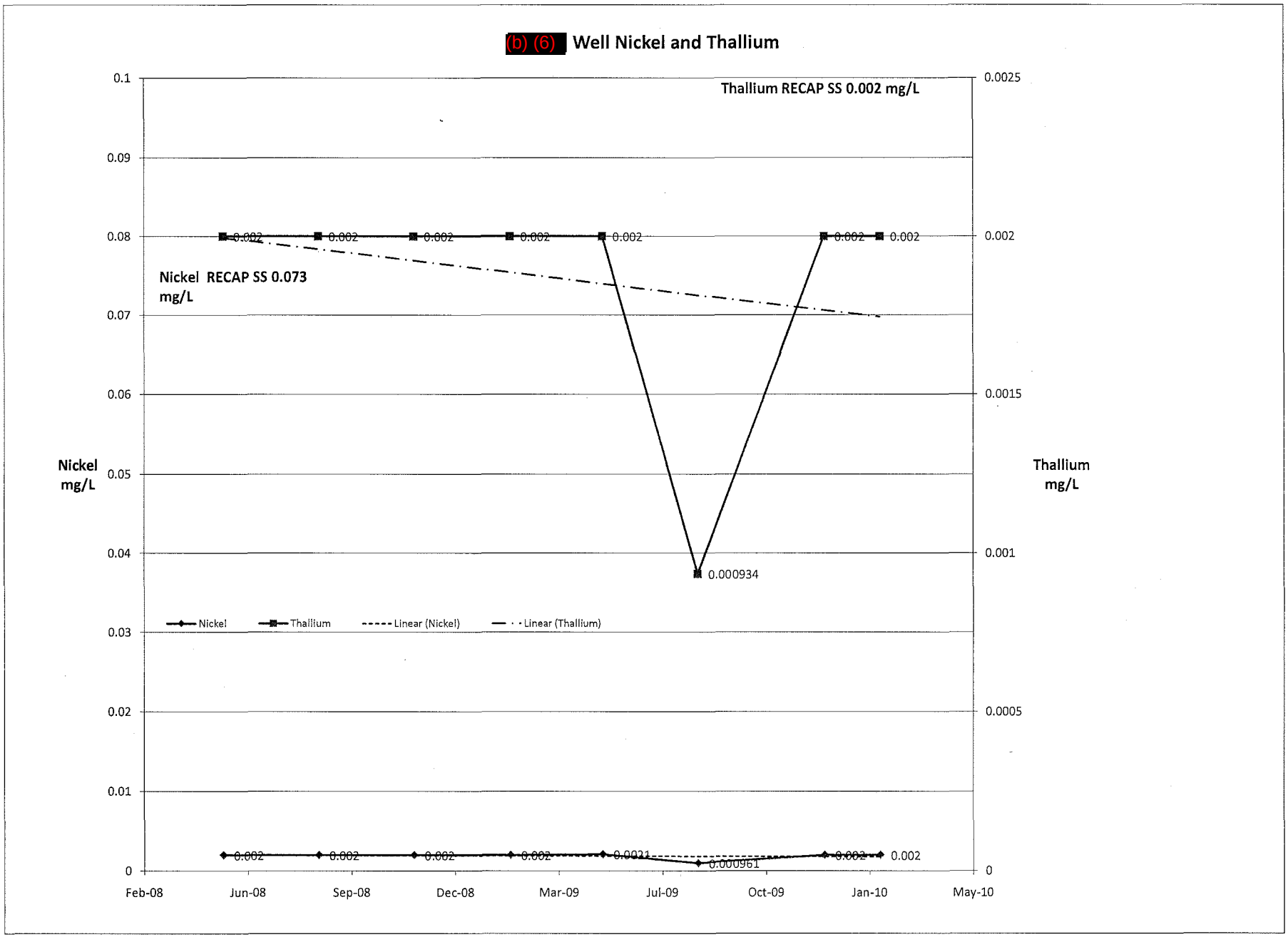

BA-01A Arsenic and Manganese
Arsenic mg/L
Manganese mg/L
Arsenic RECAP SS 0.010 mg/L
Manganese RECAP SS 0.51 mg/L
0.02
0.015
0.01
0.005
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.02
0.01
0.00532
0.00397
0.00341
0.00451
0.0049
0.00417
0.0413
0.0173
0.0248
0.00679
0.00674
0.0223
0.0175
0.0066
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

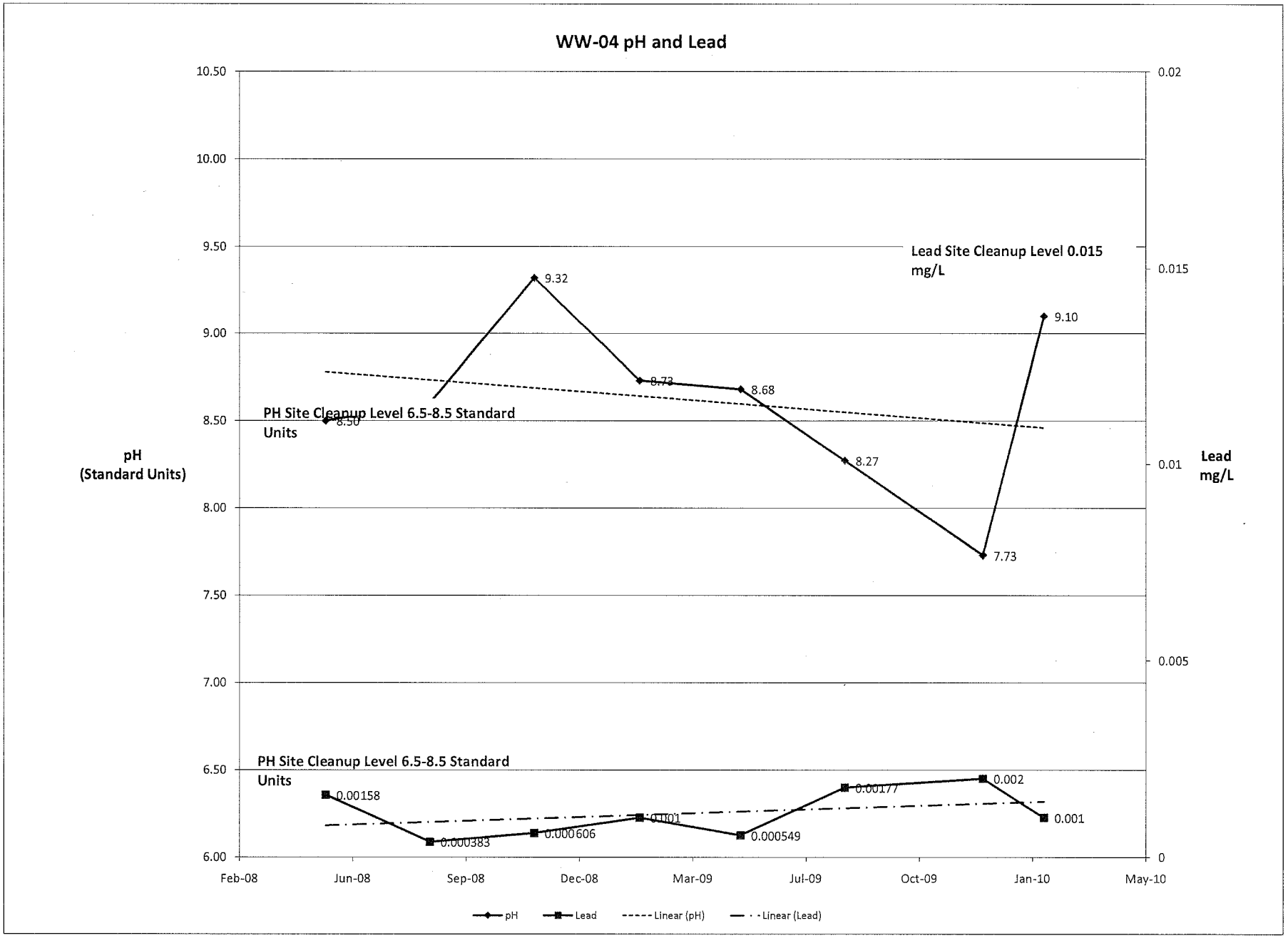

BA-01A Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
0.002
0.002
0.002
0.002
0.002
0.002
0.00093
0.000237
0.0012
0.01
0.00219
0.002
0.00129
0.002
0.002
0.002

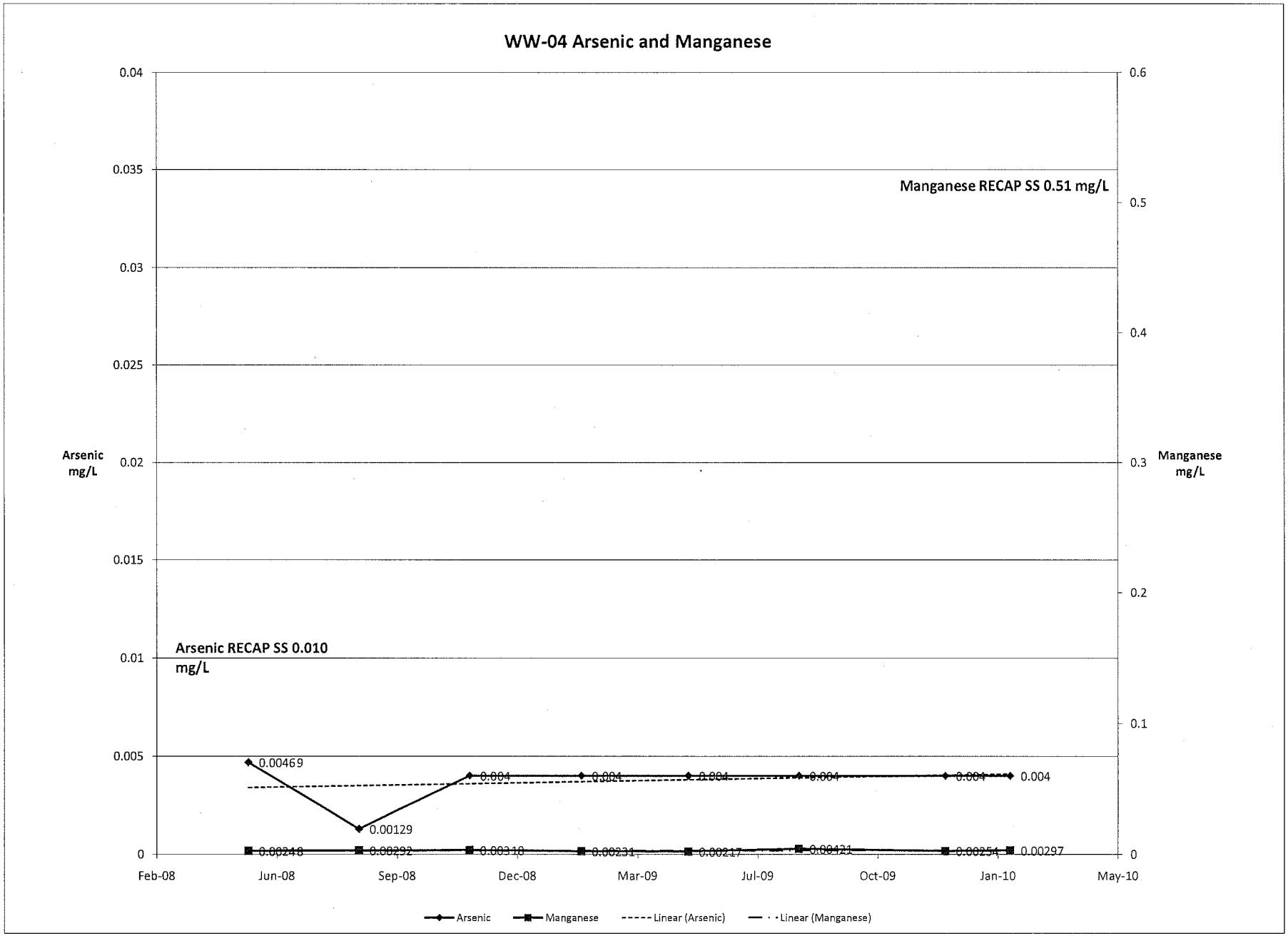
WATER WELLS

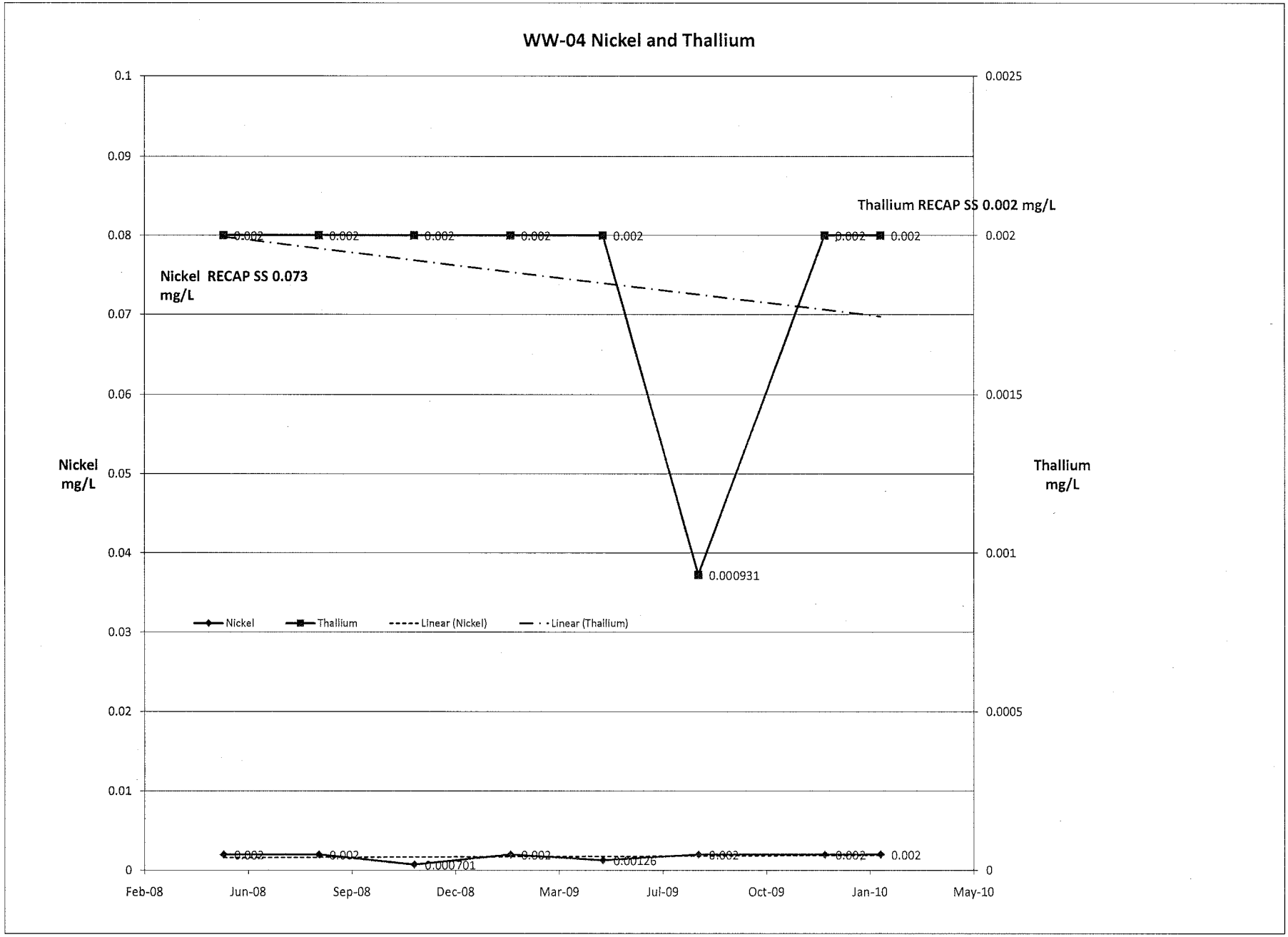

(b) (6) pH and Lead
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
11.5
11
10.5
10
9.5
9
8.5
8
7.5
7
6.5
0.02
0.015
0.01
0.005
0
8.09
8.07
61
8.22
6.84
7.73
7.81
8.60
0.00261
0.0029
0.00279
0.00191
0.00167
0.00327
0.00184
0.00292
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)

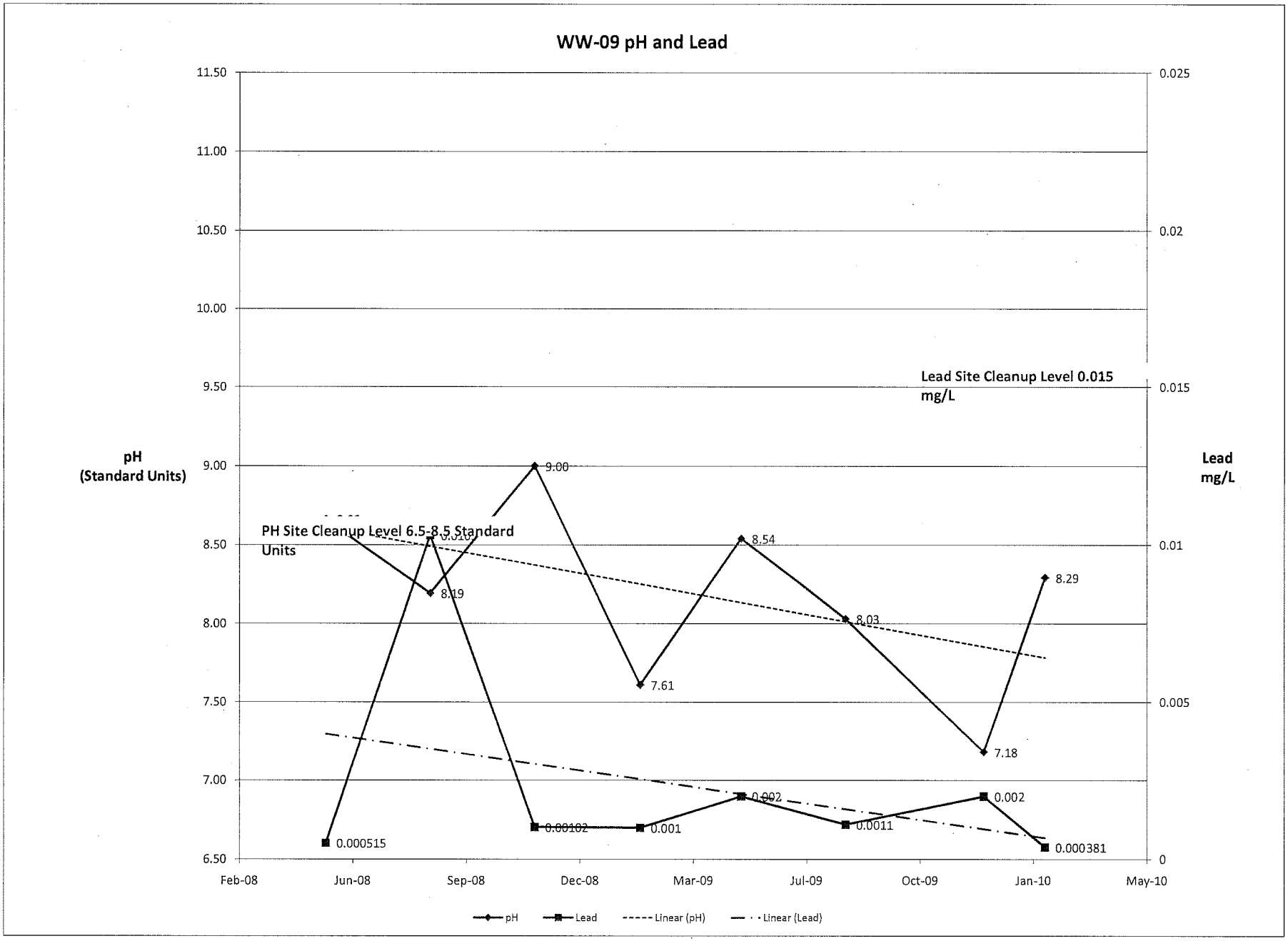

(b) (6) Well Arsenic and Manganese
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.0108
0.004
0.00217
0.004
0.004
0.004
0.004
0.0231
0.0235
0.0206
0.023
0.0209
0.022
0.0202
0.0203
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

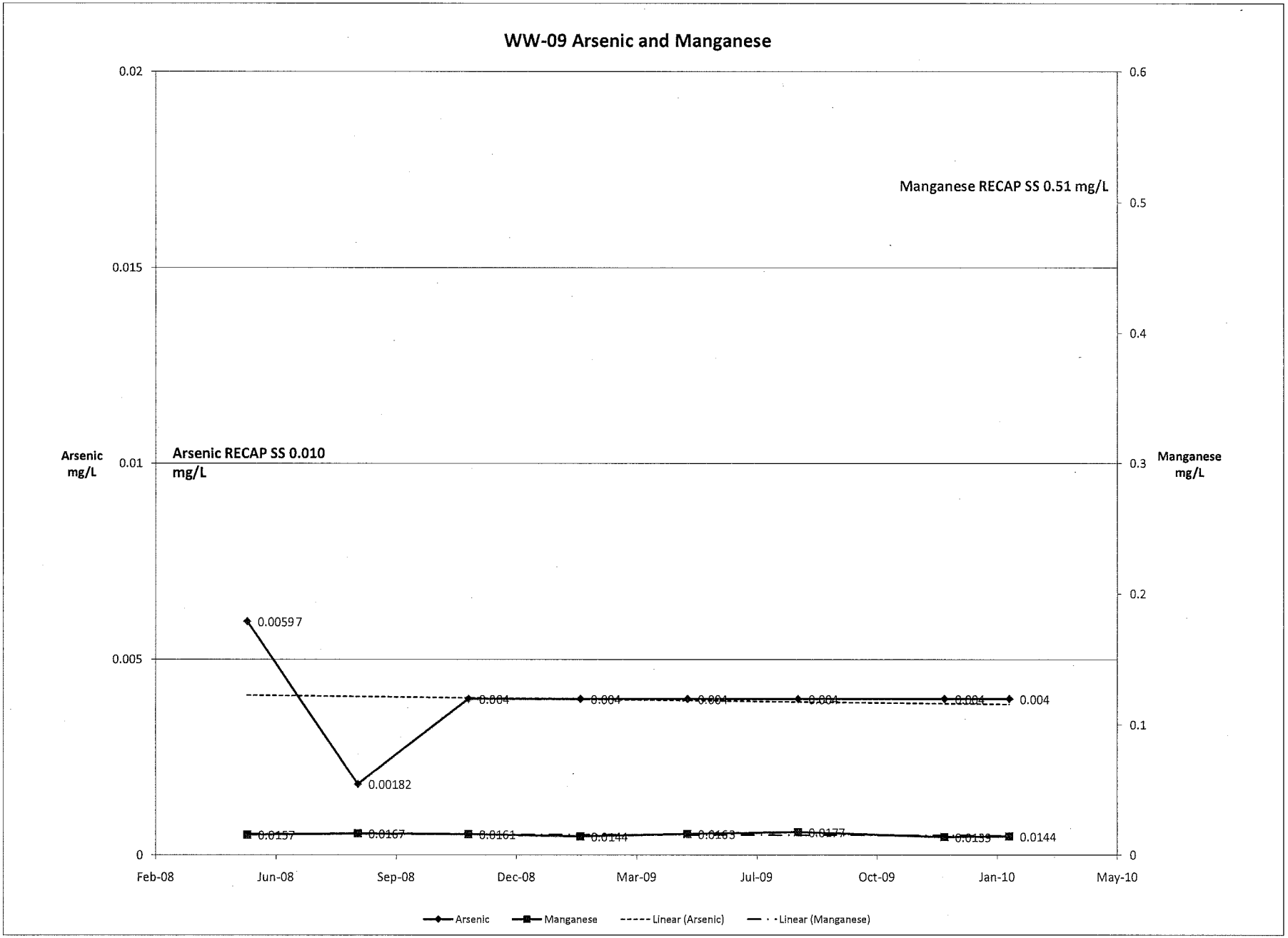

(b) (6) Well Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000934
0.0021
0.000961
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

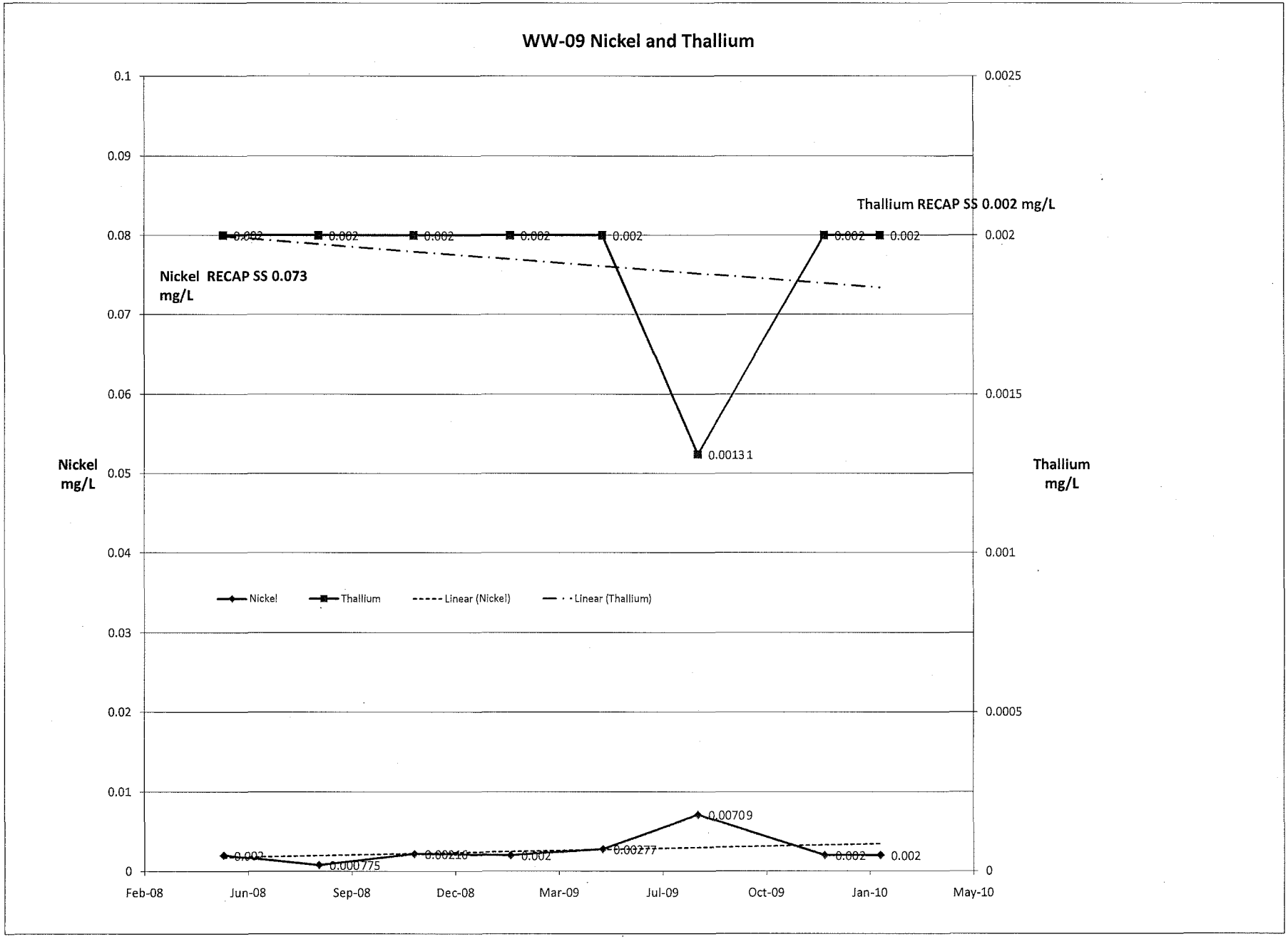

WW-04 pH and Lead
pH (Standard Units)
Lead mg/L
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
PH Site Cleanup Level 6.5-8.5 Standard Units
8.50
9.32
8.73
8.68
8.27
7.73
9.10
0.00158
0.000383
0.000606
0.0001
0.000549
0.00177
0.002
0.001
pH
Lead
Linear (pH)
Linear (Lead)

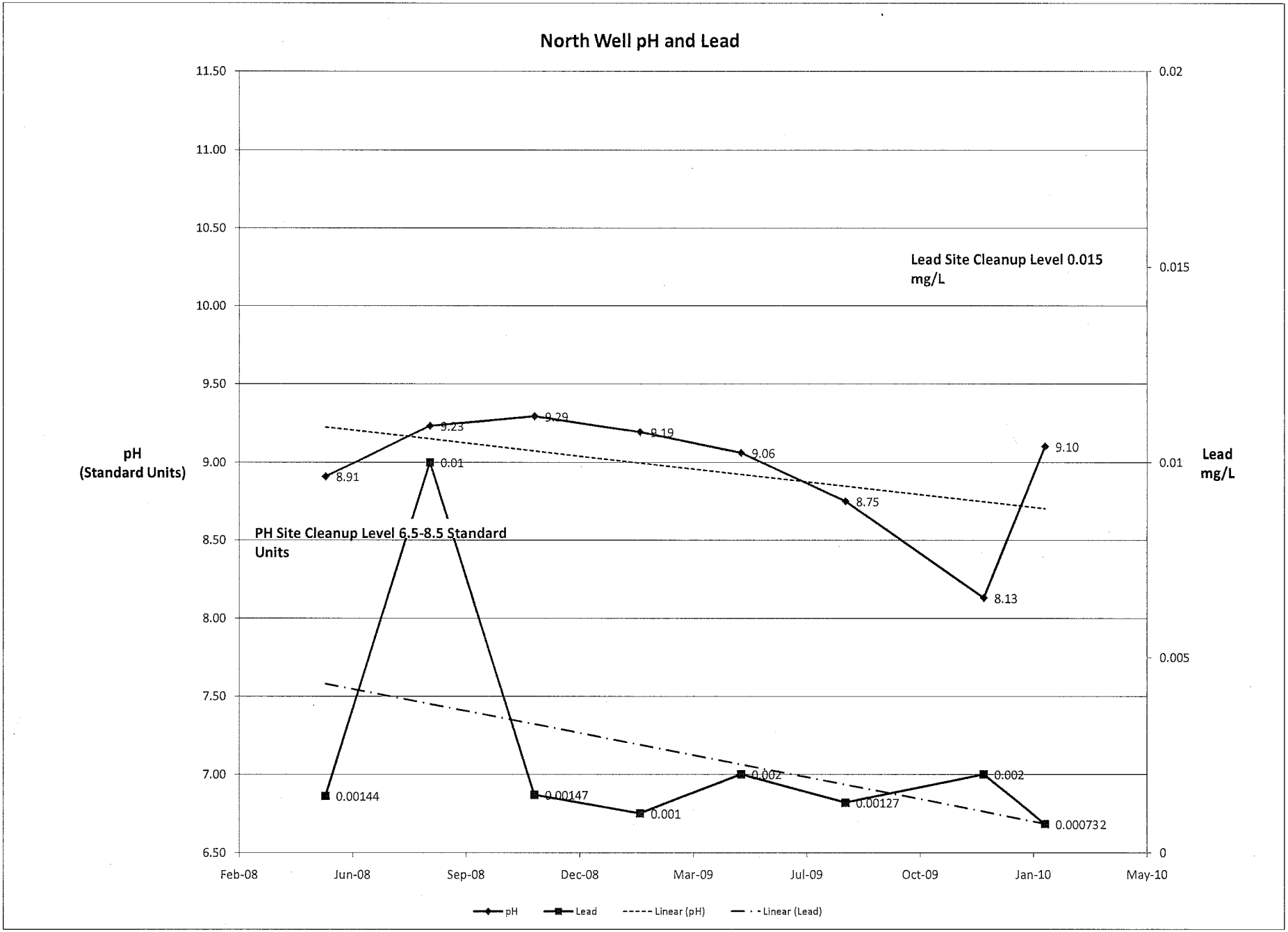

WW-04 Arsenic and Manganese
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.00469
0.00129
0.004
0.004
0.004
0.004
0.004
0.004
0.00248
0.00292
0.00318
0.00231
0.00217
0.00421
0.00254
0.00297
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

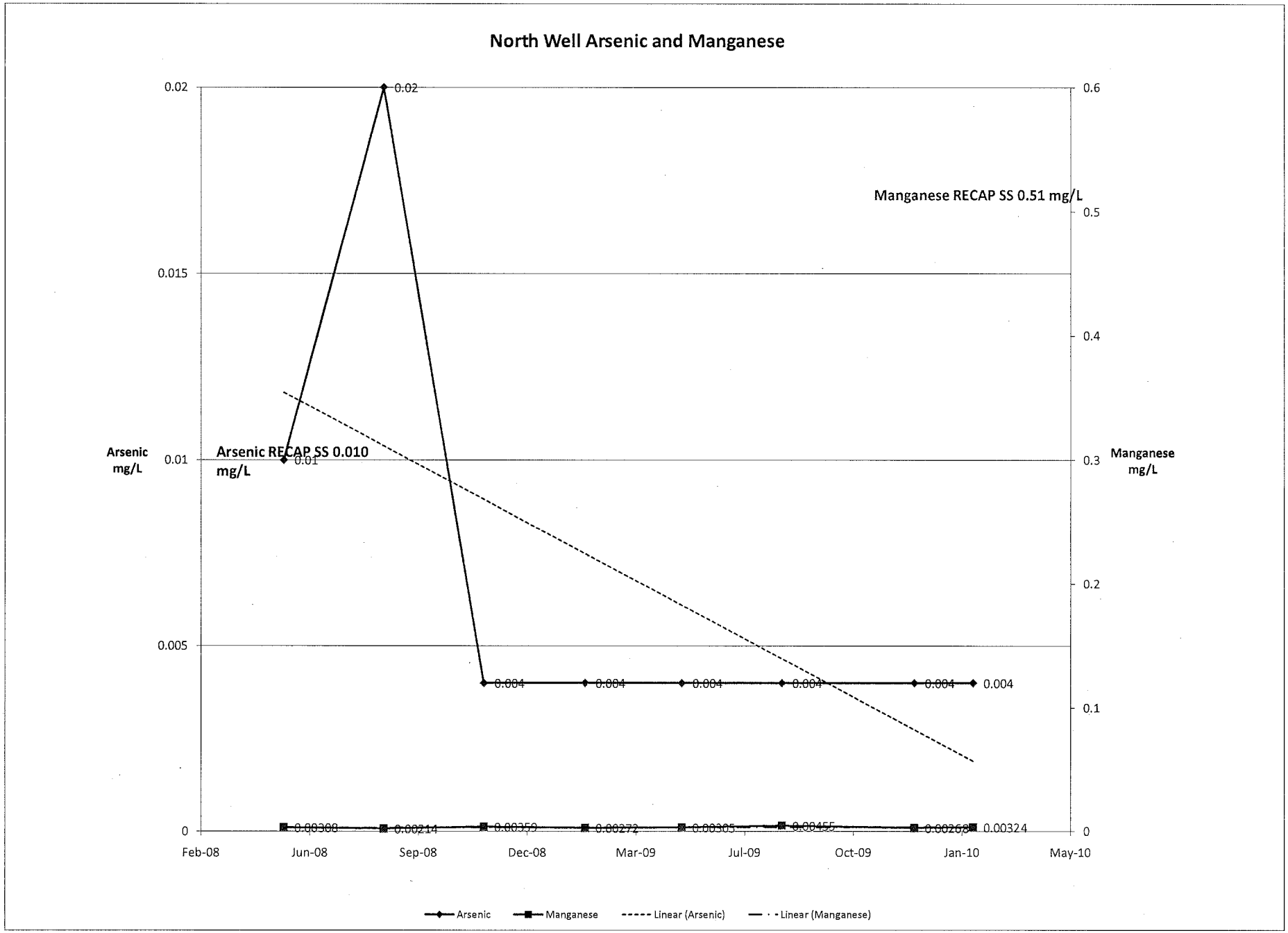

WW-04 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000931
0.000701
0.00126
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

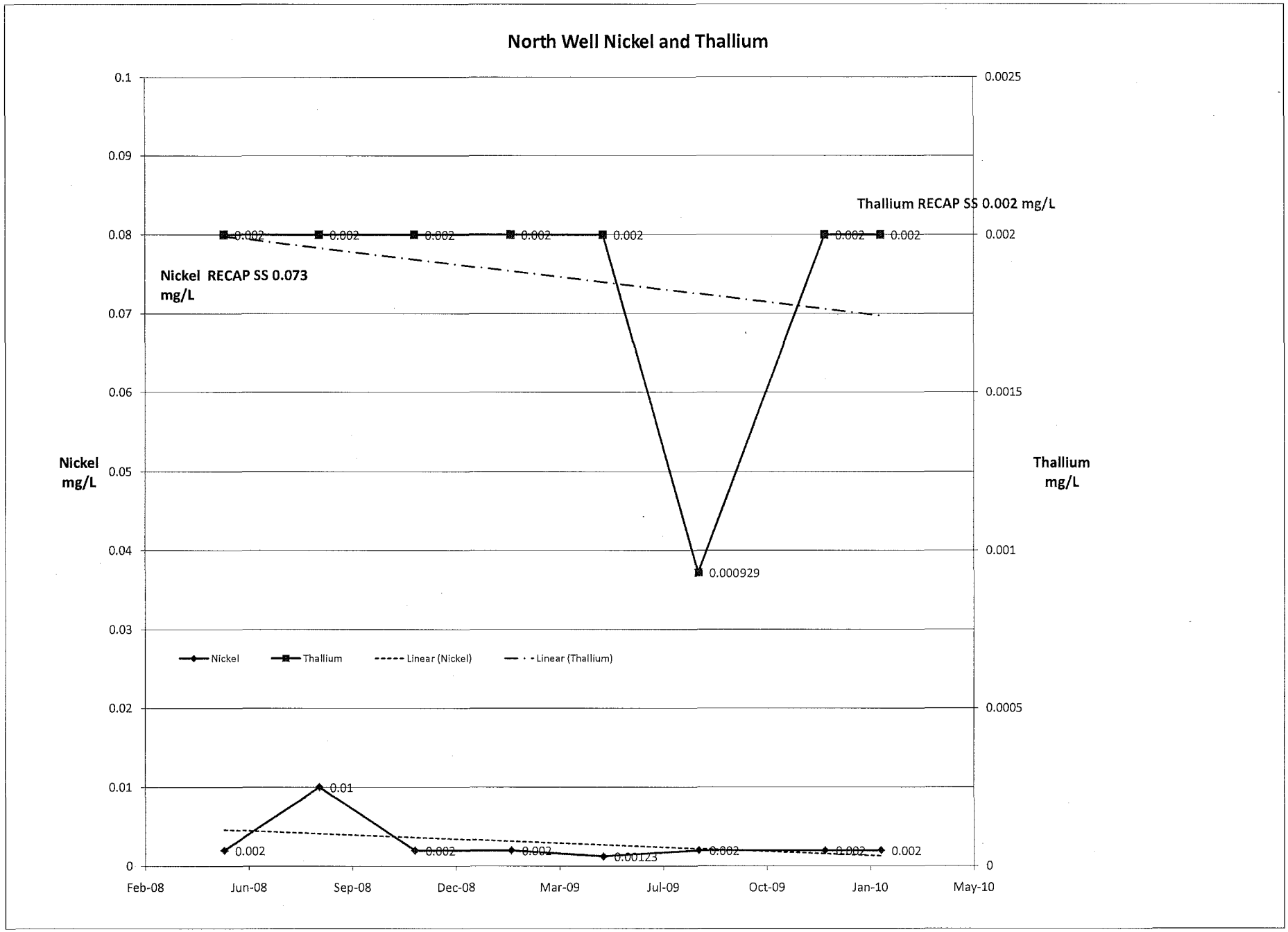

WW-09 pH and Lead
pH
(Standard Units)
Lead
mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.025
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
9.00
8.19
8.54
8.03
8.29
7.61
7.18
0.000515
0.00102
0.001
0.002
0.0011
0.002
0.000381
pH
Lead
Linear (pH)
Linear (Lead)

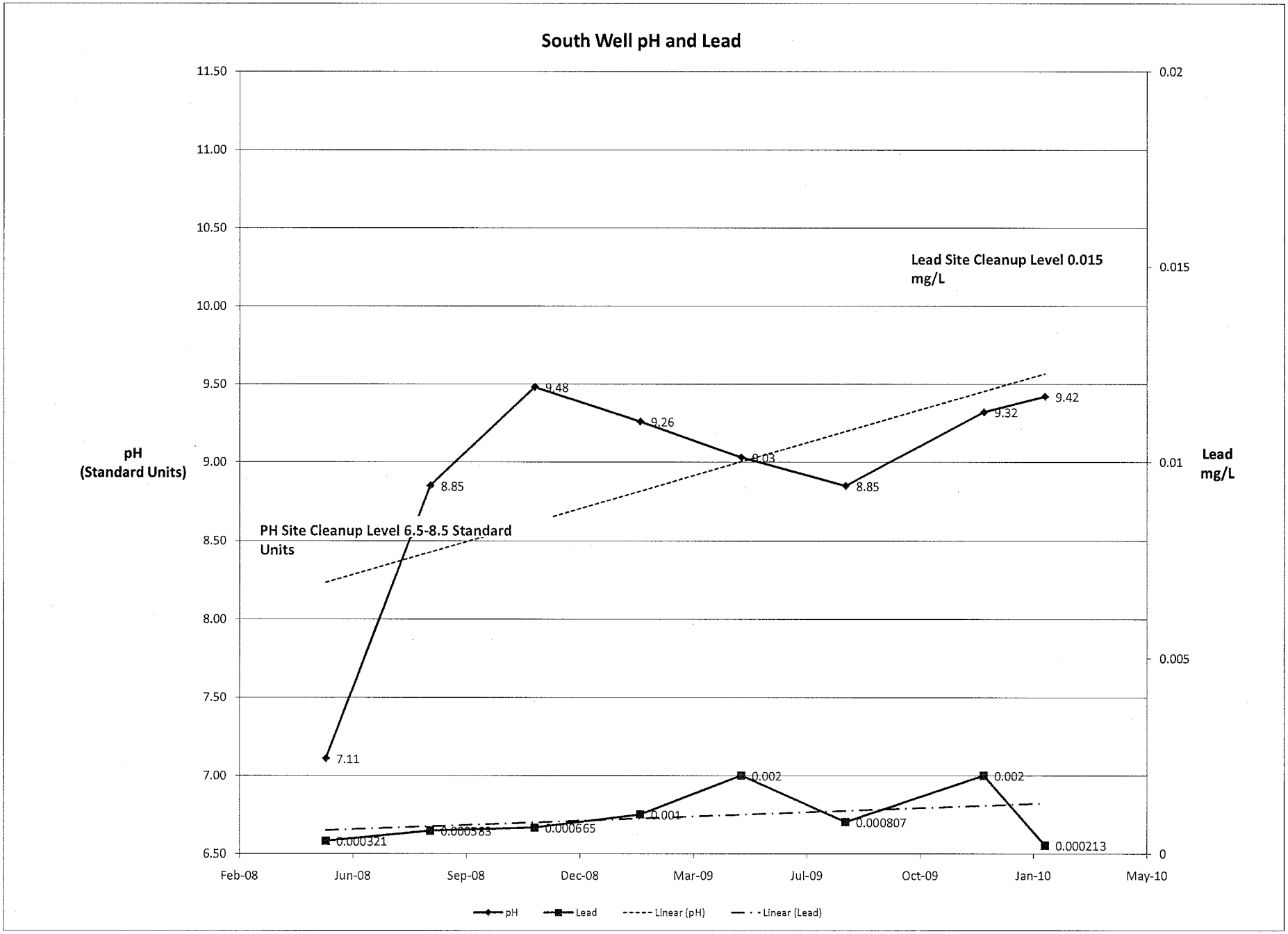

WW-09 Arsenic and Manganese
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.00597
0.00182
0.004
0.0157
0.0167
0.0161
0.0144
0.0163
0.0177
0.0139
0.0144
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)

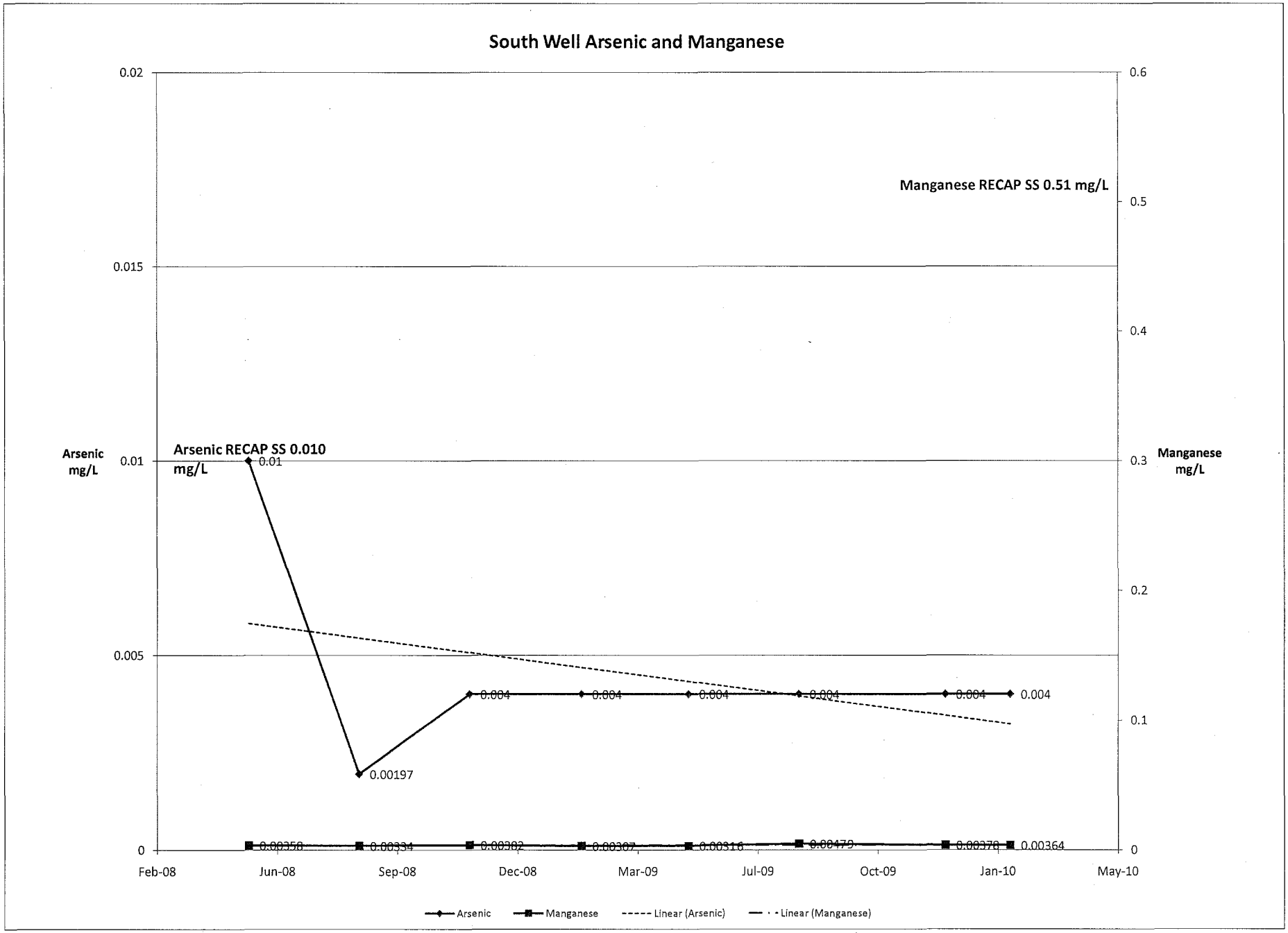

WW-09 Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.00131
0.002
0.000775
0.002
0.002
0.00709
0.002
0.002
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

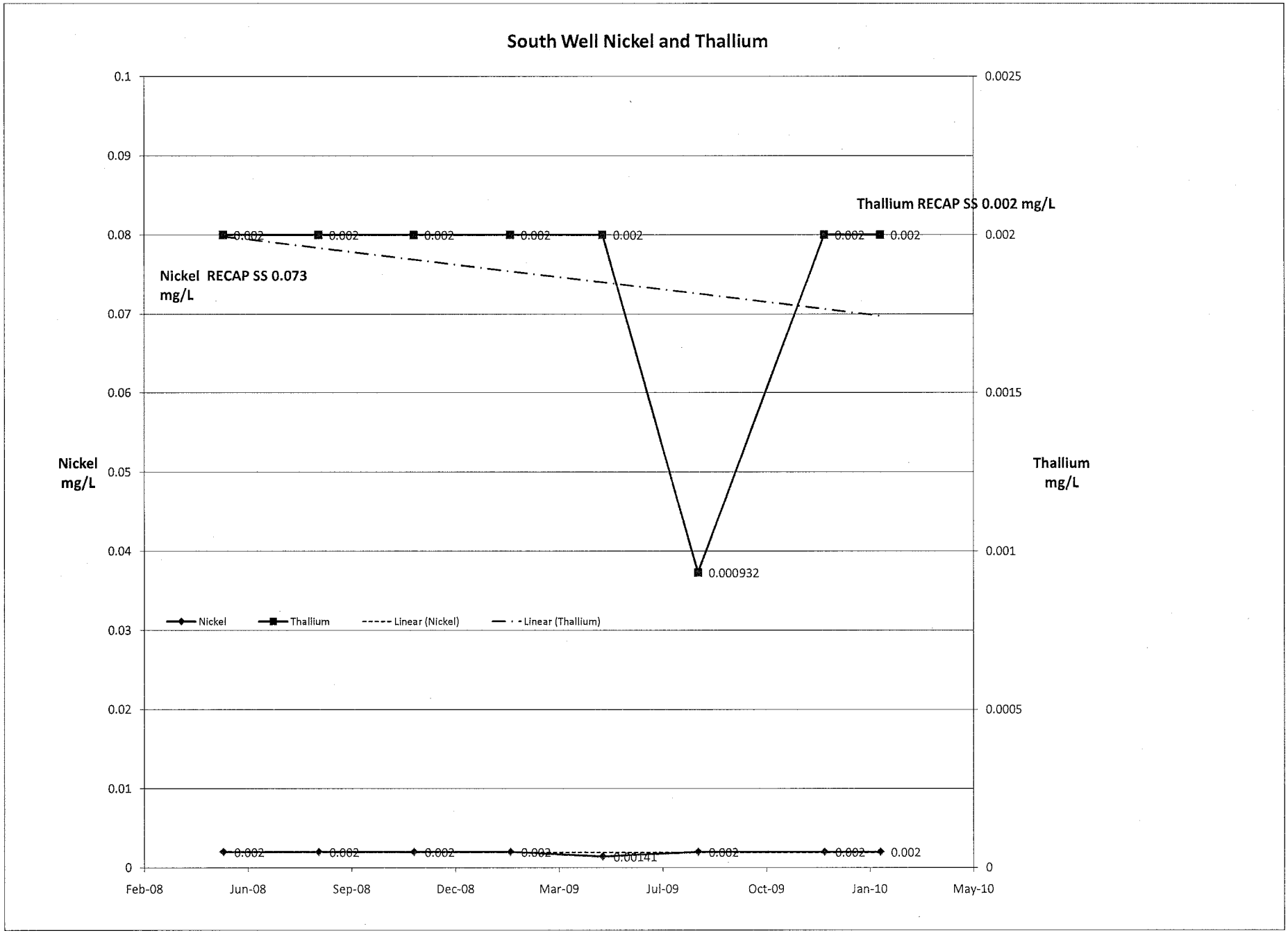

North Well pH and Lead
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.02
0.015
0.01
0.005
0
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
8.91
9.23
9.29
8.19
9.06
8.75
8.13
9.10
0.00144
0.01
0.00147
0.001
0.002
0.00127
0.002
0.000732
pH
Lead
Linear (pH)
Linear (Lead)


North Well Arsenic and Manganese
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
0.02
0.01
0.004
0.004
0.004
0.004
0.004
0.004
0.00388
0.00214
0.00359
0.00272
0.00305
0.00455
0.00268
0.00324
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)


North Well Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.002
0.002
0.002
0.002
0.002
0.002
0.000929
0.01
0.002
0.002
0.002
0.00123
0.002
0.002
0.002
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10


South Well pH and Lead
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
0.02
0.015
0.01
0.005
0
pH (Standard Units)
Lead mg/L
Lead Site Cleanup Level 0.015 mg/L
PH Site Cleanup Level 6.5-8.5 Standard Units
7.11
8.85
9.48
9.26
9.03
8.85
9.32
9.42
0.000321
0.000583
0.000665
0.001
0.002
0.000807
0.002
0.000213
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
pH
Lead
Linear (pH)
Linear (Lead)


South Well Arsenic and Manganese
0.02
0.015
0.01
0.005
0
0.6
0.5
0.4
0.3
0.2
0.1
0
Manganese RECAP SS 0.51 mg/L
Arsenic RECAP SS 0.010 mg/L
Arsenic mg/L
Manganese mg/L
0.01
0.00197
0.004
0.004
0.004
0.004
0.004
0.004
0.00358
0.00334
0.00382
0.00307
0.00316
0.00479
0.00378
0.00364
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10
Arsenic
Manganese
Linear (Arsenic)
Linear (Manganese)


South Well Nickel and Thallium
Thallium RECAP SS 0.002 mg/L
Nickel RECAP SS 0.073 mg/L
Nickel mg/L
Thallium mg/L
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.0025
0.002
0.0015
0.001
0.0005
0
0.002
0.000932
0.00141
Nickel
Thallium
Linear (Nickel)
Linear (Thallium)
Feb-08
Jun-08
Sep-08
Dec-08
Mar-09
Jul-09
Oct-09
Jan-10
May-10

ATTACHMENT D

DATA VALIDATION PACKAGE

Data Validation Report

DELATTE METALS PROJECT

SDG: 10020428 **March 2010**

Disclaimer

The opinions expressed and the qualifiers and values assigned by TerraBase Incorporated™ (TerraBase) are based on information provided to us in a hardcopy raw data package and/or an electronic deliverable.

TerraBase assumes this information accurately and completely represents the samples and information received by the laboratory, the analyses performed by the laboratory, and the raw data and results provided by the laboratory.

If TerraBase discovers that for any reason the information is inaccurate or incomplete, or non-representative of the site, TerraBase reserves the right to modify or withdraw any information contained in this report.

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 10020428

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207-0006
June 2009

Purpose of the Validation Report

Analytical data validation is a confirmatory procedure that evaluates client-generated laboratory data in accordance with definitive regulatory performance standards set forth by the USEPA.[1,2] TerraBase Incorporated™ (TerraBase) provides client assistance with data validation to ensure that analytical data are complete, in compliance with laboratory protocols, in agreement with the project data quality objectives, and are technically valid and legally defensible.

Format of the Introduction Section

The introduction contains summary tables that permit the reader easy access to the validated detected results. The tables are identified as: 1) ***Table E 1*** *Sample Identification Cross-Reference Table*, 2) ***Table E 2*** *Summary of Validated Sample Detects Sorted by Client Sample and Fraction* and 3) ***Table E 3*** *Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample.* A brief description of the contents of each table is presented below.

Executive Summaries:

1) ***Table E 1*** *Sample Identification Cross-Reference Table:* This table is a cross-reference of client sample names and laboratory names. It also references any consultants sample names, if they are available.

2) ***Table E 2*** *Summary of Validated Sample Detects Sorted by Client Sample and Fraction:* Identification of all post-validation detected analytes by client or site sample location, fraction and analyte. The order of the analytical fractions appearing in this report follows the typical order found in a laboratory data package. That is, volatiles appear first, followed by semivolatiles, pesticides, herbicides, metals and conventionals. The detected analytes of each fraction are also displayed according to their order of appearance in the data package. This table also shows the sample type, sample matrix, extraction level, dilution factor and the method quantitation limits (MQL).

3) ***Table E 3*** *Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample:* Identification of all post-validation detected analytes by fraction, analyte and client site/sample location.

---

[1]National Functional Guidelines For Organic Data Review, USEPA, October 1999
[2]National Functional Guidelines For Inorganic Data Review, USEPA, February 1994.

INTRODUCTION

Qualifier Definitions

- U - The analyte was analyzed for , but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NOTES:

1. On March 1, 2010 the results for total and dissolved site water samples were received by TerraBase, Inc. Four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria. Arsenic, lead, nickel, thallium, and manganese were analyzed by the laboratory as per the chain of custody.
2. The validator used all quality control samples available to provide the most complete and accurate data validation possible.
3. There were no times marked on the field duplicates for the validator to determine what samples they were duplicates of so, they were not used in the validation process.

E1 - Sample Identification Cross-Reference Table

Site Samples Sorted by Fraction

Delatte Metals
10020428

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **10020428**

Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
	BA-09	10020428-02A	Site Sample	Water	Low	02/08/2010 11:21
	WW-09	10020428-04A	Site Sample	Water	Low	02/08/2010 12:25
	BC-07	10020428-08A	Site Sample	Water	Low	02/09/2010 8:19
	MW-03	10020428-12A	Site Sample	Water	Low	02/09/2010 10:06

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID: **10020428**

Client Sample	Fraction	Analyte	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
BA-09									
	Metals								
		Manganese	Site Sample	Water	Low	1	0.002	3.41 J	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.161 J	mg/L
		Arsenic	Site Sample	Water	Low	1	0.02	0.0452	mg/L
BC-07									
	Metals								
		Lead	Site Sample	Water	Low	1	0.001	0.000163 J	mg/L
		Thallium	Site Sample	Water	Low	1	0.002	0.00022 J	mg/L
		Manganese	Site Sample	Water	Low	1	0.002	0.0129 J	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.000783 J	mg/L
MW-03									
	Metals								
		Lead	Site Sample	Water	Low	1	0.001	0.00508	mg/L
		Manganese	Site Sample	Water	Low	1	0.002	0.462 J	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.00141 J	mg/L
WW-09									
	Metals								
		Lead	Site Sample	Water	Low	1	0.001	0.000381 J	mg/L
		Manganese	Site Sample	Water	Low	1	0.002	0.0144 J	mg/L

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **10020428**

Fraction	Analyte	Client Sample	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
Metals									
	Arsenic								
		BA-09	Site Sample	Water	Low	1	0.02	0.0452	mg/L
	Lead								
		BC-07	Site Sample	Water	Low	1	0.001	0.000163 J	mg/L
		MW-03	Site Sample	Water	Low	1	0.001	0.00508	mg/L
		WW-09	Site Sample	Water	Low	1	0.001	0.000381 J	mg/L
	Manganese								
		BA-09	Site Sample	Water	Low	1	0.002	3.41 J	mg/L
		BC-07	Site Sample	Water	Low	1	0.002	0.0129 J	mg/L
		MW-03	Site Sample	Water	Low	1	0.002	0.462 J	mg/L
		WW-09	Site Sample	Water	Low	1	0.002	0.0144 J	mg/L
	Nickel								
		BA-09	Site Sample	Water	Low	1	0.002	0.161 J	mg/L
		BC-07	Site Sample	Water	Low	1	0.002	0.000783 J	mg/L
		MW-03	Site Sample	Water	Low	1	0.002	0.00141 J	mg/L
	Thallium								
		BC-07	Site Sample	Water	Low	1	0.002	0.00022 J	mg/L

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

METAL

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 10020428

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207-0006
March 2010

TerraBase Data Validation Reporting Method

The purpose of this section is to give the data user an understanding of the ideas and concepts associated with data validation in general and with the TerraBase, Inc.™ (TerraBase) method of reporting validated data.

Analyte Level Validation Issues

TerraBase has developed a method for reporting validated data which utilizes a presentation of laboratory data issues and validation issues. This technique is based on the concept that issues encountered in the validation of laboratory data affect individual analytes of a sample. For instance, determining that a detected analyte in a sample was the result of laboratory contamination will cause only that analyte to be qualified.

TerraBase Codes: Standardizing the Description of Analytical Defects

TerraBase has standardized the data validation process by developing a database of codes employed by our analysts to describe the various analytical defects that may occur with an analysis. Each code is associated with written text describing the problem and the qualification that may be applied. For instance, the code that would be applied to an analyte that was determined to be a result of laboratory contamination would be BC (Blank Contamination). A complete listing of the analyte qualification parameters and their respective codes are presented below in *Analyte Qualification Codes*.

Analyte Qualification Codes

- CO Comment
- HT Holding Time
- IC Initial Calibration
- CC Continuing Calibration
- BC Blank Contamination
- MS Matrix Spike Effects
- TC Target Compound Identification
- CQ Compound Quantitation
- TI Tentatively Identified Compound
- SD System Monitoring Compound
- IS Internal Standard
- TU GC/MS Tune Criteria

- AS Analytical Sequence

Metal Section Reporting Format

The Metal Section of this data validation report is divided into 1) a text-formatted report which describes the contents of the laboratory data package and 2) a number of tabular reports which allow the data user to readily obtain information about the results of the data validation. Below is a description of the type of information contained in these tabular reports.

1) *Narrative of the Sample Delivery Group (SDG):* This section provides general information that pertains to the data package, such as the date of receipt, the number and type of samples, the laboratory performing the analysis, the instrumentation utilized to perform the analysis, the method of analysis, and the number and type of quality control parameters reported by the laboratory. Additionally, any other pertinent issues dealing with the laboratory or the data package may be noted in this section.

2) ***Table M1*** *Summary of Metal Data Validation Issues*: This table represents a bulleted summary of all metal samples that were validated for analyte level defects and provides a quick view of any issues that were associated with this sample delivery group. A bullet represents the assignment of a comment and/or qualifier by the data validator for a specific sample. The nature of a qualification can be found in ***Table M2*** *Metal Analyte Qualification Summary.*

3) ***Table M2*** *Metal Analyte Qualification Summary*: This tabular report displays all of the analyte-level data validation issues checked (*Analyte Qualification Codes*). The table indicates the client sample name, the analyte that has been qualified, the qualification code, the lab result and its qualifier and units, the validated result and the validation qualifier and units. Explanations of the actions taken by the validator are explained in ***Table M3*** *Metal Analyte Qualification Comments.*

4) ***Table M3*** *Metal Analyte Qualification Comments:* This report contains an explanation of each problem and any qualification which was documented in ***Table M2*** *Metal Analyte Qualification Summary.*

5) ***Table M4*** *Validated Metal Results*: This report displays all the analytical and validated information in a one-sample per-page view. It includes the metal analyte list, analytical extraction level, dilution factor, method quantitation limits per analyte, the results for each analyte and the units of measure for each analyte.

Narrative of Sample Delivery Group (SDG): 10020428

On March 1, 2010 the results for four total water samples were contracted out to TerraBase, Inc. for data validation. The samples were analyzed by SPL-Lafayette for Arsenic, Lead, Nickel, Thallium, and Manganese. The laboratory utilized an ICP-MS according to SW-846 Method 6020A and 6010B for waters. The following quality control parameters were reported in the data package:

QC for 6020A	QC for 6010B
• 2 method blank(s)	• 1 method blank(s)
• 1 matrix spike(s)	• 0 matrix spike(s)
• 1 matrix spike duplicate(s)	• 0 matrix spike duplicate(s)
• 0 lab duplicate(s)	• 0 lab duplicate(s)
• 1 linear dilution sample(s)	• 0 linear dilution sample(s)
• 1 post digestion spike(s)	• 0 post digestion spike(s)
• 1 post digestion spike duplicate(s)	• 0 post digestion spike duplicate(s)
• 2 laboratory control sample(s)	• 2 laboratory control sample(s)
• 0 laboratory control sample dup(s)	• 0 laboratory control sample dup(s)

NOTES:

1. On March 1, 2010 the results for total and dissolved site water samples were received by TerraBase, Inc. Four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria. Arsenic, lead, nickel, thallium, and manganese were analyzed by the laboratory as per the chain of custody.
2. The validator used all quality control samples available to provide the most complete and accurate data validation possible.
3. There were no times marked on the field duplicates for the validator to determine what samples they were duplicates of so, they were not used in the validation process.
4. Results for Lead, Manganese, Nickel and Thallium were acquired using SW-846 Method 6020 for ICPMS.
5. The result for arsenic on sample BA-09 was run by SW-846 Method 6010B for ICP.
6. The results for arsenic on samples BC-07, MW-03, and WW-09 were acquired using SW-846 Method 6020 for ICPMS.
7. Sample BC-07 was used for the MS/MSD as per the chain of custody. It had all required elements run by ICPMS.
8. There was low level blank contamination found for Manganese; however, all results were over 10 times the contamination level making no qualification necessary.
9. The Manganese and Nickel had low matrix spike recoveries; however, there were no problems with the post digestion matrix spike and post digestion matrix spike duplicate. Qualification was done accordingly.

10. Arsenic on BA-09 was run by ICP so, the MS/MSD from that analytical run was used even though it was not performed on this specific sample.
11. Lead and Thallium was run at a 5x dilution for sample BA-09 even though there were no hits for these compounds due to interferences found. For this reason, a higher detection limit had to be reported.
12. There was a CCV that had lead recoveries over the quality control limits; however, it did not affect any samples in this sample delivery group.

M1 - Summary of Metal Data Validation Issues

Sorted by SDG Print Sequence Number

Delatte Metals
10020428

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **10020428**

Client Sample	*Analyte Qualification*							
	AS	CO	HT	IC	CC	BC	MS	CQ
BA-09							•	
BC-07							•	
MW-03							•	
WW-09							•	

All samples were validated. A bullet (•) denotes sample qualification.

Analyte Qualification Codes:

AS - Analytical sequence
CO - Comment
HT - Holding time
IC - Initial calibration
CC - Continuing calibration
BC - Blank contamination
MS - Matrix spike effects
CQ - Compound/parameter quantitation

M2 - Metal Analyte Qualification Summary

As prepared by Integrate, Inc.

Delatte Metals
10020428

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **10020428**

Client Sample	Analyte Name	AS	CO	HT	IC	CC	BC	MS	CQ	Lab Result		Units	Validated Result		Units
BA-09															
	Manganese	-	-	-	-	-	-	21	-	3.41		mg/L	3.41	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.161		mg/L	0.161	J	mg/L
BC-07															
	Manganese	-	-	-	-	-	-	21	-	0.0129		mg/L	0.0129	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.000783	J	mg/L	0.000783	J	mg/L
MW-03															
	Manganese	-	-	-	-	-	-	21	-	0.462		mg/L	0.462	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.00141	J	mg/L	0.00141	J	mg/L
WW-09															
	Manganese	-	-	-	-	-	-	21	-	0.0144		mg/L	0.0144	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.000678	U	mg/L	0.000678	UJ	mg/L

Analyte Qualification Codes:

AS - Analytical sequence
CO - Comment
HT - Holding time
IC - Initial calibration
CC - Continuing calibration
BC - Blank contamination
MS - Matrix spike effects
CQ - Compound/parameter quantitation

Analyte Qualifiers:

U - Non-detected
J - Estimated
R - Unusable
B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID: **10020428**

Qualification Category: **MS**

Qualification Code: **21**

Qualification Description: The recovery of the pre-digestion matrix spike for an analyte was low.

Qualification Action: The pre-digestion spike is prepared by adding a known amount of an analyte to the sample before the acid digestion. If the spike recovery is below acceptable limits, results in all samples for the affected analyte may be biased on the low side. The results reported are assumed to be the minimum possible value. All results are qualified as estimated (J) and estimated non-detected (UJ). If a spike recovery is less than 30%, non-detected results may be qualified as unusable (R).

Qualification Categories:			
CO	- Comment	MS	- Matrix spike effects
HT	- Holding time	TC	- TCL compound ID
IC	- Initial calibration	CQ	- Compound/parameter quantitation
CC	- Continuing calibration	TI	- Tentatively identified compound
BC	- Blank contamination	SD	- Surrogate deficiencies
		IS	- Internal standard

M4 - Validated Metal Results

Delatte Metals
10020428

Client Sample ID:	**BA-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-02A**	Sampling Date/Time:	**02/08/2010 11:21**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	5	0.005	0.000687 U	mg/L	
7439-96-5	Manganese	6020	1	0.002	3.41 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.161 J	mg/L	*
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L	
7440-38-2	Arsenic	6010B	1	0.02	0.0452	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

M4 - Validated Metal Results

Delatte Metals
10020428

Client Sample ID:	**WW-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-04A**	Sampling Date/Time:	**02/08/2010 12:25**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.000381 J	mg/L	
7439-96-5	Manganese	6020	1	0.002	0.0144 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.000678 UJ	mg/L	*
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L	
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

* - Modification by data validation

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M4 - Validated Metal Results

Delatte Metals
10020428

Client Sample ID:	**BC-07**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-08A**	Sampling Date/Time:	**02/09/2010 8:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.000163 J	mg/L	
7440-28-0	Thallium	6020	1	0.002	0.00022 J	mg/L	
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L	
7439-96-5	Manganese	6020	1	0.002	0.0129 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.000783 J	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

***** - Modification by data validation

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M4 - Validated Metal Results

Delatte Metals
10020428

Client Sample ID:	**MW-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-12A**	Sampling Date/Time:	**02/09/2010 10:06**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.00508	mg/L	
7439-96-5	Manganese	6020	1	0.002	0.462 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.00141 J	mg/L	
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L	
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

***** - Modification by data validation

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All Lab Level Results

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 10020428

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207-0006
March 2010

E1 - Sample Identification Cross-Reference Table

Site Samples Sorted by Fraction

Delatte Metals
0020428A

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **0020428A**

Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
	BA-09A	10020428-01A	Site Sample	Water	Low	02/08/2010 10:53
	BA-09	10020428-02A	Site Sample	Water	Low	02/08/2010 11:21
	MW-04	10020428-03A	Site Sample	Water	Low	02/08/2010 11:51
	WW-09	10020428-04A	Site Sample	Water	Low	02/08/2010 12:25
	WW-04	10020428-05A	Site Sample	Water	Low	02/08/2010 14:20
	(b) (6) WELL	10020428-06A	Site Sample	Water	Low	02/08/2010 14:30
	BC-03	10020428-07A	Site Sample	Water	Low	02/08/2010 15:09
	BC-07	10020428-08A	Site Sample	Water	Low	02/09/2010 8:19
	DW-04	10020428-09A	Site Sample	Water	Low	02/09/2010 8:48
	BC-19	10020428-10A	Site Sample	Water	Low	02/09/2010 9:11
	BC-25	10020428-11A	Site Sample	Water	Low	02/09/2010 9:43
	MW-03	10020428-12A	Site Sample	Water	Low	02/09/2010 10:06
	MW-06	10020428-13A	Site Sample	Water	Low	02/09/2010 11:01
	BB-01	10020428-14A	Site Sample	Water	Low	02/09/2010 11:50
	SOUTH WELL	10020428-15A	Site Sample	Water	Low	02/09/2010 12:25
	BC-17	10020428-16A	Site Sample	Water	Low	02/09/2010 12:50
	NORTH WELL	10020428-17A	Site Sample	Water	Low	02/09/2010 12:55
	BC-21R	10020428-18A	Site Sample	Water	Low	02/09/2010 13:19
	BA-01A	10020428-19A	Site Sample	Water	Low	02/09/2010 13:53
	BA-01	10020428-20A	Site Sample	Water	Low	02/09/2010 14:19
	BA-01	10020428-20B	Dissolved TRG	Water	Low	02/09/2010 14:19
	DW-03	10020428-21A	Site Sample	Water	Low	02/10/2010 9:53
	PW-04	10020428-22A	Site Sample	Water	Low	02/10/2010 10:28
	DW-02	10020428-23A	Site Sample	Water	Low	02/10/2010 11:40
	BA-05A	10020428-24A	Site Sample	Water	Low	02/10/2010 12:03
	BA-05	10020428-25A	Site Sample	Water	Low	02/10/2010 12:38
	MW-A	10020428-26A	Site Sample	Water	Low	02/10/2010 14:13
	DW-01	10020428-27A	Site Sample	Water	Low	02/10/2010 14:50
	DW-01	10020428-27B	Dissolved TRG	Water	Low	02/10/2010 14:50
	BA-03A	10020428-28A	Site Sample	Water	Low	02/10/2010 15:26
	BA-03	10020428-29A	Site Sample	Water	Low	02/10/2010 15:57
	MW-02	10020428-30A	Site Sample	Water	Low	02/11/2010 10:20
	MW-01	10020428-31A	Site Sample	Water	Low	02/11/2010 10:53
	DUPLICATE #1	10020428-32A	Field Duplicate	Water	Low	02/09/2010 0:00
	DUPLICATE #2	10020428-33A	Field Duplicate	Water	Low	02/10/2010 0:00
	DUPLICATE #3	10020428-34A	Field Duplicate	Water	Low	02/10/2010 0:00
	DUPLICATE #4	10020428-35A	Field Duplicate	Water	Low	02/10/2010 0:00

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-09A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-01A**	Sampling Date/Time:	**02/08/2010 10:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000504 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0234	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-02A**	Sampling Date/Time:	**02/08/2010 11:21**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	5	0.005	0.000687 U	mg/L
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0452	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**MW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-03A**	Sampling Date/Time:	**02/08/2010 11:51**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000524 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0077	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**WW-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-04A**	Sampling Date/Time:	**02/08/2010 12:25**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000381 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0144	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**WW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-05A**	Sampling Date/Time:	**02/08/2010 14:20**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00297	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	[redacted] WELL	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-06A**	Sampling Date/Time:	**02/08/2010 14:30**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00292	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0203	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BC-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-07A**	Sampling Date/Time:	**02/08/2010 15:09**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000221 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00138 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00146 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BC-07**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-08A**	Sampling Date/Time:	**02/09/2010 8:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000163 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0129	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000783 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00022 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-09A**	Sampling Date/Time:	**02/09/2010 8:48**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000534 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.000732 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BC-19**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-10A**	Sampling Date/Time:	**02/09/2010 9:11**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000185 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00119 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00104 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BC-25**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-11A**	Sampling Date/Time:	**02/09/2010 9:43**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000153 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00641	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**MW-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-12A**	Sampling Date/Time:	**02/09/2010 10:06**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00508	mg/L
7439-96-5	Manganese	6020	1	0.002	0.462	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00141 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**MW-06**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-13A**	Sampling Date/Time:	**02/09/2010 11:01**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000493 J	mg/L
7439-96-5	Manganese	6020	1	0.002	2.25	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0191	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BB-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-14A**	Sampling Date/Time:	**02/09/2010 11:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00591	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00421	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00104 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00319 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**SOUTH WELL**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-15A**	Sampling Date/Time:	**02/09/2010 12:25**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000213 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00364	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BC-17**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-16A**	Sampling Date/Time:	**02/09/2010 12:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0209	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0709	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00138 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**NORTH WELL**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-17A**	Sampling Date/Time:	**02/09/2010 12:55**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000732 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00324	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BC-21R**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-18A**	Sampling Date/Time:	**02/09/2010 13:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000162 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00642	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000979 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-01A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-19A**	Sampling Date/Time:	**02/09/2010 13:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000339 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0066	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000237 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00417	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-20A**	Sampling Date/Time:	**02/09/2010 14:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000806 J	mg/L
7439-96-5	Manganese	6020	1	0.002	1.34	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0465	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0172 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Dissolved TRG**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-20B**	Sampling Date/Time:	**02/09/2010 14:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7439-96-5	Manganese	6020	1	0.002	1.59	mg/L
7440-02-0	Nickel	6020	1	0.009	0.0546	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00829 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DW-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-21A**	Sampling Date/Time:	**02/10/2010 9:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.22	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.0018 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**PW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-22A**	Sampling Date/Time:	**02/10/2010 10:28**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000655 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DW-02**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-23A**	Sampling Date/Time:	**02/10/2010 11:40**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	5	0.005	0.046	mg/L
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0915	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-05A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-24A**	Sampling Date/Time:	**02/10/2010 12:03**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-05**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-25A**	Sampling Date/Time:	**02/10/2010 12:38**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**MW-A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-26A**	Sampling Date/Time:	**02/10/2010 14:13**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DW-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-27A**	Sampling Date/Time:	**02/10/2010 14:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00357	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.0648	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DW-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Dissolved TRG**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-27B**	Sampling Date/Time:	**02/10/2010 14:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00283	mg/L
7439-96-5	Manganese	6020	1	0.002	6.21	mg/L
7440-02-0	Nickel	6020	1	0.009	0.022	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.0029 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-03A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-28A**	Sampling Date/Time:	**02/10/2010 15:26**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**BA-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-29A**	Sampling Date/Time:	**02/10/2010 15:57**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.146	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.015 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**MW-02**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-30A**	Sampling Date/Time:	**02/11/2010 10:20**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0015	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**MW-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-31A**	Sampling Date/Time:	**02/11/2010 10:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	5	0.005	0.00389 J	mg/L
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0792	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DUPLICATE #1**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-32A**	Sampling Date/Time:	**02/09/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0153	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DUPLICATE #2**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-33A**	Sampling Date/Time:	**02/10/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000508 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

TerraBase®
integrate inc

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DUPLICATE #3**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-34A**	Sampling Date/Time:	**02/10/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Metal Results

Delatte Metals
0020428A

Client Sample ID:	**DUPLICATE #4**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-35A**	Sampling Date/Time:	**02/10/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000184 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

TerraBase®
Integrate Inc

ATTACHMENT E

LEVEL IV DATA PACKAGE
(VOLUME II OF II)

CD ATTACHED

Data Validation Report

DELATTE METALS PROJECT

SDG: 10020428 **March 2010**

Disclaimer

The opinions expressed and the qualifiers and values assigned by TerraBase Incorporated™ (TerraBase) are based on information provided to us in a hardcopy raw data package and/or an electronic deliverable.

TerraBase assumes this information accurately and completely represents the samples and information received by the laboratory, the analyses performed by the laboratory, and the raw data and results provided by the laboratory.

If TerraBase discovers that for any reason the information is inaccurate or incomplete, or non-representative of the site, TerraBase reserves the right to modify or withdraw any information contained in this report.

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 10020428

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207-0006
June 2009

Purpose of the Validation Report

Analytical data validation is a confirmatory procedure that evaluates client-generated laboratory data in accordance with definitive regulatory performance standards set forth by the USEPA.[1,2] TerraBase Incorporated™ (TerraBase) provides client assistance with data validation to ensure that analytical data are complete, in compliance with laboratory protocols, in agreement with the project data quality objectives, and are technically valid and legally defensible.

Format of the Introduction Section

The introduction contains summary tables that permit the reader easy access to the validated detected results. The tables are identified as: 1) ***Table E 1*** *Sample Identification Cross-Reference Table*, 2) ***Table E 2*** *Summary of Validated Sample Detects Sorted by Client Sample and Fraction* and 3) ***Table E 3*** *Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample.* A brief description of the contents of each table is presented below.

Executive Summaries:

1) ***Table E 1*** *Sample Identification Cross-Reference Table:* This table is a cross-reference of client sample names and laboratory names. It also references any consultants sample names, if they are available.

2) ***Table E 2*** *Summary of Validated Sample Detects Sorted by Client Sample and Fraction:* Identification of all post-validation detected analytes by client or site sample location, fraction and analyte. The order of the analytical fractions appearing in this report follows the typical order found in a laboratory data package. That is, volatiles appear first, followed by semivolatiles, pesticides, herbicides, metals and conventionals. The detected analytes of each fraction are also displayed according to their order of appearance in the data package. This table also shows the sample type, sample matrix, extraction level, dilution factor and the method quantitation limits (MQL).

3) ***Table E 3*** *Summary of Validated Analyte Detects Sorted by Fraction, Analyte and Client Sample:* Identification of all post-validation detected analytes by fraction, analyte and client site/sample location.

[1]National Functional Guidelines For Organic Data Review, USEPA, October 1999
[2]National Functional Guidelines For Inorganic Data Review, USEPA, February 1994.

Qualifier Definitions

- U - The analyte was analyzed for , but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NOTES:

1. On March 1, 2010 the results for total and dissolved site water samples were received by TerraBase, Inc. Four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria. Arsenic, lead, nickel, thallium, and manganese were analyzed by the laboratory as per the chain of custody.
2. The validator used all quality control samples available to provide the most complete and accurate data validation possible.
3. There were no times marked on the field duplicates for the validator to determine what samples they were duplicates of so, they were not used in the validation process.

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **10020428**

Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
	BA-09	10020428-02A	Site Sample	Water	Low	02/08/2010 11:21
	WW-09	10020428-04A	Site Sample	Water	Low	02/08/2010 12:25
	BC-07	10020428-08A	Site Sample	Water	Low	02/09/2010 8:19
	MW-03	10020428-12A	Site Sample	Water	Low	02/09/2010 10:06

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID: **10020428**

Client Sample	Fraction	Analyte	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
BA-09									
	Metals								
		Manganese	Site Sample	Water	Low	1	0.002	3.41 J	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.161 J	mg/L
		Arsenic	Site Sample	Water	Low	1	0.02	0.0452	mg/L
BC-07									
	Metals								
		Lead	Site Sample	Water	Low	1	0.001	0.000163 J	mg/L
		Thallium	Site Sample	Water	Low	1	0.002	0.00022 J	mg/L
		Manganese	Site Sample	Water	Low	1	0.002	0.0129 J	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.000783 J	mg/L
MW-03									
	Metals								
		Lead	Site Sample	Water	Low	1	0.001	0.00508	mg/L
		Manganese	Site Sample	Water	Low	1	0.002	0.462 J	mg/L
		Nickel	Site Sample	Water	Low	1	0.002	0.00141 J	mg/L
WW-09									
	Metals								
		Lead	Site Sample	Water	Low	1	0.001	0.000381 J	mg/L
		Manganese	Site Sample	Water	Low	1	0.002	0.0144 J	mg/L

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID: **10020428**

Fraction	Analyte	Client Sample	Sample Type	Matrix	Level	Dilution Factor	RL	Validated Result	Units
Metals									
	Arsenic								
		BA-09	Site Sample	Water	Low	1	0.02	0.0452	mg/L
	Lead								
		BC-07	Site Sample	Water	Low	1	0.001	0.000163 J	mg/L
		MW-03	Site Sample	Water	Low	1	0.001	0.00508	mg/L
		WW-09	Site Sample	Water	Low	1	0.001	0.000381 J	mg/L
	Manganese								
		BA-09	Site Sample	Water	Low	1	0.002	3.41 J	mg/L
		BC-07	Site Sample	Water	Low	1	0.002	0.0129 J	mg/L
		MW-03	Site Sample	Water	Low	1	0.002	0.462 J	mg/L
		WW-09	Site Sample	Water	Low	1	0.002	0.0144 J	mg/L
	Nickel								
		BA-09	Site Sample	Water	Low	1	0.002	0.161 J	mg/L
		BC-07	Site Sample	Water	Low	1	0.002	0.000783 J	mg/L
		MW-03	Site Sample	Water	Low	1	0.002	0.00141 J	mg/L
	Thallium								
		BC-07	Site Sample	Water	Low	1	0.002	0.00022 J	mg/L

Qualifiers:

J - Estimated

B - (Organics) Found in the associated method blank

D - Reported from a dilution

E - Exceeds calibration range

P - (Pesticides) Difference in column concentrations > 25%

B - (Inorganics) Lab qualifier - analyte detected between the instrument detection limit (IDL) and the RL

METAL

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 10020428

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207-0006
March 2010

TerraBase Data Validation Reporting Method

The purpose of this section is to give the data user an understanding of the ideas and concepts associated with data validation in general and with the TerraBase, Inc.™ (TerraBase) method of reporting validated data.

Analyte Level Validation Issues

TerraBase has developed a method for reporting validated data which utilizes a presentation of laboratory data issues and validation issues. This technique is based on the concept that issues encountered in the validation of laboratory data affect individual analytes of a sample. For instance, determining that a detected analyte in a sample was the result of laboratory contamination will cause only that analyte to be qualified.

TerraBase Codes: Standardizing the Description of Analytical Defects

TerraBase has standardized the data validation process by developing a database of codes employed by our analysts to describe the various analytical defects that may occur with an analysis. Each code is associated with written text describing the problem and the qualification that may be applied. For instance, the code that would be applied to an analyte that was determined to be a result of laboratory contamination would be BC (Blank Contamination). A complete listing of the analyte qualification parameters and their respective codes are presented below in *Analyte Qualification Codes*.

Analyte Qualification Codes

- CO Comment
- HT Holding Time
- IC Initial Calibration
- CC Continuing Calibration
- BC Blank Contamination
- MS Matrix Spike Effects
- TC Target Compound Identification
- CQ Compound Quantitation
- TI Tentatively Identified Compound
- SD System Monitoring Compound
- IS Internal Standard
- TU GC/MS Tune Criteria

- AS Analytical Sequence

Metal Section Reporting Format

The Metal Section of this data validation report is divided into 1) a text-formatted report which describes the contents of the laboratory data package and 2) a number of tabular reports which allow the data user to readily obtain information about the results of the data validation. Below is a description of the type of information contained in these tabular reports.

1) *Narrative of the Sample Delivery Group (SDG):* This section provides general information that pertains to the data package, such as the date of receipt, the number and type of samples, the laboratory performing the analysis, the instrumentation utilized to perform the analysis, the method of analysis, and the number and type of quality control parameters reported by the laboratory. Additionally, any other pertinent issues dealing with the laboratory or the data package may be noted in this section.

2) ***Table M1*** *Summary of Metal Data Validation Issues*: This table represents a bulleted summary of all metal samples that were validated for analyte level defects and provides a quick view of any issues that were associated with this sample delivery group. A bullet represents the assignment of a comment and/or qualifier by the data validator for a specific sample. The nature of a qualification can be found in ***Table M2*** *Metal Analyte Qualification Summary*.

3) ***Table M2*** *Metal Analyte Qualification Summary*: This tabular report displays all of the analyte-level data validation issues checked (*Analyte Qualification Codes*). The table indicates the client sample name, the analyte that has been qualified, the qualification code, the lab result and its qualifier and units, the validated result and the validation qualifier and units. Explanations of the actions taken by the validator are explained in ***Table M3*** *Metal Analyte Qualification Comments*.

4) ***Table M3*** *Metal Analyte Qualification Comments:* This report contains an explanation of each problem and any qualification which was documented in ***Table M2*** *Metal Analyte Qualification Summary*.

5) ***Table M4*** *Validated Metal Results*: This report displays all the analytical and validated information in a one-sample per-page view. It includes the metal analyte list, analytical extraction level, dilution factor, method quantitation limits per analyte, the results for each analyte and the units of measure for each analyte.

Narrative of Sample Delivery Group (SDG): 10020428

On March 1, 2010 the results for four total water samples were contracted out to TerraBase, Inc. for data validation. The samples were analyzed by SPL-Lafayette for Arsenic, Lead, Nickel, Thallium, and Manganese. The laboratory utilized an ICP-MS according to SW-846 Method 6020A and 6010B for waters. The following quality control parameters were reported in the data package:

QC for 6020A	QC for 6010B
• 2 method blank(s)	• 1 method blank(s)
• 1 matrix spike(s)	• 0 matrix spike(s)
• 1 matrix spike duplicate(s)	• 0 matrix spike duplicate(s)
• 0 lab duplicate(s)	• 0 lab duplicate(s)
• 1 linear dilution sample(s)	• 0 linear dilution sample(s)
• 1 post digestion spike(s)	• 0 post digestion spike(s)
• 1 post digestion spike duplicate(s)	• 0 post digestion spike duplicate(s)
• 2 laboratory control sample(s)	• 2 laboratory control sample(s)
• 0 laboratory control sample dup(s)	• 0 laboratory control sample dup(s)

NOTES:

1. On March 1, 2010 the results for total and dissolved site water samples were received by TerraBase, Inc. Four of these samples were requested for full data validation by TerraBase, Inc. in order to meet the client's 10% validation criteria. Arsenic, lead, nickel, thallium, and manganese were analyzed by the laboratory as per the chain of custody.
2. The validator used all quality control samples available to provide the most complete and accurate data validation possible.
3. There were no times marked on the field duplicates for the validator to determine what samples they were duplicates of so, they were not used in the validation process.
4. Results for Lead, Manganese, Nickel and Thallium were acquired using SW-846 Method 6020 for ICPMS.
5. The result for arsenic on sample BA-09 was run by SW-846 Method 6010B for ICP.
6. The results for arsenic on samples BC-07, MW-03, and WW-09 were acquired using SW-846 Method 6020 for ICPMS.
7. Sample BC-07 was used for the MS/MSD as per the chain of custody. It had all required elements run by ICPMS.
8. There was low level blank contamination found for Manganese; however, all results were over 10 times the contamination level making no qualification necessary.
9. The Manganese and Nickel had low matrix spike recoveries; however, there were no problems with the post digestion matrix spike and post digestion matrix spike duplicate. Qualification was done accordingly.

10. Arsenic on BA-09 was run by ICP so, the MS/MSD from that analytical run was used even though it was not performed on this specific sample.
11. Lead and Thallium was run at a 5x dilution for sample BA-09 even though there were no hits for these compounds due to interferences found. For this reason, a higher detection limit had to be reported.
12. There was a CCV that had lead recoveries over the quality control limits; however, it did not affect any samples in this sample delivery group.

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **10020428**

	Analyte Qualification							
Client Sample	AS	CO	HT	IC	CC	BC	MS	CQ
BA-09							•	
BC-07							•	
MW-03							•	
WW-09							•	

All samples were validated. A bullet (•) denotes sample qualification.

M2 - Metal Analyte Qualification Summary

As prepared by Integrate, Inc.

Delatte Metals
10020428

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID: **10020428**

Client Sample	Analyte Name	AS	CO	HT	IC	CC	BC	MS	CQ	Lab Result		Units	Validated Result		Units
BA-09															
	Manganese	-	-	-	-	-	-	21	-	3.41		mg/L	3.41	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.161		mg/L	0.161	J	mg/L
BC-07															
	Manganese	-	-	-	-	-	-	21	-	0.0129		mg/L	0.0129	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.000783	J	mg/L	0.000783	J	mg/L
MW-03															
	Manganese	-	-	-	-	-	-	21	-	0.462		mg/L	0.462	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.00141	J	mg/L	0.00141	J	mg/L
WW-09															
	Manganese	-	-	-	-	-	-	21	-	0.0144		mg/L	0.0144	J	mg/L
	Nickel	-	-	-	-	-	-	21	-	0.000678	U	mg/L	0.000678	UJ	mg/L

Analyte Qualification Codes:

AS - Analytical sequence
CO - Comment
HT - Holding time
IC - Initial calibration
CC - Continuing calibration
BC - Blank contamination
MS - Matrix spike effects
CQ - Compound/parameter quantitation

Analyte Qualifiers:

U - Non-detected
J - Estimated
R - Unusable
B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Lab: **SPLLAF / SPL Labs - Lafayette** SDG ID: **10020428**

Qualification Category: **MS**

Qualification Code: **21**

Qualification Description: The recovery of the pre-digestion matrix spike for an analyte was low.

Qualification Action: The pre-digestion spike is prepared by adding a known amount of an analyte to the sample before the acid digestion. If the spike recovery is below acceptable limits, results in all samples for the affected analyte may be biased on the low side. The results reported are assumed to be the minimum possible value. All results are qualified as estimated (J) and estimated non-detected (UJ). If a spike recovery is less than 30%, non-detected results may be qualified as unusable (R).

Client Sample ID:	**BA-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-02A**	Sampling Date/Time:	**02/08/2010 11:21**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	5	0.005	0.000687 U	mg/L	
7439-96-5	Manganese	6020	1	0.002	3.41 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.161 J	mg/L	*
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L	
7440-38-2	Arsenic	6010B	1	0.02	0.0452	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

***** - Modification by data validation

Client Sample ID:	**WW-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-04A**	Sampling Date/Time:	**02/08/2010 12:25**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.000381 J	mg/L	
7439-96-5	Manganese	6020	1	0.002	0.0144 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.000678 UJ	mg/L	*
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L	
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

***** - Modification by data validation

Client Sample ID:	**BC-07**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-08A**	Sampling Date/Time:	**02/09/2010 8:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.000163 J	mg/L	
7440-28-0	Thallium	6020	1	0.002	0.00022 J	mg/L	
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L	
7439-96-5	Manganese	6020	1	0.002	0.0129 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.000783 J	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

***** - Modification by data validation

Client Sample ID:	**MW-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**10020428**
Lab Sample ID:	**10020428-12A**	Sampling Date/Time:	**02/09/2010 10:06**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Validated Results	Units	
7439-92-1	Lead	6020	1	0.001	0.00508	mg/L	
7439-96-5	Manganese	6020	1	0.002	0.462 J	mg/L	*
7440-02-0	Nickel	6020	1	0.002	0.00141 J	mg/L	
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L	
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L	

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

***** - Modification by data validation

All Lab Level Results

DELATTE METALS PROJECT

DATA VALIDATION REPORT

SDG: 10020428

Prepared for:

SEMS, Inc.
Baton Rouge, LA

TerraBase Project Number: 207-0006
March 2010

Lab: **SPLLAF / SPL Labs - Lafayette**

SDG ID: **0020428A**

Fraction	Client Sample	Lab Sample	Sample Type	Matrix	Level	Sampling Date/Time
Metals						
	BA-09A	10020428-01A	Site Sample	Water	Low	02/08/2010 10:53
	BA-09	10020428-02A	Site Sample	Water	Low	02/08/2010 11:21
	MW-04	10020428-03A	Site Sample	Water	Low	02/08/2010 11:51
	WW-09	10020428-04A	Site Sample	Water	Low	02/08/2010 12:25
	WW-04	10020428-05A	Site Sample	Water	Low	02/08/2010 14:20
	(b) (6) WELL	10020428-06A	Site Sample	Water	Low	02/08/2010 14:30
	BC-03	10020428-07A	Site Sample	Water	Low	02/08/2010 15:09
	BC-07	10020428-08A	Site Sample	Water	Low	02/09/2010 8:19
	DW-04	10020428-09A	Site Sample	Water	Low	02/09/2010 8:48
	BC-19	10020428-10A	Site Sample	Water	Low	02/09/2010 9:11
	BC-25	10020428-11A	Site Sample	Water	Low	02/09/2010 9:43
	MW-03	10020428-12A	Site Sample	Water	Low	02/09/2010 10:06
	MW-06	10020428-13A	Site Sample	Water	Low	02/09/2010 11:01
	BB-01	10020428-14A	Site Sample	Water	Low	02/09/2010 11:50
	SOUTH WELL	10020428-15A	Site Sample	Water	Low	02/09/2010 12:25
	BC-17	10020428-16A	Site Sample	Water	Low	02/09/2010 12:50
	NORTH WELL	10020428-17A	Site Sample	Water	Low	02/09/2010 12:55
	BC-21R	10020428-18A	Site Sample	Water	Low	02/09/2010 13:19
	BA-01A	10020428-19A	Site Sample	Water	Low	02/09/2010 13:53
	BA-01	10020428-20A	Site Sample	Water	Low	02/09/2010 14:19
	BA-01	10020428-20B	Dissolved TRG	Water	Low	02/09/2010 14:19
	DW-03	10020428-21A	Site Sample	Water	Low	02/10/2010 9:53
	PW-04	10020428-22A	Site Sample	Water	Low	02/10/2010 10:28
	DW-02	10020428-23A	Site Sample	Water	Low	02/10/2010 11:40
	BA-05A	10020428-24A	Site Sample	Water	Low	02/10/2010 12:03
	BA-05	10020428-25A	Site Sample	Water	Low	02/10/2010 12:38
	MW-A	10020428-26A	Site Sample	Water	Low	02/10/2010 14:13
	DW-01	10020428-27A	Site Sample	Water	Low	02/10/2010 14:50
	DW-01	10020428-27B	Dissolved TRG	Water	Low	02/10/2010 14:50
	BA-03A	10020428-28A	Site Sample	Water	Low	02/10/2010 15:26
	BA-03	10020428-29A	Site Sample	Water	Low	02/10/2010 15:57
	MW-02	10020428-30A	Site Sample	Water	Low	02/11/2010 10:20
	MW-01	10020428-31A	Site Sample	Water	Low	02/11/2010 10:53
	DUPLICATE #1	10020428-32A	Field Duplicate	Water	Low	02/09/2010 0:00
	DUPLICATE #2	10020428-33A	Field Duplicate	Water	Low	02/10/2010 0:00
	DUPLICATE #3	10020428-34A	Field Duplicate	Water	Low	02/10/2010 0:00
	DUPLICATE #4	10020428-35A	Field Duplicate	Water	Low	02/10/2010 0:00

Client Sample ID:	**BA-09A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-01A**	Sampling Date/Time:	**02/08/2010 10:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000504 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0234	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-02A**	Sampling Date/Time:	**02/08/2010 11:21**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	5	0.005	0.000687 U	mg/L
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0452	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**MW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-03A**	Sampling Date/Time:	**02/08/2010 11:51**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000524 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0077	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**WW-09**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-04A**	Sampling Date/Time:	**02/08/2010 12:25**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000381 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0144	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**WW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-05A**	Sampling Date/Time:	**02/08/2010 14:20**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00297	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	(b) (6) **WELL**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-06A**	Sampling Date/Time:	**02/08/2010 14:30**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00292	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0203	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-07A**	Sampling Date/Time:	**02/08/2010 15:09**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000221 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00138 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00146 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-07**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-08A**	Sampling Date/Time:	**02/09/2010 8:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000163 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0129	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000783 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.00022 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**DW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-09A**	Sampling Date/Time:	**02/09/2010 8:48**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000534 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.000732 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**BC-19**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-10A**	Sampling Date/Time:	**02/09/2010 9:11**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000185 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00119 J	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00104 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-25**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-11A**	Sampling Date/Time:	**02/09/2010 9:43**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000153 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00641	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**MW-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-12A**	Sampling Date/Time:	**02/09/2010 10:06**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00508	mg/L
7439-96-5	Manganese	6020	1	0.002	0.462	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00141 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**MW-06**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-13A**	Sampling Date/Time:	**02/09/2010 11:01**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000493 J	mg/L
7439-96-5	Manganese	6020	1	0.002	2.25	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0191	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BB-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-14A**	Sampling Date/Time:	**02/09/2010 11:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00591	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00421	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00104 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00319 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**SOUTH WELL**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-15A**	Sampling Date/Time:	**02/09/2010 12:25**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000213 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00364	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-17**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-16A**	Sampling Date/Time:	**02/09/2010 12:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0209	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0709	mg/L
7440-02-0	Nickel	6020	1	0.002	0.00138 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**NORTH WELL**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-17A**	Sampling Date/Time:	**02/09/2010 12:55**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000732 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00324	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BC-21R**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-18A**	Sampling Date/Time:	**02/09/2010 13:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000162 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.00642	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000979 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-01A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-19A**	Sampling Date/Time:	**02/09/2010 13:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000339 J	mg/L
7439-96-5	Manganese	6020	1	0.002	0.0066	mg/L
7440-02-0	Nickel	6020	1	0.002	0.000678 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000237 J	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00417	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**BA-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-20A**	Sampling Date/Time:	**02/09/2010 14:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000806 J	mg/L
7439-96-5	Manganese	6020	1	0.002	1.34	mg/L
7440-02-0	Nickel	6020	1	0.002	0.0465	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0172 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**BA-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Dissolved TRG**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-20B**	Sampling Date/Time:	**02/09/2010 14:19**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7439-96-5	Manganese	6020	1	0.002	1.59	mg/L
7440-02-0	Nickel	6020	1	0.009	0.0546	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00829 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DW-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-21A**	Sampling Date/Time:	**02/10/2010 9:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.22	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.0018 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**PW-04**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-22A**	Sampling Date/Time:	**02/10/2010 10:28**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000655 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DW-02**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-23A**	Sampling Date/Time:	**02/10/2010 11:40**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	5	0.005	0.046	mg/L
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0915	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**BA-05A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-24A**	Sampling Date/Time:	**02/10/2010 12:03**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**BA-05**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-25A**	Sampling Date/Time:	**02/10/2010 12:38**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**MW-A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-26A**	Sampling Date/Time:	**02/10/2010 14:13**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DW-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-27A**	Sampling Date/Time:	**02/10/2010 14:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00357	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.0648	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DW-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Dissolved TRG**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-27B**	Sampling Date/Time:	**02/10/2010 14:50**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.00283	mg/L
7439-96-5	Manganese	6020	1	0.002	6.21	mg/L
7440-02-0	Nickel	6020	1	0.009	0.022	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.0029 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**BA-03A**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-28A**	Sampling Date/Time:	**02/10/2010 15:26**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**BA-03**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-29A**	Sampling Date/Time:	**02/10/2010 15:57**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.146	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.015 J	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**MW-02**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-30A**	Sampling Date/Time:	**02/11/2010 10:20**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0015	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**MW-01**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Site Sample**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-31A**	Sampling Date/Time:	**02/11/2010 10:53**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	5	0.005	0.00389 J	mg/L
7440-28-0	Thallium	6020	5	0.01	0.000735 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.0792	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DUPLICATE #1**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-32A**	Sampling Date/Time:	**02/09/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.0153	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

Client Sample ID:	**DUPLICATE #2**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-33A**	Sampling Date/Time:	**02/10/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000508 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6010B	1	0.02	0.00797 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DUPLICATE #3**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-34A**	Sampling Date/Time:	**02/10/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000137 U	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

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Client Sample ID:	**DUPLICATE #4**	Matrix:	**Water**	Lab ID:	**SPLLAF**
Sample Type:	**Field Duplicate**	% Solids:	**100**	SDG ID:	**0020428A**
Lab Sample ID:	**10020428-35A**	Sampling Date/Time:	**02/10/2010 0:00**	SDG Page:	**0**

CAS Number	Analyte Name	Method	D/F	RL	Lab Result	Units
7439-92-1	Lead	6020	1	0.001	0.000184 J	mg/L
7440-28-0	Thallium	6020	1	0.002	0.000147 U	mg/L
7440-38-2	Arsenic	6020	1	0.004	0.00145 U	mg/L

U - Non-detected
J - Estimated
R - Unusable
RL - Reporting limit

B - (Lab qualifier) Analyte detected between the instrument detection limit (IDL) and the RL

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

10020428

Report To:		Project Name:	N-207-0006	
SEMS, INC.		Site:	DELATTE METALS	
JESSE HOPPES		Site Address:		
11628 S. CHOCTAW DRIVE			PONCHATOULA	LA
		PO Number:		
BATON ROUGE		State:	Louisiana	
LA		State Cert. No.:	02048	
70815-		Date Reported:	2/23/2010	
ph: (225)924-2002	fax:			

I. SAMPLE RECEIPT

A. All samples were received intact. The internal ice chest temperatures were measured upon receipt and recorded on the Sample Receipt Checklist included in this data package.

II. ANALYSIS

A. Holding Times: All analyses were completed within the recommended holding time.

B. Measurement Basis: "J" values may be presented for the analyses in this report. Programmatically, "J" values are those confirmed values for components detected less than the "Rep. Limit" but greater than the laboratory method detection limit (MDL). Thus, it should be noted that positive values may appear on quantitation reports but not on Form I if those values are below the MDL.

C. Analytical Exceptions:

Total Metals by method 6020: Laboratory batch 87095-Target analyte Manganese was detected in the method blank at a concentration below the laboratory reporting limits (0.000277J mg/L.) The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in SPL's quality control program had Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Manganese and Nickel due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits. Laboratory batch 87906-Target analyte Manganese was detected in the method blank at a concentration below the laboratory reporting limits (0.000279J mg/L.) The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results. The sample selected for use in SPL's quality control program had Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries that were outside of the advisable quality control limits for Manganese and Nickel due to possible matrix interference. Other samples of like matrix collected from this site also may be affected. A Post Digestion Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Dissolved Metals by method 6020: Laboratory batch 87103-Target analytes Manganese (0.0022J mg/L) and Nickel (0.00677 mg/L) were detected in the method blank at a concentration below the laboratory reporting limits. The concentrations detected in the method blank are below the laboratory reporting limit and are presumptive. The detected concentrations had no effect on the reported results.

III. QUALITY CONTROL

A. Analytical Protocol and Deliverables: The samples were analyzed in accordance with the protocol requirements.

B. Initial and Continuing Calibrations: All QA acceptance criteria were met for initial and continuing calibration samples.

C. Blanks: Method and calibration blanks met the method criteria except as otherwise noted.

Amy K. Jackson
Project Manager

2/23/2010
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Case Narrative for:

SEMS, INC.

Certificate of Analysis Number:

10020428

NOTE: This data package was produced using software base on CLP type deliverables. The forms and documentation in this data package are to be considered "CLP-like" and may not meet all the criteria specified in the CLP protocols. The data are reported based on the method requirements.

CERTIFICATION:

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 has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Amy K. Jackson
Project Manager

2/23/2010
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

10020428

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225) 924-2002 fax: (225) 924-2004

Fax To:

Project Name: N-207-0006
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 2/23/2010

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
BA-09A	10020428-01	Water	2/8/2010 10:53:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-09	10020428-02	Water	2/8/2010 11:21:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-04	10020428-03	Water	2/8/2010 11:51:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
WW-09	10020428-04	Water	2/8/2010 12:25:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
WW-04	10020428-05	Water	2/8/2010 2:20:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
(b) (6) WELL	10020428-06	Water	2/8/2010 2:30:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-03	10020428-07	Water	2/8/2010 3:09:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-07	10020428-08	Water	2/9/2010 8:19:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-07MS	10020428-08MS	Water	2/9/2010 8:19:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-07MSD	10020428-08MSD	Water	2/9/2010 8:19:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DW-04	10020428-09	Water	2/9/2010 8:48:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-19	10020428-10	Water	2/9/2010 9:11:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-25	10020428-11	Water	2/9/2010 9:43:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-03	10020428-12	Water	2/9/2010 10:06:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-06	10020428-13	Water	2/9/2010 11:01:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BB-01	10020428-14	Water	2/9/2010 11:50:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
SOUTH WELL	10020428-15	Water	2/9/2010 12:25:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-17	10020428-16	Water	2/9/2010 12:50:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
NORTH WELL	10020428-17	Water	2/9/2010 12:55:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BC-21R	10020428-18	Water	2/9/2010 1:19:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01A	10020428-19	Water	2/9/2010 1:53:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01AMS	10020428-19MS	Water	2/9/2010 1:53:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01AMSD	10020428-19MSD	Water	2/9/2010 1:53:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-01	10020428-20	Water	2/9/2010 2:19:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐

Amy K. Jackson
ProjectManager

2/23/2010
Date

RonBenjamin
LaboratoryDirector

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
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(337) 237-4775

SEMS, INC.

Certificate of Analysis Number:

10020428

Report To: SEMS, INC.
JESSE HOPPES
11628 S. CHOCTAW DRIVE

BATON ROUGE
LA
70815-
ph: (225)924-2002 fax: (225)924-2004

Fax To:

Project Name: N-207-0006
Site: DELATTE METALS
Site Address:
PONCHATOULA LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 2/23/2010

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DW-03	10020428-21	Water	2/10/2010 9:53:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
PW-04	10020428-22	Water	2/10/2010 10:28:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DW-02	10020428-23	Water	2/10/2010 11:40:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-05A	10020428-24	Water	2/10/2010 12:03:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-05	10020428-25	Water	2/10/2010 12:38:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-A	10020428-26	Water	2/10/2010 2:13:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DW-01	10020428-27	Water	2/10/2010 2:50:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-03A	10020428-28	Water	2/10/2010 3:26:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
BA-03	10020428-29	Water	2/10/2010 3:57:00 PM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-02	10020428-30	Water	2/11/2010 10:20:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
MW-01	10020428-31	Water	2/11/2010 10:53:00 AM	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #1	10020428-32	Water	2/9/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #2	10020428-33	Water	2/10/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #3	10020428-34	Water	2/10/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐
DUPLICATE #4	10020428-35	Water	2/10/2010	2/11/2010 5:20:00 PM	,302977,302965,	☐

Amy K. Jackson
ProjectManager

2/23/2010
Date

RonBenjamin
LaboratoryDirector

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Client Sample ID: BA-09A **Collected:** 02/08/2010 10:53 **SPL Sample ID:** 10020428-01

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 17:47	RJD	3457642
Lead	0.000504	J	0.000137	0.001	1	02/15/10 17:47	RJD	3457642
Manganese	0.0234		9.14E-05	0.002	1	02/15/10 17:47	RJD	3457642
Nickel	ND		0.000678	0.002	1	02/15/10 17:47	RJD	3457642
Thallium	ND		0.000147	0.002	1	02/15/10 17:47	RJD	3457642

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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SCOTT, LA 70583
(337)237-4775

Client Sample ID: BA-09 **Collected:** 02/08/2010 11:21 **SPL Sample ID:** 10020428-02

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	ND		0.000687	0.005	5	02/16/10 12:22	RJD	3458574
Manganese	3.41		9.14E-05	0.002	1	02/15/10 17:50	RJD	3457643
Nickel	0.161		0.000678	0.002	1	02/15/10 17:50	RJD	3457643
Thallium	ND		0.000735	0.01	5	02/16/10 12:22	RJD	3458574

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	0.0452		0.00797	0.02	1	02/19/10 20:32	SVW	3464457

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337)237-4775

Client Sample ID: MW-04 **Collected:** 02/08/2010 11:51 **SPL Sample ID:** 10020428-03

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 17:53	RJD	3457644
Lead	0.000524	J	0.000137	0.001	1	02/15/10 17:53	RJD	3457644
Manganese	0.0077		9.14E-05	0.002	1	02/15/10 17:53	RJD	3457644
Nickel	ND		0.000678	0.002	1	02/15/10 17:53	RJD	3457644
Thallium	ND		0.000147	0.002	1	02/15/10 17:53	RJD	3457644

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: WW-09 **Collected:** 02/08/2010 12:25 **SPL Sample ID:** 10020428-04

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 17:55	RJD	3457645
Lead	0.000381	J	0.000137	0.001	1	02/15/10 17:55	RJD	3457645
Manganese	0.0144		9.14E-05	0.002	1	02/15/10 17:55	RJD	3457645
Nickel	ND		0.000678	0.002	1	02/15/10 17:55	RJD	3457645
Thallium	ND		0.000147	0.002	1	02/15/10 17:55	RJD	3457645

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: WW-04 **Collected:** 02/08/2010 14:20 **SPL Sample ID:** 10020428-05

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 17:58	RJD	3457646
Lead	ND		0.000137	0.001	1	02/15/10 17:58	RJD	3457646
Manganese	0.00297		9.14E-05	0.002	1	02/15/10 17:58	RJD	3457646
Nickel	ND		0.000678	0.002	1	02/15/10 17:58	RJD	3457646
Thallium	ND		0.000147	0.002	1	02/15/10 17:58	RJD	3457646

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: (b) (6) WELL **Collected:** 02/08/2010 14:30 **SPL Sample ID:** 10020428-06

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:01	RJD	3457647
Lead	0.00292		0.000137	0.001	1	02/15/10 18:01	RJD	3457647
Manganese	0.0203		9.14E-05	0.002	1	02/15/10 18:01	RJD	3457647
Nickel	ND		0.000678	0.002	1	02/15/10 18:01	RJD	3457647
Thallium	ND		0.000147	0.002	1	02/15/10 18:01	RJD	3457647

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-03 **Collected:** 02/08/2010 15:09 **SPL Sample ID:** 10020428-07

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:03	RJD	3457648
Lead	0.000221	J	0.000137	0.001	1	02/15/10 18:03	RJD	3457648
Manganese	0.00138	J	9.14E-05	0.002	1	02/15/10 18:03	RJD	3457648
Nickel	0.00146	J	0.000678	0.002	1	02/15/10 18:03	RJD	3457648
Thallium	ND		0.000147	0.002	1	02/15/10 18:03	RJD	3457648

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-07 **Collected:** 02/09/2010 8:19 **SPL Sample ID:** 10020428-08

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 17:26	RJD	3457634
Lead	0.000163	J	0.000137	0.001	1	02/15/10 17:26	RJD	3457634
Manganese	0.0129		9.14E-05	0.002	1	02/15/10 17:26	RJD	3457634
Nickel	0.000783	J	0.000678	0.002	1	02/15/10 17:26	RJD	3457634
Thallium	0.00022	J	0.000147	0.002	1	02/15/10 17:26	RJD	3457634

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DW-04 **Collected:** 02/09/2010 8:48 **SPL Sample ID:** 10020428-09

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 18:06	RJD	3457649
Lead	0.000534	J	0.000137	0.001	1	02/15/10 18:06	RJD	3457649
Manganese	0.000732	J	9.14E-05	0.002	1	02/15/10 18:06	RJD	3457649
Nickel	ND		0.000678	0.002	1	02/15/10 18:06	RJD	3457649
Thallium	ND		0.000147	0.002	1	02/15/10 18:06	RJD	3457649

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-19 **Collected:** 02/09/2010 9:11 **SPL Sample ID:** 10020428-10

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 18:09	RJD	3457650
Lead	0.000185	J	0.000137	0.001	1	02/15/10 18:09	RJD	3457650
Manganese	0.00119	J	9.14E-05	0.002	1	02/15/10 18:09	RJD	3457650
Nickel	0.00104	J	0.000678	0.002	1	02/15/10 18:09	RJD	3457650
Thallium	ND		0.000147	0.002	1	02/15/10 18:09	RJD	3457650

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-25 **Collected:** 02/09/2010 9:43 **SPL Sample ID:** 10020428-11

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:12	RJD	3457651
Lead	0.000153	J	0.000137	0.001	1	02/15/10 18:12	RJD	3457651
Manganese	0.00641		9.14E-05	0.002	1	02/15/10 18:12	RJD	3457651
Nickel	ND		0.000678	0.002	1	02/15/10 18:12	RJD	3457651
Thallium	ND		0.000147	0.002	1	02/15/10 18:12	RJD	3457651

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: MW-03 **Collected:** 02/09/2010 10:06 **SPL Sample ID:** 10020428-12

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 18:20	RJD	3457654
Lead	0.00508		0.000137	0.001	1	02/15/10 18:20	RJD	3457654
Manganese	0.462		9.14E-05	0.002	1	02/15/10 18:20	RJD	3457654
Nickel	0.00141	J	0.000678	0.002	1	02/15/10 18:20	RJD	3457654
Thallium	ND		0.000147	0.002	1	02/15/10 18:20	RJD	3457654

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
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Client Sample ID: MW-06 **Collected:** 02/09/2010 11:01 **SPL Sample ID:** 10020428-13

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.000493	J	0.000137	0.001	1	02/15/10 18:22	RJD	3457655
Manganese	2.25		9.14E-05	0.002	1	02/15/10 18:22	RJD	3457655
Nickel	0.0191		0.000678	0.002	1	02/15/10 18:22	RJD	3457655
Thallium	ND		0.000147	0.002	1	02/15/10 18:22	RJD	3457655

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	ND		0.00797	0.02	1	02/19/10 20:22	SVW	3464455

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BB-01 **Collected:** 02/09/2010 11:50 **SPL Sample ID:** 10020428-14

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	0.00319	J	0.00145	0.004	1	02/15/10 18:25	RJD	3457656
Lead	0.00591		0.000137	0.001	1	02/15/10 18:25	RJD	3457656
Manganese	0.00421		9.14E-05	0.002	1	02/15/10 18:25	RJD	3457656
Nickel	0.00104	J	0.000678	0.002	1	02/15/10 18:25	RJD	3457656
Thallium	ND		0.000147	0.002	1	02/15/10 18:25	RJD	3457656

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: SOUTH WELL **Collected:** 02/09/2010 12:25 **SPL Sample ID:** 10020428-15

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:28	RJD	3457657
Lead	0.000213	J	0.000137	0.001	1	02/15/10 18:28	RJD	3457657
Manganese	0.00364		9.14E-05	0.002	1	02/15/10 18:28	RJD	3457657
Nickel	ND		0.000678	0.002	1	02/15/10 18:28	RJD	3457657
Thallium	ND		0.000147	0.002	1	02/15/10 18:28	RJD	3457657

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BC-17 **Collected:** 02/09/2010 12:50 **SPL Sample ID:** 10020428-16

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/15/10 18:30	RJD	3457658
Lead	0.0209		0.000137	0.001	1	02/15/10 18:30	RJD	3457658
Manganese	0.0709		9.14E-05	0.002	1	02/15/10 18:30	RJD	3457658
Nickel	0.00138	J	0.000678	0.002	1	02/15/10 18:30	RJD	3457658
Thallium	ND		0.000147	0.002	1	02/15/10 18:30	RJD	3457658

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: NORTH WELL **Collected:** 02/09/2010 12:55 **SPL Sample ID:** 10020428-17

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:33	RJD	3457659
Lead	0.000732	J	0.000137	0.001	1	02/15/10 18:33	RJD	3457659
Manganese	0.00324		9.14E-05	0.002	1	02/15/10 18:33	RJD	3457659
Nickel	ND		0.000678	0.002	1	02/15/10 18:33	RJD	3457659
Thallium	ND		0.000147	0.002	1	02/15/10 18:33	RJD	3457659

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
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Client Sample ID: BC-21R **Collected:** 02/09/2010 13:19 **SPL Sample ID:** 10020428-18

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/15/10 18:36	RJD	3457660
Lead	0.000162	J	0.000137	0.001	1	02/15/10 18:36	RJD	3457660
Manganese	0.00642		9.14E-05	0.002	1	02/15/10 18:36	RJD	3457660
Nickel	0.000979	J	0.000678	0.002	1	02/15/10 18:36	RJD	3457660
Thallium	ND		0.000147	0.002	1	02/15/10 18:36	RJD	3457660

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
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Client Sample ID: BA-01A **Collected:** 02/09/2010 13:53 **SPL Sample ID:** 10020428-19

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	0.00417		0.00145	0.004	1	02/15/10 19:00	RJD	3457668
Lead	0.000339	J	0.000137	0.001	1	02/15/10 19:00	RJD	3457668
Manganese	0.0066		9.14E-05	0.002	1	02/15/10 19:00	RJD	3457668
Nickel	ND		0.000678	0.002	1	02/15/10 19:00	RJD	3457668
Thallium	0.000237	J	0.000147	0.002	1	02/15/10 19:00	RJD	3457668

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Client Sample ID: BA-01 **Collected:** 02/09/2010 14:19 **SPL Sample ID:** 10020428-20

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**	**SW6020 Units: mg/L**		
Lead	ND		0.000137	0.001	1	02/16/10 10:39	RJD	3458555
Manganese	1.59		9.14E-05	0.002	1	02/16/10 10:39	RJD	3458555
Nickel	0.0546		0.000678	0.009	1	02/16/10 10:39	RJD	3458555
Thallium	ND		0.000147	0.002	1	02/16/10 10:39	RJD	3458555

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/12/2010 14:00	SA	1.00

DISSOLVED METALS BY METHOD 6010B					MCL	SW6010B Units: mg/L		
Arsenic	0.00829	J	0.00797	0.02	1	02/19/10 23:07	SVW	3464484

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/12/2010 14:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL	SW6020 Units: mg/L		
Lead	0.000806	J	0.000137	0.001	1	02/15/10 18:38	RJD	3457661
Manganese	1.34		9.14E-05	0.002	1	02/15/10 18:38	RJD	3457661
Nickel	0.0465		0.000678	0.002	1	02/15/10 18:38	RJD	3457661
Thallium	ND		0.000147	0.002	1	02/15/10 18:38	RJD	3457661

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					MCL	SW6010B Units: mg/L		
Arsenic	0.0172	J	0.00797	0.02	1	02/19/10 20:27	SVW	3464456

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DW-03 **Collected:** 02/10/2010 9:53 **SPL Sample ID:** 10020428-21

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	0.0018	J	0.00145	0.004	1	02/16/10 12:37	RJD	3458577
Lead	0.22		0.000137	0.001	1	02/16/10 12:37	RJD	3458577
Manganese	0.284		9.14E-05	0.002	1	02/15/10 19:21	RJD	3457676
Nickel	0.0145		0.000678	0.002	1	02/15/10 19:21	RJD	3457676
Thallium	ND		0.000147	0.002	1	02/16/10 12:37	RJD	3458577

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
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Client Sample ID: PW-04 **Collected:** 02/10/2010 10:28 **SPL Sample ID:** 10020428-22

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.000655	J	0.000137	0.001	1	02/16/10 12:40	RJD	3458578
Manganese	1.5		9.14E-05	0.002	1	02/15/10 19:24	RJD	3457677
Nickel	0.0358		0.000678	0.002	1	02/15/10 19:24	RJD	3457677
Thallium	ND		0.000147	0.002	1	02/16/10 12:40	RJD	3458578

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	ND		0.00797	0.02	1	02/19/10 21:57	SVW	3464472

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
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(337)237-4775

Client Sample ID: DW-02 **Collected:** 02/10/2010 11:40 **SPL Sample ID:** 10020428-23

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.046		0.000687	0.005	5	02/16/10 12:53	RJD	3458582
Manganese	9.15		9.14E-05	0.002	1	02/15/10 19:27	RJD	3457678
Nickel	0.388		0.000678	0.002	1	02/15/10 19:27	RJD	3457678
Thallium	ND		0.000735	0.01	5	02/16/10 12:53	RJD	3458582

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	0.0915		0.00797	0.02	1	02/19/10 22:02	SVW	3464473

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-05A **Collected:** 02/10/2010 12:03 **SPL Sample ID:** 10020428-24

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 12:58	RJD	3458584
Lead	ND		0.000137	0.001	1	02/16/10 12:58	RJD	3458584
Manganese	0.012		9.14E-05	0.002	1	02/15/10 19:29	RJD	3457679
Nickel	ND		0.000678	0.002	1	02/15/10 19:29	RJD	3457679
Thallium	ND		0.000147	0.002	1	02/16/10 12:58	RJD	3458584

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-05 **Collected:** 02/10/2010 12:38 **SPL Sample ID:** 10020428-25

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:01	RJD	3458585
Lead	ND		0.000137	0.001	1	02/16/10 13:01	RJD	3458585
Manganese	15.4		9.14E-05	0.002	1	02/15/10 19:32	RJD	3457680
Nickel	0.058		0.000678	0.002	1	02/15/10 19:32	RJD	3457680
Thallium	ND		0.000147	0.002	1	02/16/10 13:01	RJD	3458585

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: MW-A **Collected:** 02/10/2010 14:13 **SPL Sample ID:** 10020428-26

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:04	RJD	3458586
Lead	ND		0.000137	0.001	1	02/16/10 13:04	RJD	3458586
Manganese	0.00402		9.14E-05	0.002	1	02/15/10 19:35	RJD	3457681
Nickel	ND		0.000678	0.002	1	02/15/10 19:35	RJD	3457681
Thallium	ND		0.000147	0.002	1	02/16/10 13:04	RJD	3458586

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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(337)237-4775

Client Sample ID: DW-01 **Collected:** 02/10/2010 14:50 **SPL Sample ID:** 10020428-27

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DISSOLVED METALS BY ICP/MS					**MCL**	**SW6020 Units: mg/L**		
Arsenic	0.0029	J	0.00145	0.004	1	02/16/10 11:11	RJD	3458564
Lead	0.00283		0.000137	0.001	1	02/16/10 11:11	RJD	3458564
Manganese	6.21		9.14E-05	0.002	1	02/16/10 11:11	RJD	3458564
Nickel	0.022		0.000678	0.009	1	02/16/10 11:11	RJD	3458564
Thallium	ND		0.000147	0.002	1	02/16/10 11:11	RJD	3458564

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3005	02/12/2010 14:00	SA	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL					MCL	SW6020 Units: mg/L		
Arsenic	0.0648		0.00145	0.004	1	02/16/10 13:06	RJD	3458587
Lead	0.00357		0.000137	0.001	1	02/16/10 13:06	RJD	3458587
Manganese	5.19		9.14E-05	0.002	1	02/15/10 19:37	RJD	3457682
Nickel	0.0187		0.000678	0.002	1	02/15/10 19:37	RJD	3457682
Thallium	ND		0.000147	0.002	1	02/16/10 13:06	RJD	3458587

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
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SCOTT, LA 70583
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Client Sample ID: BA-03A **Collected:** 02/10/2010 15:26 **SPL Sample ID:** 10020428-28

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:09	RJD	3458588
Lead	ND		0.000137	0.001	1	02/16/10 13:09	RJD	3458588
Manganese	0.0238		9.14E-05	0.002	1	02/15/10 19:40	RJD	3457683
Nickel	ND		0.000678	0.002	1	02/15/10 19:40	RJD	3457683
Thallium	ND		0.000147	0.002	1	02/16/10 13:09	RJD	3458588

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: BA-03 **Collected:** 02/10/2010 15:57 **SPL Sample ID:** 10020428-29

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Lead	0.146		0.000137	0.001	1	02/16/10 13:12	RJD	3458589
Manganese	2.2		9.14E-05	0.002	1	02/15/10 19:43	RJD	3457684
Nickel	0.0898		0.000678	0.002	1	02/15/10 19:43	RJD	3457684
Thallium	ND		0.000147	0.002	1	02/16/10 13:12	RJD	3458589

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B Units: mg/L**			
Arsenic	0.015	J	0.00797	0.02	1	02/19/10 22:07	SVW	3464474

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

LAFAYETTE LABORATORY
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Client Sample ID: MW-02 **Collected:** 02/11/2010 10:20 **SPL Sample ID:** 10020428-30

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.0015		0.000137	0.001	1	02/16/10 13:17	RJD	3458591
Manganese	0.728		9.14E-05	0.002	1	02/15/10 19:45	RJD	3457685
Nickel	0.0775		0.000678	0.002	1	02/15/10 19:45	RJD	3457685
Thallium	ND		0.000147	0.002	1	02/16/10 13:17	RJD	3458591

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	ND		0.00797	0.02	1	02/19/10 22:12	SVW	3464475

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: MW-01 **Collected:** 02/11/2010 10:53 **SPL Sample ID:** 10020428-31

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.00389	J	0.000687	0.005	5	02/16/10 13:31	RJD	3458595
Manganese	3.57		9.14E-05	0.002	1	02/15/10 19:54	RJD	3457688
Nickel	0.15		0.000678	0.002	1	02/15/10 19:54	RJD	3457688
Thallium	ND		0.000735	0.01	5	02/16/10 13:31	RJD	3458595

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	0.0792		0.00797	0.02	1	02/19/10 22:17	SVW	3464476

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DUPLICATE #1 **Collected:** 02/09/2010 0:00 **SPL Sample ID:** 10020428-32

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:36	RJD	3458597
Lead	0.0153		0.000137	0.001	1	02/16/10 13:36	RJD	3458597
Manganese	0.0762		9.14E-05	0.002	1	02/15/10 19:56	RJD	3457689
Nickel	0.00139	J	0.000678	0.002	1	02/15/10 19:56	RJD	3457689
Thallium	ND		0.000147	0.002	1	02/16/10 13:36	RJD	3458597

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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(337)237-4775

Client Sample ID: DUPLICATE #2 **Collected:** 02/10/2010 0:00 **SPL Sample ID:** 10020428-33

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Lead	0.000508	J	0.000137	0.001	1	02/16/10 13:39	RJD	3458598
Manganese	1.43		9.14E-05	0.002	1	02/15/10 19:59	RJD	3457690
Nickel	0.0326		0.000678	0.002	1	02/15/10 19:59	RJD	3457690
Thallium	ND		0.000147	0.002	1	02/16/10 13:39	RJD	3458598

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

TOTAL METALS BY METHOD 6010B - WATER					**MCL**	**SW6010B Units: mg/L**		
Arsenic	ND		0.00797	0.02	1	02/19/10 22:23	SVW	3464477

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DUPLICATE #3 **Collected:** 02/10/2010 0:00 **SPL Sample ID:** 10020428-34

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL				**MCL**	**SW6020 Units: mg/L**			
Arsenic	ND		0.00145	0.004	1	02/16/10 13:41	RJD	3458599
Lead	ND		0.000137	0.001	1	02/16/10 13:41	RJD	3458599
Manganese	0.00171	J	9.14E-05	0.002	1	02/15/10 20:02	RJD	3457691
Nickel	ND		0.000678	0.002	1	02/15/10 20:02	RJD	3457691
Thallium	ND		0.000147	0.002	1	02/16/10 13:41	RJD	3458599

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

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Client Sample ID: DUPLICATE #4 **Collected:** 02/10/2010 0:00 **SPL Sample ID:** 10020428-35

Site: DELATTE METALS

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
METALS BY METHOD 6020 (ICP/MS), TOTAL					**MCL**	**SW6020 Units: mg/L**		
Arsenic	ND		0.00145	0.004	1	02/16/10 13:44	RJD	3458600
Lead	0.000184	J	0.000137	0.001	1	02/16/10 13:44	RJD	3458600
Manganese	0.0259		9.14E-05	0.002	1	02/15/10 20:04	RJD	3457692
Nickel	ND		0.000678	0.002	1	02/15/10 20:04	RJD	3457692
Thallium	ND		0.000147	0.002	1	02/16/10 13:44	RJD	3458600

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	02/12/2010 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Method Detection Limit
J - Estimated Value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B/V - Analyte detected in the associated Method Blank above Rep.Limit
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87095

Method Blank

RunID: ICPDV_100219D-3464445 Units: mg/L
Analysis Date: 02/19/2010 19:32 Analyst: SVW
PreparationDate: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00797

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-02A	BA-09
10020428-13A	MW-06
10020428-20A	BA-01

Laboratory Control Sample (LCS)

RunID: ICPDV_100219D-3464446 Units: mg/L
Analysis Date: 02/19/2010 19:37 Analyst: SVW
PreparationDate: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1144	114.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-08
RunID: ICPDV_100219D-3464449 Units: mg/L
Analysis Date: 02/19/2010 19:52 Analyst: SVW
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.1176	117.6		0.1	0.1121	112.1		4.821		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87095-I

Method Blank

RunID: ICPMS_100215A-3457632 Units: mg/L
Analysis Date: 02/15/2010 17:21 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00145
Lead	ND		0.001	0.000137
Manganese	0.000277	J	0.002	0.0000914
Nickel	ND		0.002	0.000678
Thallium	ND		0.002	0.000147

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-01A	BA-09A
10020428-02A	BA-09
10020428-03A	MW-04
10020428-04A	WW-09
10020428-05A	WW-04
10020428-06A	(b) (6) WELL
10020428-07A	BC-03
10020428-08A	BC-07
10020428-09A	DW-04
10020428-10A	BC-19
10020428-11A	BC-25
10020428-12A	MW-03
10020428-13A	MW-06
10020428-14A	BB-01
10020428-15A	SOUTH WELL
10020428-16A	BC-17
10020428-17A	NORTH WELL
10020428-18A	BC-21R
10020428-20A	BA-01

Laboratory Control Sample (LCS)

RunID: ICPMS_100215A-3457633 Units: mg/L
Analysis Date: 02/15/2010 17:23 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09557	95.57		80	120
Lead	0.1000	0.1105	110.5		80	120
Manganese	0.1000	0.09684	96.84		80	120
Nickel	0.1000	0.09450	94.50		80	120
Thallium	0.1000	0.1094	109.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 10020428
Method: SW6020 **Lab Batch ID:** 87095-I

Sample Spiked: 10020428-08
RunID: ICPMS_100215A-3457636 Units: mg/L
Analysis Date: 02/15/2010 17:31 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.08697	86.97		0.1	0.07762	77.62		11.35		20	75	125
Lead	0.0001632	J	0.1	0.09341	93.24		0.1	0.08222	82.05		12.74		20	75	125
Manganese	0.01288	B	0.1	0.09721	84.33		0.1	0.08531	72.43	*	13.04		20	75	125
Nickel	0.0007827	J	0.1	0.07987	79.08		0.1	0.07132	70.54	*	11.30		20	75	125
Thallium	0.0002199	J	0.1	0.09135	91.13		0.1	0.08192	81.70		10.88		20	75	125

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 10020428-08
RunID: ICPMS_100215A-3457638 Units: mg/L
Analysis Date: 02/15/2010 17:37 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Manganese	0.0129	0.5	0.4511	87.65	0.5	0.4831	94.04	6.840	20	75	125
Nickel	0.000783	0.5	0.4317	86.19	0.5	0.4585	91.54	6.013	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 10020428
Method: SW6020 **Lab Batch ID:** 87096

Method Blank

RunID: ICPDV_100219D-3464462 Units: mg/L
Analysis Date: 02/19/201021:07 Analyst: SVW
PreparationDate: 02/12/201017:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00797

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-22A	PW-04
10020428-23A	DW-02
10020428-29A	BA-03
10020428-30A	MW-02
10020428-31A	MW-01
10020428-33A	DUPLICATE #2

Laboratory Control Sample (LCS)

RunID: ICPDV_100219D-3464463 Units: mg/L
Analysis Date: 02/19/201021:12 Analyst: SVW
PreparationDate: 02/12/201017:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1170	117.0		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-19
RunID: ICPDV_100219D-3464466 Units: mg/L
Analysis Date: 02/19/201021:27 Analyst: SVW
Preparation Date: 02/12/201017:00 Prep By: SA Method SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.01395	J	0.1	0.1239	109.9		0.1	0.1151	101.2		7.306		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87096-I

Method Blank

RunID: ICPMS_100215A-3457666 Units: mg/L
Analysis Date: 02/15/2010 18:55 Analyst: RJD
PreparationDate: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00145
Lead	ND		0.001	0.000137
Manganese	0.000279	J	0.002	0.0000914
Nickel	ND		0.002	0.000678
Thallium	ND		0.002	0.000147

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-19A	BA-01A
10020428-21A	DW-03
10020428-22A	PW-04
10020428-23A	DW-02
10020428-24A	BA-05A
10020428-25A	BA-05
10020428-26A	MW-A
10020428-27A	DW-01
10020428-28A	BA-03A
10020428-29A	BA-03
10020428-30A	MW-02
10020428-31A	MW-01
10020428-32A	DUPLICATE #1
10020428-33A	DUPLICATE #2
10020428-34A	DUPLICATE #3
10020428-35A	DUPLICATE #4

Laboratory Control Sample (LCS)

RunID: ICPMS_100215A-3457667 Units: mg/L
Analysis Date: 02/15/2010 18:57 Analyst: RJD
PreparationDate: 02/12/2010 17:00 Prep By: SA Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09538	95.38		80	120
Lead	0.1000	0.1110	111.0		80	120
Manganese	0.1000	0.09043	90.43		80	120
Nickel	0.1000	0.08917	89.17		80	120
Thallium	0.1000	0.1114	111.4		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-19
RunID: ICPMS_100215A-3457670 Units: mg/L
Analysis Date: 02/15/2010 19:05 Analyst: RJD
Preparation Date: 02/12/2010 17:00 Prep By: SA Method SW3010A

Qualifiers:

ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Metals by Method 6020 (ICP/MS), Total **WorkOrder:** 10020428
Method: SW6020 **Lab Batch ID:** 87096-I

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.004168		0.1	0.08991	85.74		0.1	0.08652	82.35		3.849		20	75	125
Lead	0.0003388	J	0.1	0.09556	95.22		0.1	0.09022	89.88		5.752		20	75	125
Manganese	0.006595	B	0.1	0.08318	76.58		0.1	0.08147	74.88	*	2.073		20	75	125
Nickel	ND		0.1	0.07623	76.23		0.1	0.07348	73.48	*	3.662		20	75	125
Thallium	0.0002367	J	0.1	0.09355	93.32		0.1	0.08961	89.38		4.304		20	75	125

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

SampleSpiked: 10020428-19
RunID: ICPMS_100215A-3457672 Units: mg/L
Analysis Date: 02/15/2010 19:11 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Manganese	0.0066	0.5	0.4767	94.02	0.5	0.4784	94.36	0.3517	20	75	125
Nickel	ND	0.5	0.4642	92.84	0.5	0.4719	94.39	1.652	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87103

Method Blank

RunID: ICPDV_100219D-3464482 Units: mg/L
Analysis Date: 02/19/2010 22:58 Analyst: SVW
PreparationDate: 02/12/2010 14:00 Prep By: SA Method SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-20B	BA-01

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.02	0.00797

Laboratory Control Sample (LCS)

RunID: ICPDV_100219D-3464483 Units: mg/L
Analysis Date: 02/19/2010 23:03 Analyst: SVW
PreparationDate: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.1095	109.5		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-20
RunID: ICPDV_100219D-3464486 Units: mg/L
Analysis Date: 02/19/2010 23:18 Analyst: SVW
Preparation Date: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	0.008288	J	0.1	0.1158	107.5		0.1	0.1222	113.9		5.344		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87103-I

Method Blank

RunID: ICPMS_100216A-3458553 Units: mg/L
Analysis Date: 02/16/2010 10:33 Analyst: RJD
PreparationDate: 02/12/2010 14:00 Prep By: SA Method SW3005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10020428-20B	BA-01
10020428-27B	DW-01

Analyte	Result	Qual	Rep Limit	MDL
Arsenic	ND		0.004	0.00145
Lead	ND		0.001	0.000137
Manganese	0.00022	J	0.002	0.0000914
Nickel	0.00877		0.009	0.000678
Thallium	ND		0.002	0.000147

Laboratory Control Sample (LCS)

RunID: ICPMS_100216A-3458554 Units: mg/L
Analysis Date: 02/16/2010 10:35 Analyst: RJD
PreparationDate: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	0.1000	0.09143	91.43		80	120
Lead	0.1000	0.09884	98.84		80	120
Manganese	0.1000	0.1016	101.6		80	120
Nickel	0.1000	0.09937	99.37		80	120
Thallium	0.1000	0.09885	98.85		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 10020428-20
RunID: ICPMS_100216A-3458557 Units: mg/L
Analysis Date: 02/16/2010 10:45 Analyst: RJD
PreparationDate: 02/12/2010 14:00 Prep By: SA Method SW3005

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	ND		0.1	0.05396	53.96	*	0.1	0.05466	54.66	*	1.278		20	75	125
Lead	ND		0.1	0.08715	87.15		0.1	0.09142	91.42		4.783		20	75	125
Manganese	1.587	B	0.1	1.634	N/C		0.1	1.743	N/C		N/C		20	75	125
Nickel	0.05464	B	0.1	0.1314	76.73		0.1	0.1374	82.72		4.457		20	75	125
Thallium	ND		0.1	0.08616	86.16		0.1	0.09094	90.94		5.404		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SEMS, INC.

N-207-0006

Analysis: Dissolved Metals by ICP/MS
Method: SW6020
WorkOrder: 10020428
Lab Batch ID: 87103-I

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

SampleSpiked: 10020428-20
RunID: ICPMS_100216A-3458559 Units: mg/L
Analysis Date: 02/16/2010 10:50 Analyst: RJD

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	ND	0.5	0.4266	85.31	0.5	0.4495	89.91	5.242	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Sample Receipt Checklist

Workorder:	10020428	Received By:	HJC
Date and Time Received:	2/11/2010 5:20:00 PM	Carriername:	SPL-Driver-Other
Temperature:	4°C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present ☐
2.	Custody seals intact on shippping container/cooler?	Yes	☐	No	☐	Not Present ☑
3.	Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present ☑
4.	Chain of custody present?	Yes	☑	No	☐	
5.	Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
6.	Chain of custody agrees with sample labels?	Yes	☑	No	☐	
7.	Samples in proper container/bottle?	Yes	☑	No	☐	
8.	Sample containers intact?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test?	Yes	☑	No	☐	
10.	All samples received within holding time?	Yes	☑	No	☐	
11.	Container/Temp Blank temperature in compliance?	Yes	☑	No	☐	
12.	Water - VOA vials have zero headspace?	Yes	☐	No	☐	VOA Vials Not Present ☑
13.	Water - Preservation checked upon receipt (except VOA*)?	Yes	☑	No	☐	NotApplicable ☐

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 302978

1002048

page 1 of 4

Client Name: SEMS, Inc.
Address: 3801 N. Causeway Blvd, suite 209
City Metairie State LA Zip 70002
Phone/Fax: 504-342-2340 / 504-342-2543
Client Contact: Jesse Hoppes Email: jhoppes@semsinc.net
Project Name/No.: 207-0006
Site Name: Delatte Metals Superfund Site
Site Location: Ponchatoula, LA
Invoice To: SEMS, Inc. Ph: 504-342-2340

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: Total Metals	Dissolved Metals	MS/MSD						
BA-09A	2/8/10	1053		X	W	P	X	2	1	X								0
BA-09	2/8/10	1121		X	W	P	X	2	1	X								1
MW-04	2/8/10	1151		X	W	P	X	2	1	X								1
WW-09	2/8/10	1325		X	W	P	X	2	1	X								1
WW-04	2/8/10	1420		X	W	P	X	2	1	X								1
(b) (6) Well	2/8/10	1430		X	W	P	X	2	1	X								1
BC-03	2/8/10	1509		X	W	P	X	2	1	X								1
BC-07	2/9/10	819		X	W	P	X	2	3	X		X						3
DW-04	2/9/10	848		X	W	P	X	2	1	X								1
BC-19	2/9/10	911		X	W	P	X	2	1	X								1

Client/Consultant Remarks:
Run Arsenic, Thallium, Lead, Nickel, & Manganese

Laboratory remarks: COC on cooler, SPL Project (30)

Intact? Y N
Ice? Y N
Temp: 4.3

Requested TAT

- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax Email PDF
Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

	date	time		
1. Relinquished by Sampler:	2/11/10	1315	2. Received by:	
3. Relinquished by:	2/11/10	1430	4. Received by:	
5. Relinquished by:	2-11-10	1700	6. Received by Laboratory:	

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 302977

page 2 of 4

Client Name: SEMS, Inc.
Address: 3801 N. Causeway Blvd, Suite 209
City Metairie State LA Zip 70002
Phone/Fax: 504-342-2340 / 504-342-2543
Client Contact: Jesse Hoppes Email: jhoppes@semsinc.net
Project Name/No.: 207-0006
Site Name: Delatte Metals Superfund site
Site Location: Ponchatoula, LA
Invoice To: SEMS, Inc. Ph: 504-342-2340

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Total Metals	Dissolved Metals (field filtered)	MS/MSD						
BC-25	2/9/10	~~923~~ 943		X	W	P	X	2	1	X								1
MW-03	2/9/10	1006		X	W	P	X	2	1	X								1
MW-06	2/9/10	1101		X	W	P	X	2	1	X								1
BB-01	2/9/10	1150		X	W	P	X	2	1	X								1
South Well	2/9/10	1225		X	W	P	X	2	1	X								1
BC-17	2/9/10	1250		X	W	P	X	2	1	X								1
North Well	2/9/10	1255		X	W	P	X	2	1	X								1
BC-21R	2/9/10	1319		X	W	P	X	2	1	X								1
BA-01A	2/9/10	1353		X	W	P	X	2	3	X		X						3
BA-01	2/9/10	1419		X	W	P	X	2	2	X	X							2

Client/Consultant Remarks: Run Arsenic, Thallium, Lead, Nickel & Manganese

Laboratory remarks: CS on cooler, SPL Driver, 3W

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 4.0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☒ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/11/10	1315	2. Received by: [signature]
3. Relinquished by: [signature]	2/11/10	1430	4. Received by: [signature]
5. Relinquished by: [signature]	2-11-10	1720	6. Received by Laboratory: [signature]

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Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☑ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

00053

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 302965

page 3 of 4

Client Name: SEMS, Inc.
Address: 3801 N. Causeway Blvd. Suite 209
City Metairie State LA Zip 70002
Phone/Fax: 504-342-2340 / 504-342-2543
Client Contact: Jesse Hoppes Email: jhoppes@sems inc.net
Project Name/No.: 207-0006
Site Name: Delatte Metals Superfund Site
Site Location:
Invoice To: SEMS, Inc. Ph: 504-342-2340

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: Total Metals	Dissolved Metals (field filtered)							
DW-03	2/10/10	953		X	W	P	X	2	1	X								1
PW-04	2/10/10	1028		X	W	P	X	2	1	X								1
DW-02	2/10/10	1140		X	W	P	X	2	1	X								1
BA-05A	2/10/10	1203		X	W	P	X	2	1	X								1
BA-05	2/10/10	1238		X	W	P	X	2	1	X								1
MW-A	2/10/10	1413		X	W	P	X	2	1	X								1
DW-01	2/10/10	1450		X	W	P	X	2	2	X	X							2
BA-03A	2/10/10	1526		X	W	P	X	2	1	X								1
BA-03	2/10/10	1557		X	W	P	X	2	1	X								1
MW-02	2/11/10	1020		X	W	P	X	2	1	X								1

Client/Consultant Remarks: Run Arsenic, Lead, Thallium, Manganese, & Nickel

Laboratory remarks: NOKS, SPL Driver, 3W

Intact? ☒ Y ☐ N
Ice? ☒ Y ☐ N
Temp: 4.0

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☒ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	2/11/10	1315	2. Received by: [signature]
3. Relinquished by: [signature]	2/12/10	1430	4. Received by: [signature]
5. Relinquished by: [signature]	2-11-10	1720	6. Received by Laboratory: [signature]

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☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

00054

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 302979

page 4 of 4

Client Name: SEMS, Inc.

Address: 3801 N. Causeway Blvd Suite 209

City Metairie State LA Zip 70002

Phone/Fax: 504-342-2340 / 504-342-2543

Client Contact: Jesse Hoppes Email: jhoppes@semsinc.net

Project Name/No.: 207-0006

Site Name: Delatte Metals Superfund Site

Site Location: Ponchatoula, LA

Invoice To: SEMS, Inc. Ph: 504-237-8848

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other

bottle: P=plastic A=amber glass G=glass V=vial X=other

size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other

pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Number of Containers

Requested Analysis: Total Metals

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Total Metals	
MW-01	2/11/10	1053		X	W	P	X	2	1	X	1
Duplicate #1	12/9/10	—		X	W	P	X	2	1	X	1
Duplicate #2	12/10/10	—		X	W	P	X	2	1	X	1
Duplicate #3	12/10/10	—		X	W	P	X	2	1	X	1
Duplicate #4	12/10/10	—		X	W	P	X	2	1	X	1

Client/Consultant Remarks:

Laboratory remarks: NO ICS, SPL Driver. SW

Intact? Y N

Ice? Y N

Temp: 4.0

Requested TAT

- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Contract
- ☒ Standard
- ☐ Other

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒

Standard QC ☐ Level 3 QC ☐ Level 4 QC ☒ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time		
1. Relinquished by Sampler:	2/11/10	1315	2. Received by:	
3. Relinquished by:	2/11/10	1430	4. Received by:	
5. Relinquished by:	2-11-10	17:20	6. Received by Laboratory:	

00055

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☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

EPA Defined Data Qualifiers for Inorganics

The data qualifiers for inorganic parameters (metals and cyanide) are defined below. The qualifiers fall into three categories:

Concentration(C) qualifiers
Data quality (Q) qualifiers
Analysis method (M) qualifiers

Concentration Qualifiers:

J -- Indicates that the analyte was detected at a level greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U -- Indicates that the analyte was analyzed but not detected at a concentration greater than the MDL for the analyte. For each sample, the MDL or PQL reported on the Form 1-IN must be corrected for dilution factors and/or for percent moisture (soils).

Data Quality Qualifiers:

E -- Indicates analyte(s) with a reported value that is considered as "estimated" because of the presence of interference. Typically, this qualifier is used in cases in which the RPD between the ICP serial dilution results on Form 9 differs from the initial result on Form 1 by more than 10 percent. (The E flag does not apply if the sample concentration is less than 50 times the MDL). Whenever an "E" flag is used, a narrative explanation must accompany the SDG or the Form 1-IN depending on whether the problem is isolated or applies to all samples.

N -- Indicates spike sample recovery was not within the 75% - 125% recovery control limits. A post-digestion or post-distillation spike for the target analyte that failed must accompany all data flagged with an "N" except for graphite furnace metals or silver.

* -- Indicates that the duplicate analysis (Form 5 or 6) was not within the +/-20% RPD.

00056

EPA Defined Data Qualifiers for Inorganics (cont.)

Analysis Method Qualifiers.

P: ICP-AES
MS: ICP-MS
CV: Manual Cold Vapor Atomic Absorption (AA)
AV: Automated Cold Vapor AA
AS: Semi-Automated Spectrophotometric
C: Manual Spectrophotometric

EPA DEFINED QUALIFIERS
ORGANIC ANALYSES

U - Indicates that the compound was analyzed for but not detected above the Practical Quantitation Limit (PQL). For each sample, the PQL must be corrected for dilution and percent moisture (solid matrices). For example, if the raw PQL is 5 ppb and the compound was not detected on the quantitation report, the result (assuming a moisture of 0 percent and a dilution factor of 1) is reported as 5U.

J - Indicates an estimated value. This flag is used under the following circumstances: **1)** when estimating a concentration for tentatively identified compounds where 1:1 response is assumed, **2)** when the mass spectra and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL), **3)** when the retention time data indicate the presence of a compound that meets the Pesticide/Aroclor identification criteria and the result is less than PQL but greater than zero. **NOTE:** the **J** code is not used and the compound is not reported as being identified for Pesticide/Aroclor results less than the PQL, if the technical judgement of the pesticide residue analysis expert determines that the peak used for compound identification resulted from instrument noise or other interferences (column bleed, solvent contamination, etc.). For example, if the sample quantitation limit is 1 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the **U** flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectra library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the **N** code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 40% difference for detected concentrations between the two GC columns. The lower of the two values is reported and flagged with this code.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If the GC/MS confirmation was attempted, but was unsuccessful do not use this flag. The laboratory shall use another laboratory defined flag for explanation.

B - This flag is used to indicate an analyte that is detected in the method blank. It indicates possible/probable blank contamination. It warns the data users to take appropriate actions. This flag will be used, if required, for both positively identified and tentatively identified target compounds. This flag is applied to the results for the appropriate compounds on all samples associated with the blank.

EPA DEFINED QUALIFIERS
ORGANIC ANALYSES
(CONT.)

E - This flag identifies compounds with concentrations that exceed the calibration range of the instrument for that specific analysis. If the response for one or more of the compounds is greater than full scale, the sample must be diluted and reanalyzed. Compounds with such responses must be flagged with "**E**". If the response for any compound that was flagged with **"E"** falls below the calibration range in the second analysis, then the results for the second analysis are flagged "**D**". A "**DL**" suffix is added to the sample number of the diluted sample and data for both analyses are reported.

D - This flag identifies all compounds identified in an analysis at a secondary dilution. If a sample or extract is reanalyzed at a higher dilution, the concentration shall be flagged "**D**". The "**DL**" suffix shall be added to the sample number for the secondary dilution. This flag alerts the user that discrepancies between the reported concentrations may be due to the dilution of the sample or extract.

A - This flag indicates that the TIC is suspected to be aldol condensation product.

X - Compound presumed not present based on the absence of a spectral match utilizing reference library NBS75K.

Other - Other flags may be required to properly define results. If used, they must be defined in the case narrative and are limited to "X" , "Y", and "Z".

INORGANICS LEVEL IV PACKAGE
10020428 NARRATIVE

Analytical measurements less than the laboratory reporting limit (PQL) but greater than the laboratory method detection limit (MDL) are presented as estimate quantities which are indicated with a "J" in the qualifier field on this data report.

Preparation Batch: 87095

Recovery of manganese and nickel in the matrix spike and matrix spike duplicate analyses of sample BC-07; SPL sample ID: 10020428-08A, as listed on Form V(a)-IN exceeded the control limit acceptance criteria. Field sample results affected by this non-conformance are not noted with "N" in the quality control field on this data report.

Preparation Batch: 87096

Recovery of manganese and nickel in the matrix spike and matrix spike duplicate analyses of sample BA-01A; SPL sample ID: 10020428-19A, as listed on Form V(a)-IN exceeded the control limit acceptance criteria. Field sample results affected by this non-conformance are not noted with "N" in the quality control field on this data report.

Preparation Batch: 87103

Recovery of arsenic in the matrix spike and matrix spike duplicate analyses of sample BA-01; SPL sample ID: 10020428-20B, as listed on Form V(a)-IN exceeded the control limit acceptance criteria. Field sample results affected by this non-conformance are not noted with "N" in the quality control field on this data report.

Reviewed By: Laurie B Petko

Date: 2-25-10

METALS CLP-LIKE FORMS

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 10020428

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	10020428-20	2/9/10 14:19	2/11/10 17:20	Water
BA-03	10020428-29	2/10/10 15:57	2/11/10 17:20	Water
BA-09	10020428-02	2/8/10 11:21	2/11/10 17:20	Water
DUPLICATE #2	10020428-33	2/10/10 0:00	2/11/10 17:20	Water
DW-02	10020428-23	2/10/10 11:40	2/11/10 17:20	Water
MW-01	10020428-31	2/11/10 10:53	2/11/10 17:20	Water
MW-02	10020428-30	2/11/10 10:20	2/11/10 17:20	Water
MW-06	10020428-13	2/9/10 11:01	2/11/10 17:20	Water
PW-04	10020428-22	2/10/10 10:28	2/11/10 17:20	Water

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: Keran Lafleur

Name: KERAN LAFLEUR

Date: 2-25-10

Title: METALS SUPERVISOR

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-09

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	10020428-02A
Matrix:	Water	Date Received:	2/11/2010 5:20:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0452		0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-06

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-13A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method: STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00797	U	0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-01

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	10020428-20A
Matrix:	Water	Date Received:	2/11/2010 5:20:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0172	J	0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
PW-04

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	10020428-22A
Matrix:	Water	Date Received:	2/11/2010 5:20:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00797	U	0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-02

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-23A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method: STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0915		0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-03

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-29A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method: STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0150	J	0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-02

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-30A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method: STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00797	U	0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-01

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	10020428-31A
Matrix:	Water	Date Received:	2/11/2010 5:20:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0792		0.00797	0.02		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #2

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	10020428-33A
Matrix:	Water	Date Received:	2/11/2010 5:20:00PM
Level:	LOW	Total/Dissolved:	Total
% Moisture:	0	Prep Method:	STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00797	U	0.00797	0.02		P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 11:03	Sample Type:	CCV
RunID:	ICPDV_100219D-3464405	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	480.0	96.0	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 18:57	Sample Type:	CCV
RunID:	ICPDV_100219D-3464441	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	508.9	101.8	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 20:02	Sample Type:	CCV
RunID:	ICPDV_100219D-3464451	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	501.5	100.3	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 20:37	Sample Type:	CCV
RunID:	ICPDV_100219D-3464458	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	502.4	100.5	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 21:37	Sample Type:	CCV
RunID:	ICPDV_100219D-3464468	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	502.5	100.5	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 22:28	Sample Type:	CCV
RunID:	ICPDV_100219D-3464478	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	510.0	102.0	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/19/10 10:47	Sample Type:	ICV
RunID:	ICPDV_100219D-3464403	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	1000	922.7	92.3	P	90	110

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: ICB

Matrix: Water

Analysis Date: 2/19/10 10:58

Run ID: ICPDV_100219D-3464404

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-87095
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	2/19/10 19:32		
Run ID:	ICPDV_100219D-3464445		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00797	U	0.00797	0.02	P	mg/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-87096
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	2/19/10 21:07		
Run ID:	ICPDV_100219D-3464462		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00797	U	0.00797	0.02	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/19/10 11:13

Run ID: ICPDV_100219D-3464406

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	2/19/10 19:07		
Run ID:	ICPDV_100219D-3464442		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	2/19/10 20:07		
Run ID:	ICPDV_100219D-3464452		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCB
Matrix:	Water		
Analysis Date:	2/19/10 20:43		
Run ID:	ICPDV_100219D-3464459		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/19/10 21:42

Run ID: ICPDV_100219D-3464469

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/19/10 22:33

Run ID: ICPDV_100219D-3464479

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPDV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/19/2010 11:18 Sol. A			02/19/2010 11:22 Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	518689	103.7		518760	103.8		80-120	80-120
Antimony	0	10000	0	0		10415.1	104.2		-	80-120
Arsenic	0	10000	14.7225	0		10509.9	105.1		-	80-120
Barium	0	3000	8.58061	0		2899.7	96.66		-	80-120
Beryllium	0	1000	2.74261	0		1037.4	103.7		-	80-120
Cadmium	0	3000	12.2	0		3308.2	110.3		-	80-120
Calcium	500000	500000	497027	99.4		493947	98.79		80-120	80-120
Chromium	0	3000	19.6	0		2991	99.7		-	80-120
Cobalt	0	3000	0	0		2821.5	94.05		-	80-120
Copper	0	3000	0	0		3230.4	107.7		-	80-120
Iron	500000	500000	458621	91.72		456040	91.21		80-120	80-120
Lead	0	10000	3.70924	0		9565.2	95.65		-	80-120
Magnesium	500000	500000	512467	102.5		509287	101.9		80-120	80-120
Manganese	0	2000	0	0		1977.1	98.85		-	80-120
Molybdenum	0	3000	0	0		3001.8	100.1		-	80-120
Nickel	0	3000	0	0		2795.1	93.17		-	80-120
Selenium	0	5000	0	0		5246.9	104.9		-	80-120
Silver	0	3000	23.8	0		2801	93.37		-	80-120
Thallium	0	10000	0	0		9666.6	96.67		-	80-120
Vanadium	0	3000	0	0		3100.2	103.3		-	80-120
Zinc	0	3000	0	0		2754.4	91.82		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPDV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/19/2010 19:12			02/19/2010 19:17				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	522805	104.6		519552	103.9		80-120	80-120
Antimony	0	10000	0	0		10430.9	104.3		-	80-120
Arsenic	0	10000	11.652	0		10775.2	107.8		-	80-120
Barium	0	3000	10.7	0		2950.7	98.36		-	80-120
Beryllium	0	1000	2.35082	0		1054.4	105.4		-	80-120
Cadmium	0	3000	12.6	0		3311	110.4		-	80-120
Calcium	500000	500000	508267	101.7		502838	100.6		80-120	80-120
Chromium	0	3000	20.8	0		3028.5	100.9		-	80-120
Cobalt	0	3000	0	0		2844.8	94.83		-	80-120
Copper	0	3000	0	0		3229.1	107.6		-	80-120
Iron	500000	500000	465710	93.14		461482	92.3		80-120	80-120
Lead	0	10000	0	0		9676.1	96.76		-	80-120
Magnesium	500000	500000	525379	105.1		519749	104		80-120	80-120
Manganese	0	2000	0	0		2010	100.5		-	80-120
Molybdenum	0	3000	0	0		3028	100.9		-	80-120
Nickel	0	3000	0	0		2846.5	94.88		-	80-120
Selenium	0	5000	0	0		5274.8	105.5		-	80-120
Silver	0	3000	19.4	0		2818.6	93.95		-	80-120
Thallium	0	10000	0	0		9554.3	95.54		-	80-120
Vanadium	0	3000	18.8023	0		3132.6	104.4		-	80-120
Zinc	0	3000	0	0		2814.9	93.83		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPDV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/19/2010 20:47			02/19/2010 20:53				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	524170	104.8		521151	104.2		80-120	80-120
Antimony	0	10000	0	0		10470.3	104.7		-	80-120
Arsenic	0	10000	0	0		10784.9	107.8		-	80-120
Barium	0	3000	11.1	0		2955.1	98.5		-	80-120
Beryllium	0	1000	2.24888	0		1060	106		-	80-120
Cadmium	0	3000	13	0		3317.9	110.6		-	80-120
Calcium	500000	500000	511771	102.4		506122	101.2		80-120	80-120
Chromium	0	3000	20.7	0		3031.6	101.1		-	80-120
Cobalt	0	3000	0	0		2854.6	95.15		-	80-120
Copper	0	3000	0	0		3219.6	107.3		-	80-120
Iron	500000	500000	470580	94.12		462533	92.51		80-120	80-120
Lead	0	10000	4.09532	0		9714.9	97.15		-	80-120
Magnesium	500000	500000	532022	106.4		522021	104.4		80-120	80-120
Manganese	0	2000	0	0		2014.6	100.7		-	80-120
Molybdenum	0	3000	0	0		3041.6	101.4		-	80-120
Nickel	0	3000	0	0		2855.2	95.17		-	80-120
Selenium	0	5000	0	0		5314.5	106.3		-	80-120
Silver	0	3000	19	0		2837.7	94.59		-	80-120
Thallium	0	10000	0	0		10022.2	100.2		-	80-120
Vanadium	0	3000	23.4	0		3132	104.4		-	80-120
Zinc	0	3000	0	0		2830.1	94.34		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPDV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/19/2010 22:38			02/19/2010 22:43				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	525664	105.1		521817	104.4		80-120	80-120
Antimony	0	10000	0	0		10592.1	105.9		-	80-120
Arsenic	0	10000	8.17272	0		10856.3	108.6		-	80-120
Barium	0	3000	10.1	0		2992.6	99.75		-	80-120
Beryllium	0	1000	2.38438	0		1063.5	106.4		-	80-120
Cadmium	0	3000	13.4	0		3351	111.7		-	80-120
Calcium	500000	500000	514581	102.9		508899	101.8		80-120	80-120
Chromium	0	3000	20.7	0		3072.1	102.4		-	80-120
Cobalt	0	3000	0	0		2887.3	96.24		-	80-120
Copper	0	3000	0	0		3252.7	108.4		-	80-120
Iron	500000	500000	474579	94.92		468878	93.78		80-120	80-120
Lead	0	10000	5.65671	0		9844.3	98.44		-	80-120
Magnesium	500000	500000	536515	107.3		528963	105.8		80-120	80-120
Manganese	0	2000	0	0		2035	101.8		-	80-120
Molybdenum	0	3000	0	0		3070.4	102.3		-	80-120
Nickel	0	3000	0	0		2892.4	96.41		-	80-120
Selenium	0	5000	0	0		5375.7	107.5		-	80-120
Silver	0	3000	21.9	0		2880.8	96.03		-	80-120
Thallium	0	10000	0	0		10097.7	101		-	80-120
Vanadium	0	3000	27	0		3181.7	106.1		-	80-120
Zinc	0	3000	0	0		2881.3	96.04		-	80-120

LABORATORY CONTROL SAMPLE

LCS-87095

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.1144	114.4	80 - 120					

00092

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-87096

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.1170	117.0	80 - 120					

00093

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Instrument ID Number: ICPDV Date: 3/26/2009

6010_W

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic	188.980		0.020	0.0080	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
10020428-20A	BA-01	2/12/10	0	50	50
10020428-02A	BA-09	2/12/10	0	50	50
LCS-87095	LCS-87095	2/12/10	0	50	50
MBLK-87095	MBLK-87095	2/12/10	0	50	50
10020428-13A	MW-06	2/12/10	0	50	50

PREPARATION LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
10020428-29A	BA-03	2/12/10	0	50	50
10020428-33A	DUPLICATE #2	2/12/10	0	50	50
10020428-23A	DW-02	2/12/10	0	50	50
LCS-87096	LCS-87096	2/12/10	0	50	50
MBLK-87096	MBLK-87096	2/12/10	0	50	50
10020428-31A	MW-01	2/12/10	0	50	50
10020428-30A	MW-02	2/12/10	0	50	50
10020428-22A	PW-04	2/12/10	0	50	50

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Method: SW6010B

Instrument ID: ICPDV Total/Dissolved: Total

Start Date: 2/19/2010 End Date: 2/19/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	10:47				X			X		X				X							X			X				X	X
ICB	ICB	1	10:58				X			X		X				X							X			X				X	X
CCV	CCV	1	11:03				X			X		X				X							X			X				X	X
CCB	CCB	1	11:13				X			X		X				X							X			X				X	X
ICSA	ICSA	1	11:18		X		X			X	X	X			X	X	X						X			X				X	X
ICSAB	ICSAB	1	11:22		X		X			X	X	X			X	X	X						X			X				X	X
CCV	CCV	1	18:57				X			X		X				X							X			X				X	X
CCB	CCB	1	19:07				X			X		X				X							X			X				X	X
ICSA	ICSA	1	19:12		X		X			X	X	X			X	X	X						X			X				X	X
ICSAB	ICSAB	1	19:17		X		X			X	X	X			X	X	X						X			X				X	X
MBLK-87095	MBLK-87095	1	19:32				X																										
LCS-87095	LCS-87095	1	19:37				X																										
10020428-08Z	ZZZZZZ	1	19:42																														
10020428-08ASD	ZZZZZZ	5	19:47																														
10020428-08AMS	ZZZZZZ	1	19:52																														
10020428-08AMSD	ZZZZZZ	1	19:57																														
CCV	CCV	1	20:02				X			X		X				X							X			X				X	X
CCB	CCB	1	20:07				X			X		X				X							X			X				X	X
10020428-08APDS	ZZZZZZ	5	20:12																														
10020428-08APDSD	ZZZZZZ	5	20:17																														
10020428-13A	MW-06	1	20:22				X																										
10020428-20A	BA-01	1	20:27				X																										
10020428-02A	BA-09	1	20:32				X																										
CCV	CCV	1	20:37				X			X		X				X							X			X				X	X
CCB	CCB	1	20:43				X			X		X				X							X			X				X	X
ICSA	ICSA	1	20:47		X		X			X	X	X			X	X	X						X			X				X	X
ICSAB	ICSAB	1	20:53		X		X			X	X	X			X	X	X						X			X				X	X
MBLK-87096	MBLK-87096	1	21:07				X																										
LCS-87096	LCS-87096	1	21:12				X																										
10020428-19Z	ZZZZZZ	1	21:17																														
10020428-19ASD	ZZZZZZ	5	21:22																														

26000

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Method: SW6010B

Instrument ID: ICPDV Total/Dissolved: Total

Start Date: 2/19/2010 End Date: 2/19/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																										
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
10020428-19AMS	ZZZZZZ	1	21:27																												
10020428-19AMSD	ZZZZZZ	1	21:32																												
CCV	CCV	1	21:37				X			X		X				X							X			X				X	X
CCB	CCB	1	21:42				X			X		X				X							X			X				X	X
10020428-19APDS	ZZZZZZ	5	21:47																												
10020428-19APDSD	ZZZZZZ	5	21:52																												
10020428-22A	PW-04	1	21:57				X																								
10020428-23A	DW-02	1	22:02				X																								
10020428-29A	BA-03	1	22:07				X																								
10020428-30A	MW-02	1	22:12				X																								
10020428-31A	MW-01	1	22:17				X																								
10020428-33A	DUPLICATE #2	1	22:23				X																								
CCV	CCV	1	22:28				X			X		X				X							X			X				X	X
CCB	CCB	1	22:33				X			X		X				X							X			X				X	X
ICSA	ICSA	1	22:38		X		X			X	X	X			X	X	X						X			X				X	X
ICSAB	ICSAB	1	22:43		X		X			X	X	X			X	X	X						X			X				X	X

86000

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 10020428

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	10020428-20	2/9/10 14:19	2/11/10 17:20	Water

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: Keran Lafleur

Name: KERAN LAFLEUR

Date: 2-25-10

Title: METALS SUPERVISOR

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-20B

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Dissolved

Prep Method: STND

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00829	J	0.00797	0.02		P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 11:03	Sample Type:	CCV
RunID:	ICPDV_100219D-3464405	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	480.0	96.0	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 22:28	Sample Type:	CCV
RunID:	ICPDV_100219D-3464478	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	510.0	102.0	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 23:28	Sample Type:	CCV
RunID:	ICPDV_100219D-3464488	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	511.5	102.3	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/19/10 23:48	Sample Type:	CCV
RunID:	ICPDV_100219D-3464492	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	500	514.2	102.8	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/19/10 10:47	Sample Type:	ICV
RunID:	ICPDV_100219D-3464403	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	1000	922.7	92.3	P	90	110

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: ICB

Matrix: Water

Analysis Date: 2/19/10 10:58

Run ID: ICPDV_100219D-3464404

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-87103
Matrix:	Water	Total/Dissolved:	Dissolved
Analysis Date:	2/19/10 22:58		
Run ID:	ICPDV_100219D-3464482		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00797	U	0.00797	0.02	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/19/10 11:13

Run ID: ICPDV_100219D-3464406

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/19/10 22:33

Run ID: ICPDV_100219D-3464479

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/19/10 23:33

Run ID: ICPDV_100219D-3464489

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/19/10 23:53

Run ID: ICPDV_100219D-3464493

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	8.0	U	8.0	20	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPDV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/19/2010 11:18 Sol. A			02/19/2010 11:22 Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	518689	103.7		518760	103.8		80-120	80-120
Antimony	0	10000	0	0		10415.1	104.2		-	80-120
Arsenic	0	10000	14.7225	0		10509.9	105.1		-	80-120
Barium	0	3000	8.58061	0		2899.7	96.66		-	80-120
Beryllium	0	1000	2.74261	0		1037.4	103.7		-	80-120
Cadmium	0	3000	12.2	0		3308.2	110.3		-	80-120
Calcium	500000	500000	497027	99.4		493947	98.79		80-120	80-120
Chromium	0	3000	19.6	0		2991	99.7		-	80-120
Cobalt	0	3000	0	0		2821.5	94.05		-	80-120
Copper	0	3000	0	0		3230.4	107.7		-	80-120
Iron	500000	500000	458621	91.72		456040	91.21		80-120	80-120
Lead	0	10000	3.70924	0		9565.2	95.65		-	80-120
Magnesium	500000	500000	512467	102.5		509287	101.9		80-120	80-120
Manganese	0	2000	0	0		1977.1	98.85		-	80-120
Molybdenum	0	3000	0	0		3001.8	100.1		-	80-120
Nickel	0	3000	0	0		2795.1	93.17		-	80-120
Selenium	0	5000	0	0		5246.9	104.9		-	80-120
Silver	0	3000	23.8	0		2801	93.37		-	80-120
Thallium	0	10000	0	0		9666.6	96.67		-	80-120
Vanadium	0	3000	0	0		3100.2	103.3		-	80-120
Zinc	0	3000	0	0		2754.4	91.82		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPDV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/19/2010 22:38 Sol. A			02/19/2010 22:43 Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	525664	105.1		521817	104.4		80-120	80-120
Antimony	0	10000	0	0		10592.1	105.9		-	80-120
Arsenic	0	10000	8.17272	0		10856.3	108.6		-	80-120
Barium	0	3000	10.1	0		2992.6	99.75		-	80-120
Beryllium	0	1000	2.38438	0		1063.5	106.4		-	80-120
Cadmium	0	3000	13.4	0		3351	111.7		-	80-120
Calcium	500000	500000	514581	102.9		508899	101.8		80-120	80-120
Chromium	0	3000	20.7	0		3072.1	102.4		-	80-120
Cobalt	0	3000	0	0		2887.3	96.24		-	80-120
Copper	0	3000	0	0		3252.7	108.4		-	80-120
Iron	500000	500000	474579	94.92		468878	93.78		80-120	80-120
Lead	0	10000	5.65671	0		9844.3	98.44		-	80-120
Magnesium	500000	500000	536515	107.3		528963	105.8		80-120	80-120
Manganese	0	2000	0	0		2035	101.8		-	80-120
Molybdenum	0	3000	0	0		3070.4	102.3		-	80-120
Nickel	0	3000	0	0		2892.4	96.41		-	80-120
Selenium	0	5000	0	0		5375.7	107.5		-	80-120
Silver	0	3000	21.9	0		2880.8	96.03		-	80-120
Thallium	0	10000	0	0		10097.7	101		-	80-120
Vanadium	0	3000	27	0		3181.7	106.1		-	80-120
Zinc	0	3000	0	0		2881.3	96.04		-	80-120

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPDV Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/19/2010 23:58			02/20/2010 00:03				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	500000	500000	525936	105.2		522505	104.5		80-120	80-120
Antimony	0	10000	0	0		10630.4	106.3		-	80-120
Arsenic	0	10000	12.6906	0		10889.9	108.9		-	80-120
Barium	0	3000	10.7	0		2987.3	99.58		-	80-120
Beryllium	0	1000	2.27936	0		1065.4	106.5		-	80-120
Cadmium	0	3000	13.1	0		3361.8	112.1		-	80-120
Calcium	500000	500000	515534	103.1		509774	102		80-120	80-120
Chromium	0	3000	20.8	0		3064.5	102.2		-	80-120
Cobalt	0	3000	0	0		2895.4	96.52		-	80-120
Copper	0	3000	0	0		3244.5	108.2		-	80-120
Iron	500000	500000	471701	94.34		467977	93.6		80-120	80-120
Lead	0	10000	3.44643	0		9867.7	98.68		-	80-120
Magnesium	500000	500000	533396	106.7		528554	105.7		80-120	80-120
Manganese	0	2000	0	0		2034.5	101.7		-	80-120
Molybdenum	0	3000	0	0		3085.1	102.8		-	80-120
Nickel	0	3000	0	0		2891	96.37		-	80-120
Selenium	0	5000	0	0		5379.4	107.6		-	80-120
Silver	0	3000	19.3	0		2893.2	96.44		-	80-120
Thallium	0	10000	0	0		10141.2	101.4		-	80-120
Vanadium	0	3000	26.5	0		3169.8	105.7		-	80-120
Zinc	0	3000	0	0		2878.9	95.96		-	80-120

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Ext. method:	STND
Total/Diss.:	Dissolved	Level:(low/med):	LOW

Matrix Spike - Client SampleID: BA-01MS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.00829	J	0.1158		108		75	125	P

Matrix Spike - Client SampleID: BA-01MSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.1222		114		5.38		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Ext. method:	STND
Total/Diss.:	Dissolved	Level:(low/med):	LOW

Matrix Spike - Client SampleID: BA-01PDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	1	0.00829	J	1.096	109		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	1	1.099	109		0.273		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-87103

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Total/Dissolved: Dissolved

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.1095	109.5	80 - 120					

00117

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

ICP SERIAL DILUTIONS

Client Sample ID
BA-01SD

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

Total/Diss.: Dissolved

Lab Sample ID: 10020428-20B

SDG: 10020428

Concentration Units: mg/L

Analyte	Initial Sample Results (I)	C	Serial Dilution Results (S)	C	% Difference	Q	M
Arsenic	0.00829	J	0.03985	U			P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Instrument ID Number: ICPDV Date: 3/26/2009

6010_D

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic			0.020	0.0080	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Method: SW3005

Total/Diss.: Dissolved

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
10020428-20B	BA-01	2/12/10	0	100	100
10020428-20BMS	BA-01MS	2/12/10	0	100	100
10020428-20BMSD	BA-01MSD	2/12/10	0	100	100
LCS-87103	LCS-87103	2/12/10	0	100	100
MBLK-87103	MBLK-87103	2/12/10	0	100	100

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Method: SW6010B

Instrument ID: ICPDV Total/Dissolved: Dissolved

Start Date: 2/19/2010 End Date: 2/20/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	10:47				X			X		X				X							X			X				X	X
ICB	ICB	1	10:58				X			X		X				X							X			X				X	X
CCV	CCV	1	11:03				X			X		X				X							X			X				X	X
CCB	CCB	1	11:13				X			X		X				X							X			X				X	X
ICSA	ICSA	1	11:18		X		X			X	X	X			X	X	X						X			X				X	X
ICSAB	ICSAB	1	11:22		X		X			X	X	X			X	X	X						X			X				X	X
CCV	CCV	1	22:28				X			X		X				X							X			X				X	X
CCB	CCB	1	22:33				X			X		X				X							X			X				X	X
ICSA	ICSA	1	22:38		X		X			X	X	X			X	X	X						X			X				X	X
ICSAB	ICSAB	1	22:43		X		X			X	X	X			X	X	X						X			X				X	X
MBLK-87103	MBLK-87103	1	22:58				X																										
LCS-87103	LCS-87103	1	23:03				X																										
10020428-20B	BA-01	1	23:07				X																										
10020428-20BSD	BA-01SD	5	23:12				X																										
10020428-20BMS	BA-01MS	1	23:18				X																										
10020428-20BMSD	BA-01MSD	1	23:23				X																										
CCV	CCV	1	23:28				X			X		X				X							X			X				X	X
CCB	CCB	1	23:33				X			X		X				X							X			X				X	X
10020428-20BPDS	BA-01PDS	5	23:38				X																										
10020428-20BPDSD	BA-01PDSD	5	23:43				X																										
CCV	CCV	1	23:48				X			X		X				X							X			X				X	X
CCB	CCB	1	23:53				X			X		X				X							X			X				X	X
ICSA	ICSA	1	23:58		X		X			X	X	X			X	X	X						X			X				X	X
ICSAB	ICSAB	1	00:03		X		X			X	X	X			X	X	X						X			X				X	X

90121

METALS RAW DATA

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.	Sample ID
1	7	Calib Blank 1
2	1	Calib Std 1
3	2	Calib Std 2
4	3	Calib Std 3
5	9	Calib Std 4
6	10	Calib Std 5
7	6	ICV
8	11	LLICV
9	7	ICB
10	6	CCV
11	12	LLCCV
12	7	CCB
13	4	ICSA
14	5	ICSAB
15	13	RINSE BLANK
16	14	RINSE BLANK
17	15	MBLK-87221 200.7
18	16	LCS-87221
19	17	10020634-03A Pb orig
20	18	10020634-03ASD
21	19	10020634-03AMS
22	20	10020634-03AMSD
23	6	CCV
24	7	CCB
25	21	10020634-03APDS
26	22	10020634-03APDSD
27	23	10020683-01A Cu Zn orig
28	24	10020540-01A As Ba Cd Cr Pb Se orig Ag Rep 1 6010.5 # 87208
29	25	10020541-03A As Cd Cr Pb Se Zn orig
30	6	CCV
31	7	CCB
32	4	ICSA
33	5	ICSAB
34	26	RINSE BLANK
35	27	RINSE BLANK
36	28	MBLK-87220 200.7
37	29	LCS-87220
38	30	10020643-04B Ni orig
39	31	10020643-04BSD
40	32	10020643-04BMS
41	33	10020643-04BMSD
42	6	CCV
43	7	CCB
44	34	10020643-04BPDS
45	35	10020643-04BPDSD
46	36	10020643-05B
47	37	10020643-09B
48	38	10020625-02B Zn orig
49	39	10020627-02A Pb orig
50	40	10020628-01A
51	41	10020629-03A
52	42	10020630-03A
53	43	10020631-03A
54	6	CCV
55	7	CCB
56	44	10020632-03A

100219102201
02-19-10
SLV

ICPDV_100219A
SLV 2-19-10

ICPDV_100219B
JMP 2-22-10

ICPDV_100219C
JMP 2-22-10

00123

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.		Sample ID	
57	6	QC	CCV	
58	7	QC	CCB	
59	4	QC	ICSA	
60	5	QC	ICSAB	
61	45		RINSE BLANK	
62	46		RINSE BLANK	
63	47		MBLK-87222	6010_W-Recap
64	48		LCS-87222	
65	49		10020624-01C	Pb orig
66	50		10020624-01CSD	
67	51		10020624-01CMS	
68	52		10020624-01CMSD	
69	6	QC	CCV	
70	7	QC	CCB	
71	53		10020624-01CPDS	
72	54		10020624-01CPDSD	
73	55		10020624-02C	
74	56		10020624-03C	
75	57		10020624-04C	
76	58		10020624-05C	
77	59		10020624-06C	
78	60		10020624-07C	
79	61		10020624-08C	
80	62		10020624-09C	
81	6	QC	CCV	
82	7	QC	CCB	
83	63		10020624-10C	
84	64		10020624-11C	
85	65		10020624-12C	
86	66		10020624-13C	
87	6	QC	CCV	
88	11		LLCCV	
89	7	QC	CCB	
90	4	QC	ICSA	
91	5	QC	ICSAB	
92	67		RINSE BLANK	
93	68		RINSE BLANK	
94	69		MBLK-87225	6010_W
95	70		LCS-87225	
96	71		10020655-01B	Pb Rep 2
97	72		10020655-01BSD	
98	73		10020655-01BMS	
99	74		10020655-01BMSD	
100	6	QC	CCV	
101	11		LLCCV	
102	7	QC	CCB	
103	75		10020655-01BPDS	
104	76		10020655-01BPDSD	
105	6	QC	CCV	
106	11		LLCCV	
107	7	QC	CCB	
108	4	QC	ICSA	
109	5	QC	ICSAB	
110	77		RINSE BLANK	
111	78		RINSE BLANK	
112	79		MBLK-87095	6010_W

ICPDV_100219D
- jmf 2-22-10

ICPDV_100219E
- jmf 2-22-10

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.		Sample ID
113	80		LCS-87095
114	81		10020428-08A QC
115	82		10020428-08ASD
116	83		10020428-08AMS
117	84		10020428-08AMSD
118	6	QC	CCV
119	7	QC	CCB
120	85		10020428-08APDS
121	86		10020428-08APDSD
122	87		10020428-13A AS orig
123	88		10020428-20A
124	89		10020428-02A
125	1	QC	CCV
126	2	QC	CCB
127	4	QC	ICSA
128	5	QC	ICSAB
129	90		RINSE BLANK
130	91		RINSE BLANK
131	92		MBLK-87096 W01U_W
132	93		LCS-87096
133	94		10020428-19A QC
134	95		10020428-19ASD
135	96		10020428-19AMS
136	97		10020428-19AMSD
137	1	QC	CCV
138	2	QC	CCB
139	98		10020428-19APDS
140	99		10020428-19APDSD
141	100		10020428-22A AS orig
142	101		10020428-23A
143	102		10020428-29A
144	103		10020428-30A
145	104		10020428-31A
146	105		10020428-33A
147	1	QC	CCV
148	2	QC	CCB
149	4	QC	ICSA
150	5	QC	ICSAB
151	106		RINSE BLANK
152	107		RINSE BLANK
153	108		MBLK-87103 W01U_D
154	109		LCS-87103
155	110		10020428-20B AS orig
156	111		10020428-20BSD
157	112		10020428-20BMS
158	113		10020428-20BMSD
159	1	QC	CCV
160	2	QC	CCB
161	114		10020428-20BPDS
162	115		10020428-20BPDSD
163	1	QC	CCV
164	2	QC	CCB
165	4	QC	ICSA
166	5	QC	ICSAB
167	116		RINSE BLANK
168	117		RINSE BLANK

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.		Sample ID	Status
169	118		MBLK-87232	
170	119		LCS-87232	
171	120		10020636-01A	
172	121		10020636-01ASD	
173	122		10020636-01AMS	
174	123		10020636-01AMSD	
175	1	QC	CCV	
176	2	QC	CCB	
177	124		10020636-01APDS	
178	125		10020636-01APDSD	
179	126		10020649-10A	
180	127		10020679-01A	
181	128		10020679-02A	
182	129		10020679-03A	
183	130		10020679-04A	
184	131		10020679-05A	
185	132		10020679-06A	
186	133		10020679-07A	
187	1	QC	CCV	
188	2	QC	CCB	
189	134		10020679-08A	
190	135		10020679-09A	
191	136		10020679-10A	
192	1	QC	CCV	
193	2	QC	CCB	
194	4	QC	ICSA	
195	5	QC	ICSAB	
196	137		RINSE BLANK	
197	138		RINSE BLANK	

IEC File Last Saved: 2/19/10 12:03:01 PM
Printed On: 2/19/10 2:28:15 PM

Results Data Set Name: 0503230939DV
Method Name: 6010B 200.7
Results Library: D:\pe\Administrator\Results\results.mdb

Interfering Analytes

	Analytes	ALUMINUM	BARIUM	CALCIUM	CHROMIUM
1	ALUMINUM	n/a	0	-1.46109	0
2	ANTIMONY	0	0	-0.0452145	-7.01437
3	ARGON	183.413	2026.53	206.756	1082.54
4	ARSENIC	0	0	0	5.60658
5	ARSENIC2	-2.70764	0	0	1.11888
6	BARIUM	0	n/a	0	0
8	BORON	-0.0593863	0	0	0
9	CADMIUM	0	0	0	0
10	CALCIUM	0	0	n/a	-2.85338
11	CHROMIUM	-0.0417116	0	0	n/a
12	COBALT	0	-2.13953	0	0.645107
13	COPPER	0	1.19527	-0.0404796	0.306911
14	Cu 324.752	0	0.326304	0	0
15	IRON	0	0	0	-7.23881
17	LEAD	0	0	0	-0.654581
18	LITHIUM	0	0	0	0.5579
19	MAGNESIUM	0	0	0	0
20	MANGANESE	0	0	0	0
21	MOLYBDENUM	0	0	0	0
22	Na 589.592	0	0	0	0
23	NICKEL	0	0	0	0
25	POTASSIUM	0	0	0	-11.1182
26	SELENIUM	-0.425533	0	0	0
27	SILVER	0	0	0	0
28	SODIUM	0	0	-1.86505	-53.4469
29	STRONTIUM	0	0	-0.0513704	-0.298112
31	THALLIUM	0	0	0	0.667884
32	TIN	0	0	-0.296253	0
33	TITANIUM	0	0	0.235441	0.273544
34	TI 276.787	0	0	0	-43.6102
35	VANADIUM	0.416917	1.65894	0.165208	-0.347067
36	YTTRIUM	17.9495	201.56	20.9207	106.933
37	ZINC	0	0	0	8.31132

IEC File Last Saved: 2/19/10 12:03:01 PM
Printed On: 2/19/10 2:28:15 PM

Results Data Set Name: 0503230939DV
Method Name: 6010B 200.7
Results Library: D:\pe\Administrator\Results\results.mdb

Interfering Analytes

	Analytes	Cu 324.752	IRON	MAGNESIUM	NICKEL
1	ALUMINUM	0	0	0	0
2	ANTIMONY	0	0.0467459	0	-1.20776
3	ARGON	1062.24	204.5	188.48	2110.65
4	ARSENIC	0	-0.139155	0	0
5	ARSENIC2	-0.579979	-12.2086	-0.194962	0
6	BARIUM	0	-0.0019353	0	-1.02225
8	BORON	0	4.43845	0	0
9	CADMIUM	0	-0.0317159	0	0
10	CALCIUM	0	0	0	0
11	CHROMIUM	0	0.014955	0	0
12	COBALT	0	0	0	0
13	COPPER	0	0.257498	0	0.736969
14	Cu 324.752	n/a	-0.240165	0	0.218513
15	IRON	0	n/a	0	0
17	LEAD	0.527941	-0.140628	0	0
18	LITHIUM	0	0.102185	0	-0.63366
19	MAGNESIUM	0	-10.1326	n/a	0
20	MANGANESE	0	-0.0376557	0	0
21	MOLYBDENUM	0	-0.0668328	0	0
22	Na 589.592	0	0.764148	0	0
23	NICKEL	0	0.0508592	0	n/a
25	POTASSIUM	0	0.189915	0	0
26	SELENIUM	0.517273	-0.0033227	0	0
27	SILVER	0	-0.307832	0	0
28	SODIUM	0	-1.36433	2.37603	0
29	STRONTIUM	0	0.156116	-0.0684507	0
31	THALLIUM	0	0.218141	0	0
32	TIN	0	0.345811	0	0
33	TITANIUM	0	-0.293074	0	0
34	TI 276.787	0	-42.6613	-13.8127	-1.44124
35	VANADIUM	0.628022	-0.819165	0.262523	-8.7026
36	YTTRIUM	103.3	20.499	18.9835	211.312
37	ZINC	0	-0.104954	0.0895752	0

00128

IEC File Last Saved: 2/19/10 12:03:01 PM
Printed On: 2/19/10 2:28:15 PM

Results Data Set Name: 0503230939DV
Method Name: 6010B 200.7
Results Library: D:\pe\Administrator\Results\results.mdb

Interfering Analytes

	Analytes	SELENIUM	VANADIUM
1	ALUMINUM	0	-36.9255
2	ANTIMONY	0	1.93753
3	ARGON	1178.57	1124.13
4	ARSENIC	0	1.57224
5	ARSENIC2	-0.365662	-41.2647
6	BARIUM	0	1.58496
8	BORON	0	0
9	CADMIUM	0	0
10	CALCIUM	0	0
11	CHROMIUM	0.70177	-0.426011
12	COBALT	0	0
13	COPPER	-0.237408	0.949911
14	Cu 324.752	-0.217803	0.461562
15	IRON	0	-48.7476
17	LEAD	0	0
18	LITHIUM	0	0.72905
19	MAGNESIUM	0	0
20	MANGANESE	0	0
21	MOLYBDENUM	0	-0.261331
22	Na 589.592	0	0
23	NICKEL	0	0
25	POTASSIUM	0	0
26	SELENIUM	n/a	1.05078
27	SILVER	0	0.013301
28	SODIUM	0	-95.142
29	STRONTIUM	0	0
31	THALLIUM	0	0
32	TIN	0	0
33	TITANIUM	0	0
34	TI 276.787	0	-203.043
35	VANADIUM	-0.667099	n/a
36	YTTRIUM	114.746	111.224
37	ZINC	0	0

00129

Analysis Begun

Start Time: 2/19/10 10:23:25 AM
Logged In Analyst: LAFMETALS
Spectrometer Model: Optima 3000 DV
Plasma On Time: 2/19/10 8:37:37 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: D:\PE\LAFMETALS\Sample Information\6010C.sif
Results Data Set: 1002191022DV
Results Library: d:\PE\LAFMETALS\Results\Results.mdb

Method Loaded
Method Name: 6010B 200.7
IEC File: 050422IEC.iec
Method Description: 6010B/200.7
Method Last Saved: 2/19/10 9:31:04 AM
MSF File:

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 2/19/10 10:23:25 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
YTTRIUM	18559713.3	66766.80	0.36%	10.00	mg/L
ALUMINUM†	3486.3	41.57	1.19%	[0.00]	mg/L
ANTIMONY†	24.0	10.86	45.19%	[0.00]	mg/L
ARSENIC†	-60.2	1.65	2.74%	[0.00]	mg/L
BARIUM†	-333.8	21.59	6.47%	[0.00]	mg/L
BERYLLIUM†	-16633.8	144.32	0.87%	[0.00]	mg/L
CADMIUM†	469.9	10.07	2.14%	[0.00]	mg/L
CHROMIUM†	1196.7	36.66	3.06%	[0.00]	mg/L
COBALT†	-794.2	3.93	0.49%	[0.00]	mg/L
COPPER†	3320.2	80.73	2.43%	[0.00]	mg/L
MANGANESE†	-4089.4	13.18	0.32%	[0.00]	mg/L
MOLYBDENUM†	352.8	10.85	3.08%	[0.00]	mg/L
NICKEL†	2321.0	4.23	0.18%	[0.00]	mg/L
LEAD†	159.3	19.88	12.48%	[0.00]	mg/L
SELENIUM†	-6.7	21.04	312.02%	[0.00]	mg/L
SILVER†	-1128.3	57.07	5.06%	[0.00]	mg/L
THALLIUM†	41.6	12.41	29.83%	[0.00]	mg/L
VANADIUM†	284619.3	987.84	0.35%	[0.00]	mg/L
ZINC†	166.7	1.12	0.67%	[0.00]	mg/L
MAGNESIUM†	-6377.9	60.52	0.95%	[0.00]	mg/L
IRON†	-4668.9	16.38	0.35%	[0.00]	mg/L
CALCIUM†	-16151.0	781.30	4.84%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 2/19/10 10:27:12 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
YTTRIUM	18581480.8	61719.92	0.33%	10.01	mg/L
ANTIMONY†	16.5	13.03	79.05%	[0.005]	mg/L
ARSENIC†	12.4	7.72	62.35%	[0.005]	mg/L
BARIUM†	463.6	20.66	4.46%	[0.005]	mg/L
BERYLLIUM†	28292.7	355.39	1.26%	[0.005]	mg/L
CADMIUM†	195.8	4.94	2.52%	[0.005]	mg/L
CHROMIUM†	716.3	17.13	2.39%	[0.005]	mg/L
COBALT†	142.3	3.61	2.53%	[0.005]	mg/L

COPPER†	744.6	99.22	13.33%	[0.005] mg/L
MANGANESE†	2015.6	4.16	0.21%	[0.005] mg/L
MOLYBDENUM†	165.1	13.11	7.94%	[0.005] mg/L
NICKEL†	327.2	17.63	5.39%	[0.005] mg/L
LEAD†	63.2	11.53	18.23%	[0.005] mg/L
SELENIUM†	13.7	16.09	117.07%	[0.005] mg/L
SILVER†	1262.1	87.09	6.90%	[0.005] mg/L
THALLIUM†	6.9	7.20	104.93%	[0.005] mg/L
VANADIUM†	3012.9	1864.19	61.87%	[0.005] mg/L
ZINC†	320.8	22.31	6.96%	[0.005] mg/L
ARGON	Saturated2			

Saturated in preshot (code 2)

Sequence No.: 3 **Autosampler Location: 2**
Sample ID: Calib Std 2 **Date Collected: 2/19/10 10:30:54 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
YTTRIUM	18634120.0	86502.39	0.46%	10.04	mg/L
ALUMINUM†	822.9	70.45	8.56%	[0.05]	mg/L
ANTIMONY†	150.8	5.86	3.89%	[0.05]	mg/L
ARSENIC†	124.0	8.08	6.52%	[0.05]	mg/L
BARIUM†	4316.6	35.27	0.82%	[0.05]	mg/L
BERYLLIUM†	268233.5	1124.60	0.42%	[0.05]	mg/L
CADMIUM†	1835.9	25.30	1.38%	[0.05]	mg/L
CHROMIUM†	6011.8	76.36	1.27%	[0.05]	mg/L
COBALT†	1456.5	22.55	1.55%	[0.05]	mg/L
COPPER†	6993.7	69.34	0.99%	[0.05]	mg/L
MANGANESE†	19448.5	88.26	0.45%	[0.05]	mg/L
MOLYBDENUM†	1448.1	12.37	0.85%	[0.05]	mg/L
NICKEL†	3079.0	48.69	1.58%	[0.05]	mg/L
LEAD†	617.0	14.61	2.37%	[0.05]	mg/L
SELENIUM†	171.4	19.54	11.40%	[0.05]	mg/L
SILVER†	11338.8	102.21	0.90%	[0.05]	mg/L
THALLIUM†	164.9	3.26	1.98%	[0.05]	mg/L
VANADIUM†	21168.7	913.26	4.31%	[0.05]	mg/L
ZINC†	3252.3	36.57	1.12%	[0.05]	mg/L
MAGNESIUM†	691.7	47.33	6.84%	[0.05]	mg/L
IRON†	818.4	13.37	1.63%	[0.05]	mg/L
CALCIUM†	2177.6	107.87	4.95%	[0.05]	mg/L

Sequence No.: 4 **Autosampler Location: 3**
Sample ID: Calib Std 3 **Date Collected: 2/19/10 10:34:40 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
YTTRIUM	18640586.1	120090.90	0.64%	10.04	mg/L
ALUMINUM†	1617.0	38.21	2.36%	[0.10]	mg/L
ANTIMONY†	306.6	14.32	4.67%	[0.10]	mg/L
ARSENIC†	261.0	4.28	1.64%	[0.10]	mg/L
BARIUM†	8733.0	33.49	0.38%	[0.10]	mg/L
BERYLLIUM†	548113.6	3156.50	0.58%	[0.10]	mg/L
CADMIUM†	3737.9	39.58	1.06%	[0.10]	mg/L
CHROMIUM†	12234.1	19.21	0.16%	[0.10]	mg/L
COBALT†	3009.8	28.96	0.96%	[0.10]	mg/L
COPPER†	14186.5	83.25	0.59%	[0.10]	mg/L
MANGANESE†	39379.0	181.29	0.46%	[0.10]	mg/L
MOLYBDENUM†	2954.5	30.56	1.03%	[0.10]	mg/L
NICKEL†	6334.6	74.97	1.18%	[0.10]	mg/L

LEAD†	1244.6	7.28	0.58%	[0.10] mg/L
SELENIUM†	367.3	1.66	0.45%	[0.10] mg/L
SILVER†	23275.5	152.38	0.65%	[0.10] mg/L
THALLIUM†	354.2	16.41	4.63%	[0.10] mg/L
VANADIUM†	44075.4	2065.51	4.69%	[0.10] mg/L
ZINC†	6702.6	68.28	1.02%	[0.10] mg/L
MAGNESIUM†	1258.7	32.24	2.56%	[0.10] mg/L
IRON†	1619.2	42.50	2.62%	[0.10] mg/L
CALCIUM†	6572.0	295.18	4.49%	[0.10] mg/L

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

Autosampler Location: 9
Date Collected: 2/19/10 10:38:27 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Calib Std 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
YTTRIUM	18619899.0	190578.99	1.02%	10.03	mg/L
ALUMINUM†	8806.5	54.12	0.61%	[0.50]	mg/L
ANTIMONY†	1526.6	19.81	1.30%	[0.50]	mg/L
ARSENIC†	1264.8	13.45	1.06%	[0.50]	mg/L
BARIUM†	45258.3	424.23	0.94%	[0.50]	mg/L
BERYLLIUM†	2837334.3	17893.47	0.63%	[0.50]	mg/L
CADMIUM†	19433.0	217.46	1.12%	[0.50]	mg/L
CHROMIUM†	62937.9	605.54	0.96%	[0.50]	mg/L
COBALT†	15394.2	164.37	1.07%	[0.50]	mg/L
COPPER†	74703.0	815.83	1.09%	[0.50]	mg/L
MANGANESE†	202245.2	1929.36	0.95%	[0.50]	mg/L
MOLYBDENUM†	14948.2	182.06	1.22%	[0.50]	mg/L
NICKEL†	32777.9	279.08	0.85%	[0.50]	mg/L
LEAD†	6412.0	75.64	1.18%	[0.50]	mg/L
SELENIUM†	1899.9	30.46	1.60%	[0.50]	mg/L
SILVER†	119841.1	1150.13	0.96%	[0.50]	mg/L
THALLIUM†	1793.4	30.61	1.71%	[0.50]	mg/L
VANADIUM†	227986.6	5078.95	2.23%	[0.50]	mg/L
ZINC†	35309.2	335.96	0.95%	[0.50]	mg/L
MAGNESIUM†	6583.7	17.55	0.27%	[0.50]	mg/L
IRON†	8180.2	47.04	0.57%	[0.50]	mg/L
CALCIUM†	39591.7	234.94	0.59%	[0.50]	mg/L

Sequence No.: 6
Sample ID: Calib Std 5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/19/10 10:42:33 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Calib Std 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
YTTRIUM	18674595.8	77220.37	0.41%	10.06	mg/L
ALUMINUM†	18005.9	119.47	0.66%	[1.00]	mg/L
ANTIMONY†	3130.1	26.59	0.85%	[1.00]	mg/L
ARSENIC†	2564.7	18.52	0.72%	[1.00]	mg/L
BARIUM†	92515.5	458.35	0.50%	[1.00]	mg/L
BERYLLIUM†	5834884.8	3455.79	0.06%	[1.00]	mg/L
CADMIUM†	40466.5	204.19	0.50%	[1.00]	mg/L
CHROMIUM†	128700.4	482.57	0.37%	[1.00]	mg/L
COBALT†	31704.4	215.75	0.68%	[1.00]	mg/L
COPPER†	155372.2	636.57	0.41%	[1.00]	mg/L
MANGANESE†	411191.9	1532.71	0.37%	[1.00]	mg/L
MOLYBDENUM†	30791.2	242.15	0.79%	[1.00]	mg/L
NICKEL†	67344.5	289.22	0.43%	[1.00]	mg/L
LEAD†	13117.1	91.91	0.70%	[1.00]	mg/L
SELENIUM†	3860.3	57.21	1.48%	[1.00]	mg/L
SILVER†	246364.2	940.33	0.38%	[1.00]	mg/L

THALLIUM†	3471.7	14.79	0.43%	[1.00] mg/L
VANADIUM†	464780.8	3146.55	0.68%	[1.00] mg/L
ZINC†	72992.1	358.25	0.49%	[1.00] mg/L
MAGNESIUM†	13546.7	123.16	0.91%	[1.00] mg/L
IRON†	16791.5	115.38	0.69%	[1.00] mg/L
CALCIUM†	82965.7	266.80	0.32%	[1.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
ALUMINUM	4	Lin, Calc Int	-105.5	18050	0.00000	0.999925	
ANTIMONY	5	Lin, Calc Int	-6.1	3122	0.00000	0.999931	
ARSENIC	5	Lin, Calc Int	-1.7	2560	0.00000	0.999974	
BARIUM	5	Lin, Calc Int	-282.7	92440	0.00000	0.999942	
BERYLLIUM	5	Lin, Calc Int	-21194.6	5827000	0.00000	0.999910	
CADMIUM	5	Lin, Calc Int	-189.4	40370	0.00000	0.999817	
CHROMIUM	5	Lin, Calc Int	-355.7	128500	0.00000	0.999940	
COBALT	5	Lin, Calc Int	-113.2	31650	0.00000	0.999905	
COPPER	5	Lin, Calc Int	-772.1	155100	0.00000	0.999823	
MANGANESE	5	Lin, Calc Int	-977.7	411000	0.00000	0.999967	
MOLYBDENUM	5	Lin, Calc Int	-87.9	30720	0.00000	0.999902	
NICKEL	5	Lin, Calc Int	-243.9	67270	0.00000	0.999916	
LEAD	5	Lin, Calc Int	-38.5	13100	0.00000	0.999940	
SELENIUM	5	Lin, Calc Int	-13.7	3864	0.00000	0.999967	
SILVER	5	Lin, Calc Int	-840.3	246000	0.00000	0.999912	
THALLIUM	5	Lin, Calc Int	1.9	3492	0.00000	0.999854	
VANADIUM	5	Lin, Calc Int	-1267.5	464400	0.00000	0.999946	
ZINC	5	Lin, Calc Int	-350.5	72920	0.00000	0.999872	
MAGNESIUM	4	Lin, Calc Int	-47.7	13530	0.00000	0.999884	
IRON	4	Lin, Calc Int	-51.6	16770	0.00000	0.999920	
CALCIUM	4	Lin, Calc Int	-1405.4	83840	0.00000	0.999639	

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/19/10 10:47:00 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18675041.5	10.06	mg/L	0.060				0.59%
ALUMINUM†	17548.8	1.015	mg/L	0.0093	1.015	mg/L	0.0093	0.91%
QC value within limits for ALUMINUM Recovery = 101.53%								
ANTIMONY†	2917.8	0.9427	mg/L	0.00767	0.9427	mg/L	0.00767	0.81%
QC value less than the lower limit for ANTIMONY Recovery = 94.27%								
ARSENIC†	2378.1	0.9227	mg/L	0.00379	0.9227	mg/L	0.00379	0.41%
QC value less than the lower limit for ARSENIC Recovery = 92.27%								
BARIUM†	91513.9	0.9925	mg/L	0.00604	0.9925	mg/L	0.00604	0.61%
QC value within limits for BARIUM Recovery = 99.25%								
BERYLLIUM†	5626268.9	0.9692	mg/L	0.00083	0.9692	mg/L	0.00083	0.09%
QC value within limits for BERYLLIUM Recovery = 96.92%								
CADMIUM†	39248.4	0.9770	mg/L	0.00650	0.9770	mg/L	0.00650	0.67%
QC value within limits for CADMIUM Recovery = 97.70%								
CHROMIUM†	125568.0	0.9796	mg/L	0.00514	0.9796	mg/L	0.00514	0.52%
QC value within limits for CHROMIUM Recovery = 97.96%								
COBALT†	31141.3	0.9874	mg/L	0.00828	0.9874	mg/L	0.00828	0.84%
QC value within limits for COBALT Recovery = 98.74%								
COPPER†	152662.9	0.9864	mg/L	0.00417	0.9864	mg/L	0.00417	0.42%
QC value within limits for COPPER Recovery = 98.64%								
MANGANESE†	401476.3	0.9793	mg/L	0.00492	0.9793	mg/L	0.00492	0.50%
QC value within limits for MANGANESE Recovery = 97.93%								
MOLYBDENUM†	29725.1	0.9709	mg/L	0.00722	0.9709	mg/L	0.00722	0.74%
QC value within limits for MOLYBDENUM Recovery = 97.09%								
NICKEL†	66058.9	0.9856	mg/L	0.00519	0.9856	mg/L	0.00519	0.53%
QC value within limits for NICKEL Recovery = 98.56%								
LEAD†	12859.0	0.9851	mg/L	0.00721	0.9851	mg/L	0.00721	0.73%
QC value within limits for LEAD Recovery = 98.51%								

SELENIUM†	3784.5	0.9824 mg/L	0.00394	0.9824 mg/L	0.00394	0.40%
QC value within limits for SELENIUM Recovery = 98.24%						
SILVER†	240290.9	0.9805 mg/L	0.00492	0.9805 mg/L	0.00492	0.50%
QC value within limits for SILVER Recovery = 98.05%						
THALLIUM†	3366.2	0.9625 mg/L	0.01378	0.9625 mg/L	0.01378	1.43%
QC value within limits for THALLIUM Recovery = 96.25%						
VANADIUM†	447724.0	0.9747 mg/L	0.00743	0.9747 mg/L	0.00743	0.76%
QC value within limits for VANADIUM Recovery = 97.47%						
ZINC†	71650.0	0.9793 mg/L	0.00621	0.9793 mg/L	0.00621	0.63%
QC value within limits for ZINC Recovery = 97.93%						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	13216.4	0.9905 mg/L	0.00303	0.9905 mg/L	0.00303	0.31%
QC value within limits for MAGNESIUM Recovery = 99.05%						
IRON†	16329.7	1.03 mg/L	0.007	1.03 mg/L	0.007	0.71%
QC value within limits for IRON Recovery = 103.12%						
CALCIUM†	80736.6	0.983 mg/L	0.0038	0.983 mg/L	0.0038	0.39%
QC value within limits for CALCIUM Recovery = 98.26%						

QC Failed. Continue with analysis.

Sequence No.: 8 Autosampler Location: 11
Sample ID: LLICV Date Collected: 2/19/10 10:52:00 AM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Sequence No.: 8 Autosampler Location: 11
Sample ID: LLICV Date Collected: 2/19/10 10:53:42 AM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18571147.1	10.01	mg/L	0.026				0.26%
ALUMINUM†	1602.4	0.0957	mg/L	0.00491	0.0957	mg/L	0.00491	5.13%
ANTIMONY†	62.0	0.0219	mg/L	0.00263	0.0219	mg/L	0.00263	12.01%
ARSENIC†	64.1	0.0256	mg/L	0.00268	0.0256	mg/L	0.00268	10.46%
BARIUM†	886.0	0.0126	mg/L	0.00021	0.0126	mg/L	0.00021	1.66%
BERYLLIUM†	54206.2	0.0129	mg/L	0.00007	0.0129	mg/L	0.00007	0.51%
CADMIUM†	399.7	0.0146	mg/L	0.00031	0.0146	mg/L	0.00031	2.13%
CHROMIUM†	1229.9	0.0123	mg/L	0.00045	0.0123	mg/L	0.00045	3.61%
COBALT†	265.5	0.0120	mg/L	0.00011	0.0120	mg/L	0.00011	0.91%
COPPER†	1671.5	0.0157	mg/L	0.00041	0.0157	mg/L	0.00041	2.59%
MANGANESE†	3850.7	0.0118	mg/L	0.00007	0.0118	mg/L	0.00007	0.59%
MOLYBDENUM†	305.2	0.0128	mg/L	0.00039	0.0128	mg/L	0.00039	3.04%
NICKEL†	645.4	0.0132	mg/L	0.00009	0.0132	mg/L	0.00009	0.72%
LEAD†	139.8	0.0136	mg/L	0.00114	0.0136	mg/L	0.00114	8.40%
SELENIUM†	60.5	0.0192	mg/L	0.00609	0.0192	mg/L	0.00609	31.67%
SILVER†	2271.7	0.0127	mg/L	0.00011	0.0127	mg/L	0.00011	0.84%
THALLIUM†	109.3	0.0307	mg/L	0.00711	0.0307	mg/L	0.00711	23.15%
VANADIUM†	7811.2	0.0196	mg/L	0.00185	0.0196	mg/L	0.00185	9.43%
ZINC†	1345.5	0.0232	mg/L	0.00027	0.0232	mg/L	0.00027	1.18%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1195.7	0.0928	mg/L	0.00806	0.0928	mg/L	0.00806	8.68%
IRON†	1470.3	0.092	mg/L	0.0006	0.092	mg/L	0.0006	0.71%
CALCIUM†	17752.5	0.229	mg/L	0.0045	0.229	mg/L	0.0045	1.96%

Sequence No.: 9 Autosampler Location: 7
Sample ID: ICB Date Collected: 2/19/10 10:58:33 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18482574.3	9.958	mg/L	0.0269				0.27%
ALUMINUM†	25.4	0.0075	mg/L	0.00238	0.0075	mg/L	0.00238	31.85%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	-3.7	0.0008	mg/L	0.00125	0.0008	mg/L	0.00125	156.89%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	5.2	0.0027	mg/L	0.00311	0.0027	mg/L	0.00311	115.71%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	16.6	0.0032	mg/L	0.00021	0.0032	mg/L	0.00021	6.43%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	202.7	0.0037	mg/L	0.00004	0.0037	mg/L	0.00004	0.96%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	11.7	0.0050	mg/L	0.00028	0.0050	mg/L	0.00028	5.64%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	73.6	0.0033	mg/L	0.00051	0.0033	mg/L	0.00051	15.14%
QC value within limits for CHROMIUM Recovery = Not calculated								
COBALT†	-20.6	0.0029	mg/L	0.00098	0.0029	mg/L	0.00098	33.40%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	151.4	0.0059	mg/L	0.00055	0.0059	mg/L	0.00055	9.20%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	-29.4	0.0023	mg/L	0.00003	0.0023	mg/L	0.00003	1.49%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	7.3	0.0031	mg/L	0.00021	0.0031	mg/L	0.00021	6.92%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	50.3	0.0044	mg/L	0.00017	0.0044	mg/L	0.00017	3.80%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	9.4	0.0037	mg/L	0.00167	0.0037	mg/L	0.00167	45.73%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	11.8	0.0066	mg/L	0.00840	0.0066	mg/L	0.00840	127.25%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-15.3	0.0034	mg/L	0.00023	0.0034	mg/L	0.00023	6.82%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	-7.5	-0.0027	mg/L	0.00314	-0.0027	mg/L	0.00314	116.92%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	559.7	0.0040	mg/L	0.00249	0.0040	mg/L	0.00249	62.90%
QC value within limits for VANADIUM Recovery = Not calculated								
ZINC†	19.3	0.0050	mg/L	0.00015	0.0050	mg/L	0.00015	2.92%
QC value within limits for ZINC Recovery = Not calculated								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	-10.8	0.0027	mg/L	0.00841	0.0027	mg/L	0.00841	309.36%
QC value within limits for MAGNESIUM Recovery = Not calculated								
IRON†	-74.8	-0.001	mg/L	0.0011	-0.001	mg/L	0.0011	89.74%
QC value within limits for IRON Recovery = Not calculated								
CALCIUM†	2608.3	0.048	mg/L	0.0029	0.048	mg/L	0.0029	6.00%
QC value within limits for CALCIUM Recovery = Not calculated								

All analytes passed QC.

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Sequence No.: 10 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/19/10 11:03:22 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18608108.5	10.03	mg/L	0.059				0.59%
ALUMINUM†	8636.4	0.5029	mg/L	0.00802	0.5029	mg/L	0.00802	1.60%
QC value within limits for ALUMINUM Recovery = 100.57%								
ANTIMONY†	1500.4	0.4856	mg/L	0.00498	0.4856	mg/L	0.00498	1.03%
QC value within limits for ANTIMONY Recovery = 97.11%								
ARSENIC†	1235.9	0.4800	mg/L	0.00331	0.4800	mg/L	0.00331	0.69%
QC value within limits for ARSENIC Recovery = 96.00%								
BARIUM†	44573.7	0.4850	mg/L	0.00431	0.4850	mg/L	0.00431	0.89%
QC value within limits for BARIUM Recovery = 97.00%								
BERYLLIUM†	2784151.3	0.4814	mg/L	0.00509	0.4814	mg/L	0.00509	1.06%

QC value within limits for BERYLLIUM Recovery = 96.28%

CADMIUM†	19056.9	0.4768 mg/L	0.00214	0.4768 mg/L	0.00214	0.45%

QC value within limits for CADMIUM Recovery = 95.36%

CHROMIUM†	62109.9	0.4860 mg/L	0.00495	0.4860 mg/L	0.00495	1.02%

QC value within limits for CHROMIUM Recovery = 97.19%

COBALT†	15088.6	0.4803 mg/L	0.00241	0.4803 mg/L	0.00241	0.50%

QC value within limits for COBALT Recovery = 96.05%

COPPER†	73480.7	0.4773 mg/L	0.00540	0.4773 mg/L	0.00540	1.13%

QC value within limits for COPPER Recovery = 95.46%

MANGANESE†	199027.9	0.4867 mg/L	0.00467	0.4867 mg/L	0.00467	0.96%

QC value within limits for MANGANESE Recovery = 97.34%

MOLYBDENUM†	14706.7	0.4818 mg/L	0.00245	0.4818 mg/L	0.00245	0.51%

QC value within limits for MOLYBDENUM Recovery = 96.36%

NICKEL†	32298.2	0.4838 mg/L	0.00529	0.4838 mg/L	0.00529	1.09%

QC value within limits for NICKEL Recovery = 96.75%

LEAD†	6275.5	0.4823 mg/L	0.00187	0.4823 mg/L	0.00187	0.39%

QC value within limits for LEAD Recovery = 96.45%

SELENIUM†	1861.5	0.4850 mg/L	0.00825	0.4850 mg/L	0.00825	1.70%

QC value within limits for SELENIUM Recovery = 97.00%

SILVER†	118199.9	0.4841 mg/L	0.00532	0.4841 mg/L	0.00532	1.10%

QC value within limits for SILVER Recovery = 96.81%

THALLIUM†	1706.5	0.4877 mg/L	0.00565	0.4877 mg/L	0.00565	1.16%

QC value within limits for THALLIUM Recovery = 97.54%

VANADIUM†	222798.7	0.4863 mg/L	0.01004	0.4863 mg/L	0.01004	2.06%

QC value within limits for VANADIUM Recovery = 97.27%

ZINC†	34778.2	0.4777 mg/L	0.00497	0.4777 mg/L	0.00497	1.04%

QC value within limits for ZINC Recovery = 95.54%

ARGON	Saturated2					

Saturated in preshot (code 2)

MAGNESIUM†	6447.3	0.4850 mg/L	0.00438	0.4850 mg/L	0.00438	0.90%

QC value within limits for MAGNESIUM Recovery = 97.00%

IRON†	7978.1	0.506 mg/L	0.0018	0.506 mg/L	0.0018	0.36%

QC value within limits for IRON Recovery = 101.18%

CALCIUM†	38618.3	0.479 mg/L	0.0058	0.479 mg/L	0.0058	1.22%

QC value within limits for CALCIUM Recovery = 95.76%

All analytes passed QC.

Sequence No.: 11
Sample ID: LLCCV
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 2/19/10 11:08:30 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18511475.7	9.974	mg/L	0.0624				0.63%
ALUMINUM†	1568.0	0.0938	mg/L	0.00348	0.0938	mg/L	0.00348	3.71%
ANTIMONY†	57.0	0.0203	mg/L	0.00147	0.0203	mg/L	0.00147	7.24%
ARSENIC†	56.1	0.0225	mg/L	0.00664	0.0225	mg/L	0.00664	29.57%
BARIUM†	879.7	0.0126	mg/L	0.00018	0.0126	mg/L	0.00018	1.46%
BERYLLIUM†	54185.8	0.0129	mg/L	0.00006	0.0129	mg/L	0.00006	0.49%
CADMIUM†	389.1	0.0143	mg/L	0.00031	0.0143	mg/L	0.00031	2.18%
CHROMIUM†	1253.9	0.0125	mg/L	0.00038	0.0125	mg/L	0.00038	3.02%
COBALT†	273.4	0.0122	mg/L	0.00028	0.0122	mg/L	0.00028	2.32%
COPPER†	1645.1	0.0155	mg/L	0.00076	0.0155	mg/L	0.00076	4.88%
MANGANESE†	3832.4	0.0117	mg/L	0.00001	0.0117	mg/L	0.00001	0.10%
MOLYBDENUM†	303.7	0.0128	mg/L	0.00028	0.0128	mg/L	0.00028	2.16%
NICKEL†	642.2	0.0132	mg/L	0.00051	0.0132	mg/L	0.00051	3.87%
LEAD†	136.6	0.0134	mg/L	0.00090	0.0134	mg/L	0.00090	6.73%
SELENIUM†	67.6	0.0211	mg/L	0.00272	0.0211	mg/L	0.00272	12.90%
SILVER†	2230.7	0.0125	mg/L	0.00025	0.0125	mg/L	0.00025	2.00%
THALLIUM†	131.1	0.0370	mg/L	0.00530	0.0370	mg/L	0.00530	14.34%
VANADIUM†	8112.4	0.0203	mg/L	0.00191	0.0203	mg/L	0.00191	9.41%
ZINC†	1303.4	0.0226	mg/L	0.00010	0.0226	mg/L	0.00010	0.45%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1307.1	0.1011	mg/L	0.00844	0.1011	mg/L	0.00844	8.35%
IRON†	1487.5	0.093	mg/L	0.0016	0.093	mg/L	0.0016	1.73%

CALCIUM†	14977.2	0.195 mg/L	0.0028	0.195 mg/L	0.0028	1.41%

Sequence No.: 12 **Autosampler Location: 7**
Sample ID: CCB **Date Collected: 2/19/10 11:13:22 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18452068.8	9.942	mg/L	0.0149				0.15%
ALUMINUM†	47.0	0.0086	mg/L	0.00087	0.0086	mg/L	0.00087	10.15%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	-7.1	-0.0003	mg/L	0.00137	-0.0003	mg/L	0.00137	455.59%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	2.8	0.0017	mg/L	0.00580	0.0017	mg/L	0.00580	335.54%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	-3.9	0.0030	mg/L	0.00019	0.0030	mg/L	0.00019	6.43%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	96.7	0.0037	mg/L	0.00010	0.0037	mg/L	0.00010	2.75%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	8.8	0.0049	mg/L	0.00011	0.0049	mg/L	0.00011	2.30%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	28.3	0.0030	mg/L	0.00059	0.0030	mg/L	0.00059	19.81%
QC value within limits for CHROMIUM Recovery = Not calculated								
COBALT†	-36.6	0.0024	mg/L	0.00006	0.0024	mg/L	0.00006	2.53%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	104.7	0.0056	mg/L	0.00030	0.0056	mg/L	0.00030	5.29%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	-36.8	0.0023	mg/L	0.00004	0.0023	mg/L	0.00004	1.88%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	11.3	0.0032	mg/L	0.00020	0.0032	mg/L	0.00020	6.21%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	45.4	0.0043	mg/L	0.00029	0.0043	mg/L	0.00029	6.75%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	18.1	0.0043	mg/L	0.00106	0.0043	mg/L	0.00106	24.47%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	0.3	0.0036	mg/L	0.00271	0.0036	mg/L	0.00271	74.93%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-54.8	0.0032	mg/L	0.00055	0.0032	mg/L	0.00055	17.19%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	-1.3	-0.0009	mg/L	0.00546	-0.0009	mg/L	0.00546	597.46%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	-614.2	0.0014	mg/L	0.00428	0.0014	mg/L	0.00428	299.22%
QC value within limits for VANADIUM Recovery = Not calculated								
ZINC†	-7.3	0.0047	mg/L	0.00006	0.0047	mg/L	0.00006	1.28%
QC value within limits for ZINC Recovery = Not calculated								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	-42.3	0.0004	mg/L	0.00415	0.0004	mg/L	0.00415	>999.9%
QC value within limits for MAGNESIUM Recovery = Not calculated								
IRON†	-67.6	-0.001	mg/L	0.0010	-0.001	mg/L	0.0010	115.08%
QC value within limits for IRON Recovery = Not calculated								
CALCIUM†	2488.2	0.046	mg/L	0.0006	0.046	mg/L	0.0006	1.21%
QC value within limits for CALCIUM Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 13 **Autosampler Location: 4**
Sample ID: ICSA **Date Collected: 2/19/10 11:18:11 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICSA

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

YTTRIUM	16809031.7	9.057 mg/L	0.0151			0.17%
ALUMINUM†	9348249.2	518.7 mg/L	0.54	518.7 mg/L	0.54	0.10%
QC value within limits for ALUMINUM Recovery = 103.74%						
ANTIMONY†	-104.8	-0.0305 mg/L	0.00285	-0.0305 mg/L	0.00285	9.34%
QC value within limits for ANTIMONY Recovery = Not calculated						
ARSENIC†	-126.9	0.0147 mg/L	0.00202	0.0147 mg/L	0.00202	13.75%
QC value within limits for ARSENIC Recovery = Not calculated						
BARIUM†	434.8	0.0086 mg/L	0.00029	0.0086 mg/L	0.00029	3.35%
QC value within limits for BARIUM Recovery = Not calculated						
BERYLLIUM†	-5212.8	0.0027 mg/L	0.00007	0.0027 mg/L	0.00007	2.45%
QC value within limits for BERYLLIUM Recovery = Not calculated						
CADMIUM†	-285.6	0.0122 mg/L	0.00032	0.0122 mg/L	0.00032	2.64%
QC value within limits for CADMIUM Recovery = Not calculated						
CHROMIUM†	2159.1	0.0196 mg/L	0.00019	0.0196 mg/L	0.00019	0.98%
QC value within limits for CHROMIUM Recovery = Not calculated						
COBALT†	-79.8	0.0011 mg/L	0.00077	0.0011 mg/L	0.00077	72.86?
QC value within limits for COBALT Recovery = Not calculated						
COPPER†	14604.3	0.0010 mg/L	0.00099	0.0010 mg/L	0.00099	94.02%
QC value within limits for COPPER Recovery = Not calculated						
MANGANESE†	-8053.0	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020	372.91%
QC value within limits for MANGANESE Recovery = Not calculated						
MOLYBDENUM†	-1020.1	0.0003 mg/L	0.00202	0.0003 mg/L	0.00202	631.68%
QC value within limits for MOLYBDENUM Recovery = Not calculated						
NICKEL†	1280.1	-0.0007 mg/L	0.00029	-0.0007 mg/L	0.00029	42.84%
QC value within limits for NICKEL Recovery = Not calculated						
LEAD†	-835.1	0.0037 mg/L	0.00139	0.0037 mg/L	0.00139	37.58%
QC value within limits for LEAD Recovery = Not calculated						
SELENIUM†	-854.6	0.0042 mg/L	0.00577	0.0042 mg/L	0.00577	136.21%
QC value within limits for SELENIUM Recovery = Not calculated						
SILVER†	-29711.0	0.0238 mg/L	0.00134	0.0238 mg/L	0.00134	5.63%
QC value greater than the upper limit for SILVER Recovery = Not calculated						
THALLIUM†	286.0	-0.0187 mg/L	0.00473	-0.0187 mg/L	0.00473	25.26%
QC value within limits for THALLIUM Recovery = Not calculated						
VANADIUM†	25669.2	0.0024 mg/L	0.00436	0.0024 mg/L	0.00436	185.32%
QC value within limits for VANADIUM Recovery = Not calculated						
ZINC†	-1612.8	-0.0148 mg/L	0.00018	-0.0148 mg/L	0.00018	1.21%
QC value within limits for ZINC Recovery = Not calculated						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	6869209.7	512.5 mg/L	2.03	512.5 mg/L	2.03	0.40%
QC value within limits for MAGNESIUM Recovery = 102.49%						
IRON†	7690033.4	459 mg/L	1.6	459 mg/L	1.6	0.35%
QC value within limits for IRON Recovery = 91.72%						
CALCIUM†	41668794.9	497 mg/L	0.2	497 mg/L	0.2	0.03%
QC value within limits for CALCIUM Recovery = 99.41%						

QC Failed. Continue with analysis.

Sequence No.: 14 **Autosampler Location: 5**
Sample ID: ICSAB **Date Collected: 2/19/10 11:22:44 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16675693.0	8.985	mg/L	0.0268				0.30%
ALUMINUM†	9347551.3	518.8	mg/L	0.25	518.8	mg/L	0.25	0.05%
QC value within limits for ALUMINUM Recovery = 103.75%								
ANTIMONY†	32451.0	10.42	mg/L	0.026	10.42	mg/L	0.026	0.25%
QC value within limits for ANTIMONY Recovery = 104.15%								
ARSENIC†	26798.6	10.51	mg/L	0.060	10.51	mg/L	0.060	0.57%
QC value within limits for ARSENIC Recovery = 105.10%								
BARIUM†	267869.4	2.900	mg/L	0.0144	2.900	mg/L	0.0144	0.50%
QC value within limits for BARIUM Recovery = 96.66%								
BERYLLIUM†	6023844.3	1.037	mg/L	0.0004	1.037	mg/L	0.0004	0.03%
QC value within limits for BERYLLIUM Recovery = 103.74%								
CADMIUM†	132764.5	3.308	mg/L	0.0151	3.308	mg/L	0.0151	0.46%
QC value within limits for CADMIUM Recovery = 110.27%								

CHROMIUM†	384114.4	2.991 mg/L	0.0155	2.991 mg/L	0.0155	0.52%
QC value within limits for CHROMIUM Recovery = 99.70%						
COBALT†	89198.7	2.822 mg/L	0.0100	2.822 mg/L	0.0100	0.35%
QC value within limits for COBALT Recovery = 94.05%						
COPPER†	516526.5	3.230 mg/L	0.0204	3.230 mg/L	0.0204	0.63%
QC value within limits for COPPER Recovery = 107.68%						
MANGANESE†	804476.4	1.977 mg/L	0.0117	1.977 mg/L	0.0117	0.59%
QC value within limits for MANGANESE Recovery = 98.85%						
MOLYBDENUM†	91153.1	3.002 mg/L	0.0100	3.002 mg/L	0.0100	0.33%
QC value within limits for MOLYBDENUM Recovery = 100.06%						
NICKEL†	189331.7	2.795 mg/L	0.0163	2.795 mg/L	0.0163	0.58%
QC value within limits for NICKEL Recovery = 93.17%						
LEAD†	124425.5	9.565 mg/L	0.0400	9.565 mg/L	0.0400	0.42%
QC value within limits for LEAD Recovery = 95.65%						
SELENIUM†	19415.5	5.247 mg/L	0.0293	5.247 mg/L	0.0293	0.56%
QC value within limits for SELENIUM Recovery = 104.94%						
SILVER†	653685.4	2.801 mg/L	0.0195	2.801 mg/L	0.0195	0.70%
QC value within limits for SILVER Recovery = 93.37%						
THALLIUM†	34113.4	9.667 mg/L	0.0521	9.667 mg/L	0.0521	0.54%
QC value within limits for THALLIUM Recovery = 96.67%						
VANADIUM†	1453653.7	3.100 mg/L	0.0223	3.100 mg/L	0.0223	0.72%
QC value within limits for VANADIUM Recovery = 103.34%						
ZINC†	202118.8	2.754 mg/L	0.0127	2.754 mg/L	0.0127	0.46%
QC value within limits for ZINC Recovery = 91.81%						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	6826565.6	509.3 mg/L	2.74	509.3 mg/L	2.74	0.54%
QC value within limits for MAGNESIUM Recovery = 101.86%						
IRON†	7643884.5	456 mg/L	2.5	456 mg/L	2.5	0.56%
QC value within limits for IRON Recovery = 91.21%						
CALCIUM†	41409858.7	494 mg/L	0.0	494 mg/L	0.0	0.01%
QC value within limits for CALCIUM Recovery = 98.79%						

All analytes passed QC.

Sequence No.: 15 Autosampler Location: 13
Sample ID: RINSE BLANK Date Collected: 2/19/10 11:27:31 AM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18479379.6	9.957	mg/L	0.0687				0.69%
ALUMINUM†	7101.6	0.3999	mg/L	0.12231	0.3999	mg/L	0.12231	30.58%
ANTIMONY†	27.4	0.0108	mg/L	0.00228	0.0108	mg/L	0.00228	21.22%
ARSENIC†	37.0	0.0152	mg/L	0.00706	0.0152	mg/L	0.00706	46.56%
BARIUM†	156.0	0.0048	mg/L	0.00076	0.0048	mg/L	0.00076	15.98%
BERYLLIUM†	3378.4	0.0042	mg/L	0.00017	0.0042	mg/L	0.00017	4.02%
CADMIUM†	79.3	0.0067	mg/L	0.00057	0.0067	mg/L	0.00057	8.52%
CHROMIUM†	281.7	0.0050	mg/L	0.00058	0.0050	mg/L	0.00058	11.72%
COBALT†	20.5	0.0042	mg/L	0.00035	0.0042	mg/L	0.00035	8.34%
COPPER†	1567.9	0.0150	mg/L	0.00146	0.0150	mg/L	0.00146	9.77%
MANGANESE†	363.1	0.0033	mg/L	0.00028	0.0033	mg/L	0.00028	8.65%
MOLYBDENUM†	74.3	0.0053	mg/L	0.00046	0.0053	mg/L	0.00046	8.68%
NICKEL†	143.3	0.0057	mg/L	0.00065	0.0057	mg/L	0.00065	11.26%
LEAD†	174.4	0.0163	mg/L	0.00407	0.0163	mg/L	0.00407	24.95%
SELENIUM†	13.5	0.0072	mg/L	0.00077	0.0072	mg/L	0.00077	10.75%
SILVER†	643.9	0.0062	mg/L	0.00052	0.0062	mg/L	0.00052	8.37%
THALLIUM†	35.5	0.0095	mg/L	0.00785	0.0095	mg/L	0.00785	82.37%
VANADIUM†	-1033.2	0.0005	mg/L	0.00409	0.0005	mg/L	0.00409	744.90%
ZINC†	515.3	0.0118	mg/L	0.00202	0.0118	mg/L	0.00202	17.02%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	5677.1	0.4274	mg/L	0.12931	0.4274	mg/L	0.12931	30.25%
IRON†	6917.5	0.416	mg/L	0.1271	0.416	mg/L	0.1271	30.57%
CALCIUM†	32836.0	0.408	mg/L	0.1284	0.408	mg/L	0.1284	31.44%

IRON†	77281.8	4.62 mg/L	0.027	23.1 mg/L	0.13	0.58%
CALCIUM†	74481.6	0.906 mg/L	0.0055	4.53 mg/L	0.028	0.61%

Sequence No.: 104 Autosampler Location: 76
Sample ID: 10020655-01BPDSD Date Collected: 2/19/10 6:52:46 PM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: 5X Data Type: Original

Mean Data: 10020655-01BPDSD

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18080446.1	9.742	mg/L	0.0044				0.04%
ALUMINUM†	12522.6	0.7084	mg/L	0.00145	3.542	mg/L	0.0072	0.20%
ANTIMONY†	590.1	0.1919	mg/L	0.00536	0.9597	mg/L	0.02682	2.79%
ARSENIC†	501.1	0.1957	mg/L	0.00248	0.9784	mg/L	0.01241	1.27%
BARIUM†	17400.5	0.1912	mg/L	0.00126	0.9559	mg/L	0.00632	0.66%
BERYLLIUM†	1064040.5	0.1862	mg/L	0.00064	0.9312	mg/L	0.00319	0.34%
CADMIUM†	7334.1	0.1865	mg/L	0.00093	0.9326	mg/L	0.00464	0.50%
CHROMIUM†	23688.2	0.1871	mg/L	0.00079	0.9353	mg/L	0.00396	0.42%
COBALT†	5755.9	0.1854	mg/L	0.00070	0.9271	mg/L	0.00350	0.38%
COPPER†	27979.3	0.1837	mg/L	0.00129	0.9185	mg/L	0.00643	0.70%
MANGANESE†	76382.5	0.1884	mg/L	0.00074	0.9421	mg/L	0.00372	0.39%
MOLYBDENUM†	5630.4	0.1865	mg/L	0.00150	0.9326	mg/L	0.00752	0.81%
NICKEL†	12363.8	0.1872	mg/L	0.00073	0.9360	mg/L	0.00363	0.39%
LEAD†	2473.4	0.1925	mg/L	0.00135	0.9624	mg/L	0.00677	0.70%
SELENIUM†	727.8	0.1920	mg/L	0.00587	0.9601	mg/L	0.02936	3.06%
SILVER†	43466.1	0.1815	mg/L	0.00075	0.9076	mg/L	0.00374	0.41%
THALLIUM†	669.8	0.1901	mg/L	0.00150	0.9507	mg/L	0.00751	0.79%
VANADIUM†	91525.1	0.2044	mg/L	0.00095	1.022	mg/L	0.0048	0.47%
ZINC†	13268.3	0.1856	mg/L	0.00074	0.9282	mg/L	0.00370	0.40%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	8337.1	0.6661	mg/L	0.00396	3.331	mg/L	0.0198	0.59%
IRON†	76532.2	4.58	mg/L	0.013	22.9	mg/L	0.07	0.28%
CALCIUM†	73621.2	0.895	mg/L	0.0030	4.48	mg/L	0.015	0.33%

Sequence No.: 105 Autosampler Location: 6
Sample ID: CCV Date Collected: 2/19/10 6:57:44 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18109557.3	9.757	mg/L	0.0197				0.20%
ALUMINUM†	8817.0	0.5132	mg/L	0.00201	0.5132	mg/L	0.00201	0.39%
QC value within limits for ALUMINUM Recovery = 102.65%								
ANTIMONY†	1519.5	0.4917	mg/L	0.00338	0.4917	mg/L	0.00338	0.69%
QC value within limits for ANTIMONY Recovery = 98.34%								
ARSENIC†	1310.0	0.5089	mg/L	0.00373	0.5089	mg/L	0.00373	0.73%
QC value within limits for ARSENIC Recovery = 101.78%								
BARIUM†	45150.3	0.4912	mg/L	0.00147	0.4912	mg/L	0.00147	0.30%
QC value within limits for BARIUM Recovery = 98.25%								
BERYLLIUM†	2828087.4	0.4890	mg/L	0.00274	0.4890	mg/L	0.00274	0.56%
QC value within limits for BERYLLIUM Recovery = 97.79%								
CADMIUM†	19270.9	0.4821	mg/L	0.00030	0.4821	mg/L	0.00030	0.06%
QC value within limits for CADMIUM Recovery = 96.42%								
CHROMIUM†	62456.1	0.4887	mg/L	0.00152	0.4887	mg/L	0.00152	0.31%
QC value within limits for CHROMIUM Recovery = 97.73%								
COBALT†	15309.8	0.4872	mg/L	0.00043	0.4872	mg/L	0.00043	0.09%
QC value within limits for COBALT Recovery = 97.45%								
COPPER†	72928.3	0.4737	mg/L	0.00207	0.4737	mg/L	0.00207	0.44%
QC value within limits for COPPER Recovery = 94.75%								
MANGANESE†	201394.8	0.4925	mg/L	0.00097	0.4925	mg/L	0.00097	0.20%
QC value within limits for MANGANESE Recovery = 98.49%								

MOLYBDENUM†	15002.3	0.4914 mg/L	0.00037	0.4914 mg/L	0.00037	0.08%
QC value within limits for MOLYBDENUM Recovery = 98.29%						
NICKEL†	32894.4	0.4926 mg/L	0.00028	0.4926 mg/L	0.00028	0.06%
QC value within limits for NICKEL Recovery = 98.52%						
LEAD†	6412.9	0.4928 mg/L	0.00102	0.4928 mg/L	0.00102	0.21%
QC value within limits for LEAD Recovery = 98.55%						
SELENIUM†	1881.8	0.4902 mg/L	0.00136	0.4902 mg/L	0.00136	0.28%
QC value within limits for SELENIUM Recovery = 98.05%						
SILVER†	117790.7	0.4824 mg/L	0.00104	0.4824 mg/L	0.00104	0.22%
QC value within limits for SILVER Recovery = 96.48%						
THALLIUM†	1782.4	0.5094 mg/L	0.00324	0.5094 mg/L	0.00324	0.64%
QC value within limits for THALLIUM Recovery = 101.88%						
VANADIUM†	227550.6	0.4966 mg/L	0.00139	0.4966 mg/L	0.00139	0.28%
QC value within limits for VANADIUM Recovery = 99.33%						
ZINC†	35156.1	0.4829 mg/L	0.00019	0.4829 mg/L	0.00019	0.04%
QC value within limits for ZINC Recovery = 96.58%						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	6342.6	0.4773 mg/L	0.00470	0.4773 mg/L	0.00470	0.99%
QC value within limits for MAGNESIUM Recovery = 95.46%						
IRON†	7994.5	0.507 mg/L	0.0030	0.507 mg/L	0.0030	0.58%
QC value within limits for IRON Recovery = 101.48%						
CALCIUM†	38283.4	0.475 mg/L	0.0026	0.475 mg/L	0.0026	0.54%
QC value within limits for CALCIUM Recovery = 94.96%						

All analytes passed QC.

Sequence No.: 106 **Autosampler Location: 11**
Sample ID: LLCCV **Date Collected: 2/19/10 7:02:52 PM**
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18134775.6	9.771	mg/L	0.0072				0.07%
ALUMINUM†	1761.6	0.1052	mg/L	0.00158	0.1052	mg/L	0.00158	1.50%
ANTIMONY†	71.3	0.0248	mg/L	0.00528	0.0248	mg/L	0.00528	21.24%
ARSENIC†	63.2	0.0252	mg/L	0.00267	0.0252	mg/L	0.00267	10.58%
BARIUM†	882.1	0.0126	mg/L	0.00038	0.0126	mg/L	0.00038	3.04%
BERYLLIUM†	54270.1	0.0130	mg/L	0.00012	0.0130	mg/L	0.00012	0.92%
CADMIUM†	417.2	0.0150	mg/L	0.00030	0.0150	mg/L	0.00030	2.02%
CHROMIUM†	1331.5	0.0131	mg/L	0.00046	0.0131	mg/L	0.00046	3.54%
COBALT†	236.0	0.0110	mg/L	0.00053	0.0110	mg/L	0.00053	4.80%
COPPER†	1585.4	0.0151	mg/L	0.00105	0.0151	mg/L	0.00105	6.92%
MANGANESE†	3910.6	0.0119	mg/L	0.00012	0.0119	mg/L	0.00012	1.03%
MOLYBDENUM†	326.2	0.0135	mg/L	0.00018	0.0135	mg/L	0.00018	1.31%
NICKEL†	797.5	0.0155	mg/L	0.00025	0.0155	mg/L	0.00025	1.61%
LEAD†	155.1	0.0148	mg/L	0.00045	0.0148	mg/L	0.00045	3.04%
SELENIUM†	70.4	0.0218	mg/L	0.00787	0.0218	mg/L	0.00787	36.14%
SILVER†	2238.5	0.0125	mg/L	0.00007	0.0125	mg/L	0.00007	0.59%
THALLIUM†	130.3	0.0367	mg/L	0.00226	0.0367	mg/L	0.00226	6.15%
VANADIUM†	14103.6	0.0332	mg/L	0.00163	0.0332	mg/L	0.00163	4.92%
ZINC†	1464.2	0.0248	mg/L	0.00040	0.0248	mg/L	0.00040	1.61%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1058.7	0.0826	mg/L	0.00842	0.0826	mg/L	0.00842	10.19%
IRON†	1326.3	0.084	mg/L	0.0010	0.084	mg/L	0.0010	1.25%
CALCIUM†	31688.4	0.395	mg/L	0.0018	0.395	mg/L	0.0018	0.45%

Sequence No.: 107 **Autosampler Location: 7**
Sample ID: CCB **Date Collected: 2/19/10 7:07:43 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18224129.4	9.819	mg/L	0.0219				0.22%
ALUMINUM†	97.8	0.0117	mg/L	0.00024	0.0117	mg/L	0.00024	2.02%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	18.4	0.0079	mg/L	0.00235	0.0079	mg/L	0.00235	29.96%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	7.7	0.0036	mg/L	0.00117	0.0036	mg/L	0.00117	32.13%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	-19.3	0.0028	mg/L	0.00024	0.0028	mg/L	0.00024	8.61%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-1828.8	0.0033	mg/L	0.00003	0.0033	mg/L	0.00003	0.76%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	16.7	0.0051	mg/L	0.00018	0.0051	mg/L	0.00018	3.44%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	111.1	0.0036	mg/L	0.00060	0.0036	mg/L	0.00060	16.56%
QC value within limits for CHROMIUM Recovery = Not calculated								
COBALT†	-42.9	0.0022	mg/L	0.00004	0.0022	mg/L	0.00004	1.59%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	109.7	0.0057	mg/L	0.00043	0.0057	mg/L	0.00043	7.53%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	-144.4	0.0020	mg/L	0.00004	0.0020	mg/L	0.00004	2.13%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	18.5	0.0035	mg/L	0.00075	0.0035	mg/L	0.00075	21.60%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	155.6	0.0059	mg/L	0.00011	0.0059	mg/L	0.00011	1.90%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	34.0	0.0055	mg/L	0.00030	0.0055	mg/L	0.00030	5.39%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	-13.2	0.0001	mg/L	0.00189	0.0001	mg/L	0.00189	>999.9%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-161.6	0.0028	mg/L	0.00019	0.0028	mg/L	0.00019	6.79%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	-4.7	-0.0019	mg/L	0.00380	-0.0019	mg/L	0.00380	201.14%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	4109.1	0.0116	mg/L	0.00101	0.0116	mg/L	0.00101	8.72%
QC value within limits for VANADIUM Recovery = Not calculated								
ZINC†	-144.7	0.0028	mg/L	0.00021	0.0028	mg/L	0.00021	7.65%
QC value within limits for ZINC Recovery = Not calculated								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	-234.1	-0.0139	mg/L	0.00068	-0.0139	mg/L	0.00068	4.88%
QC value within limits for MAGNESIUM Recovery = Not calculated								
IRON†	-225.0	-0.010	mg/L	0.0015	-0.010	mg/L	0.0015	14.89%
QC value within limits for IRON Recovery = Not calculated								
CALCIUM†	-1699.8	-0.004	mg/L	0.0018	-0.004	mg/L	0.0018	52.36%
QC value within limits for CALCIUM Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 108 **Autosampler Location: 4**
Sample ID: ICSA **Date Collected: 2/19/10 7:12:32 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16450549.6	8.864	mg/L	0.0240				0.27%
ALUMINUM†	9422231.2	522.8	mg/L	0.72	522.8	mg/L	0.72	0.14%
QC value within limits for ALUMINUM Recovery = 104.56%								
ANTIMONY†	-91.1	-0.0260	mg/L	0.00307	-0.0260	mg/L	0.00307	11.80%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	-137.2	0.0117	mg/L	0.00409	0.0117	mg/L	0.00409	35.12%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	635.3	0.0107	mg/L	0.00054	0.0107	mg/L	0.00054	5.00%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-7495.9	0.0024	mg/L	0.00007	0.0024	mg/L	0.00007	3.13%
QC value within limits for BERYLLIUM Recovery = Not calculated								

CADMIUM†	-277.2	0.0126 mg/L	0.00050	0.0126 mg/L	0.00050	3.96%
QC value within limits for CADMIUM Recovery = Not calculated						
CHROMIUM†	2316.0	0.0208 mg/L	0.00046	0.0208 mg/L	0.00046	2.24%
QC value greater than the upper limit for CHROMIUM Recovery = Not calculated						
COBALT†	-127.5	-0.0005 mg/L	0.00072	-0.0005 mg/L	0.00072	158.55%
QC value within limits for COBALT Recovery = Not calculated						
COPPER†	14491.8	-0.0011 mg/L	0.00075	-0.0011 mg/L	0.00075	69.93%
QC value within limits for COPPER Recovery = Not calculated						
MANGANESE†	-8399.4	-0.0005 mg/L	0.00020	-0.0005 mg/L	0.00020	37.74%
QC value within limits for MANGANESE Recovery = Not calculated						
MOLYBDENUM†	-1097.3	-0.0017 mg/L	0.00066	-0.0017 mg/L	0.00066	38.67%
QC value within limits for MOLYBDENUM Recovery = Not calculated						
NICKEL†	1414.5	0.0010 mg/L	0.00025	0.0010 mg/L	0.00025	25.51%
QC value within limits for NICKEL Recovery = Not calculated						
LEAD†	-879.7	0.0013 mg/L	0.00148	0.0013 mg/L	0.00148	113.58%
QC value within limits for LEAD Recovery = Not calculated						
SELENIUM†	-856.7	0.0054 mg/L	0.00386	0.0054 mg/L	0.00386	70.80%
QC value within limits for SELENIUM Recovery = Not calculated						
SILVER†	-31327.4	0.0194 mg/L	0.00162	0.0194 mg/L	0.00162	8.33%
QC value within limits for SILVER Recovery = Not calculated						
THALLIUM†	349.6	-0.0020 mg/L	0.00354	-0.0020 mg/L	0.00354	172.81%
QC value within limits for THALLIUM Recovery = Not calculated						
VANADIUM†	33826.4	0.0188 mg/L	0.00138	0.0188 mg/L	0.00138	7.32%
QC value within limits for VANADIUM Recovery = Not calculated						
ZINC†	-1526.6	-0.0141 mg/L	0.00010	-0.0141 mg/L	0.00010	0.68%
QC value within limits for ZINC Recovery = Not calculated						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	7042897.2	525.4 mg/L	1.03	525.4 mg/L	1.03	0.20%
QC value within limits for MAGNESIUM Recovery = 105.08%						
IRON†	7808881.7	466 mg/L	1.0	466 mg/L	1.0	0.23%
QC value within limits for IRON Recovery = 93.14%						
CALCIUM†	42611164.5	508 mg/L	0.6	508 mg/L	0.6	0.12%
QC value within limits for CALCIUM Recovery = 101.65%						
QC Failed. Continue with analysis.						

Sequence No.: 109
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/19/10 7:17:57 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16283979.5	8.774	mg/L	0.0214				0.24%
ALUMINUM†	9361605.1	519.6	mg/L	0.26	519.6	mg/L	0.26	0.05%
QC value within limits for ALUMINUM Recovery = 103.91%								
ANTIMONY†	32499.0	10.43	mg/L	0.041	10.43	mg/L	0.041	0.39%
QC value within limits for ANTIMONY Recovery = 104.31%								
ARSENIC†	27476.3	10.78	mg/L	0.020	10.78	mg/L	0.020	0.19%
QC value within limits for ARSENIC Recovery = 107.75%								
BARIUM†	272581.1	2.951	mg/L	0.0091	2.951	mg/L	0.0091	0.31%
QC value within limits for BARIUM Recovery = 98.36%								
BERYLLIUM†	6123068.3	1.054	mg/L	0.0002	1.054	mg/L	0.0002	0.02%
QC value within limits for BERYLLIUM Recovery = 105.44%								
CADMIUM†	132869.6	3.311	mg/L	0.0080	3.311	mg/L	0.0080	0.24%
QC value within limits for CADMIUM Recovery = 110.36%								
CHROMIUM†	388923.4	3.028	mg/L	0.0085	3.028	mg/L	0.0085	0.28%
QC value within limits for CHROMIUM Recovery = 100.95%								
COBALT†	89934.1	2.845	mg/L	0.0047	2.845	mg/L	0.0047	0.16%
QC value within limits for COBALT Recovery = 94.83%								
COPPER†	516504.0	3.229	mg/L	0.0079	3.229	mg/L	0.0079	0.25%
QC value within limits for COPPER Recovery = 107.64%								
MANGANESE†	817932.4	2.010	mg/L	0.0070	2.010	mg/L	0.0070	0.35%
QC value within limits for MANGANESE Recovery = 100.50%								
MOLYBDENUM†	91946.0	3.028	mg/L	0.0044	3.028	mg/L	0.0044	0.15%
QC value within limits for MOLYBDENUM Recovery = 100.93%								
NICKEL†	192810.5	2.847	mg/L	0.0088	2.847	mg/L	0.0088	0.31%

QC value within limits for NICKEL Recovery = 94.88%

LEAD†	125867.7	9.676 mg/L	0.0110	9.676 mg/L	0.0110	0.11%

QC value within limits for LEAD Recovery = 96.76%

SELENIUM†	19521.8	5.275 mg/L	0.0222	5.275 mg/L	0.0222	0.42%

QC value within limits for SELENIUM Recovery = 105.50%

SILVER†	657610.0	2.819 mg/L	0.0086	2.819 mg/L	0.0086	0.30%

QC value within limits for SILVER Recovery = 93.95%

THALLIUM†	33725.6	9.554 mg/L	0.0281	9.554 mg/L	0.0281	0.29%

QC value within limits for THALLIUM Recovery = 95.54%

VANADIUM†	1468550.5	3.133 mg/L	0.0118	3.133 mg/L	0.0118	0.38%

QC value within limits for VANADIUM Recovery = 104.42%

ZINC†	206578.4	2.815 mg/L	0.0051	2.815 mg/L	0.0051	0.18%

QC value within limits for ZINC Recovery = 93.83%

ARGON	Saturated2					

Saturated in preshot (code 2)

MAGNESIUM†	6967340.9	519.7 mg/L	1.79	519.7 mg/L	1.79	0.35%

QC value within limits for MAGNESIUM Recovery = 103.95%

IRON†	7735102.1	461 mg/L	1.5	461 mg/L	1.5	0.32%

QC value within limits for IRON Recovery = 92.30%

CALCIUM†	42155242.0	503 mg/L	0.2	503 mg/L	0.2	0.05%

QC value within limits for CALCIUM Recovery = 100.57%

All analytes passed QC.

Sequence No.: 110
Sample ID: RINSE BLANK
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 2/19/10 7:22:44 PM
Sample Prep Volume:
Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18110722.0	9.758	mg/L	0.1031				1.06%
ALUMINUM†	7264.7	0.4094	mg/L	0.11402	0.4094	mg/L	0.11402	27.85%
ANTIMONY†	36.5	0.0137	mg/L	0.00924	0.0137	mg/L	0.00924	67.63%
ARSENIC†	32.5	0.0134	mg/L	0.00341	0.0134	mg/L	0.00341	25.46%
BARIUM†	161.3	0.0048	mg/L	0.00067	0.0048	mg/L	0.00067	14.07%
BERYLLIUM†	2458.6	0.0041	mg/L	0.00026	0.0041	mg/L	0.00026	6.52%
CADMIUM†	124.7	0.0078	mg/L	0.00067	0.0078	mg/L	0.00067	8.59%
CHROMIUM†	359.9	0.0056	mg/L	0.00055	0.0056	mg/L	0.00055	9.86%
COBALT†	-1.0	0.0035	mg/L	0.00085	0.0035	mg/L	0.00085	23.92%
COPPER†	1583.0	0.0151	mg/L	0.00225	0.0151	mg/L	0.00225	14.91%
MANGANESE†	317.0	0.0032	mg/L	0.00045	0.0032	mg/L	0.00045	14.30%
MOLYBDENUM†	89.1	0.0058	mg/L	0.00104	0.0058	mg/L	0.00104	17.97%
NICKEL†	290.7	0.0079	mg/L	0.00053	0.0079	mg/L	0.00053	6.71%
LEAD†	167.5	0.0158	mg/L	0.00312	0.0158	mg/L	0.00312	19.75%
SELENIUM†	30.9	0.0117	mg/L	0.00498	0.0117	mg/L	0.00498	42.53%
SILVER†	863.8	0.0071	mg/L	0.00098	0.0071	mg/L	0.00098	13.87%
THALLIUM†	51.3	0.0140	mg/L	0.00632	0.0140	mg/L	0.00632	44.97%
VANADIUM†	3981.2	0.0114	mg/L	0.00714	0.0114	mg/L	0.00714	62.86%
ZINC†	336.6	0.0094	mg/L	0.00156	0.0094	mg/L	0.00156	16.60%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	5471.1	0.4122	mg/L	0.13313	0.4122	mg/L	0.13313	32.30%
IRON†	6860.6	0.413	mg/L	0.1245	0.413	mg/L	0.1245	30.16%
CALCIUM†	32536.8	0.405	mg/L	0.1266	0.405	mg/L	0.1266	31.26%

Sequence No.: 111
Sample ID: RINSE BLANK
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 2/19/10 7:27:35 PM
Sample Prep Volume:
Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18117329.3	9.762	mg/L	0.0642				0.66%

ALUMINUM†	1327.0	0.0798 mg/L	0.01474	0.0798 mg/L	0.01474	18.47%
ANTIMONY†	11.4	0.0056 mg/L	0.00062	0.0056 mg/L	0.00062	10.95%
ARSENIC†	26.9	0.0112 mg/L	0.00308	0.0112 mg/L	0.00308	27.61%
BARIUM†	-8.0	0.0030 mg/L	0.00018	0.0030 mg/L	0.00018	5.98%
BERYLLIUM†	-1632.7	0.0034 mg/L	0.00002	0.0034 mg/L	0.00002	0.53%
CADMIUM†	43.9	0.0058 mg/L	0.00020	0.0058 mg/L	0.00020	3.40%
CHROMIUM†	85.7	0.0034 mg/L	0.00048	0.0034 mg/L	0.00048	13.89%
COBALT†	-61.3	0.0016 mg/L	0.00022	0.0016 mg/L	0.00022	13.45%
COPPER†	628.5	0.0090 mg/L	0.00145	0.0090 mg/L	0.00145	16.12%
MANGANESE†	-172.9	0.0020 mg/L	0.00001	0.0020 mg/L	0.00001	0.69%
MOLYBDENUM†	30.5	0.0039 mg/L	0.00022	0.0039 mg/L	0.00022	5.67%
NICKEL†	181.5	0.0063 mg/L	0.00048	0.0063 mg/L	0.00048	7.55%
LEAD†	58.2	0.0074 mg/L	0.00215	0.0074 mg/L	0.00215	29.16%
SELENIUM†	3.5	0.0045 mg/L	0.00169	0.0045 mg/L	0.00169	37.70%
SILVER†	128.7	0.0040 mg/L	0.00031	0.0040 mg/L	0.00031	7.95%
THALLIUM†	3.1	0.0003 mg/L	0.00285	0.0003 mg/L	0.00285	915.25%
VANADIUM†	3045.9	0.0093 mg/L	0.00370	0.0093 mg/L	0.00370	39.62%
ZINC†	-9.2	0.0047 mg/L	0.00026	0.0047 mg/L	0.00026	5.64%
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	604.6	0.0488 mg/L	0.02484	0.0488 mg/L	0.02484	50.91%
IRON†	893.7	0.057 mg/L	0.0125	0.057 mg/L	0.0125	22.07%
CALCIUM†	2532.4	0.047 mg/L	0.0183	0.047 mg/L	0.0183	38.95%

Sequence No.: 112 **Autosampler Location: 79**
Sample ID: MBLK-87095 **Date Collected: 2/19/10 7:32:26 PM**
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: MBLK-87095

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18085097.4	9.744	mg/L	0.0070				0.07%
ALUMINUM†	1337.1	0.0805	mg/L	0.00568	0.0805	mg/L	0.00568	7.05%
ANTIMONY†	17.2	0.0075	mg/L	0.00172	0.0075	mg/L	0.00172	23.07%
ARSENIC†	13.4	0.0059	mg/L	0.00169	0.0059	mg/L	0.00169	28.95%
BARIUM†	-7.3	0.0030	mg/L	0.00011	0.0030	mg/L	0.00011	3.70%
BERYLLIUM†	-2314.4	0.0032	mg/L	0.00006	0.0032	mg/L	0.00006	1.84%
CADMIUM†	37.5	0.0056	mg/L	0.00019	0.0056	mg/L	0.00019	3.39%
CHROMIUM†	87.8	0.0034	mg/L	0.00036	0.0034	mg/L	0.00036	10.56%
COBALT†	-65.5	0.0015	mg/L	0.00017	0.0015	mg/L	0.00017	11.53%
COPPER†	409.3	0.0076	mg/L	0.00078	0.0076	mg/L	0.00078	10.26%
MANGANESE†	-252.0	0.0018	mg/L	0.00005	0.0018	mg/L	0.00005	2.73%
MOLYBDENUM†	6.7	0.0031	mg/L	0.00024	0.0031	mg/L	0.00024	7.70%
NICKEL†	155.0	0.0059	mg/L	0.00027	0.0059	mg/L	0.00027	4.60%
LEAD†	41.1	0.0061	mg/L	0.00068	0.0061	mg/L	0.00068	11.19%
SELENIUM†	-15.2	-0.0004	mg/L	0.00226	-0.0004	mg/L	0.00226	615.36%
SILVER†	-27.5	0.0033	mg/L	0.00017	0.0033	mg/L	0.00017	5.23%
THALLIUM†	14.5	0.0036	mg/L	0.00134	0.0036	mg/L	0.00134	37.26%
VANADIUM†	5079.7	0.0137	mg/L	0.00324	0.0137	mg/L	0.00324	23.64%
ZINC†	0.5	0.0048	mg/L	0.00003	0.0048	mg/L	0.00003	0.70%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	512.4	0.0419	mg/L	0.00699	0.0419	mg/L	0.00699	16.67%
IRON†	781.7	0.050	mg/L	0.0055	0.050	mg/L	0.0055	10.92%
CALCIUM†	2869.7	0.051	mg/L	0.0066	0.051	mg/L	0.0066	12.99%

Sequence No.: 113 **Autosampler Location: 80**
Sample ID: LCS-87095 **Date Collected: 2/19/10 7:37:17 PM**
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCS-87095

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

YTTRIUM	18196617.6	9.804 mg/L	0.0520			0.53%
ALUMINUM†	91170.5	5.069 mg/L	0.0263	5.069 mg/L	0.0263	0.52%
ANTIMONY†	331.8	0.1089 mg/L	0.00218	0.1089 mg/L	0.00218	2.00%
ARSENIC†	291.4	0.1144 mg/L	0.00352	0.1144 mg/L	0.00352	3.08%
BARIUM†	9629.2	0.1072 mg/L	0.00087	0.1072 mg/L	0.00087	0.81%
BERYLLIUM†	602498.6	0.1070 mg/L	0.00044	0.1070 mg/L	0.00044	0.41%
CADMIUM†	4052.8	0.1053 mg/L	0.00093	0.1053 mg/L	0.00093	0.88%
CHROMIUM†	13367.1	0.1068 mg/L	0.00044	0.1068 mg/L	0.00044	0.41%
COBALT†	3167.5	0.1036 mg/L	0.00059	0.1036 mg/L	0.00059	0.57%
COPPER†	16405.3	0.1094 mg/L	0.00106	0.1094 mg/L	0.00106	0.97%
MANGANESE†	42440.8	0.1058 mg/L	0.00043	0.1058 mg/L	0.00043	0.41%
MOLYBDENUM†	3113.7	0.1046 mg/L	0.00039	0.1046 mg/L	0.00039	0.37%
NICKEL†	7014.1	0.1076 mg/L	0.00040	0.1076 mg/L	0.00040	0.37%
LEAD†	1346.0	0.1065 mg/L	0.00091	0.1065 mg/L	0.00091	0.86%
SELENIUM†	2007.5	0.5251 mg/L	0.00127	0.5251 mg/L	0.00127	0.24%
SILVER†	24631.6	0.1051 mg/L	0.00044	0.1051 mg/L	0.00044	0.42%
THALLIUM†	379.3	0.1069 mg/L	0.00357	0.1069 mg/L	0.00357	3.34%
VANADIUM†	52645.1	0.1171 mg/L	0.00234	0.1171 mg/L	0.00234	2.00%
ZINC†	7251.2	0.1034 mg/L	0.00051	0.1034 mg/L	0.00051	0.49%
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	73481.7	5.488 mg/L	0.0213	5.488 mg/L	0.0213	0.39%
IRON†	86596.2	5.17 mg/L	0.030	5.17 mg/L	0.030	0.59%
CALCIUM†	441900.2	5.29 mg/L	0.027	5.29 mg/L	0.027	0.52%

Sequence No.: 114
Sample ID: 10020428-08A
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 2/19/10 7:42:11 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-08A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17322945.4	9.334	mg/L	0.0186				0.20%
ALUMINUM†	1272.3	0.1671	mg/L	0.00402	0.1671	mg/L	0.00402	2.41%
ANTIMONY†	12.4	0.0086	mg/L	0.00499	0.0086	mg/L	0.00499	57.73%
ARSENIC†	-1.8	-0.0001	mg/L	0.00383	-0.0001	mg/L	0.00383	>999.9%
BARIUM†	36723.7	0.4003	mg/L	0.00055	0.4003	mg/L	0.00055	0.14%
BERYLLIUM†	-2775.5	0.0032	mg/L	0.00007	0.0032	mg/L	0.00007	2.14%
CADMIUM†	54.4	0.0060	mg/L	0.00016	0.0060	mg/L	0.00016	2.63
CHROMIUM†	329.7	0.0053	mg/L	0.00033	0.0053	mg/L	0.00033	6.22%
COBALT†	-73.1	0.0013	mg/L	0.00050	0.0013	mg/L	0.00050	39.35%
COPPER†	745.9	0.0117	mg/L	0.00110	0.0117	mg/L	0.00110	9.39%
MANGANESE†	5541.1	0.0159	mg/L	0.00005	0.0159	mg/L	0.00005	0.29%
MOLYBDENUM†	218.6	0.0100	mg/L	0.00024	0.0100	mg/L	0.00024	2.36%
NICKEL†	310.5	0.0082	mg/L	0.00060	0.0082	mg/L	0.00060	7.28%
LEAD†	11.6	0.0038	mg/L	0.00078	0.0038	mg/L	0.00078	20.27%
SELENIUM†	-5.9	0.0020	mg/L	0.00433	0.0020	mg/L	0.00433	216.65%
SILVER†	-216.9	0.0025	mg/L	0.00035	0.0025	mg/L	0.00035	13.93%
THALLIUM†	36.6	0.0099	mg/L	0.00593	0.0099	mg/L	0.00593	59.70%
VANADIUM†	19336.6	0.0235	mg/L	0.00230	0.0235	mg/L	0.00230	9.77%
ZINC†	6.2	0.0014	mg/L	0.00036	0.0014	mg/L	0.00036	26.17%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	522268.3	38.61	mg/L	0.150	38.61	mg/L	0.150	0.39%
IRON†	-595.6	-0.030	mg/L	0.0018	-0.030	mg/L	0.0018	6.07%
CALCIUM†	5112722.0	61.0	mg/L	0.24	61.0	mg/L	0.24	0.39%

Sequence No.: 115
Sample ID: 10020428-08ASD
Analyst: KL
Sample Wt:
Dilution: 5X

Autosampler Location: 82
Date Collected: 2/19/10 7:47:21 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-08ASD

Mean Corrected Calib Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
YTTRIUM	17873519.2	9.630	mg/L	0.0216				0.22%
ALUMINUM†	546.7	0.0550	mg/L	0.00070	0.2752	mg/L	0.00350	1.27%
ANTIMONY†	22.0	0.0096	mg/L	0.00346	0.0478	mg/L	0.01732	36.26%
ARSENIC†	1.1	0.0010	mg/L	0.00160	0.0052	mg/L	0.00801	155.43%
BARIUM†	7412.9	0.0832	mg/L	0.00029	0.4161	mg/L	0.00147	0.35%
BERYLLIUM†	-2542.1	0.0032	mg/L	0.00003	0.0160	mg/L	0.00015	0.92%
CADMIUM†	29.5	0.0054	mg/L	0.00037	0.0271	mg/L	0.00185	6.81%
CHROMIUM†	58.4	0.0032	mg/L	0.00019	0.0161	mg/L	0.00094	5.83%
COBALT†	-68.9	0.0014	mg/L	0.00035	0.0070	mg/L	0.00173	24.67%
COPPER†	333.1	0.0075	mg/L	0.00046	0.0375	mg/L	0.00231	6.17%
MANGANESE†	889.8	0.0045	mg/L	0.00003	0.0227	mg/L	0.00013	0.57%
MOLYBDENUM†	46.2	0.0044	mg/L	0.00033	0.0219	mg/L	0.00166	7.59%
NICKEL†	191.4	0.0065	mg/L	0.00037	0.0324	mg/L	0.00187	5.79%
LEAD†	30.3	0.0052	mg/L	0.00106	0.0262	mg/L	0.00529	20.15%
SELENIUM†	-1.1	0.0033	mg/L	0.00346	0.0163	mg/L	0.01729	105.97%
SILVER†	-195.0	0.0026	mg/L	0.00012	0.0131	mg/L	0.00058	4.42%
THALLIUM†	8.8	0.0020	mg/L	0.00479	0.0098	mg/L	0.02393	244.09%
VANADIUM†	10496.2	0.0211	mg/L	0.00508	0.1057	mg/L	0.02539	24.02%
ZINC†	-110.9	0.0026	mg/L	0.00012	0.0128	mg/L	0.00058	4.56%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	105262.7	7.785	mg/L	0.0801	38.93	mg/L	0.400	1.03%
IRON†	-329.2	-0.015	mg/L	0.0020	-0.076	mg/L	0.0099	12.88%
CALCIUM†	1029606.6	12.3	mg/L	0.13	61.5	mg/L	0.67	1.08%

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Sequence No.: 116
Sample ID: 10020428-08AMS
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 2/19/10 7:52:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-08AMS

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17433560.3	9.393	mg/L	0.0545				0.58%
ALUMINUM†	93217.1	5.273	mg/L	0.0337	5.273	mg/L	0.0337	0.64%
ANTIMONY†	332.0	0.1117	mg/L	0.00188	0.1117	mg/L	0.00188	1.68%
ARSENIC†	299.7	0.1176	mg/L	0.00314	0.1176	mg/L	0.00314	2.67%
BARIUM†	46436.2	0.5053	mg/L	0.00339	0.5053	mg/L	0.00339	0.67%
BERYLLIUM†	609771.5	0.1083	mg/L	0.00103	0.1083	mg/L	0.00103	0.95%
CADMIUM†	4154.6	0.1078	mg/L	0.00079	0.1078	mg/L	0.00079	0.73%
CHROMIUM†	13416.4	0.1071	mg/L	0.00066	0.1071	mg/L	0.00066	0.62%
COBALT†	3041.2	0.0997	mg/L	0.00053	0.0997	mg/L	0.00053	0.53%
COPPER†	17536.3	0.1187	mg/L	0.00079	0.1187	mg/L	0.00079	0.67%
MANGANESE†	47056.7	0.1171	mg/L	0.00072	0.1171	mg/L	0.00072	0.61%
MOLYBDENUM†	3332.6	0.1117	mg/L	0.00051	0.1117	mg/L	0.00051	0.46%
NICKEL†	6858.0	0.1053	mg/L	0.00068	0.1053	mg/L	0.00068	0.64%
LEAD†	1307.0	0.1035	mg/L	0.00129	0.1035	mg/L	0.00129	1.25%
SELENIUM†	2042.6	0.5342	mg/L	0.00040	0.5342	mg/L	0.00040	0.08%
SILVER†	24871.3	0.1061	mg/L	0.00010	0.1061	mg/L	0.00010	0.09%
THALLIUM†	391.7	0.1105	mg/L	0.00290	0.1105	mg/L	0.00290	2.62%
VANADIUM†	66375.2	0.1255	mg/L	0.00435	0.1255	mg/L	0.00435	3.47%
ZINC†	7474.1	0.1030	mg/L	0.00045	0.1030	mg/L	0.00045	0.44%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	597590.7	44.23	mg/L	0.298	44.23	mg/L	0.298	0.67%
IRON†	83801.3	5.01	mg/L	0.035	5.01	mg/L	0.035	0.69%
CALCIUM†	5569855.0	66.5	mg/L	0.66	66.5	mg/L	0.66	1.00%

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Sequence No.: 117
Sample ID: 10020428-08AMSD
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 2/19/10 7:57:26 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-08AMSD

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17389260.1	9.369	mg/L	0.0290				0.31%
ALUMINUM†	87071.4	4.928	mg/L	0.0355	4.928	mg/L	0.0355	0.72%
ANTIMONY†	314.0	0.1057	mg/L	0.00495	0.1057	mg/L	0.00495	4.68%
ARSENIC†	285.5	0.1121	mg/L	0.00738	0.1121	mg/L	0.00738	6.59%
BARIUM†	44014.1	0.4791	mg/L	0.00406	0.4791	mg/L	0.00406	0.85%
BERYLLIUM†	573516.2	0.1021	mg/L	0.00013	0.1021	mg/L	0.00013	0.12%
CADMIUM†	3988.8	0.1037	mg/L	0.00062	0.1037	mg/L	0.00062	0.60%
CHROMIUM†	12363.0	0.0989	mg/L	0.00013	0.0989	mg/L	0.00013	0.13%
COBALT†	2832.8	0.0931	mg/L	0.00058	0.0931	mg/L	0.00058	0.62%
COPPER†	16587.9	0.1126	mg/L	0.00066	0.1126	mg/L	0.00066	0.59%
MANGANESE†	44132.0	0.1099	mg/L	0.00074	0.1099	mg/L	0.00074	0.67%
MOLYBDENUM†	3147.0	0.1057	mg/L	0.00029	0.1057	mg/L	0.00029	0.27%
NICKEL†	6425.1	0.0989	mg/L	0.00029	0.0989	mg/L	0.00029	0.30%
LEAD†	1277.9	0.1012	mg/L	0.00097	0.1012	mg/L	0.00097	0.96%
SELENIUM†	1988.3	0.5201	mg/L	0.00415	0.5201	mg/L	0.00415	0.80%
SILVER†	25266.0	0.1076	mg/L	0.00085	0.1076	mg/L	0.00085	0.79%
THALLIUM†	378.3	0.1067	mg/L	0.00193	0.1067	mg/L	0.00193	1.81%
VANADIUM†	65323.2	0.1244	mg/L	0.00188	0.1244	mg/L	0.00188	1.51%
ZINC†	6894.5	0.0953	mg/L	0.00066	0.0953	mg/L	0.00066	0.70%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	560485.7	41.49	mg/L	0.312	41.49	mg/L	0.312	0.75%
IRON†	78506.5	4.69	mg/L	0.031	4.69	mg/L	0.031	0.66%
CALCIUM†	5281431.6	63.0	mg/L	0.14	63.0	mg/L	0.14	0.22%

Sequence No.: 118 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/19/10 8:02:39 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18058769.8	9.730	mg/L	0.0322				0.33%
ALUMINUM†	8961.0	0.5216	mg/L	0.00162	0.5216	mg/L	0.00162	0.31%
QC value within limits for ALUMINUM Recovery = 104.31%								
ANTIMONY†	1513.5	0.4898	mg/L	0.00380	0.4898	mg/L	0.00380	0.78%
QC value within limits for ANTIMONY Recovery = 97.96%								
ARSENIC†	1291.2	0.5015	mg/L	0.00189	0.5015	mg/L	0.00189	0.38%
QC value within limits for ARSENIC Recovery = 100.31%								
BARIUM†	45239.2	0.4922	mg/L	0.00154	0.4922	mg/L	0.00154	0.31%
QC value within limits for BARIUM Recovery = 98.44%								
BERYLLIUM†	2825633.2	0.4885	mg/L	0.00243	0.4885	mg/L	0.00243	0.50%
QC value within limits for BERYLLIUM Recovery = 97.71%								
CADMIUM†	19228.9	0.4811	mg/L	0.00060	0.4811	mg/L	0.00060	0.13%
QC value within limits for CADMIUM Recovery = 96.21%								
CHROMIUM†	62710.7	0.4906	mg/L	0.00100	0.4906	mg/L	0.00100	0.20%
QC value within limits for CHROMIUM Recovery = 98.13%								
COBALT†	15230.1	0.4847	mg/L	0.00095	0.4847	mg/L	0.00095	0.20%
QC value within limits for COBALT Recovery = 96.95%								
COPPER†	73239.4	0.4757	mg/L	0.00318	0.4757	mg/L	0.00318	0.67%
QC value within limits for COPPER Recovery = 95.15%								
MANGANESE†	201728.6	0.4933	mg/L	0.00154	0.4933	mg/L	0.00154	0.31%
QC value within limits for MANGANESE Recovery = 98.65%								
MOLYBDENUM†	14964.3	0.4902	mg/L	0.00108	0.4902	mg/L	0.00108	0.22%
QC value within limits for MOLYBDENUM Recovery = 98.04%								
NICKEL†	33000.9	0.4942	mg/L	0.00173	0.4942	mg/L	0.00173	0.35%
QC value within limits for NICKEL Recovery = 98.84%								
LEAD†	6412.3	0.4927	mg/L	0.00112	0.4927	mg/L	0.00112	0.23%
QC value within limits for LEAD Recovery = 98.54%								
SELENIUM†	1900.1	0.4950	mg/L	0.00100	0.4950	mg/L	0.00100	0.20%
QC value within limits for SELENIUM Recovery = 99.00%								
SILVER†	118067.7	0.4835	mg/L	0.00178	0.4835	mg/L	0.00178	0.37%
QC value within limits for SILVER Recovery = 96.70%								
THALLIUM†	1796.1	0.5133	mg/L	0.00169	0.5133	mg/L	0.00169	0.33%
QC value within limits for THALLIUM Recovery = 102.67%								

VANADIUM†	230671.8	0.5034 mg/L	0.00442	0.5034 mg/L	0.00442	0.88%
QC value within limits for VANADIUM Recovery = 100.67%						
ZINC†	35272.4	0.4845 mg/L	0.00099	0.4845 mg/L	0.00099	0.21%
QC value within limits for ZINC Recovery = 96.89%						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	6710.0	0.5044 mg/L	0.00283	0.5044 mg/L	0.00283	0.56%
QC value within limits for MAGNESIUM Recovery = 100.88%						
IRON†	7963.9	0.506 mg/L	0.0021	0.506 mg/L	0.0021	0.41%
QC value within limits for IRON Recovery = 101.18%						
CALCIUM†	43075.0	0.532 mg/L	0.0081	0.532 mg/L	0.0081	1.52%
QC value within limits for CALCIUM Recovery = 106.39%						

All analytes passed QC.

Sequence No.: 119 **Autosampler Location: 7**
Sample ID: CCB **Date Collected: 2/19/10 8:07:47 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18079332.1	9.741	mg/L	0.0415				0.43%
ALUMINUM†	216.1	0.0184	mg/L	0.00021	0.0184	mg/L	0.00021	1.13%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	7.9	0.0045	mg/L	0.00317	0.0045	mg/L	0.00317	70.78%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	2.7	0.0017	mg/L	0.00265	0.0017	mg/L	0.00265	158.59%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	4.7	0.0031	mg/L	0.00029	0.0031	mg/L	0.00029	9.22%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-68.0	0.0036	mg/L	0.00008	0.0036	mg/L	0.00008	2.29%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	44.8	0.0058	mg/L	0.00043	0.0058	mg/L	0.00043	7.47%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	146.3	0.0039	mg/L	0.00043	0.0039	mg/L	0.00043	11.12%
QC value within limits for CHROMIUM Recovery = Not calculated								
COBALT†	-60.2	0.0017	mg/L	0.00025	0.0017	mg/L	0.00025	14.65%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	271.3	0.0067	mg/L	0.00145	0.0067	mg/L	0.00145	21.68%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	-77.3	0.0022	mg/L	0.00003	0.0022	mg/L	0.00003	1.44%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	27.9	0.0038	mg/L	0.00035	0.0038	mg/L	0.00035	9.36%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	199.5	0.0066	mg/L	0.00037	0.0066	mg/L	0.00037	5.61%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	33.2	0.0055	mg/L	0.00138	0.0055	mg/L	0.00138	25.16%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	-11.0	0.0007	mg/L	0.00640	0.0007	mg/L	0.00640	914.17%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-84.4	0.0031	mg/L	0.00059	0.0031	mg/L	0.00059	19.12%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	-9.6	-0.0033	mg/L	0.00115	-0.0033	mg/L	0.00115	34.59%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	5629.3	0.0149	mg/L	0.00369	0.0149	mg/L	0.00369	24.77%
QC value within limits for VANADIUM Recovery = Not calculated								
ZINC†	-99.9	0.0034	mg/L	0.00018	0.0034	mg/L	0.00018	5.42%
QC value within limits for ZINC Recovery = Not calculated								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	-279.5	-0.0172	mg/L	0.00628	-0.0172	mg/L	0.00628	36.43%
QC value within limits for MAGNESIUM Recovery = Not calculated								
IRON†	-215.3	-0.009	mg/L	0.0012	-0.009	mg/L	0.0012	13.68%
QC value within limits for IRON Recovery = Not calculated								
CALCIUM†	-946.5	0.005	mg/L	0.0011	0.005	mg/L	0.0011	20.93%
QC value within limits for CALCIUM Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 120
Sample ID: 10020428-08APDS
Analyst: KL
Sample Wt:
Dilution: 5X

Autosampler Location: 85
Date Collected: 2/19/10 8:12:37 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-08APDS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17961019.3	9.677	mg/L	0.0841				0.87%
ALUMINUM†	3926.3	0.2496	mg/L	0.00342	1.248	mg/L	0.0171	1.37%
ANTIMONY†	622.8	0.2032	mg/L	0.00246	1.016	mg/L	0.0123	1.21%
ARSENIC†	542.8	0.2112	mg/L	0.00396	1.056	mg/L	0.0198	1.87%
BARIUM†	24983.5	0.2732	mg/L	0.00249	1.366	mg/L	0.0124	0.91%
BERYLLIUM†	1166684.7	0.2039	mg/L	0.00280	1.019	mg/L	0.0140	1.37%
CADMIUM†	7846.9	0.1991	mg/L	0.00238	0.9955	mg/L	0.01189	1.19%
CHROMIUM†	25416.4	0.2005	mg/L	0.00284	1.002	mg/L	0.0142	1.42%
COBALT†	6047.4	0.1946	mg/L	0.00144	0.9731	mg/L	0.00720	0.74%
COPPER†	30775.9	0.2032	mg/L	0.00400	1.016	mg/L	0.0200	1.97%
MANGANESE†	82029.6	0.2020	mg/L	0.00265	1.010	mg/L	0.0133	1.31%
MOLYBDENUM†	6189.5	0.2044	mg/L	0.00154	1.022	mg/L	0.0077	0.75%
NICKEL†	12931.6	0.1959	mg/L	0.00192	0.9793	mg/L	0.00962	0.98%
LEAD†	2569.2	0.1992	mg/L	0.00216	0.9959	mg/L	0.01080	1.08%
SELENIUM†	778.9	0.2050	mg/L	0.00040	1.025	mg/L	0.0020	0.20%
SILVER†	47054.1	0.1947	mg/L	0.00335	0.9737	mg/L	0.01677	1.72%
THALLIUM†	727.4	0.2076	mg/L	0.00282	1.038	mg/L	0.0141	1.36%
VANADIUM†	102697.5	0.2213	mg/L	0.01164	1.106	mg/L	0.0582	5.26%
ZINC†	14081.8	0.1956	mg/L	0.00164	0.9779	mg/L	0.00819	0.84%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	105778.0	7.825	mg/L	0.0983	39.13	mg/L	0.491	1.26%
IRON†	2885.7	0.188	mg/L	0.0018	0.938	mg/L	0.0089	0.95%
CALCIUM†	1026962.6	12.3	mg/L	0.17	61.3	mg/L	0.84	1.36%

Sequence No.: 121
Sample ID: 10020428-08APDSD
Analyst: KL
Sample Wt:
Dilution: 5X

Autosampler Location: 86
Date Collected: 2/19/10 8:17:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-08APDSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17855563.0	9.621	mg/L	0.0387				0.40%
ALUMINUM†	4132.3	0.2616	mg/L	0.00365	1.308	mg/L	0.0182	1.39%
ANTIMONY†	652.4	0.2127	mg/L	0.00736	1.064	mg/L	0.0368	3.46%
ARSENIC†	562.2	0.2188	mg/L	0.00177	1.094	mg/L	0.0088	0.81%
BARIUM†	25658.5	0.2805	mg/L	0.00147	1.402	mg/L	0.0074	0.53%
BERYLLIUM†	1197908.9	0.2092	mg/L	0.00137	1.046	mg/L	0.0069	0.66%
CADMIUM†	8070.1	0.2046	mg/L	0.00131	1.023	mg/L	0.0066	0.64%
CHROMIUM†	26024.4	0.2052	mg/L	0.00174	1.026	mg/L	0.0087	0.85%
COBALT†	6212.5	0.1998	mg/L	0.00126	0.9992	mg/L	0.00632	0.63%
COPPER†	31807.7	0.2098	mg/L	0.00258	1.049	mg/L	0.0129	1.23%
MANGANESE†	84194.6	0.2073	mg/L	0.00136	1.036	mg/L	0.0068	0.66%
MOLYBDENUM†	6379.1	0.2106	mg/L	0.00126	1.053	mg/L	0.0063	0.60%
NICKEL†	13351.6	0.2021	mg/L	0.00079	1.011	mg/L	0.0039	0.39%
LEAD†	2653.1	0.2056	mg/L	0.00280	1.028	mg/L	0.0140	1.36%
SELENIUM†	813.4	0.2139	mg/L	0.00598	1.070	mg/L	0.0299	2.79%
SILVER†	48291.4	0.1998	mg/L	0.00126	0.9989	mg/L	0.00631	0.63%
THALLIUM†	745.8	0.2128	mg/L	0.00138	1.064	mg/L	0.0069	0.65%
VANADIUM†	106647.5	0.2298	mg/L	0.00545	1.149	mg/L	0.0272	2.37%
ZINC†	14499.7	0.2013	mg/L	0.00092	1.006	mg/L	0.0046	0.46%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	107511.2	7.953	mg/L	0.0571	39.77	mg/L	0.285	0.72%
IRON†	2940.5	0.191	mg/L	0.0008	0.956	mg/L	0.0042	0.44%

CALCIUM†	1043880.0	12.5 mg/L	0.09	62.3 mg/L	0.44	0.71%

Sequence No.: 122 Autosampler Location: 87
Sample ID: 10020428-13A Date Collected: 2/19/10 8:22:35 PM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: 10020428-13A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
YTTRIUM	18072188.7	9.737	mg/L	0.0157				0.16%
ALUMINUM†	248774.0	13.83	mg/L	0.139	13.83	mg/L	0.139	1.00%
ANTIMONY†	2.2	0.0039	mg/L	0.00303	0.0039	mg/L	0.00303	78.11%
ARSENIC†	18.4	0.0078	mg/L	0.00260	0.0078	mg/L	0.00260	33.39%
BARIUM†	1969.9	0.0244	mg/L	0.00009	0.0244	mg/L	0.00009	0.37%
BERYLLIUM†	27480.7	0.0084	mg/L	0.00002	0.0084	mg/L	0.00002	0.23%
CADMIUM†	1628.8	0.0450	mg/L	0.00041	0.0450	mg/L	0.00041	0.91%
CHROMIUM†	321.7	0.0053	mg/L	0.00049	0.0053	mg/L	0.00049	9.32%
COBALT†	2372.3	0.0785	mg/L	0.00061	0.0785	mg/L	0.00061	0.78%
COPPER†	2340.5	0.0210	mg/L	0.00060	0.0210	mg/L	0.00060	2.85%
MANGANESE†	1129217.5	2.750	mg/L	0.0057	2.750	mg/L	0.0057	0.21%
MOLYBDENUM†	32.1	0.0039	mg/L	0.00044	0.0039	mg/L	0.00044	11.29%
NICKEL†	1836.2	0.0309	mg/L	0.00044	0.0309	mg/L	0.00044	1.42%
LEAD†	6.1	0.0034	mg/L	0.00230	0.0034	mg/L	0.00230	67.40%
SELENIUM†	-30.9	0.0014	mg/L	0.01002	0.0014	mg/L	0.01002	713.23%
SILVER†	-104.2	0.0030	mg/L	0.00041	0.0030	mg/L	0.00041	13.62%
THALLIUM†	-0.9	-0.0008	mg/L	0.00341	-0.0008	mg/L	0.00341	414.94%
VANADIUM†	7119.0	0.0053	mg/L	0.00347	0.0053	mg/L	0.00347	65.90%
ZINC†	6114.6	0.0876	mg/L	0.00003	0.0876	mg/L	0.00003	0.03%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	153692.5	11.37	mg/L	0.099	11.37	mg/L	0.099	0.87%
IRON†	603.1	0.040	mg/L	0.0008	0.040	mg/L	0.0008	2.08%
CALCIUM†	2187204.3	26.1	mg/L	0.04	26.1	mg/L	0.04	0.16%

Sequence No.: 123 Autosampler Location: 88
Sample ID: 10020428-20A Date Collected: 2/19/10 8:27:44 PM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: 10020428-20A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
YTTRIUM	17588817.1	9.477	mg/L	0.0336				0.36%
ALUMINUM†	21493.1	1.408	mg/L	0.0106	1.408	mg/L	0.0106	0.75%
ANTIMONY†	-14.3	0.0023	mg/L	0.00279	0.0023	mg/L	0.00279	122.72%
ARSENIC†	29.9	0.0172	mg/L	0.00355	0.0172	mg/L	0.00355	20.70%
BARIUM†	3670.0	0.0428	mg/L	0.00015	0.0428	mg/L	0.00015	0.34%
BERYLLIUM†	61531.3	0.0142	mg/L	0.00007	0.0142	mg/L	0.00007	0.46%
CADMIUM†	20.1	0.0063	mg/L	0.00026	0.0063	mg/L	0.00026	4.15%
CHROMIUM†	716.0	0.0083	mg/L	0.00025	0.0083	mg/L	0.00025	3.03%
COBALT†	1532.4	0.0520	mg/L	0.00053	0.0520	mg/L	0.00053	1.01%
COPPER†	170.5	0.0026	mg/L	0.00050	0.0026	mg/L	0.00050	18.96%
MANGANESE†	669271.6	1.632	mg/L	0.0147	1.632	mg/L	0.0147	0.90%
MOLYBDENUM†	-64.1	0.0032	mg/L	0.00062	0.0032	mg/L	0.00062	19.54%
NICKEL†	4262.4	0.0652	mg/L	0.00037	0.0652	mg/L	0.00037	0.58%
LEAD†	86.0	0.0145	mg/L	0.00013	0.0145	mg/L	0.00013	0.91%
SELENIUM†	-78.1	-0.0161	mg/L	0.00450	-0.0161	mg/L	0.00450	28.01%
SILVER†	-2471.2	0.0043	mg/L	0.00009	0.0043	mg/L	0.00009	2.01%
THALLIUM†	49.5	0.0059	mg/L	0.00172	0.0059	mg/L	0.00172	29.11%
VANADIUM†	15360.1	0.0139	mg/L	0.00321	0.0139	mg/L	0.00321	23.13%
ZINC†	5344.2	0.0724	mg/L	0.00066	0.0724	mg/L	0.00066	0.91%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1404087.1	104.2	mg/L	0.85	104.2	mg/L	0.85	0.82%

IRON†	593979.4	35.4 mg/L	0.31	35.4 mg/L	0.31	0.86%
CALCIUM†	12030326.1	144 mg/L	0.1	144 mg/L	0.1	0.06%

Sequence No.: 124 **Autosampler Location: 89**
Sample ID: 10020428-02A **Date Collected: 2/19/10 8:32:44 PM**
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 10020428-02A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17663970.8	9.517	mg/L	0.0295				0.31%
ALUMINUM†	3369571.9	186.8	mg/L	1.03	186.8	mg/L	1.03	0.55%
ANTIMONY†	-39.7	-0.0150	mg/L	0.00429	-0.0150	mg/L	0.00429	28.62%
ARSENIC†	51.9	0.0452	mg/L	0.00198	0.0452	mg/L	0.00198	4.38%
BARIUM†	1622.3	0.0210	mg/L	0.00028	0.0210	mg/L	0.00028	1.31%
BERYLLIUM†	139600.4	0.0276	mg/L	0.00024	0.0276	mg/L	0.00024	0.89%
CADMIUM†	-65.4	0.0088	mg/L	0.00044	0.0088	mg/L	0.00044	5.01%
CHROMIUM†	10655.8	0.0857	mg/L	0.00027	0.0857	mg/L	0.00027	0.31%
COBALT†	5073.3	0.1639	mg/L	0.00107	0.1639	mg/L	0.00107	0.65%
COPPER†	-2574.8	-0.0550	mg/L	0.00187	-0.0550	mg/L	0.00187	3.39%
MANGANESE†	1728673.7	4.216	mg/L	0.0226	4.216	mg/L	0.0226	0.54%
MOLYBDENUM†	-363.7	0.0031	mg/L	0.00042	0.0031	mg/L	0.00042	13.64%
NICKEL†	15162.0	0.2199	mg/L	0.00152	0.2199	mg/L	0.00152	0.69%
LEAD†	-183.8	0.0142	mg/L	0.00070	0.0142	mg/L	0.00070	4.92%
SELENIUM†	-336.4	-0.0036	mg/L	0.00712	-0.0036	mg/L	0.00712	196.07%
SILVER†	-12276.0	0.0088	mg/L	0.00010	0.0088	mg/L	0.00010	1.18%
THALLIUM†	84.9	-0.0154	mg/L	0.00324	-0.0154	mg/L	0.00324	20.96%
VANADIUM†	66522.8	0.1838	mg/L	0.00605	0.1838	mg/L	0.00605	3.29%
ZINC†	25682.6	0.3682	mg/L	0.00101	0.3682	mg/L	0.00101	0.27%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1048221.1	79.31	mg/L	0.423	79.31	mg/L	0.423	0.53%
IRON†	3009194.2	179	mg/L	1.0	179	mg/L	1.0	0.55%
CALCIUM†	6573768.2	78.4	mg/L	0.41	78.4	mg/L	0.41	0.53%

Sequence No.: 125 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/19/10 8:37:59 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17899944.3	9.645	mg/L	0.0054				0.06%
ALUMINUM†	11320.0	0.6523	mg/L	0.03793	0.6523	mg/L	0.03793	5.81%
QC value greater than the upper limit for ALUMINUM Recovery = 130.45%								
ANTIMONY†	1542.7	0.4991	mg/L	0.00417	0.4991	mg/L	0.00417	0.84%
QC value within limits for ANTIMONY Recovery = 99.83%								
ARSENIC†	1293.2	0.5024	mg/L	0.00327	0.5024	mg/L	0.00327	0.65%
QC value within limits for ARSENIC Recovery = 100.47%								
BARIUM†	45309.1	0.4929	mg/L	0.00463	0.4929	mg/L	0.00463	0.94%
QC value within limits for BARIUM Recovery = 98.59%								
BERYLLIUM†	2837642.1	0.4906	mg/L	0.00104	0.4906	mg/L	0.00104	0.21%
QC value within limits for BERYLLIUM Recovery = 98.12%								
CADMIUM†	19376.7	0.4847	mg/L	0.00112	0.4847	mg/L	0.00112	0.23%
QC value within limits for CADMIUM Recovery = 96.95%								
CHROMIUM†	62788.8	0.4912	mg/L	0.00466	0.4912	mg/L	0.00466	0.95%
QC value within limits for CHROMIUM Recovery = 98.25%								
COBALT†	15349.5	0.4885	mg/L	0.00136	0.4885	mg/L	0.00136	0.28%
QC value within limits for COBALT Recovery = 97.70%								
COPPER†	73013.7	0.4742	mg/L	0.00362	0.4742	mg/L	0.00362	0.76%
QC value within limits for COPPER Recovery = 94.85%								
MANGANESE†	203972.9	0.4987	mg/L	0.00532	0.4987	mg/L	0.00532	1.07%
QC value within limits for MANGANESE Recovery = 99.75%								

MOLYBDENUM†	15061.8	0.4934 mg/L	0.00196	0.4934 mg/L	0.00196	0.40%
QC value within limits for MOLYBDENUM Recovery = 98.68%						
NICKEL†	33095.2	0.4956 mg/L	0.00526	0.4956 mg/L	0.00526	1.06%
QC value within limits for NICKEL Recovery = 99.12%						
LEAD†	6453.5	0.4959 mg/L	0.00070	0.4959 mg/L	0.00070	0.14%
QC value within limits for LEAD Recovery = 99.18%						
SELENIUM†	1899.6	0.4949 mg/L	0.00477	0.4949 mg/L	0.00477	0.96%
QC value within limits for SELENIUM Recovery = 98.98%						
SILVER†	117752.7	0.4823 mg/L	0.00455	0.4823 mg/L	0.00455	0.94%
QC value within limits for SILVER Recovery = 96.45%						
THALLIUM†	1821.5	0.5206 mg/L	0.00349	0.5206 mg/L	0.00349	0.67%
QC value within limits for THALLIUM Recovery = 104.12%						
VANADIUM†	230464.6	0.5030 mg/L	0.00601	0.5030 mg/L	0.00601	1.20%
QC value within limits for VANADIUM Recovery = 100.59%						
ZINC†	35484.0	0.4874 mg/L	0.00360	0.4874 mg/L	0.00360	0.74%
QC value within limits for ZINC Recovery = 97.47%						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	7101.4	0.5346 mg/L	0.01483	0.5346 mg/L	0.01483	2.77%
QC value within limits for MAGNESIUM Recovery = 106.92%						
IRON†	10037.1	0.630 mg/L	0.0309	0.630 mg/L	0.0309	4.91%
QC value greater than the upper limit for IRON Recovery = 125.91%						
CALCIUM†	44149.6	0.545 mg/L	0.0184	0.545 mg/L	0.0184	3.38%
QC value within limits for CALCIUM Recovery = 108.95%						

QC Failed. Continue with analysis.

Sequence No.: 126
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/19/10 8:43:07 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18011037.5	9.704	mg/L	0.0711				0.73%
ALUMINUM†	450.4	0.0313	mg/L	0.00459	0.0313	mg/L	0.00459	14.67%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	14.9	0.0067	mg/L	0.00090	0.0067	mg/L	0.00090	13.42%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	5.0	0.0026	mg/L	0.00271	0.0026	mg/L	0.00271	105.83%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	-7.8	0.0030	mg/L	0.00040	0.0030	mg/L	0.00040	13.53%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-471.9	0.0036	mg/L	0.00008	0.0036	mg/L	0.00008	2.38%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	44.0	0.0058	mg/L	0.00018	0.0058	mg/L	0.00018	3.10%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	182.9	0.0042	mg/L	0.00023	0.0042	mg/L	0.00023	5.52%
QC value within limits for CHROMIUM Recovery = Not calculated								
COBALT†	-59.3	0.0017	mg/L	0.00043	0.0017	mg/L	0.00043	25.50%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	144.6	0.0059	mg/L	0.00078	0.0059	mg/L	0.00078	13.17%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	64.9	0.0025	mg/L	0.00010	0.0025	mg/L	0.00010	3.76%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	22.0	0.0036	mg/L	0.00029	0.0036	mg/L	0.00029	8.07%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	220.2	0.0069	mg/L	0.00024	0.0069	mg/L	0.00024	3.50%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	32.4	0.0054	mg/L	0.00174	0.0054	mg/L	0.00174	32.19%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	-5.6	0.0021	mg/L	0.00233	0.0021	mg/L	0.00233	111.69%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	31.6	0.0035	mg/L	0.00028	0.0035	mg/L	0.00028	7.78%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	-1.4	-0.0009	mg/L	0.00445	-0.0009	mg/L	0.00445	470.58%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	5173.2	0.0139	mg/L	0.00447	0.0139	mg/L	0.00447	32.09%

QC value within limits for VANADIUM Recovery = Not calculated

ZINC†	-108.3	0.0033 mg/L	0.00037	0.0033 mg/L	0.00037	11.17%

QC value within limits for ZINC Recovery = Not calculated

ARGON	Saturated2					

Saturated in preshot (code 2)

MAGNESIUM†	-332.4	-0.0210 mg/L	0.01534	-0.0210 mg/L	0.01534	72.93%

QC value within limits for MAGNESIUM Recovery = Not calculated

IRON†	-24.3	0.002 mg/L	0.0023	0.002 mg/L	0.0023	96.89%

QC value within limits for IRON Recovery = Not calculated

CALCIUM†	-1069.3	0.004 mg/L	0.0011	0.004 mg/L	0.0011	26.46%

QC value within limits for CALCIUM Recovery = Not calculated

All analytes passed QC.

Sequence No.: 127 **Autosampler Location: 4**
Sample ID: ICSA **Date Collected: 2/19/10 8:47:57 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16267961.8	8.765	mg/L	0.0174				0.20%
ALUMINUM†	9446759.7	524.2	mg/L	0.38	524.2	mg/L	0.38	0.07%

QC value within limits for ALUMINUM Recovery = 104.83%

ANTIMONY†	-79.0	-0.0222 mg/L	0.00403	-0.0222 mg/L	0.00403	18.15%

QC value within limits for ANTIMONY Recovery = Not calculated

ARSENIC†	-151.9	0.0066 mg/L	0.00370	0.0066 mg/L	0.00370	56.09%

QC value within limits for ARSENIC Recovery = Not calculated

BARIUM†	672.2	0.0111 mg/L	0.00117	0.0111 mg/L	0.00117	10.48%

QC value within limits for BARIUM Recovery = Not calculated

BERYLLIUM†	-8089.9	0.0022 mg/L	0.00002	0.0022 mg/L	0.00002	0.88%

QC value within limits for BERYLLIUM Recovery = Not calculated

CADMIUM†	-266.0	0.0130 mg/L	0.00063	0.0130 mg/L	0.00063	4.82%

QC value within limits for CADMIUM Recovery = Not calculated

CHROMIUM†	2306.9	0.0207 mg/L	0.00019	0.0207 mg/L	0.00019	0.94%

QC value greater than the upper limit for CHROMIUM Recovery = Not calculated

COBALT†	-130.8	-0.0006 mg/L	0.00073	-0.0006 mg/L	0.00073	132.46%

QC value within limits for COBALT Recovery = Not calculated

COPPER†	14374.3	-0.0029 mg/L	0.00063	-0.0029 mg/L	0.00063	21.44%

QC value within limits for COPPER Recovery = Not calculated

MANGANESE†	-8521.0	-0.0006 mg/L	0.00005	-0.0006 mg/L	0.00005	7.30%

QC value within limits for MANGANESE Recovery = Not calculated

MOLYBDENUM†	-1071.0	-0.0005 mg/L	0.00102	-0.0005 mg/L	0.00102	192.17%

QC value within limits for MOLYBDENUM Recovery = Not calculated

NICKEL†	1520.0	0.0023 mg/L	0.00047	0.0023 mg/L	0.00047	20.36%

QC value within limits for NICKEL Recovery = Not calculated

LEAD†	-852.1	0.0041 mg/L	0.00120	0.0041 mg/L	0.00120	29.31%

QC value within limits for LEAD Recovery = Not calculated

SELENIUM†	-877.0	0.0008 mg/L	0.01105	0.0008 mg/L	0.01105	>999.9%

QC value within limits for SELENIUM Recovery = Not calculated

SILVER†	-31790.7	0.0190 mg/L	0.00039	0.0190 mg/L	0.00039	2.06%

QC value within limits for SILVER Recovery = Not calculated

THALLIUM†	304.8	-0.0159 mg/L	0.00865	-0.0159 mg/L	0.00865	54.27%

QC value within limits for THALLIUM Recovery = Not calculated

VANADIUM†	35461.9	0.0234 mg/L	0.00246	0.0234 mg/L	0.00246	10.48%

QC value within limits for VANADIUM Recovery = Not calculated

ZINC†	-1588.0	-0.0150 mg/L	0.00029	-0.0150 mg/L	0.00029	1.94%

QC value within limits for ZINC Recovery = Not calculated

ARGON	Saturated2					

Saturated in preshot (code 2)

MAGNESIUM†	7132084.1	532.0 mg/L	1.43	532.0 mg/L	1.43	0.27%

QC value within limits for MAGNESIUM Recovery = 106.40%

IRON†	7890551.1	471 mg/L	1.5	471 mg/L	1.5	0.32%

QC value within limits for IRON Recovery = 94.12%

CALCIUM†	42904934.5	512 mg/L	0.3	512 mg/L	0.3	0.06%

QC value within limits for CALCIUM Recovery = 102.35%

QC Failed. Continue with analysis.

Sequence No.: 128
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/19/10 8:53:21 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16177964.5	8.717	mg/L	0.0047				0.05%
ALUMINUM†	9390373.3	521.2	mg/L	0.45	521.2	mg/L	0.45	0.09%
QC value within limits for ALUMINUM Recovery = 104.23%								
ANTIMONY†	32621.6	10.47	mg/L	0.046	10.47	mg/L	0.046	0.44%
QC value within limits for ANTIMONY Recovery = 104.70%								
ARSENIC†	27501.0	10.78	mg/L	0.055	10.78	mg/L	0.055	0.51%
QC value within limits for ARSENIC Recovery = 107.85%								
BARIUM†	272985.7	2.955	mg/L	0.0061	2.955	mg/L	0.0061	0.21%
QC value within limits for BARIUM Recovery = 98.50%								
BERYLLIUM†	6155429.2	1.060	mg/L	0.0008	1.060	mg/L	0.0008	0.07%
QC value within limits for BERYLLIUM Recovery = 106.00%								
CADMIUM†	133148.8	3.318	mg/L	0.0190	3.318	mg/L	0.0190	0.57%
QC value within limits for CADMIUM Recovery = 110.60%								
CHROMIUM†	389330.8	3.032	mg/L	0.0069	3.032	mg/L	0.0069	0.23%
QC value within limits for CHROMIUM Recovery = 101.05%								
COBALT†	90245.7	2.855	mg/L	0.0106	2.855	mg/L	0.0106	0.37%
QC value within limits for COBALT Recovery = 95.15%								
COPPER†	515059.6	3.220	mg/L	0.0147	3.220	mg/L	0.0147	0.46%
QC value within limits for COPPER Recovery = 107.32%								
MANGANESE†	819807.1	2.015	mg/L	0.0041	2.015	mg/L	0.0041	0.20%
QC value within limits for MANGANESE Recovery = 100.73%								
MOLYBDENUM†	92361.4	3.042	mg/L	0.0089	3.042	mg/L	0.0089	0.29%
QC value within limits for MOLYBDENUM Recovery = 101.39%								
NICKEL†	193398.5	2.855	mg/L	0.0048	2.855	mg/L	0.0048	0.17%
QC value within limits for NICKEL Recovery = 95.17%								
LEAD†	126374.5	9.715	mg/L	0.0370	9.715	mg/L	0.0370	0.38%
QC value within limits for LEAD Recovery = 97.15%								
SELENIUM†	19672.6	5.314	mg/L	0.0479	5.314	mg/L	0.0479	0.90%
QC value within limits for SELENIUM Recovery = 106.29%								
SILVER†	662224.2	2.838	mg/L	0.0176	2.838	mg/L	0.0176	0.62%
QC value within limits for SILVER Recovery = 94.59%								
THALLIUM†	35360.5	10.02	mg/L	0.044	10.02	mg/L	0.044	0.44%
QC value within limits for THALLIUM Recovery = 100.22%								
VANADIUM†	1468672.1	3.132	mg/L	0.0106	3.132	mg/L	0.0106	0.34%
QC value within limits for VANADIUM Recovery = 104.40%								
ZINC†	207697.3	2.830	mg/L	0.0091	2.830	mg/L	0.0091	0.32%
QC value within limits for ZINC Recovery = 94.34%								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	6997927.0	522.0	mg/L	0.83	522.0	mg/L	0.83	0.16%
QC value within limits for MAGNESIUM Recovery = 104.40%								
IRON†	7752729.0	463	mg/L	0.9	463	mg/L	0.9	0.20%
QC value within limits for IRON Recovery = 92.51%								
CALCIUM†	42430585.0	506	mg/L	0.2	506	mg/L	0.2	0.04%
QC value within limits for CALCIUM Recovery = 101.22%								

All analytes passed QC.

Sequence No.: 129
Sample ID: RINSE BLANK
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 90
Date Collected: 2/19/10 8:58:08 PM

Sample Prep Volume:
Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17991166.8	9.694	mg/L	0.0107				0.11%
ALUMINUM†	7198.1	0.4059	mg/L	0.11856	0.4059	mg/L	0.11856	29.21%

ANTIMONY†	35.3	0.0133 mg/L	0.00020	0.0133 mg/L	0.00020	1.52%
ARSENIC†	26.5	0.0110 mg/L	0.00378	0.0110 mg/L	0.00378	34.35%
BARIUM†	135.5	0.0045 mg/L	0.00071	0.0045 mg/L	0.00071	15.68%
BERYLLIUM†	1690.7	0.0039 mg/L	0.00022	0.0039 mg/L	0.00022	5.65%
CADMIUM†	121.1	0.0077 mg/L	0.00092	0.0077 mg/L	0.00092	11.95%
CHROMIUM†	314.2	0.0052 mg/L	0.00085	0.0052 mg/L	0.00085	16.24%
COBALT†	-8.0	0.0033 mg/L	0.00065	0.0033 mg/L	0.00065	19.52%
COPPER†	1518.2	0.0147 mg/L	0.00190	0.0147 mg/L	0.00190	12.94%
MANGANESE†	228.0	0.0029 mg/L	0.00040	0.0029 mg/L	0.00040	13.61%
MOLYBDENUM†	104.8	0.0063 mg/L	0.00044	0.0063 mg/L	0.00044	7.02%
NICKEL†	316.2	0.0083 mg/L	0.00045	0.0083 mg/L	0.00045	5.40%
LEAD†	160.1	0.0152 mg/L	0.00165	0.0152 mg/L	0.00165	10.85%
SELENIUM†	14.3	0.0074 mg/L	0.00105	0.0074 mg/L	0.00105	14.21%
SILVER†	769.8	0.0067 mg/L	0.00105	0.0067 mg/L	0.00105	15.72%
THALLIUM†	52.3	0.0143 mg/L	0.00452	0.0143 mg/L	0.00452	31.53%
VANADIUM†	7518.1	0.0190 mg/L	0.00127	0.0190 mg/L	0.00127	6.68%
ZINC†	292.8	0.0088 mg/L	0.00127	0.0088 mg/L	0.00127	14.43%
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	5216.2	0.3932 mg/L	0.13400	0.3932 mg/L	0.13400	34.08%
IRON†	6698.0	0.403 mg/L	0.1283	0.403 mg/L	0.1283	31.80%
CALCIUM†	31809.8	0.396 mg/L	0.1297	0.396 mg/L	0.1297	32.73%

Sequence No.: 130
Sample ID: RINSE BLANK
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 91
Date Collected: 2/19/10 9:03:00 PM
Sample Prep Volume:
Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
YTTRIUM	17985636.9	9.691	mg/L	0.0676				0.70%
ALUMINUM†	1331.8	0.0803	mg/L	0.01817	0.0803	mg/L	0.01817	22.63%
ANTIMONY†	12.3	0.0059	mg/L	0.00310	0.0059	mg/L	0.00310	52.44%
ARSENIC†	12.3	0.0054	mg/L	0.00544	0.0054	mg/L	0.00544	100.01%
BARIUM†	-14.1	0.0029	mg/L	0.00018	0.0029	mg/L	0.00018	6.27%
BERYLLIUM†	-1935.7	0.0033	mg/L	0.00005	0.0033	mg/L	0.00005	1.50%
CADMIUM†	39.5	0.0057	mg/L	0.00065	0.0057	mg/L	0.00065	11.50%
CHROMIUM†	146.6	0.0039	mg/L	0.00056	0.0039	mg/L	0.00056	14.44%
COBALT†	-73.2	0.0013	mg/L	0.00046	0.0013	mg/L	0.00046	36.49%
COPPER†	471.8	0.0080	mg/L	0.00052	0.0080	mg/L	0.00052	6.51%
MANGANESE†	-211.8	0.0019	mg/L	0.00011	0.0019	mg/L	0.00011	5.80%
MOLYBDENUM†	32.6	0.0039	mg/L	0.00023	0.0039	mg/L	0.00023	5.78%
NICKEL†	213.0	0.0068	mg/L	0.00051	0.0068	mg/L	0.00051	7.52%
LEAD†	56.0	0.0072	mg/L	0.00109	0.0072	mg/L	0.00109	15.10%
SELENIUM†	-11.6	0.0006	mg/L	0.00388	0.0006	mg/L	0.00388	686.51%
SILVER†	-25.6	0.0033	mg/L	0.00023	0.0033	mg/L	0.00023	6.97%
THALLIUM†	14.8	0.0037	mg/L	0.00045	0.0037	mg/L	0.00045	12.34%
VANADIUM†	6091.4	0.0159	mg/L	0.00455	0.0159	mg/L	0.00455	28.65%
ZINC†	-53.6	0.0040	mg/L	0.00019	0.0040	mg/L	0.00019	4.75%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	478.3	0.0394	mg/L	0.01311	0.0394	mg/L	0.01311	33.30%
IRON†	756.6	0.049	mg/L	0.0122	0.049	mg/L	0.0122	24.94%
CALCIUM†	2137.4	0.042	mg/L	0.0176	0.042	mg/L	0.0176	41.74%

Sequence No.: 131
Sample ID: MBLK-87096
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 92
Date Collected: 2/19/10 9:07:51 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MBLK-87096

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
YTTRIUM	18053500.0	9.727	mg/L	0.0646				0.66%

ALUMINUM†	1364.4	0.0821 mg/L	0.01119	0.0821 mg/L	0.01119	13.64%
ANTIMONY†	-4.0	0.0007 mg/L	0.00495	0.0007 mg/L	0.00495	720.25%
ARSENIC†	9.8	0.0045 mg/L	0.00294	0.0045 mg/L	0.00294	65.82%
BARIUM†	-4.0	0.0030 mg/L	0.00007	0.0030 mg/L	0.00007	2.41%
BERYLLIUM†	-2053.0	0.0033 mg/L	0.00009	0.0033 mg/L	0.00009	2.70%
CADMIUM†	34.9	0.0056 mg/L	0.00006	0.0056 mg/L	0.00006	1.03%
CHROMIUM†	62.9	0.0033 mg/L	0.00010	0.0033 mg/L	0.00010	2.93%
COBALT†	-66.4	0.0015 mg/L	0.00029	0.0015 mg/L	0.00029	19.36%
COPPER†	183.7	0.0061 mg/L	0.00101	0.0061 mg/L	0.00101	16.43%
MANGANESE†	-269.2	0.0017 mg/L	0.00012	0.0017 mg/L	0.00012	6.79%
MOLYBDENUM†	14.3	0.0033 mg/L	0.00038	0.0033 mg/L	0.00038	11.44%
NICKEL†	194.9	0.0065 mg/L	0.00038	0.0065 mg/L	0.00038	5.90%
LEAD†	47.5	0.0066 mg/L	0.00076	0.0066 mg/L	0.00076	11.56%
SELENIUM†	-20.1	-0.0016 mg/L	0.00141	-0.0016 mg/L	0.00141	86.75%
SILVER†	-126.5	0.0029 mg/L	0.00037	0.0029 mg/L	0.00037	12.64%
THALLIUM†	7.2	0.0015 mg/L	0.00589	0.0015 mg/L	0.00589	393.58%
VANADIUM†	5463.1	0.0145 mg/L	0.00438	0.0145 mg/L	0.00438	30.14%
ZINC†	15.5	0.0050 mg/L	0.00039	0.0050 mg/L	0.00039	7.79%
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	431.3	0.0359 mg/L	0.01054	0.0359 mg/L	0.01054	29.34%
IRON†	778.4	0.050 mg/L	0.0059	0.050 mg/L	0.0059	11.66%
CALCIUM†	3524.6	0.059 mg/L	0.0054	0.059 mg/L	0.0054	9.22%

Sequence No.: 132
Sample ID: LCS-87096
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 93
Date Collected: 2/19/10 9:12:42 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-87096

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18077077.1	9.740	mg/L	0.0487				0.50%
ALUMINUM†	93934.2	5.223	mg/L	0.0372	5.223	mg/L	0.0372	0.71%
ANTIMONY†	336.1	0.1103	mg/L	0.00513	0.1103	mg/L	0.00513	4.65%
ARSENIC†	298.0	0.1170	mg/L	0.00220	0.1170	mg/L	0.00220	1.88%
BARIUM†	9913.0	0.1102	mg/L	0.00058	0.1102	mg/L	0.00058	0.53%
BERYLLIUM†	616698.0	0.1095	mg/L	0.00050	0.1095	mg/L	0.00050	0.46%
CADMIUM†	4145.4	0.1076	mg/L	0.00097	0.1076	mg/L	0.00097	0.90%
CHROMIUM†	13674.5	0.1091	mg/L	0.00115	0.1091	mg/L	0.00115	1.05%
COBALT†	3231.6	0.1057	mg/L	0.00019	0.1057	mg/L	0.00019	0.18%
COPPER†	16873.3	0.1124	mg/L	0.00041	0.1124	mg/L	0.00041	0.36%
MANGANESE†	43277.8	0.1079	mg/L	0.00069	0.1079	mg/L	0.00069	0.64%
MOLYBDENUM†	3179.2	0.1068	mg/L	0.00071	0.1068	mg/L	0.00071	0.67%
NICKEL†	7249.6	0.1111	mg/L	0.00117	0.1111	mg/L	0.00117	1.05%
LEAD†	1412.6	0.1116	mg/L	0.00050	0.1116	mg/L	0.00050	0.45%
SELENIUM†	2035.1	0.5323	mg/L	0.00783	0.5323	mg/L	0.00783	1.47%
SILVER†	25291.0	0.1079	mg/L	0.00034	0.1079	mg/L	0.00034	0.32%
THALLIUM†	418.5	0.1181	mg/L	0.00076	0.1181	mg/L	0.00076	0.65%
VANADIUM†	56449.5	0.1253	mg/L	0.00391	0.1253	mg/L	0.00391	3.12%
ZINC†	7425.3	0.1058	mg/L	0.00057	0.1058	mg/L	0.00057	0.54%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	75670.7	5.652	mg/L	0.0242	5.652	mg/L	0.0242	0.43%
IRON†	89209.4	5.33	mg/L	0.026	5.33	mg/L	0.026	0.49%
CALCIUM†	456527.2	5.46	mg/L	0.033	5.46	mg/L	0.033	0.61%

Sequence No.: 133
Sample ID: 10020428-19A
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 94
Date Collected: 2/19/10 9:17:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-19A

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

YTTRIUM	17883546.2	9.636 mg/L	0.0476			0.49%
ALUMINUM†	1011.0	0.0710 mg/L	0.00309	0.0710 mg/L	0.00309	4.35%
ANTIMONY†	3.0	0.0032 mg/L	0.00586	0.0032 mg/L	0.00586	185.31%
ARSENIC†	34.2	0.0140 mg/L	0.00213	0.0140 mg/L	0.00213	15.27%
BARIUM†	3167.7	0.0373 mg/L	0.00025	0.0373 mg/L	0.00025	0.68%
BERYLLIUM†	-2241.1	0.0033 mg/L	0.00005	0.0033 mg/L	0.00005	1.68%
CADMIUM†	44.2	0.0058 mg/L	0.00005	0.0058 mg/L	0.00005	0.89%
CHROMIUM†	139.4	0.0039 mg/L	0.00042	0.0039 mg/L	0.00042	10.89%
COBALT†	-73.5	0.0013 mg/L	0.00033	0.0013 mg/L	0.00033	26.64%
COPPER†	573.5	0.0088 mg/L	0.00031	0.0088 mg/L	0.00031	3.55%
MANGANESE†	3138.9	0.0100 mg/L	0.00002	0.0100 mg/L	0.00002	0.22%
MOLYBDENUM†	141.5	0.0075 mg/L	0.00060	0.0075 mg/L	0.00060	8.05%
NICKEL†	249.5	0.0073 mg/L	0.00018	0.0073 mg/L	0.00018	2.50%
LEAD†	36.7	0.0057 mg/L	0.00067	0.0057 mg/L	0.00067	11.59%
SELENIUM†	-19.8	-0.0016 mg/L	0.00156	-0.0016 mg/L	0.00156	98.16%
SILVER†	-190.5	0.0027 mg/L	0.00004	0.0027 mg/L	0.00004	1.65%
THALLIUM†	2.2	0.0001 mg/L	0.00347	0.0001 mg/L	0.00347	>999.9%
VANADIUM†	9881.7	0.0223 mg/L	0.00339	0.0223 mg/L	0.00339	15.26%
ZINC†	95.9	0.0058 mg/L	0.00010	0.0058 mg/L	0.00010	1.68%
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	42540.5	3.149 mg/L	0.0143	3.149 mg/L	0.0143	0.45%
IRON†	508.3	0.035 mg/L	0.0030	0.035 mg/L	0.0030	8.77%
CALCIUM†	472070.8	5.65 mg/L	0.024	5.65 mg/L	0.024	0.43%

Sequence No.: 134
Sample ID: 10020428-19ASD
Analyst: KL
Sample Wt:
Dilution: 5X

Autosampler Location: 95
Date Collected: 2/19/10 9:22:28 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-19ASD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	18056000.2	9.729	mg/L	0.0437				0.45%
ALUMINUM†	300.2	0.0246	mg/L	0.00456	0.1228	mg/L	0.02282	18.58%
ANTIMONY†	1.7	0.0026	mg/L	0.00131	0.0128	mg/L	0.00657	51.40%
ARSENIC†	20.7	0.0087	mg/L	0.00070	0.0436	mg/L	0.00352	8.07%
BARIUM†	571.8	0.0092	mg/L	0.00012	0.0461	mg/L	0.00058	1.26%
BERYLLIUM†	-2469.5	0.0032	mg/L	0.00001	0.0161	mg/L	0.00006	0.38%
CADMIUM†	36.6	0.0056	mg/L	0.00029	0.0280	mg/L	0.00147	5.25%
CHROMIUM†	99.0	0.0035	mg/L	0.00045	0.0177	mg/L	0.00225	12.70%
COBALT†	-79.6	0.0011	mg/L	0.00012	0.0053	mg/L	0.00061	11.44%
COPPER†	194.0	0.0062	mg/L	0.00034	0.0312	mg/L	0.00172	5.51%
MANGANESE†	334.2	0.0032	mg/L	0.00003	0.0160	mg/L	0.00014	0.87%
MOLYBDENUM†	40.3	0.0042	mg/L	0.00042	0.0209	mg/L	0.00212	10.14%
NICKEL†	200.8	0.0066	mg/L	0.00040	0.0331	mg/L	0.00198	5.99%
LEAD†	39.3	0.0059	mg/L	0.00059	0.0297	mg/L	0.00294	9.90%
SELENIUM†	2.1	0.0041	mg/L	0.00282	0.0204	mg/L	0.01411	69.10%
SILVER†	-120.7	0.0029	mg/L	0.00040	0.0146	mg/L	0.00201	13.72%
THALLIUM†	-3.2	-0.0015	mg/L	0.00629	-0.0073	mg/L	0.03147	431.07%
VANADIUM†	6017.5	0.0154	mg/L	0.00289	0.0770	mg/L	0.01445	18.76%
ZINC†	-122.9	0.0030	mg/L	0.00015	0.0152	mg/L	0.00073	4.82%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	7532.9	0.5604	mg/L	0.00179	2.802	mg/L	0.0089	0.32%
IRON†	-116.7	-0.003	mg/L	0.0012	-0.015	mg/L	0.0062	40.12%
CALCIUM†	84728.3	1.03	mg/L	0.000	5.14	mg/L	0.002	0.05%

Sequence No.: 135
Sample ID: 10020428-19AMS
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 96
Date Collected: 2/19/10 9:27:19 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-19AMS

Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
YTTRIUM	17862411.8	9.624	mg/L	0.0839				0.87%
ALUMINUM†	91265.6	5.083	mg/L	0.0596	5.083	mg/L	0.0596	1.17%
ANTIMONY†	332.6	0.1094	mg/L	0.00429	0.1094	mg/L	0.00429	3.92%
ARSENIC†	315.6	0.1239	mg/L	0.00314	0.1239	mg/L	0.00314	2.53%
BARIUM†	12866.6	0.1422	mg/L	0.00103	0.1422	mg/L	0.00103	0.73%
BERYLLIUM†	594656.0	0.1057	mg/L	0.00114	0.1057	mg/L	0.00114	1.07%
CADMIUM†	4184.9	0.1085	mg/L	0.00094	0.1085	mg/L	0.00094	0.86%
CHROMIUM†	13081.5	0.1045	mg/L	0.00064	0.1045	mg/L	0.00064	0.61%
COBALT†	3113.8	0.1019	mg/L	0.00059	0.1019	mg/L	0.00059	0.58%
COPPER†	16925.7	0.1130	mg/L	0.00156	0.1130	mg/L	0.00156	1.38%
MANGANESE†	44388.0	0.1106	mg/L	0.00117	0.1106	mg/L	0.00117	1.06%
MOLYBDENUM†	3222.3	0.1081	mg/L	0.00136	0.1081	mg/L	0.00136	1.26%
NICKEL†	6953.1	0.1067	mg/L	0.00108	0.1067	mg/L	0.00108	1.01%
LEAD†	1382.3	0.1092	mg/L	0.00163	0.1092	mg/L	0.00163	1.49%
SELENIUM†	2049.7	0.5361	mg/L	0.00904	0.5361	mg/L	0.00904	1.69%
SILVER†	25351.0	0.1081	mg/L	0.00103	0.1081	mg/L	0.00103	0.95%
THALLIUM†	390.8	0.1101	mg/L	0.00237	0.1101	mg/L	0.00237	2.15%
VANADIUM†	57152.7	0.1249	mg/L	0.00639	0.1249	mg/L	0.00639	5.11%
ZINC†	7597.5	0.1079	mg/L	0.00100	0.1079	mg/L	0.00100	0.92%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	116555.8	8.673	mg/L	0.0925	8.673	mg/L	0.0925	1.07%
IRON†	87025.4	5.20	mg/L	0.059	5.20	mg/L	0.059	1.14%
CALCIUM†	917217.6	11.0	mg/L	0.12	11.0	mg/L	0.12	1.13%

Sequence No.: 136
Sample ID: 10020428-19AMSD
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 2/19/10 9:32:13 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-19AMSD

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17923946.3	9.657	mg/L	0.0311				0.32%
ALUMINUM†	87965.8	4.900	mg/L	0.0176	4.900	mg/L	0.0176	0.36%
ANTIMONY†	311.5	0.1026	mg/L	0.00138	0.1026	mg/L	0.00138	1.35%
ARSENIC†	293.2	0.1151	mg/L	0.00628	0.1151	mg/L	0.00628	5.46%
BARIUM†	12257.0	0.1356	mg/L	0.00044	0.1356	mg/L	0.00044	0.32%
BERYLLIUM†	572968.9	0.1020	mg/L	0.00030	0.1020	mg/L	0.00030	0.29%
CADMIUM†	4031.5	0.1047	mg/L	0.00042	0.1047	mg/L	0.00042	0.40%
CHROMIUM†	12407.2	0.0993	mg/L	0.00071	0.0993	mg/L	0.00071	0.71%
COBALT†	2978.4	0.0977	mg/L	0.00001	0.0977	mg/L	0.00001	0.01%
COPPER†	16204.2	0.1083	mg/L	0.00085	0.1083	mg/L	0.00085	0.78%
MANGANESE†	43413.7	0.1082	mg/L	0.00018	0.1082	mg/L	0.00018	0.17%
MOLYBDENUM†	3074.4	0.1033	mg/L	0.00066	0.1033	mg/L	0.00066	0.64%
NICKEL†	6618.8	0.1018	mg/L	0.00030	0.1018	mg/L	0.00030	0.29%
LEAD†	1342.8	0.1062	mg/L	0.00232	0.1062	mg/L	0.00232	2.18%
SELENIUM†	1982.2	0.5185	mg/L	0.00478	0.5185	mg/L	0.00478	0.92%
SILVER†	24915.4	0.1062	mg/L	0.00066	0.1062	mg/L	0.00066	0.62%
THALLIUM†	392.1	0.1106	mg/L	0.00581	0.1106	mg/L	0.00581	5.25%
VANADIUM†	55757.2	0.1220	mg/L	0.00291	0.1220	mg/L	0.00291	2.39%
ZINC†	7181.6	0.1023	mg/L	0.00050	0.1023	mg/L	0.00050	0.49%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	112825.5	8.395	mg/L	0.0190	8.395	mg/L	0.0190	0.23%
IRON†	84445.0	5.05	mg/L	0.017	5.05	mg/L	0.017	0.33%
CALCIUM†	887729.8	10.6	mg/L	0.04	10.6	mg/L	0.04	0.34%

Sequence No.: 137
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/19/10 9:37:07 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	18039614.3	9.720	mg/L	0.0391				0.40%
ALUMINUM†	8906.2	0.5183	mg/L	0.00563	0.5183	mg/L	0.00563	1.09%
QC value within limits for ALUMINUM Recovery = 103.66%								
ANTIMONY†	1518.3	0.4913	mg/L	0.00211	0.4913	mg/L	0.00211	0.43%
QC value within limits for ANTIMONY Recovery = 98.26%								
ARSENIC†	1293.7	0.5025	mg/L	0.00059	0.5025	mg/L	0.00059	0.12%
QC value within limits for ARSENIC Recovery = 100.50%								
BARIUM†	44994.2	0.4895	mg/L	0.00460	0.4895	mg/L	0.00460	0.94%
QC value within limits for BARIUM Recovery = 97.91%								
BERYLLIUM†	2821755.6	0.4879	mg/L	0.00215	0.4879	mg/L	0.00215	0.44%
QC value within limits for BERYLLIUM Recovery = 97.58%								
CADMIUM†	19272.0	0.4821	mg/L	0.00141	0.4821	mg/L	0.00141	0.29%
QC value within limits for CADMIUM Recovery = 96.43%								
CHROMIUM†	62492.9	0.4889	mg/L	0.00415	0.4889	mg/L	0.00415	0.85%
QC value within limits for CHROMIUM Recovery = 97.79%								
COBALT†	15305.5	0.4871	mg/L	0.00061	0.4871	mg/L	0.00061	0.13%
QC value within limits for COBALT Recovery = 97.42%								
COPPER†	72819.9	0.4730	mg/L	0.00501	0.4730	mg/L	0.00501	1.06%
QC value within limits for COPPER Recovery = 94.61%								
MANGANESE†	200696.6	0.4908	mg/L	0.00397	0.4908	mg/L	0.00397	0.81%
QC value within limits for MANGANESE Recovery = 98.15%								
MOLYBDENUM†	14997.0	0.4913	mg/L	0.00130	0.4913	mg/L	0.00130	0.27%
QC value within limits for MOLYBDENUM Recovery = 98.26%								
NICKEL†	32904.4	0.4928	mg/L	0.00396	0.4928	mg/L	0.00396	0.80%
QC value within limits for NICKEL Recovery = 98.55%								
LEAD†	6403.3	0.4920	mg/L	0.00151	0.4920	mg/L	0.00151	0.31%
QC value within limits for LEAD Recovery = 98.41%								
SELENIUM†	1889.4	0.4922	mg/L	0.00877	0.4922	mg/L	0.00877	1.78%
QC value within limits for SELENIUM Recovery = 98.45%								
SILVER†	117450.8	0.4810	mg/L	0.00469	0.4810	mg/L	0.00469	0.98%
QC value within limits for SILVER Recovery = 96.20%								
THALLIUM†	1829.1	0.5228	mg/L	0.00151	0.5228	mg/L	0.00151	0.29%
QC value within limits for THALLIUM Recovery = 104.56%								
VANADIUM†	228648.5	0.4990	mg/L	0.00829	0.4990	mg/L	0.00829	1.66%
QC value within limits for VANADIUM Recovery = 99.80%								
ZINC†	35397.7	0.4862	mg/L	0.00461	0.4862	mg/L	0.00461	0.95%
QC value within limits for ZINC Recovery = 97.24%								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	6386.3	0.4805	mg/L	0.00224	0.4805	mg/L	0.00224	0.47%
QC value within limits for MAGNESIUM Recovery = 96.09%								
IRON†	7942.1	0.504	mg/L	0.0012	0.504	mg/L	0.0012	0.24%
QC value within limits for IRON Recovery = 100.88%								
CALCIUM†	39049.6	0.484	mg/L	0.0043	0.484	mg/L	0.0043	0.88%
QC value within limits for CALCIUM Recovery = 96.79%								

All analytes passed QC.

Sequence No.: 138 **Autosampler Location: 7**
Sample ID: CCB **Date Collected: 2/19/10 9:42:16 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17897289.3	9.643	mg/L	0.0395				0.41%
ALUMINUM†	264.3	0.0212	mg/L	0.00912	0.0212	mg/L	0.00912	43.13%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	11.7	0.0057	mg/L	0.00254	0.0057	mg/L	0.00254	44.68%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	11.6	0.0051	mg/L	0.00292	0.0051	mg/L	0.00292	57.01%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	-10.0	0.0029	mg/L	0.00019	0.0029	mg/L	0.00019	6.35%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	0.2	0.0036	mg/L	0.00010	0.0036	mg/L	0.00010	2.78%
QC value within limits for BERYLLIUM Recovery = Not calculated								

CADMIUM†	50.9	0.0060 mg/L	0.00004	0.0060 mg/L	0.00004	0.60%
QC value within limits for CADMIUM Recovery = Not calculated						
CHROMIUM†	169.2	0.0041 mg/L	0.00011	0.0041 mg/L	0.00011	2.61%
QC value within limits for CHROMIUM Recovery = Not calculated						
COBALT†	-72.2	0.0013 mg/L	0.00051	0.0013 mg/L	0.00051	39.47%
QC value within limits for COBALT Recovery = Not calculated						
COPPER†	199.9	0.0062 mg/L	0.00028	0.0062 mg/L	0.00028	4.42%
QC value within limits for COPPER Recovery = Not calculated						
MANGANESE†	-181.9	0.0019 mg/L	0.00008	0.0019 mg/L	0.00008	4.14%
QC value within limits for MANGANESE Recovery = Not calculated						
MOLYBDENUM†	27.6	0.0038 mg/L	0.00014	0.0038 mg/L	0.00014	3.80%
QC value within limits for MOLYBDENUM Recovery = Not calculated						
NICKEL†	233.7	0.0071 mg/L	0.00054	0.0071 mg/L	0.00054	7.55%
QC value within limits for NICKEL Recovery = Not calculated						
LEAD†	41.4	0.0061 mg/L	0.00107	0.0061 mg/L	0.00107	17.51%
QC value within limits for LEAD Recovery = Not calculated						
SELENIUM†	2.0	0.0040 mg/L	0.00106	0.0040 mg/L	0.00106	26.20%
QC value within limits for SELENIUM Recovery = Not calculated						
SILVER†	-54.5	0.0032 mg/L	0.00017	0.0032 mg/L	0.00017	5.33%
QC value within limits for SILVER Recovery = Not calculated						
THALLIUM†	5.5	0.0010 mg/L	0.00276	0.0010 mg/L	0.00276	268.17%
QC value within limits for THALLIUM Recovery = Not calculated						
VANADIUM†	7234.7	0.0184 mg/L	0.00324	0.0184 mg/L	0.00324	17.68%
QC value within limits for VANADIUM Recovery = Not calculated						
ZINC†	-117.0	0.0032 mg/L	0.00005	0.0032 mg/L	0.00005	1.72%
QC value within limits for ZINC Recovery = Not calculated						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	-405.3	-0.0266 mg/L	0.00851	-0.0266 mg/L	0.00851	32.01%
QC value within limits for MAGNESIUM Recovery = Not calculated						
IRON†	-288.8	-0.013 mg/L	0.0015	-0.013 mg/L	0.0015	11.34%
QC value within limits for IRON Recovery = Not calculated						
CALCIUM†	-1757.1	-0.004 mg/L	0.0032	-0.004 mg/L	0.0032	75.62%
QC value within limits for CALCIUM Recovery = Not calculated						

All analytes passed QC.

Sequence No.: 139 **Autosampler Location:** 98
Sample ID: 10020428-19APDS **Date Collected:** 2/19/10 9:47:05 PM
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: 5X **Data Type:** Original

Mean Data: 10020428-19APDS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17998890.1	9.698	mg/L	0.0116				0.12%
ALUMINUM†	3655.9	0.2181	mg/L	0.00788	1.090	mg/L	0.0394	3.61%
ANTIMONY†	631.1	0.2053	mg/L	0.00449	1.027	mg/L	0.0224	2.19%
ARSENIC†	548.1	0.2133	mg/L	0.00437	1.067	mg/L	0.0218	2.05%
BARIUM†	18689.9	0.2051	mg/L	0.00066	1.026	mg/L	0.0033	0.32%
BERYLLIUM†	1135839.1	0.1986	mg/L	0.00156	0.9928	mg/L	0.00781	0.79%
CADMIUM†	7799.3	0.1979	mg/L	0.00111	0.9896	mg/L	0.00555	0.56%
CHROMIUM†	25125.8	0.1982	mg/L	0.00186	0.9912	mg/L	0.00928	0.94%
COBALT†	6109.9	0.1966	mg/L	0.00050	0.9830	mg/L	0.00250	0.25%
COPPER†	29719.3	0.1960	mg/L	0.00196	0.9802	mg/L	0.00978	1.00%
MANGANESE†	82168.9	0.2023	mg/L	0.00179	1.012	mg/L	0.0089	0.88%
MOLYBDENUM†	6063.0	0.2003	mg/L	0.00080	1.002	mg/L	0.0040	0.40%
NICKEL†	13174.7	0.1995	mg/L	0.00048	0.9974	mg/L	0.00242	0.24%
LEAD†	2600.1	0.2015	mg/L	0.00136	1.008	mg/L	0.0068	0.67%
SELENIUM†	757.6	0.1995	mg/L	0.00059	0.9974	mg/L	0.00296	0.30%
SILVER†	46330.3	0.1918	mg/L	0.00177	0.9590	mg/L	0.00886	0.92%
THALLIUM†	723.9	0.2066	mg/L	0.00278	1.033	mg/L	0.0139	1.35%
VANADIUM†	97741.9	0.2144	mg/L	0.00590	1.072	mg/L	0.0295	2.75%
ZINC†	14143.0	0.1971	mg/L	0.00074	0.9853	mg/L	0.00372	0.38%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	10289.5	0.7661	mg/L	0.00424	3.830	mg/L	0.0212	0.55%
IRON†	3099.3	0.200	mg/L	0.0006	0.999	mg/L	0.0029	0.29%
CALCIUM†	102989.7	1.25	mg/L	0.009	6.23	mg/L	0.043	0.70%

Sequence No.: 140
Sample ID: 10020428-19APDSD
Analyst: KL
Sample Wt:
Dilution: 5X

Autosampler Location: 99
Date Collected: 2/19/10 9:52:03 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-19APDSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17894607.2	9.642	mg/L	0.0594				0.62%
ALUMINUM†	3775.5	0.2252	mg/L	0.00293	1.126	mg/L	0.0146	1.30%
ANTIMONY†	637.6	0.2075	mg/L	0.00603	1.037	mg/L	0.0302	2.91%
ARSENIC†	551.2	0.2145	mg/L	0.00339	1.073	mg/L	0.0169	1.58%
BARIUM†	19149.0	0.2101	mg/L	0.00039	1.050	mg/L	0.0019	0.19%
BERYLLIUM†	1164796.5	0.2035	mg/L	0.00127	1.018	mg/L	0.0063	0.62%
CADMIUM†	7973.7	0.2022	mg/L	0.00066	1.011	mg/L	0.0033	0.33%
CHROMIUM†	25774.1	0.2033	mg/L	0.00155	1.016	mg/L	0.0077	0.76%
COBALT†	6278.9	0.2019	mg/L	0.00047	1.010	mg/L	0.0024	0.23%
COPPER†	30504.3	0.2011	mg/L	0.00175	1.005	mg/L	0.0087	0.87%
MANGANESE†	84279.5	0.2075	mg/L	0.00106	1.037	mg/L	0.0053	0.51%
MOLYBDENUM†	6221.3	0.2055	mg/L	0.00056	1.027	mg/L	0.0028	0.27%
NICKEL†	13496.7	0.2043	mg/L	0.00067	1.021	mg/L	0.0034	0.33%
LEAD†	2674.5	0.2072	mg/L	0.00096	1.036	mg/L	0.0048	0.46%
SELENIUM†	794.7	0.2091	mg/L	0.00337	1.045	mg/L	0.0169	1.61%
SILVER†	47411.6	0.1962	mg/L	0.00153	0.9810	mg/L	0.00764	0.78%
THALLIUM†	741.2	0.2115	mg/L	0.00335	1.058	mg/L	0.0168	1.59%
VANADIUM†	102161.4	0.2240	mg/L	0.00364	1.120	mg/L	0.0182	1.62%
ZINC†	14410.1	0.2007	mg/L	0.00035	1.003	mg/L	0.0018	0.17%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	10688.4	0.7956	mg/L	0.00238	3.978	mg/L	0.0119	0.30%
IRON†	3114.9	0.201	mg/L	0.0013	1.01	mg/L	0.006	0.63%
CALCIUM†	107756.7	1.30	mg/L	0.008	6.51	mg/L	0.042	0.65%

Sequence No.: 141
Sample ID: 10020428-22A
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 2/19/10 9:57:01 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-22A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17692829.6	9.533	mg/L	0.0245				0.26%
ALUMINUM†	127726.2	7.178	mg/L	0.1079	7.178	mg/L	0.1079	1.50%
ANTIMONY†	-3.2	0.0029	mg/L	0.00061	0.0029	mg/L	0.00061	20.67%
ARSENIC†	2.9	0.0046	mg/L	0.00281	0.0046	mg/L	0.00281	60.53%
BARIUM†	1176.5	0.0158	mg/L	0.00014	0.0158	mg/L	0.00014	0.86%
BERYLLIUM†	57757.4	0.0135	mg/L	0.00006	0.0135	mg/L	0.00006	0.43%
CADMIUM†	153.8	0.0092	mg/L	0.00015	0.0092	mg/L	0.00015	1.64%
CHROMIUM†	3734.6	0.0318	mg/L	0.00021	0.0318	mg/L	0.00021	0.66%
COBALT†	1235.3	0.0426	mg/L	0.00060	0.0426	mg/L	0.00060	1.40%
COPPER†	45.4	0.0019	mg/L	0.00126	0.0019	mg/L	0.00126	64.79%
MANGANESE†	708694.6	1.728	mg/L	0.0228	1.728	mg/L	0.0228	1.32%
MOLYBDENUM†	-49.3	0.0028	mg/L	0.00029	0.0028	mg/L	0.00029	10.55%
NICKEL†	3151.8	0.0493	mg/L	0.00021	0.0493	mg/L	0.00021	0.42%
LEAD†	48.9	0.0099	mg/L	0.00116	0.0099	mg/L	0.00116	11.77%
SELENIUM†	-29.3	-0.0010	mg/L	0.00319	-0.0010	mg/L	0.00319	314.73%
SILVER†	-1487.1	0.0043	mg/L	0.00071	0.0043	mg/L	0.00071	16.53%
THALLIUM†	16.4	-0.0008	mg/L	0.00023	-0.0008	mg/L	0.00023	29.64%
VANADIUM†	25284.7	0.0544	mg/L	0.00639	0.0544	mg/L	0.00639	11.75%
ZINC†	7904.6	0.1125	mg/L	0.00060	0.1125	mg/L	0.00060	0.53%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	419444.5	31.24	mg/L	0.378	31.24	mg/L	0.378	1.21%
IRON†	376780.8	22.5	mg/L	0.28	22.5	mg/L	0.28	1.24%

CALCIUM†	5335335.0	63.7 mg/L	0.44	63.7 mg/L	0.44	0.70%

Sequence No.: 142
Sample ID: 10020428-23A
Analyst: KL
Sample Wt:
Dilution:
Autosampler Location: 101
Date Collected: 2/19/10 10:02:12 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-23A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17369683.6	9.359	mg/L	0.0047				0.05%
ALUMINUM†	7588496.1	420.7	mg/L	0.32	420.7	mg/L	0.32	0.08%
ANTIMONY†	-52.5	-0.0164	mg/L	0.00205	-0.0164	mg/L	0.00205	12.55%
ARSENIC†	154.2	0.0915	mg/L	0.00545	0.0915	mg/L	0.00545	5.96%
BARIUM†	1545.3	0.0204	mg/L	0.00020	0.0204	mg/L	0.00020	0.96%
BERYLLIUM†	238519.5	0.0446	mg/L	0.00017	0.0446	mg/L	0.00017	0.38%
CADMIUM†	665.5	0.0284	mg/L	0.00021	0.0284	mg/L	0.00021	0.75%
CHROMIUM†	18445.4	0.1463	mg/L	0.00103	0.1463	mg/L	0.00103	0.71%
COBALT†	13768.0	0.4385	mg/L	0.00247	0.4385	mg/L	0.00247	0.56%
COPPER†	-959.8	-0.0538	mg/L	0.00041	-0.0538	mg/L	0.00041	0.77%
MANGANESE†	4898734.5	11.93	mg/L	0.027	11.93	mg/L	0.027	0.22%
MOLYBDENUM†	-520.6	0.0013	mg/L	0.00006	0.0013	mg/L	0.00006	4.44%
NICKEL†	39176.9	0.5744	mg/L	0.00297	0.5744	mg/L	0.00297	0.52%
LEAD†	9.9	0.0360	mg/L	0.00105	0.0360	mg/L	0.00105	2.91%
SELENIUM†	-478.2	0.0592	mg/L	0.00164	0.0592	mg/L	0.00164	2.78%
SILVER†	-15867.7	0.0093	mg/L	0.00032	0.0093	mg/L	0.00032	3.42%
THALLIUM†	153.9	-0.0065	mg/L	0.00594	-0.0065	mg/L	0.00594	91.59%
VANADIUM†	110973.7	0.1928	mg/L	0.00388	0.1928	mg/L	0.00388	2.01%
ZINC†	129544.1	1.792	mg/L	0.0076	1.792	mg/L	0.0076	0.42%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1910183.4	143.5	mg/L	0.26	143.5	mg/L	0.26	0.18%
IRON†	3836148.2	229	mg/L	0.3	229	mg/L	0.3	0.15%
CALCIUM†	14692945.4	175	mg/L	0.1	175	mg/L	0.1	0.04%

Sequence No.: 143
Sample ID: 10020428-29A
Analyst: KL
Sample Wt:
Dilution:
Autosampler Location: 102
Date Collected: 2/19/10 10:07:39 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-29A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17660907.7	9.516	mg/L	0.0316				0.33%
ALUMINUM†	598744.3	33.27	mg/L	0.176	33.27	mg/L	0.176	0.53%
ANTIMONY†	3.9	0.0063	mg/L	0.00247	0.0063	mg/L	0.00247	39.29%
ARSENIC†	36.9	0.0150	mg/L	0.00470	0.0150	mg/L	0.00470	31.25%
BARIUM†	2118.4	0.0261	mg/L	0.00037	0.0261	mg/L	0.00037	1.40%
BERYLLIUM†	31683.6	0.0091	mg/L	0.00001	0.0091	mg/L	0.00001	0.14%
CADMIUM†	7988.1	0.2026	mg/L	0.00173	0.2026	mg/L	0.00173	0.85%
CHROMIUM†	2275.7	0.0205	mg/L	0.00007	0.0205	mg/L	0.00007	0.33%
COBALT†	2157.2	0.0717	mg/L	0.00054	0.0717	mg/L	0.00054	0.75%
COPPER†	24065.6	0.1624	mg/L	0.00015	0.1624	mg/L	0.00015	0.09%
MANGANESE†	1192460.2	2.904	mg/L	0.0117	2.904	mg/L	0.0117	0.40%
MOLYBDENUM†	-1.9	0.0029	mg/L	0.00023	0.0029	mg/L	0.00023	8.11%
NICKEL†	8759.3	0.1338	mg/L	0.00103	0.1338	mg/L	0.00103	0.77%
LEAD†	2600.7	0.2015	mg/L	0.00092	0.2015	mg/L	0.00092	0.46%
SELENIUM†	-12.7	0.0143	mg/L	0.00542	0.0143	mg/L	0.00542	37.80%
SILVER†	-309.7	0.0024	mg/L	0.00005	0.0024	mg/L	0.00005	2.23%
THALLIUM†	18.4	0.0046	mg/L	0.00671	0.0046	mg/L	0.00671	147.39%
VANADIUM†	12422.5	-0.0002	mg/L	0.00291	-0.0002	mg/L	0.00291	>999.9%
ZINC†	51346.1	0.7065	mg/L	0.00260	0.7065	mg/L	0.00260	0.37%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	365537.7	27.03	mg/L	0.099	27.03	mg/L	0.099	0.37%

IRON†	12444.3	0.747 mg/L	0.0536	0.747 mg/L	0.0536	7.18%
CALCIUM†	5303006.9	63.3 mg/L	0.28	63.3 mg/L	0.28	0.44%

Sequence No.: 144
Sample ID: 10020428-30A
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 2/19/10 10:12:52 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-30A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17584434.0	9.475	mg/L	0.1055				1.11%
ALUMINUM†	295283.8	16.39	mg/L	0.090	16.39	mg/L	0.090	0.55%
ANTIMONY†	9.0	0.0046	mg/L	0.00088	0.0046	mg/L	0.00088	19.22%
ARSENIC†	9.4	0.0074	mg/L	0.00430	0.0074	mg/L	0.00430	58.27%
BARIUM†	1132.4	0.0154	mg/L	0.00026	0.0154	mg/L	0.00026	1.67%
BERYLLIUM†	56679.1	0.0134	mg/L	0.00007	0.0134	mg/L	0.00007	0.51%
CADMIUM†	4043.1	0.1056	mg/L	0.00118	0.1056	mg/L	0.00118	1.11%
CHROMIUM†	973.7	0.0103	mg/L	0.00020	0.0103	mg/L	0.00020	1.90%
COBALT†	2381.6	0.0788	mg/L	0.00077	0.0788	mg/L	0.00077	0.98%
COPPER†	1967.8	0.0123	mg/L	0.00024	0.0123	mg/L	0.00024	1.92%
MANGANESE†	399517.4	0.9754	mg/L	0.00530	0.9754	mg/L	0.00530	0.54%
MOLYBDENUM†	-53.3	0.0027	mg/L	0.00033	0.0027	mg/L	0.00033	12.27%
NICKEL†	7409.7	0.1126	mg/L	0.00154	0.1126	mg/L	0.00154	1.37%
LEAD†	76.3	0.0120	mg/L	0.00035	0.0120	mg/L	0.00035	2.91%
SELENIUM†	-30.7	0.0026	mg/L	0.00321	0.0026	mg/L	0.00321	122.98%
SILVER†	-1661.5	0.0037	mg/L	0.00015	0.0037	mg/L	0.00015	4.09%
THALLIUM†	19.7	0.0001	mg/L	0.00310	0.0001	mg/L	0.00310	>999.9%
VANADIUM†	15383.6	0.0388	mg/L	0.00586	0.0388	mg/L	0.00586	15.12%
ZINC†	26032.2	0.3616	mg/L	0.00334	0.3616	mg/L	0.00334	0.92%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	380911.7	28.39	mg/L	0.189	28.39	mg/L	0.189	0.67%
IRON†	382480.8	22.8	mg/L	0.15	22.8	mg/L	0.15	0.65%
CALCIUM†	1273322.9	15.2	mg/L	0.09	15.2	mg/L	0.09	0.58%

Sequence No.: 145
Sample ID: 10020428-31A
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 2/19/10 10:17:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-31A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17592141.7	9.479	mg/L	0.0315				0.33%
ALUMINUM†	2457243.1	136.3	mg/L	0.19	136.3	mg/L	0.19	0.14%
ANTIMONY†	-54.6	-0.0200	mg/L	0.00220	-0.0200	mg/L	0.00220	11.01%
ARSENIC†	131.9	0.0792	mg/L	0.00185	0.0792	mg/L	0.00185	2.34%
BARIUM†	1642.4	0.0212	mg/L	0.00015	0.0212	mg/L	0.00015	0.72%
BERYLLIUM†	152703.0	0.0298	mg/L	0.00008	0.0298	mg/L	0.00008	0.27%
CADMIUM†	116.7	0.0139	mg/L	0.00037	0.0139	mg/L	0.00037	2.66%
CHROMIUM†	7710.8	0.0628	mg/L	0.00055	0.0628	mg/L	0.00055	0.88%
COBALT†	5451.2	0.1758	mg/L	0.00123	0.1758	mg/L	0.00123	0.70%
COPPER†	-2464.1	-0.0584	mg/L	0.00051	-0.0584	mg/L	0.00051	0.88%
MANGANESE†	1960551.1	4.780	mg/L	0.0031	4.780	mg/L	0.0031	0.07%
MOLYBDENUM†	-411.6	0.0027	mg/L	0.00039	0.0027	mg/L	0.00039	14.35%
NICKEL†	15228.1	0.2199	mg/L	0.00139	0.2199	mg/L	0.00139	0.63%
LEAD†	45.5	0.0343	mg/L	0.00185	0.0343	mg/L	0.00185	5.39%
SELENIUM†	-331.1	-0.0237	mg/L	0.00405	-0.0237	mg/L	0.00405	17.10%
SILVER†	-13569.9	0.0092	mg/L	0.00042	0.0092	mg/L	0.00042	4.61%
THALLIUM†	74.8	-0.0224	mg/L	0.00166	-0.0224	mg/L	0.00166	7.43%
VANADIUM†	59570.4	0.1997	mg/L	0.00110	0.1997	mg/L	0.00110	0.55%
ZINC†	26016.1	0.3740	mg/L	0.00146	0.3740	mg/L	0.00146	0.39%
ARGON	Saturated2							
Saturated in preshot (code 2)								

MAGNESIUM†	1179092.5	89.18 mg/L	0.053	89.18 mg/L	0.053	0.06%
IRON†	3319990.5	198 mg/L	0.2	198 mg/L	0.2	0.10%
CALCIUM†	7999434.7	95.4 mg/L	0.08	95.4 mg/L	0.08	0.09%

Sequence No.: 146 **Autosampler Location:** 105
Sample ID: 10020428-33A **Date Collected:** 2/19/10 10:23:02 PM
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: 10020428-33A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
YTTRIUM	17693184.9	9.533	mg/L	0.0562				0.59%
ALUMINUM†	127524.3	7.165	mg/L	0.0866	7.165	mg/L	0.0866	1.21%
ANTIMONY†	8.3	0.0065	mg/L	0.00006	0.0065	mg/L	0.00006	0.97%
ARSENIC†	7.6	0.0065	mg/L	0.00207	0.0065	mg/L	0.00207	31.94%
BARIUM†	1164.0	0.0157	mg/L	0.00036	0.0157	mg/L	0.00036	2.27%
BERYLLIUM†	55933.7	0.0132	mg/L	0.00011	0.0132	mg/L	0.00011	0.86%
CADMIUM†	147.6	0.0091	mg/L	0.00021	0.0091	mg/L	0.00021	2.36%
CHROMIUM†	3641.3	0.0311	mg/L	0.00024	0.0311	mg/L	0.00024	0.78%
COBALT†	1209.5	0.0418	mg/L	0.00034	0.0418	mg/L	0.00034	0.80%
COPPER†	-8.1	0.0016	mg/L	0.00055	0.0016	mg/L	0.00055	34.90%
MANGANESE†	702976.1	1.714	mg/L	0.0191	1.714	mg/L	0.0191	1.11%
MOLYBDENUM†	-47.2	0.0028	mg/L	0.00037	0.0028	mg/L	0.00037	12.89%
NICKEL†	3127.3	0.0490	mg/L	0.00079	0.0490	mg/L	0.00079	1.61%
LEAD†	38.8	0.0091	mg/L	0.00161	0.0091	mg/L	0.00161	17.74%
SELENIUM†	-42.2	-0.0044	mg/L	0.00964	-0.0044	mg/L	0.00964	221.62%
SILVER†	-1554.6	0.0040	mg/L	0.00042	0.0040	mg/L	0.00042	10.68%
THALLIUM†	25.4	0.0018	mg/L	0.00489	0.0018	mg/L	0.00489	267.20%
VANADIUM†	25611.0	0.0552	mg/L	0.00619	0.0552	mg/L	0.00619	11.20%
ZINC†	7922.6	0.1128	mg/L	0.00074	0.1128	mg/L	0.00074	0.66%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	416104.4	30.99	mg/L	0.337	30.99	mg/L	0.337	1.09%
IRON†	374271.2	22.3	mg/L	0.25	22.3	mg/L	0.25	1.11%
CALCIUM†	5230549.5	62.4	mg/L	0.34	62.4	mg/L	0.34	0.54%

Sequence No.: 147 **Autosampler Location:** 1
Sample ID: CCV **Date Collected:** 2/19/10 10:28:13 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
YTTRIUM	17965947.4	9.680	mg/L	0.0059				0.06%
ALUMINUM†	9306.6	0.5407	mg/L	0.00109	0.5407	mg/L	0.00109	0.20%
QC value within limits for ALUMINUM Recovery = 108.15%								
ANTIMONY†	1537.8	0.4976	mg/L	0.00447	0.4976	mg/L	0.00447	0.90%
QC value within limits for ANTIMONY Recovery = 99.52%								
ARSENIC†	1313.0	0.5100	mg/L	0.00659	0.5100	mg/L	0.00659	1.29%
QC value within limits for ARSENIC Recovery = 102.01%								
BARIUM†	45387.8	0.4938	mg/L	0.00127	0.4938	mg/L	0.00127	0.26%
QC value within limits for BARIUM Recovery = 98.76%								
BERYLLIUM†	2843205.8	0.4916	mg/L	0.00094	0.4916	mg/L	0.00094	0.19%
QC value within limits for BERYLLIUM Recovery = 98.31%								
CADMIUM†	19471.7	0.4871	mg/L	0.00135	0.4871	mg/L	0.00135	0.28%
QC value within limits for CADMIUM Recovery = 97.42%								
CHROMIUM†	62945.0	0.4925	mg/L	0.00140	0.4925	mg/L	0.00140	0.28%
QC value within limits for CHROMIUM Recovery = 98.49%								
COBALT†	15460.6	0.4920	mg/L	0.00143	0.4920	mg/L	0.00143	0.29%
QC value within limits for COBALT Recovery = 98.40%								
COPPER†	73176.5	0.4753	mg/L	0.00110	0.4753	mg/L	0.00110	0.23%
QC value within limits for COPPER Recovery = 95.06%								
MANGANESE†	203455.7	0.4975	mg/L	0.00087	0.4975	mg/L	0.00087	0.18%

QC value within limits for MANGANESE Recovery = 99.49%						
MOLYBDENUM†	15170.3	0.4969 mg/L	0.00184	0.4969 mg/L	0.00184	0.37%
QC value within limits for MOLYBDENUM Recovery = 99.38%						
NICKEL†	33263.8	0.4981 mg/L	0.00126	0.4981 mg/L	0.00126	0.25%
QC value within limits for NICKEL Recovery = 99.62%						
LEAD†	6512.5	0.5004 mg/L	0.00332	0.5004 mg/L	0.00332	0.66%
QC value within limits for LEAD Recovery = 100.07%						
SELENIUM†	1889.3	0.4922 mg/L	0.00771	0.4922 mg/L	0.00771	1.57%
QC value within limits for SELENIUM Recovery = 98.44%						
SILVER†	118270.7	0.4843 mg/L	0.00112	0.4843 mg/L	0.00112	0.23%
QC value within limits for SILVER Recovery = 96.87%						
THALLIUM†	1840.5	0.5260 mg/L	0.00657	0.5260 mg/L	0.00657	1.25%
QC value within limits for THALLIUM Recovery = 105.21%						
VANADIUM†	230964.7	0.5040 mg/L	0.00329	0.5040 mg/L	0.00329	0.65%
QC value within limits for VANADIUM Recovery = 100.81%						
ZINC†	35723.3	0.4906 mg/L	0.00174	0.4906 mg/L	0.00174	0.35%
QC value within limits for ZINC Recovery = 98.13%						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	6692.2	0.5034 mg/L	0.00566	0.5034 mg/L	0.00566	1.13%
QC value within limits for MAGNESIUM Recovery = 100.69%						
IRON†	8536.9	0.540 mg/L	0.0009	0.540 mg/L	0.0009	0.17%
QC value within limits for IRON Recovery = 108.03%						
CALCIUM†	43520.7	0.537 mg/L	0.0113	0.537 mg/L	0.0113	2.10%
QC value within limits for CALCIUM Recovery = 107.45%						

All analytes passed QC.

Sequence No.: 148 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 2/19/10 10:33:23 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
YTTRIUM	18038519.3	9.719	mg/L	0.0890				0.92%
ALUMINUM†	267.6	0.0211	mg/L	0.00311	0.0211	mg/L	0.00311	14.77%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	6.7	0.0041	mg/L	0.00169	0.0041	mg/L	0.00169	41.05%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	13.1	0.0057	mg/L	0.00411	0.0057	mg/L	0.00411	71.64%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	-32.8	0.0027	mg/L	0.00012	0.0027	mg/L	0.00012	4.28%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	201.4	0.0037	mg/L	0.00007	0.0037	mg/L	0.00007	1.89%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	39.4	0.0057	mg/L	0.00035	0.0057	mg/L	0.00035	6.16%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	100.3	0.0035	mg/L	0.00052	0.0035	mg/L	0.00052	14.63%
QC value within limits for CHROMIUM Recovery = Not calculated								
COBALT†	-71.7	0.0013	mg/L	0.00059	0.0013	mg/L	0.00059	45.29%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	163.6	0.0060	mg/L	0.00084	0.0060	mg/L	0.00084	14.01%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	215.9	0.0029	mg/L	0.00018	0.0029	mg/L	0.00018	6.06%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	31.0	0.0039	mg/L	0.00012	0.0039	mg/L	0.00012	2.98%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	248.5	0.0073	mg/L	0.00051	0.0073	mg/L	0.00051	6.98%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	42.6	0.0062	mg/L	0.00105	0.0062	mg/L	0.00105	16.89%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	-13.0	0.0002	mg/L	0.00187	0.0002	mg/L	0.00187	>999.9%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-43.6	0.0032	mg/L	0.00009	0.0032	mg/L	0.00009	2.83%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	14.7	0.0037	mg/L	0.00153	0.0037	mg/L	0.00153	41.91%
QC value within limits for THALLIUM Recovery = Not calculated								

VANADIUM†	3991.5	0.0114 mg/L	0.00609	0.0114 mg/L	0.00609	53.51%
QC value within limits for VANADIUM Recovery = Not calculated						
ZINC†	-132.3	0.0030 mg/L	0.00004	0.0030 mg/L	0.00004	1.35%
QC value within limits for ZINC Recovery = Not calculated						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	-397.6	-0.0259 mg/L	0.00817	-0.0259 mg/L	0.00817	31.50%
QC value within limits for MAGNESIUM Recovery = Not calculated						
IRON†	-138.6	-0.005 mg/L	0.0033	-0.005 mg/L	0.0033	71.32%
QC value within limits for IRON Recovery = Not calculated						
CALCIUM†	-2384.5	-0.012 mg/L	0.0018	-0.012 mg/L	0.0018	15.68%
QC value within limits for CALCIUM Recovery = Not calculated						

All analytes passed QC.

Sequence No.: 149 **Autosampler Location: 4**
Sample ID: ICSA **Date Collected: 2/19/10 10:38:12 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16165811.3	8.710	mg/L	0.0151				0.17%
ALUMINUM†	9473649.5	525.7	mg/L	0.21	525.7	mg/L	0.21	0.04%
QC value within limits for ALUMINUM Recovery = 105.13%								
ANTIMONY†	-90.5	-0.0259	mg/L	0.00243	-0.0259	mg/L	0.00243	9.39%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	-149.2	0.0082	mg/L	0.00504	0.0082	mg/L	0.00504	61.70%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	571.3	0.0101	mg/L	0.00024	0.0101	mg/L	0.00024	2.35%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-7300.3	0.0024	mg/L	0.00006	0.0024	mg/L	0.00006	2.38%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	-255.2	0.0134	mg/L	0.00063	0.0134	mg/L	0.00063	4.73%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	2302.1	0.0207	mg/L	0.00056	0.0207	mg/L	0.00056	2.70%
QC value greater than the upper limit for CHROMIUM Recovery = Not calculated								
COBALT†	-185.3	-0.0023	mg/L	0.00055	-0.0023	mg/L	0.00055	24.04%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	14755.7	-0.0014	mg/L	0.00167	-0.0014	mg/L	0.00167	119.43%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	-8575.0	-0.0006	mg/L	0.00014	-0.0006	mg/L	0.00014	22.93%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	-1101.4	-0.0013	mg/L	0.00069	-0.0013	mg/L	0.00069	55.32%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	1538.3	0.0024	mg/L	0.00012	0.0024	mg/L	0.00012	5.15%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	-839.0	0.0057	mg/L	0.00048	0.0057	mg/L	0.00048	8.53%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	-879.8	0.0007	mg/L	0.01186	0.0007	mg/L	0.01186	>999.9%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-31390.7	0.0219	mg/L	0.00083	0.0219	mg/L	0.00083	3.80%
QC value greater than the upper limit for SILVER Recovery = Not calculated								
THALLIUM†	318.7	-0.0128	mg/L	0.00299	-0.0128	mg/L	0.00299	23.30%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	36619.4	0.0270	mg/L	0.00222	0.0270	mg/L	0.00222	8.22%
QC value within limits for VANADIUM Recovery = Not calculated								
ZINC†	-1560.3	-0.0146	mg/L	0.00016	-0.0146	mg/L	0.00016	1.11%
QC value within limits for ZINC Recovery = Not calculated								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	7192311.1	536.5	mg/L	1.10	536.5	mg/L	1.10	0.21%
QC value within limits for MAGNESIUM Recovery = 107.30%								
IRON†	7957607.0	475	mg/L	1.2	475	mg/L	1.2	0.26%
QC value within limits for IRON Recovery = 94.92%								
CALCIUM†	43140525.2	515	mg/L	0.5	515	mg/L	0.5	0.09%
QC value within limits for CALCIUM Recovery = 102.92%								

QC Failed. Continue with analysis.

Sequence No.: 150
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/19/10 10:43:37 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16003753.5	8.623	mg/L	0.0304				0.35%
ALUMINUM†	9402276.4	521.8	mg/L	0.29	521.8	mg/L	0.29	0.06%
QC value within limits for ALUMINUM Recovery = 104.36%								
ANTIMONY†	33001.5	10.59	mg/L	0.090	10.59	mg/L	0.090	0.85%
QC value within limits for ANTIMONY Recovery = 105.92%								
ARSENIC†	27682.2	10.86	mg/L	0.063	10.86	mg/L	0.063	0.58%
QC value within limits for ARSENIC Recovery = 108.56%								
BARIUM†	276453.9	2.993	mg/L	0.0200	2.993	mg/L	0.0200	0.67%
QC value within limits for BARIUM Recovery = 99.75%								
BERYLLIUM†	6176024.0	1.063	mg/L	0.0006	1.063	mg/L	0.0006	0.06%
QC value within limits for BERYLLIUM Recovery = 106.35%								
CADMIUM†	134476.3	3.351	mg/L	0.0264	3.351	mg/L	0.0264	0.79%
QC value within limits for CADMIUM Recovery = 111.70%								
CHROMIUM†	394536.3	3.072	mg/L	0.0215	3.072	mg/L	0.0215	0.70%
QC value within limits for CHROMIUM Recovery = 102.40%								
COBALT†	91279.6	2.887	mg/L	0.0206	2.887	mg/L	0.0206	0.71%
QC value within limits for COBALT Recovery = 96.24%								
COPPER†	520440.6	3.253	mg/L	0.0247	3.253	mg/L	0.0247	0.76%
QC value within limits for COPPER Recovery = 108.42%								
MANGANESE†	828098.9	2.035	mg/L	0.0136	2.035	mg/L	0.0136	0.67%
QC value within limits for MANGANESE Recovery = 101.75%								
MOLYBDENUM†	93235.3	3.070	mg/L	0.0232	3.070	mg/L	0.0232	0.75%
QC value within limits for MOLYBDENUM Recovery = 102.35%								
NICKEL†	195923.1	2.892	mg/L	0.0184	2.892	mg/L	0.0184	0.64%
QC value within limits for NICKEL Recovery = 96.41%								
LEAD†	128058.2	9.844	mg/L	0.0835	9.844	mg/L	0.0835	0.85%
QC value within limits for LEAD Recovery = 98.44%								
SELENIUM†	19908.3	5.376	mg/L	0.0528	5.376	mg/L	0.0528	0.98%
QC value within limits for SELENIUM Recovery = 107.51%								
SILVER†	672336.7	2.881	mg/L	0.0178	2.881	mg/L	0.0178	0.62%
QC value within limits for SILVER Recovery = 96.03%								
THALLIUM†	35629.0	10.10	mg/L	0.091	10.10	mg/L	0.091	0.90%
QC value within limits for THALLIUM Recovery = 100.98%								
VANADIUM†	1490347.6	3.182	mg/L	0.0253	3.182	mg/L	0.0253	0.80%
QC value within limits for VANADIUM Recovery = 106.06%								
ZINC†	211444.7	2.881	mg/L	0.0178	2.881	mg/L	0.0178	0.62%
QC value within limits for ZINC Recovery = 96.04%								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	7090961.7	529.0	mg/L	3.50	529.0	mg/L	3.50	0.66%
QC value within limits for MAGNESIUM Recovery = 105.79%								
IRON†	7859078.1	469	mg/L	2.9	469	mg/L	2.9	0.61%
QC value within limits for IRON Recovery = 93.78%								
CALCIUM†	42663383.9	509	mg/L	0.5	509	mg/L	0.5	0.09%
QC value within limits for CALCIUM Recovery = 101.78%								

All analytes passed QC.

Sequence No.: 151
Sample ID: RINSE BLANK
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 2/19/10 10:48:24 PM

Sample Prep Volume:
Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17975048.6	9.685	mg/L	0.0531				0.55%

ALUMINUM†	7143.5	0.4028 mg/L	0.11696	0.4028 mg/L	0.11696	29.04%
ANTIMONY†	45.1	0.0164 mg/L	0.00308	0.0164 mg/L	0.00308	18.74%
ARSENIC†	27.1	0.0112 mg/L	0.00433	0.0112 mg/L	0.00433	38.48%
BARIUM†	141.7	0.0046 mg/L	0.00080	0.0046 mg/L	0.00080	17.38%
BERYLLIUM†	2434.5	0.0041 mg/L	0.00023	0.0041 mg/L	0.00023	5.79%
CADMIUM†	122.2	0.0077 mg/L	0.00059	0.0077 mg/L	0.00059	7.66%
CHROMIUM†	409.2	0.0060 mg/L	0.00013	0.0060 mg/L	0.00013	2.26%
COBALT†	-21.8	0.0029 mg/L	0.00039	0.0029 mg/L	0.00039	13.66%
COPPER†	1635.2	0.0154 mg/L	0.00089	0.0154 mg/L	0.00089	5.80%
MANGANESE†	222.7	0.0029 mg/L	0.00046	0.0029 mg/L	0.00046	15.70%
MOLYBDENUM†	111.6	0.0065 mg/L	0.00032	0.0065 mg/L	0.00032	4.97%
NICKEL†	338.9	0.0086 mg/L	0.00032	0.0086 mg/L	0.00032	3.73%
LEAD†	149.6	0.0144 mg/L	0.00158	0.0144 mg/L	0.00158	10.98%
SELENIUM†	-1.5	0.0033 mg/L	0.00623	0.0033 mg/L	0.00623	187.35%
SILVER†	612.6	0.0060 mg/L	0.00084	0.0060 mg/L	0.00084	13.89%
THALLIUM†	50.0	0.0137 mg/L	0.00380	0.0137 mg/L	0.00380	27.78%
VANADIUM†	5940.0	0.0156 mg/L	0.00383	0.0156 mg/L	0.00383	24.55%
ZINC†	259.6	0.0083 mg/L	0.00126	0.0083 mg/L	0.00126	15.17%
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	5155.9	0.3887 mg/L	0.12890	0.3887 mg/L	0.12890	33.16%
IRON†	6605.0	0.398 mg/L	0.1293	0.398 mg/L	0.1293	32.51%
CALCIUM†	31979.1	0.398 mg/L	0.1300	0.398 mg/L	0.1300	32.65%

Sequence No.: 152 Autosampler Location: 107
Sample ID: RINSE BLANK Date Collected: 2/19/10 10:53:16 PM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17915969.2	9.653	mg/L	0.0183				0.19%
ALUMINUM†	1452.1	0.0870	mg/L	0.01833	0.0870	mg/L	0.01833	21.08%
ANTIMONY†	16.8	0.0073	mg/L	0.00084	0.0073	mg/L	0.00084	11.49%
ARSENIC†	13.2	0.0058	mg/L	0.00110	0.0058	mg/L	0.00110	18.92%
BARIUM†	-26.3	0.0028	mg/L	0.00026	0.0028	mg/L	0.00026	9.33%
BERYLLIUM†	-1517.7	0.0034	mg/L	0.00005	0.0034	mg/L	0.00005	1.50%
CADMIUM†	37.1	0.0056	mg/L	0.00007	0.0056	mg/L	0.00007	1.24%
CHROMIUM†	136.2	0.0038	mg/L	0.00018	0.0038	mg/L	0.00018	4.63%
COBALT†	-66.9	0.0015	mg/L	0.00059	0.0015	mg/L	0.00059	40.34%
COPPER†	584.3	0.0087	mg/L	0.00059	0.0087	mg/L	0.00059	6.73%
MANGANESE†	-265.5	0.0017	mg/L	0.00006	0.0017	mg/L	0.00006	3.67%
MOLYBDENUM†	32.9	0.0039	mg/L	0.00040	0.0039	mg/L	0.00040	10.22%
NICKEL†	251.1	0.0074	mg/L	0.00038	0.0074	mg/L	0.00038	5.18%
LEAD†	64.1	0.0078	mg/L	0.00091	0.0078	mg/L	0.00091	11.65%
SELENIUM†	-5.5	0.0021	mg/L	0.00791	0.0021	mg/L	0.00791	368.50%
SILVER†	-32.8	0.0033	mg/L	0.00035	0.0033	mg/L	0.00035	10.71%
THALLIUM†	25.7	0.0068	mg/L	0.00373	0.0068	mg/L	0.00373	54.94%
VANADIUM†	6189.0	0.0161	mg/L	0.00409	0.0161	mg/L	0.00409	25.37%
ZINC†	-44.3	0.0042	mg/L	0.00037	0.0042	mg/L	0.00037	8.98%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	482.7	0.0398	mg/L	0.02408	0.0398	mg/L	0.02408	60.57%
IRON†	834.4	0.054	mg/L	0.0158	0.054	mg/L	0.0158	29.40%
CALCIUM†	2529.0	0.047	mg/L	0.0206	0.047	mg/L	0.0206	43.79%

Sequence No.: 153 Autosampler Location: 108
Sample ID: MBLK-87103 Date Collected: 2/19/10 10:58:08 PM
Analyst: KL
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: MBLK-87103

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

YTTRIUM	17965787.1	9.680 mg/L	0.0282			0.29%
ALUMINUM†	2037.2	0.1195 mg/L	0.00705	0.1195 mg/L	0.00705	5.90%
ANTIMONY†	7.6	0.0044 mg/L	0.00306	0.0044 mg/L	0.00306	69.23%
ARSENIC†	10.3	0.0046 mg/L	0.00321	0.0046 mg/L	0.00321	69.52%
BARIUM†	50.8	0.0036 mg/L	0.00013	0.0036 mg/L	0.00013	3.51%
BERYLLIUM†	-2029.2	0.0033 mg/L	0.00001	0.0033 mg/L	0.00001	0.42%
CADMIUM†	40.8	0.0057 mg/L	0.00030	0.0057 mg/L	0.00030	5.25%
CHROMIUM†	436.9	0.0062 mg/L	0.00061	0.0062 mg/L	0.00061	9.96%
COBALT†	-80.9	0.0010 mg/L	0.00014	0.0010 mg/L	0.00014	13.90%
COPPER†	225.6	0.0064 mg/L	0.00042	0.0064 mg/L	0.00042	6.63%
MANGANESE†	-212.7	0.0019 mg/L	0.00006	0.0019 mg/L	0.00006	3.45%
MOLYBDENUM†	51.1	0.0045 mg/L	0.00051	0.0045 mg/L	0.00051	11.25%
NICKEL†	858.9	0.0164 mg/L	0.00027	0.0164 mg/L	0.00027	1.67%
LEAD†	32.7	0.0055 mg/L	0.00038	0.0055 mg/L	0.00038	7.00%
SELENIUM†	-20.7	-0.0018 mg/L	0.00214	-0.0018 mg/L	0.00214	119.85%
SILVER†	-58.3	0.0032 mg/L	0.00041	0.0032 mg/L	0.00041	12.62%
THALLIUM†	3.3	0.0004 mg/L	0.00279	0.0004 mg/L	0.00279	793.77%
VANADIUM†	6762.4	0.0174 mg/L	0.00153	0.0174 mg/L	0.00153	8.75%
ZINC†	2048.3	0.0329 mg/L	0.00031	0.0329 mg/L	0.00031	0.93%
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	908.1	0.0718 mg/L	0.00546	0.0718 mg/L	0.00546	7.60%
IRON†	1758.6	0.109 mg/L	0.0038	0.109 mg/L	0.0038	3.50%
CALCIUM†	8088.1	0.113 mg/L	0.0056	0.113 mg/L	0.0056	4.97%

Sequence No.: 154
Sample ID: LCS-87103
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 2/19/10 11:03:00 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-87103

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17939232.0	9.666	mg/L	0.0708				0.73%
ALUMINUM†	93231.3	5.184	mg/L	0.0540	5.184	mg/L	0.0540	1.04%
ANTIMONY†	336.7	0.1105	mg/L	0.00209	0.1105	mg/L	0.00209	1.90%
ARSENIC†	278.9	0.1095	mg/L	0.00343	0.1095	mg/L	0.00343	3.13%
BARIUM†	9842.6	0.1095	mg/L	0.00054	0.1095	mg/L	0.00054	0.50%
BERYLLIUM†	608011.3	0.1080	mg/L	0.00072	0.1080	mg/L	0.00072	0.66%
CADMIUM†	4132.6	0.1072	mg/L	0.00086	0.1072	mg/L	0.00086	0.80%
CHROMIUM†	13963.2	0.1114	mg/L	0.00042	0.1114	mg/L	0.00042	0.37%
COBALT†	3201.1	0.1047	mg/L	0.00065	0.1047	mg/L	0.00065	0.62%
COPPER†	16522.5	0.1101	mg/L	0.00112	0.1101	mg/L	0.00112	1.02%
MANGANESE†	42631.0	0.1063	mg/L	0.00068	0.1063	mg/L	0.00068	0.64%
MOLYBDENUM†	3184.0	0.1069	mg/L	0.00079	0.1069	mg/L	0.00079	0.74%
NICKEL†	7254.9	0.1112	mg/L	0.00121	0.1112	mg/L	0.00121	1.09%
LEAD†	1399.8	0.1106	mg/L	0.00046	0.1106	mg/L	0.00046	0.42%
SELENIUM†	2024.5	0.5296	mg/L	0.00572	0.5296	mg/L	0.00572	1.08%
SILVER†	24720.3	0.1055	mg/L	0.00094	0.1055	mg/L	0.00094	0.89%
THALLIUM†	400.6	0.1129	mg/L	0.00157	0.1129	mg/L	0.00157	1.39%
VANADIUM†	55552.2	0.1234	mg/L	0.00378	0.1234	mg/L	0.00378	3.07%
ZINC†	8179.7	0.1161	mg/L	0.00051	0.1161	mg/L	0.00051	0.44%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	75168.7	5.614	mg/L	0.0453	5.614	mg/L	0.0453	0.81%
IRON†	88914.5	5.31	mg/L	0.041	5.31	mg/L	0.041	0.77%
CALCIUM†	456120.2	5.46	mg/L	0.049	5.46	mg/L	0.049	0.89%

Sequence No.: 155
Sample ID: 10020428-20B
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 2/19/10 11:07:54 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-20B

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
YTTRIUM	17210039.4	9.273	mg/L	0.1001				1.08%
ALUMINUM†	9954.5	0.7911	mg/L	0.00678	0.7911	mg/L	0.00678	0.86%
ANTIMONY†	-1.0	0.0084	mg/L	0.00298	0.0084	mg/L	0.00298	35.59%
ARSENIC†	15.9	0.0083	mg/L	0.00254	0.0083	mg/L	0.00254	30.69%
BARIUM†	3641.1	0.0425	mg/L	0.00052	0.0425	mg/L	0.00052	1.21%
BERYLLIUM†	41020.7	0.0107	mg/L	0.00006	0.0107	mg/L	0.00006	0.56%
CADMIUM†	50.0	0.0063	mg/L	0.00019	0.0063	mg/L	0.00019	3.09%
CHROMIUM†	695.1	0.0082	mg/L	0.00036	0.0082	mg/L	0.00036	4.36%
COBALT†	1734.5	0.0584	mg/L	0.00039	0.0584	mg/L	0.00039	0.67%
COPPER†	657.3	0.0127	mg/L	0.00036	0.0127	mg/L	0.00036	2.81%
MANGANESE†	747780.8	1.822	mg/L	0.0205	1.822	mg/L	0.0205	1.13%
MOLYBDENUM†	-31.6	0.0026	mg/L	0.00034	0.0026	mg/L	0.00034	13.34%
NICKEL†	4790.4	0.0743	mg/L	0.00117	0.0743	mg/L	0.00117	1.57%
LEAD†	47.2	0.0081	mg/L	0.00149	0.0081	mg/L	0.00149	18.39%
SELENIUM†	-46.5	-0.0082	mg/L	0.00274	-0.0082	mg/L	0.00274	33.28%
SILVER†	-646.4	0.0042	mg/L	0.00012	0.0042	mg/L	0.00012	3.00%
THALLIUM†	60.2	0.0143	mg/L	0.00361	0.0143	mg/L	0.00361	25.30%
VANADIUM†	19377.1	-0.0032	mg/L	0.00658	-0.0032	mg/L	0.00658	204.78%
ZINC†	5781.2	0.0747	mg/L	0.00073	0.0747	mg/L	0.00073	0.97%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1582669.2	117.1	mg/L	1.31	117.1	mg/L	1.31	1.12%
IRON†	183176.0	10.9	mg/L	0.12	10.9	mg/L	0.12	1.05%
CALCIUM†	13317051.2	159	mg/L	0.3	159	mg/L	0.3	0.19%

Sequence No.: 156
Sample ID: 10020428-20BSD
Analyst: KL
Sample Wt:
Dilution: 5X

Autosampler Location: 111
Date Collected: 2/19/10 11:12:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-20BSD

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17770530.8	9.575	mg/L	0.0603				0.63%
ALUMINUM†	2041.3	0.1634	mg/L	0.00352	0.8170	mg/L	0.01759	2.15%
ANTIMONY†	4.7	0.0047	mg/L	0.00076	0.0236	mg/L	0.00379	16.06%
ARSENIC†	10.3	0.0049	mg/L	0.00450	0.0246	mg/L	0.02251	91.54%
BARIUM†	664.6	0.0102	mg/L	0.00035	0.0512	mg/L	0.00175	3.42%
BERYLLIUM†	5739.4	0.0046	mg/L	0.00001	0.0231	mg/L	0.00005	0.21%
CADMIUM†	40.0	0.0057	mg/L	0.00012	0.0287	mg/L	0.00060	2.07%
CHROMIUM†	216.8	0.0045	mg/L	0.00038	0.0223	mg/L	0.00191	8.60%
COBALT†	262.6	0.0119	mg/L	0.00026	0.0594	mg/L	0.00128	2.16%
COPPER†	204.7	0.0069	mg/L	0.00039	0.0346	mg/L	0.00194	5.59%
MANGANESE†	142741.1	0.3498	mg/L	0.00051	1.749	mg/L	0.0025	0.15%
MOLYBDENUM†	-5.0	0.0028	mg/L	0.00053	0.0142	mg/L	0.00263	18.53%
NICKEL†	1117.1	0.0201	mg/L	0.00021	0.1006	mg/L	0.00107	1.06%
LEAD†	32.2	0.0057	mg/L	0.00151	0.0284	mg/L	0.00756	26.58%
SELENIUM†	-13.1	0.0002	mg/L	0.00231	0.0010	mg/L	0.01155	>999.9%
SILVER†	-301.7	0.0028	mg/L	0.00038	0.0141	mg/L	0.00189	13.39%
THALLIUM†	23.1	0.0056	mg/L	0.00174	0.0280	mg/L	0.00870	31.09%
VANADIUM†	9079.2	0.0133	mg/L	0.00220	0.0667	mg/L	0.01102	16.51%
ZINC†	967.5	0.0163	mg/L	0.00009	0.0814	mg/L	0.00046	0.56%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	298611.1	22.10	mg/L	0.060	110.5	mg/L	0.30	0.27%
IRON†	34515.2	2.06	mg/L	0.003	10.3	mg/L	0.02	0.16%
CALCIUM†	2502319.4	29.9	mg/L	0.38	149	mg/L	1.9	1.26%

Sequence No.: 157
Sample ID: 10020428-20BMS
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 112
Date Collected: 2/19/10 11:18:04 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-20BMS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17198719.3	9.267	mg/L	0.0549				0.59%
ALUMINUM†	106308.0	6.142	mg/L	0.0426	6.142	mg/L	0.0426	0.69%
ANTIMONY†	333.8	0.1162	mg/L	0.00462	0.1162	mg/L	0.00462	3.98%
ARSENIC†	291.2	0.1158	mg/L	0.00308	0.1158	mg/L	0.00308	2.66%
BARIUM†	13181.1	0.1456	mg/L	0.00135	0.1456	mg/L	0.00135	0.93%
BERYLLIUM†	661955.0	0.1172	mg/L	0.00071	0.1172	mg/L	0.00071	0.61%
CADMIUM†	4196.7	0.1092	mg/L	0.00099	0.1092	mg/L	0.00099	0.91%
CHROMIUM†	13924.7	0.1111	mg/L	0.00133	0.1111	mg/L	0.00133	1.20%
COBALT†	4952.2	0.1600	mg/L	0.00136	0.1600	mg/L	0.00136	0.85%
COPPER†	17476.7	0.1198	mg/L	0.00170	0.1198	mg/L	0.00170	1.42%
MANGANESE†	793186.3	1.933	mg/L	0.0114	1.933	mg/L	0.0114	0.59%
MOLYBDENUM†	3161.0	0.1069	mg/L	0.00085	0.1069	mg/L	0.00085	0.80%
NICKEL†	11718.3	0.1770	mg/L	0.00204	0.1770	mg/L	0.00204	1.15%
LEAD†	1363.2	0.1093	mg/L	0.00143	0.1093	mg/L	0.00143	1.31%
SELENIUM†	2037.9	0.5334	mg/L	0.00795	0.5334	mg/L	0.00795	1.49%
SILVER†	24418.3	0.1077	mg/L	0.00090	0.1077	mg/L	0.00090	0.84%
THALLIUM†	419.9	0.1161	mg/L	0.00106	0.1161	mg/L	0.00106	0.91%
VANADIUM†	69375.0	0.1053	mg/L	0.00540	0.1053	mg/L	0.00540	5.12%
ZINC†	13500.7	0.1797	mg/L	0.00170	0.1797	mg/L	0.00170	0.94%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1661584.3	123.0	mg/L	0.79	123.0	mg/L	0.79	0.64%
IRON†	272863.6	16.3	mg/L	0.10	16.3	mg/L	0.10	0.64%
CALCIUM†	13769863.3	164	mg/L	0.1	164	mg/L	0.1	0.09%

Sequence No.: 158
Sample ID: 10020428-20BMSD
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 113
Date Collected: 2/19/10 11:23:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 10020428-20BMSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17103109.0	9.215	mg/L	0.0888				0.96%
ALUMINUM†	105340.3	6.091	mg/L	0.0600	6.091	mg/L	0.0600	0.99%
ANTIMONY†	336.7	0.1172	mg/L	0.00527	0.1172	mg/L	0.00527	4.49%
ARSENIC†	307.5	0.1222	mg/L	0.00270	0.1222	mg/L	0.00270	2.21%
BARIUM†	13220.4	0.1460	mg/L	0.00140	0.1460	mg/L	0.00140	0.96%
BERYLLIUM†	655993.6	0.1162	mg/L	0.00102	0.1162	mg/L	0.00102	0.88%
CADMIUM†	4190.7	0.1090	mg/L	0.00149	0.1090	mg/L	0.00149	1.37%
CHROMIUM†	13840.8	0.1104	mg/L	0.00120	0.1104	mg/L	0.00120	1.09%
COBALT†	4944.0	0.1598	mg/L	0.00094	0.1598	mg/L	0.00094	0.59%
COPPER†	17368.8	0.1192	mg/L	0.00120	0.1192	mg/L	0.00120	1.01%
MANGANESE†	792159.1	1.931	mg/L	0.0170	1.931	mg/L	0.0170	0.88%
MOLYBDENUM†	3167.1	0.1071	mg/L	0.00133	0.1071	mg/L	0.00133	1.25%
NICKEL†	11717.5	0.1770	mg/L	0.00163	0.1770	mg/L	0.00163	0.92%
LEAD†	1351.4	0.1084	mg/L	0.00421	0.1084	mg/L	0.00421	3.88%
SELENIUM†	2020.0	0.5287	mg/L	0.00538	0.5287	mg/L	0.00538	1.02%
SILVER†	24630.6	0.1085	mg/L	0.00039	0.1085	mg/L	0.00039	0.36%
THALLIUM†	434.9	0.1204	mg/L	0.00321	0.1204	mg/L	0.00321	2.66%
VANADIUM†	70360.0	0.1071	mg/L	0.00469	0.1071	mg/L	0.00469	4.38%
ZINC†	13209.0	0.1757	mg/L	0.00163	0.1757	mg/L	0.00163	0.93%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	1660407.2	122.9	mg/L	1.15	122.9	mg/L	1.15	0.93%
IRON†	270838.3	16.2	mg/L	0.14	16.2	mg/L	0.14	0.86%
CALCIUM†	13915518.3	166	mg/L	2.3	166	mg/L	2.3	1.39%

Sequence No.: 159
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/19/10 11:28:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17714305.2	9.544	mg/L	0.0033				0.03%
ALUMINUM†	9038.7	0.5261	mg/L	0.00688	0.5261	mg/L	0.00688	1.31%
QC value within limits for ALUMINUM Recovery = 105.22%								
ANTIMONY†	1548.6	0.5010	mg/L	0.00233	0.5010	mg/L	0.00233	0.47%
QC value within limits for ANTIMONY Recovery = 100.21%								
ARSENIC†	1316.8	0.5115	mg/L	0.00324	0.5115	mg/L	0.00324	0.63%
QC value within limits for ARSENIC Recovery = 102.30%								
BARIUM†	45300.9	0.4928	mg/L	0.00271	0.4928	mg/L	0.00271	0.55%
QC value within limits for BARIUM Recovery = 98.57%								
BERYLLIUM†	2850984.2	0.4929	mg/L	0.00161	0.4929	mg/L	0.00161	0.33%
QC value within limits for BERYLLIUM Recovery = 98.58%								
CADMIUM†	19461.0	0.4868	mg/L	0.00197	0.4868	mg/L	0.00197	0.41%
QC value within limits for CADMIUM Recovery = 97.36%								
CHROMIUM†	62822.0	0.4915	mg/L	0.00303	0.4915	mg/L	0.00303	0.62%
QC value within limits for CHROMIUM Recovery = 98.30%								
COBALT†	15420.4	0.4907	mg/L	0.00222	0.4907	mg/L	0.00222	0.45%
QC value within limits for COBALT Recovery = 98.15%								
COPPER†	72881.9	0.4734	mg/L	0.00316	0.4734	mg/L	0.00316	0.67%
QC value within limits for COPPER Recovery = 94.68%								
MANGANESE†	202847.9	0.4960	mg/L	0.00351	0.4960	mg/L	0.00351	0.71%
QC value within limits for MANGANESE Recovery = 99.20%								
MOLYBDENUM†	15172.2	0.4970	mg/L	0.00189	0.4970	mg/L	0.00189	0.38%
QC value within limits for MOLYBDENUM Recovery = 99.40%								
NICKEL†	33188.6	0.4970	mg/L	0.00373	0.4970	mg/L	0.00373	0.75%
QC value within limits for NICKEL Recovery = 99.40%								
LEAD†	6513.6	0.5004	mg/L	0.00222	0.5004	mg/L	0.00222	0.44%
QC value within limits for LEAD Recovery = 100.09%								
SELENIUM†	1916.0	0.4991	mg/L	0.00487	0.4991	mg/L	0.00487	0.98%
QC value within limits for SELENIUM Recovery = 99.82%								
SILVER†	117527.2	0.4813	mg/L	0.00363	0.4813	mg/L	0.00363	0.75%
QC value within limits for SILVER Recovery = 96.26%								
THALLIUM†	1843.0	0.5268	mg/L	0.00348	0.5268	mg/L	0.00348	0.66%
QC value within limits for THALLIUM Recovery = 105.35%								
VANADIUM†	232379.5	0.5070	mg/L	0.00385	0.5070	mg/L	0.00385	0.76%
QC value within limits for VANADIUM Recovery = 101.41%								
ZINC†	35661.2	0.4898	mg/L	0.00292	0.4898	mg/L	0.00292	0.60%
QC value within limits for ZINC Recovery = 97.96%								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	7476.2	0.5611	mg/L	0.02316	0.5611	mg/L	0.02316	4.13%
QC value greater than the upper limit for MAGNESIUM Recovery = 112.21%								
IRON†	7986.0	0.507	mg/L	0.0045	0.507	mg/L	0.0045	0.89%
QC value within limits for IRON Recovery = 101.49%								
CALCIUM†	49935.1	0.614	mg/L	0.0337	0.614	mg/L	0.0337	5.49%
QC value greater than the upper limit for CALCIUM Recovery = 122.75%								

QC Failed. Continue with analysis.

Sequence No.: 160 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 2/19/10 11:33:16 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17652207.2	9.511	mg/L	0.0569				0.60%
ALUMINUM†	337.6	0.0255	mg/L	0.00352	0.0255	mg/L	0.00352	13.82%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	20.2	0.0084	mg/L	0.00035	0.0084	mg/L	0.00035	4.12%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	-5.5	-0.0015	mg/L	0.00699	-0.0015	mg/L	0.00699	454.75%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	-9.8	0.0029	mg/L	0.00016	0.0029	mg/L	0.00016	5.55%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-801.3	0.0035	mg/L	0.00010	0.0035	mg/L	0.00010	2.95%

QC value within limits for BERYLLIUM Recovery = Not calculated						
CADMIUM†	50.0	0.0059 mg/L	0.00042	0.0059 mg/L	0.00042	7.10%
QC value within limits for CADMIUM Recovery = Not calculated						
CHROMIUM†	160.0	0.0040 mg/L	0.00022	0.0040 mg/L	0.00022	5.60%
QC value within limits for CHROMIUM Recovery = Not calculated						
COBALT†	-91.5	0.0007 mg/L	0.00067	0.0007 mg/L	0.00067	97.83%
QC value within limits for COBALT Recovery = Not calculated						
COPPER†	342.2	0.0072 mg/L	0.00013	0.0072 mg/L	0.00013	1.80%
QC value within limits for COPPER Recovery = Not calculated						
MANGANESE†	-52.9	0.0022 mg/L	0.00017	0.0022 mg/L	0.00017	7.58%
QC value within limits for MANGANESE Recovery = Not calculated						
MOLYBDENUM†	42.2	0.0042 mg/L	0.00051	0.0042 mg/L	0.00051	11.94%
QC value within limits for MOLYBDENUM Recovery = Not calculated						
NICKEL†	302.8	0.0081 mg/L	0.00030	0.0081 mg/L	0.00030	3.72%
QC value within limits for NICKEL Recovery = Not calculated						
LEAD†	44.7	0.0064 mg/L	0.00278	0.0064 mg/L	0.00278	43.73%
QC value within limits for LEAD Recovery = Not calculated						
SELENIUM†	-10.0	0.0010 mg/L	0.00143	0.0010 mg/L	0.00143	150.07%
QC value within limits for SELENIUM Recovery = Not calculated						
SILVER†	-137.3	0.0029 mg/L	0.00024	0.0029 mg/L	0.00024	8.46%
QC value within limits for SILVER Recovery = Not calculated						
THALLIUM†	0.1	-0.0005 mg/L	0.00182	-0.0005 mg/L	0.00182	350.79%
QC value within limits for THALLIUM Recovery = Not calculated						
VANADIUM†	10402.4	0.0252 mg/L	0.00500	0.0252 mg/L	0.00500	19.88%
QC value greater than the upper limit for VANADIUM Recovery = Not calculated						
ZINC†	-112.6	0.0032 mg/L	0.00027	0.0032 mg/L	0.00027	8.23%
QC value within limits for ZINC Recovery = Not calculated						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	-485.6	-0.0326 mg/L	0.00536	-0.0326 mg/L	0.00536	16.45%
QC value within limits for MAGNESIUM Recovery = Not calculated						
IRON†	-435.9	-0.022 mg/L	0.0022	-0.022 mg/L	0.0022	10.37%
QC value within limits for IRON Recovery = Not calculated						
CALCIUM†	-2233.6	-0.010 mg/L	0.0034	-0.010 mg/L	0.0034	34.45%
QC value within limits for CALCIUM Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 161 **Autosampler Location: 114**
Sample ID: 10020428-20BPDS **Date Collected: 2/19/10 11:38:05 PM**
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: 5X **Data Type: Original**

Mean Data: 10020428-20BPDS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
YTTRIUM	17550062.6	9.456	mg/L	0.0374				0.40%
ALUMINUM†	5827.2	0.3840	mg/L	0.00811	1.920	mg/L	0.0406	2.11%
ANTIMONY†	660.3	0.2160	mg/L	0.00266	1.080	mg/L	0.0133	1.23%
ARSENIC†	562.7	0.2193	mg/L	0.00414	1.096	mg/L	0.0207	1.89%
BARIUM†	19132.5	0.2099	mg/L	0.00059	1.049	mg/L	0.0030	0.28%
BERYLLIUM†	1197325.9	0.2091	mg/L	0.00133	1.046	mg/L	0.0066	0.63%
CADMIUM†	7953.9	0.2018	mg/L	0.00061	1.009	mg/L	0.0031	0.30%
CHROMIUM†	25685.0	0.2026	mg/L	0.00118	1.013	mg/L	0.0059	0.58%
COBALT†	6571.4	0.2112	mg/L	0.00056	1.056	mg/L	0.0028	0.26%
COPPER†	30292.4	0.2004	mg/L	0.00117	1.002	mg/L	0.0058	0.58%
MANGANESE†	236117.0	0.5770	mg/L	0.00367	2.885	mg/L	0.0184	0.64%
MOLYBDENUM†	6330.9	0.2092	mg/L	0.00070	1.046	mg/L	0.0035	0.34%
NICKEL†	14366.0	0.2171	mg/L	0.00058	1.085	mg/L	0.0029	0.27%
LEAD†	2628.2	0.2040	mg/L	0.00037	1.020	mg/L	0.0018	0.18%
SELENIUM†	760.5	0.2003	mg/L	0.00120	1.001	mg/L	0.0060	0.60%
SILVER†	46885.5	0.1947	mg/L	0.00138	0.9737	mg/L	0.00691	0.71%
THALLIUM†	750.4	0.2137	mg/L	0.00227	1.068	mg/L	0.0113	1.06%
VANADIUM†	106930.5	0.2250	mg/L	0.00273	1.125	mg/L	0.0136	1.21%
ZINC†	15441.0	0.2130	mg/L	0.00068	1.065	mg/L	0.0034	0.32%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	321059.1	23.76	mg/L	0.146	118.8	mg/L	0.73	0.61%
IRON†	39964.1	2.40	mg/L	0.016	12.0	mg/L	0.08	0.66%

CALCIUM†	2676266.6	31.9 mg/L	0.21	160 mg/L	1.1	0.66%

Sequence No.: 162 **Autosampler Location: 115**
Sample ID: 10020428-20BPDSD **Date Collected: 2/19/10 11:43:05 PM**
Analyst: KL
Sample Wt: **Sample Prep Volume:**
Dilution: 5X **Data Type: Original**

Mean Data: 10020428-20BPDSD

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17527653.9	9.444	mg/L	0.0213				0.23%
ALUMINUM†	5824.3	0.3848	mg/L	0.00436	1.924	mg/L	0.0218	1.13%
ANTIMONY†	662.6	0.2168	mg/L	0.00090	1.084	mg/L	0.0045	0.42%
ARSENIC†	563.9	0.2197	mg/L	0.00441	1.099	mg/L	0.0221	2.01%
BARIUM†	19254.0	0.2112	mg/L	0.00136	1.056	mg/L	0.0068	0.64%
BERYLLIUM†	1216888.7	0.2125	mg/L	0.00139	1.062	mg/L	0.0070	0.66%
CADMIUM†	8018.1	0.2034	mg/L	0.00090	1.017	mg/L	0.0045	0.44%
CHROMIUM†	26258.0	0.2070	mg/L	0.00133	1.035	mg/L	0.0067	0.64%
COBALT†	6613.3	0.2125	mg/L	0.00183	1.063	mg/L	0.0091	0.86%
COPPER†	30889.1	0.2042	mg/L	0.00105	1.021	mg/L	0.0053	0.52%
MANGANESE†	239986.7	0.5864	mg/L	0.00370	2.932	mg/L	0.0185	0.63%
MOLYBDENUM†	6367.1	0.2104	mg/L	0.00099	1.052	mg/L	0.0049	0.47%
NICKEL†	14474.6	0.2187	mg/L	0.00061	1.093	mg/L	0.0030	0.28%
LEAD†	2644.7	0.2053	mg/L	0.00064	1.026	mg/L	0.0032	0.31%
SELENIUM†	757.4	0.1995	mg/L	0.00230	0.9973	mg/L	0.01150	1.15%
SILVER†	47700.6	0.1981	mg/L	0.00194	0.9903	mg/L	0.00969	0.98%
THALLIUM†	740.8	0.2109	mg/L	0.00486	1.055	mg/L	0.0243	2.30%
VANADIUM†	110328.6	0.2322	mg/L	0.00467	1.161	mg/L	0.0233	2.01%
ZINC†	15564.5	0.2146	mg/L	0.00107	1.073	mg/L	0.0054	0.50%
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	326110.2	24.14	mg/L	0.126	120.7	mg/L	0.63	0.52%
IRON†	40524.2	2.43	mg/L	0.020	12.2	mg/L	0.10	0.82%
CALCIUM†	2719055.8	32.4	mg/L	0.21	162	mg/L	1.1	0.65%

Sequence No.: 163 **Autosampler Location: 1**
Sample ID: CCV **Date Collected: 2/19/10 11:48:05 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17666571.0	9.519	mg/L	0.0671				0.70%
ALUMINUM†	8976.7	0.5228	mg/L	0.00355	0.5228	mg/L	0.00355	0.68%
QC value within limits for ALUMINUM Recovery = 104.55%								
ANTIMONY†	1540.4	0.4984	mg/L	0.00536	0.4984	mg/L	0.00536	1.07%
QC value within limits for ANTIMONY Recovery = 99.68%								
ARSENIC†	1323.7	0.5142	mg/L	0.00031	0.5142	mg/L	0.00031	0.06%
QC value within limits for ARSENIC Recovery = 102.84%								
BARIUM†	45662.8	0.4968	mg/L	0.00377	0.4968	mg/L	0.00377	0.76%
QC value within limits for BARIUM Recovery = 99.35%								
BERYLLIUM†	2870068.8	0.4962	mg/L	0.00402	0.4962	mg/L	0.00402	0.81%
QC value within limits for BERYLLIUM Recovery = 99.23%								
CADMIUM†	19529.3	0.4885	mg/L	0.00241	0.4885	mg/L	0.00241	0.49%
QC value within limits for CADMIUM Recovery = 97.70%								
CHROMIUM†	63266.4	0.4950	mg/L	0.00404	0.4950	mg/L	0.00404	0.82%
QC value within limits for CHROMIUM Recovery = 98.99%								
COBALT†	15474.6	0.4925	mg/L	0.00263	0.4925	mg/L	0.00263	0.53%
QC value within limits for COBALT Recovery = 98.49%								
COPPER†	73433.6	0.4770	mg/L	0.00382	0.4770	mg/L	0.00382	0.80%
QC value within limits for COPPER Recovery = 95.39%								
MANGANESE†	203792.7	0.4983	mg/L	0.00417	0.4983	mg/L	0.00417	0.84%
QC value within limits for MANGANESE Recovery = 99.66%								
MOLYBDENUM†	15214.5	0.4984	mg/L	0.00364	0.4984	mg/L	0.00364	0.73%

QC value within limits for MOLYBDENUM Recovery = 99.67%
NICKEL† 33408.9 0.5003 mg/L 0.00425 0.5003 mg/L 0.00425 0.85%
QC value within limits for NICKEL Recovery = 100.05%
LEAD† 6550.1 0.5032 mg/L 0.00316 0.5032 mg/L 0.00316 0.63%
QC value within limits for LEAD Recovery = 100.65%
SELENIUM† 1908.6 0.4972 mg/L 0.00280 0.4972 mg/L 0.00280 0.56%
QC value within limits for SELENIUM Recovery = 99.43%
SILVER† 118595.3 0.4857 mg/L 0.00471 0.4857 mg/L 0.00471 0.97%
QC value within limits for SILVER Recovery = 97.13%
THALLIUM† 1855.4 0.5303 mg/L 0.00621 0.5303 mg/L 0.00621 1.17%
QC value within limits for THALLIUM Recovery = 106.07%
VANADIUM† 235166.0 0.5131 mg/L 0.00795 0.5131 mg/L 0.00795 1.55%
QC value within limits for VANADIUM Recovery = 102.62%
ZINC† 35976.4 0.4941 mg/L 0.00363 0.4941 mg/L 0.00363 0.73%
QC value within limits for ZINC Recovery = 98.82%
ARGON Saturated2
Saturated in preshot (code 2)
MAGNESIUM† 6397.3 0.4812 mg/L 0.00457 0.4812 mg/L 0.00457 0.95%
QC value within limits for MAGNESIUM Recovery = 96.24%
IRON† 7783.4 0.496 mg/L 0.0016 0.496 mg/L 0.0016 0.33%
QC value within limits for IRON Recovery = 99.13%
CALCIUM† 41047.0 0.508 mg/L 0.0090 0.508 mg/L 0.0090 1.78%
QC value within limits for CALCIUM Recovery = 101.55%
All analytes passed QC.

Sequence No.: 164 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 2/19/10 11:53:14 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
YTTRIUM	17805400.9	9.594	mg/L	0.0228				0.24%
ALUMINUM†	254.8	0.0206	mg/L	0.00356	0.0206	mg/L	0.00356	17.32%
QC value within limits for ALUMINUM Recovery = Not calculated								
ANTIMONY†	15.8	0.0070	mg/L	0.00058	0.0070	mg/L	0.00058	8.31%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	12.7	0.0056	mg/L	0.00402	0.0056	mg/L	0.00402	72.28%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	11.2	0.0032	mg/L	0.00001	0.0032	mg/L	0.00001	0.40%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-182.8	0.0036	mg/L	0.00009	0.0036	mg/L	0.00009	2.44%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	41.3	0.0057	mg/L	0.00031	0.0057	mg/L	0.00031	5.48%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	106.4	0.0036	mg/L	0.00056	0.0036	mg/L	0.00056	15.60%
QC value within limits for CHROMIUM Recovery = Not calculated								
COBALT†	-74.8	0.0012	mg/L	0.00043	0.0012	mg/L	0.00043	35.55%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	294.4	0.0069	mg/L	0.00094	0.0069	mg/L	0.00094	13.73%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	-94.5	0.0021	mg/L	0.00008	0.0021	mg/L	0.00008	3.93%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	45.0	0.0043	mg/L	0.00036	0.0043	mg/L	0.00036	8.28%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	287.4	0.0079	mg/L	0.00025	0.0079	mg/L	0.00025	3.10%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	50.4	0.0068	mg/L	0.00187	0.0068	mg/L	0.00187	27.61%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	-9.4	0.0011	mg/L	0.00223	0.0011	mg/L	0.00223	200.24%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-191.0	0.0026	mg/L	0.00042	0.0026	mg/L	0.00042	15.86%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	17.5	0.0045	mg/L	0.00613	0.0045	mg/L	0.00613	137.22%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	6547.5	0.0169	mg/L	0.00270	0.0169	mg/L	0.00270	16.02%
QC value within limits for VANADIUM Recovery = Not calculated								

ZINC†	-121.4	0.0031 mg/L	0.00049	0.0031 mg/L	0.00049	15.83%
QC value within limits for ZINC Recovery = Not calculated						
ARGON	Saturated2					
Saturated in preshot (code 2)						
MAGNESIUM†	-553.2	-0.0376 mg/L	0.00423	-0.0376 mg/L	0.00423	11.26%
QC value within limits for MAGNESIUM Recovery = Not calculated						
IRON†	-429.1	-0.022 mg/L	0.0009	-0.022 mg/L	0.0009	4.26%
QC value within limits for IRON Recovery = Not calculated						
CALCIUM†	-3269.4	-0.022 mg/L	0.0018	-0.022 mg/L	0.0018	8.30%
QC value within limits for CALCIUM Recovery = Not calculated						
All analytes passed QC.						

Sequence No.: 165 **Autosampler Location:** 4
Sample ID: ICSA **Date Collected:** 2/19/10 11:58:04 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	16154913.2	8.704	mg/L	0.0099				0.11%
ALUMINUM†	9478534.6	525.9	mg/L	0.42	525.9	mg/L	0.42	0.08%
QC value within limits for ALUMINUM Recovery = 105.19%								
ANTIMONY†	-109.6	-0.0319	mg/L	0.00680	-0.0319	mg/L	0.00680	21.31%
QC value within limits for ANTIMONY Recovery = Not calculated								
ARSENIC†	-136.6	0.0127	mg/L	0.00747	0.0127	mg/L	0.00747	58.85%
QC value within limits for ARSENIC Recovery = Not calculated								
BARIUM†	627.3	0.0107	mg/L	0.00018	0.0107	mg/L	0.00018	1.71%
QC value within limits for BARIUM Recovery = Not calculated								
BERYLLIUM†	-7912.3	0.0023	mg/L	0.00004	0.0023	mg/L	0.00004	1.76%
QC value within limits for BERYLLIUM Recovery = Not calculated								
CADMIUM†	-263.0	0.0131	mg/L	0.00038	0.0131	mg/L	0.00038	2.89%
QC value within limits for CADMIUM Recovery = Not calculated								
CHROMIUM†	2314.0	0.0208	mg/L	0.00050	0.0208	mg/L	0.00050	2.39%
QC value greater than the upper limit for CHROMIUM Recovery = Not calculated								
COBALT†	-179.1	-0.0021	mg/L	0.00056	-0.0021	mg/L	0.00056	26.93%
QC value within limits for COBALT Recovery = Not calculated								
COPPER†	14549.2	-0.0020	mg/L	0.00079	-0.0020	mg/L	0.00079	40.43%
QC value within limits for COPPER Recovery = Not calculated								
MANGANESE†	-8698.5	-0.0010	mg/L	0.00017	-0.0010	mg/L	0.00017	16.49%
QC value within limits for MANGANESE Recovery = Not calculated								
MOLYBDENUM†	-1099.8	-0.0014	mg/L	0.00196	-0.0014	mg/L	0.00196	140.46%
QC value within limits for MOLYBDENUM Recovery = Not calculated								
NICKEL†	1550.9	0.0027	mg/L	0.00016	0.0027	mg/L	0.00016	5.91%
QC value within limits for NICKEL Recovery = Not calculated								
LEAD†	-862.6	0.0034	mg/L	0.00082	0.0034	mg/L	0.00082	23.74%
QC value within limits for LEAD Recovery = Not calculated								
SELENIUM†	-907.5	-0.0063	mg/L	0.00117	-0.0063	mg/L	0.00117	18.46%
QC value within limits for SELENIUM Recovery = Not calculated								
SILVER†	-31811.4	0.0193	mg/L	0.00057	0.0193	mg/L	0.00057	2.97%
QC value within limits for SILVER Recovery = Not calculated								
THALLIUM†	318.5	-0.0122	mg/L	0.00428	-0.0122	mg/L	0.00428	34.97%
QC value within limits for THALLIUM Recovery = Not calculated								
VANADIUM†	37267.6	0.0265	mg/L	0.00278	0.0265	mg/L	0.00278	10.47%
QC value within limits for VANADIUM Recovery = Not calculated								
ZINC†	-1594.0	-0.0151	mg/L	0.00048	-0.0151	mg/L	0.00048	3.19%
QC value within limits for ZINC Recovery = Not calculated								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	7150523.7	533.4	mg/L	2.11	533.4	mg/L	2.11	0.40%
QC value within limits for MAGNESIUM Recovery = 106.68%								
IRON†	7909335.6	472	mg/L	2.0	472	mg/L	2.0	0.43%
QC value within limits for IRON Recovery = 94.34%								
CALCIUM†	43220382.9	516	mg/L	0.2	516	mg/L	0.2	0.04%
QC value within limits for CALCIUM Recovery = 103.11%								
QC Failed. Continue with analysis.								

Sequence No.: 166
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/20/10 12:03:29 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	15970721.0	8.605	mg/L	0.0360				0.42%
ALUMINUM†	9414685.5	522.5	mg/L	0.12	522.5	mg/L	0.12	0.02%
QC value within limits for ALUMINUM Recovery = 104.50%								
ANTIMONY†	33121.0	10.63	mg/L	0.036	10.63	mg/L	0.036	0.34%
QC value within limits for ANTIMONY Recovery = 106.30%								
ARSENIC†	27768.5	10.89	mg/L	0.079	10.89	mg/L	0.079	0.73%
QC value within limits for ARSENIC Recovery = 108.90%								
BARIUM†	275966.2	2.987	mg/L	0.0086	2.987	mg/L	0.0086	0.29%
QC value within limits for BARIUM Recovery = 99.58%								
BERYLLIUM†	6187272.3	1.065	mg/L	0.0007	1.065	mg/L	0.0007	0.06%
QC value within limits for BERYLLIUM Recovery = 106.54%								
CADMIUM†	134913.6	3.362	mg/L	0.0182	3.362	mg/L	0.0182	0.54%
QC value within limits for CADMIUM Recovery = 112.06%								
CHROMIUM†	393558.1	3.065	mg/L	0.0087	3.065	mg/L	0.0087	0.29%
QC value within limits for CHROMIUM Recovery = 102.15%								
COBALT†	91537.7	2.895	mg/L	0.0161	2.895	mg/L	0.0161	0.56%
QC value within limits for COBALT Recovery = 96.51%								
COPPER†	519130.2	3.245	mg/L	0.0071	3.245	mg/L	0.0071	0.22%
QC value within limits for COPPER Recovery = 108.15%								
MANGANESE†	827902.2	2.035	mg/L	0.0061	2.035	mg/L	0.0061	0.30%
QC value within limits for MANGANESE Recovery = 101.73%								
MOLYBDENUM†	93687.5	3.085	mg/L	0.0149	3.085	mg/L	0.0149	0.48%
QC value within limits for MOLYBDENUM Recovery = 102.84%								
NICKEL†	195827.2	2.891	mg/L	0.0086	2.891	mg/L	0.0086	0.30%
QC value within limits for NICKEL Recovery = 96.37%								
LEAD†	128366.1	9.868	mg/L	0.0510	9.868	mg/L	0.0510	0.52%
QC value within limits for LEAD Recovery = 98.68%								
SELENIUM†	19921.4	5.379	mg/L	0.0434	5.379	mg/L	0.0434	0.81%
QC value within limits for SELENIUM Recovery = 107.59%								
SILVER†	675452.9	2.893	mg/L	0.0091	2.893	mg/L	0.0091	0.31%
QC value within limits for SILVER Recovery = 96.44%								
THALLIUM†	35780.1	10.14	mg/L	0.054	10.14	mg/L	0.054	0.53%
QC value within limits for THALLIUM Recovery = 101.41%								
VANADIUM†	1485322.9	3.170	mg/L	0.0123	3.170	mg/L	0.0123	0.39%
QC value within limits for VANADIUM Recovery = 105.66%								
ZINC†	211276.1	2.879	mg/L	0.0087	2.879	mg/L	0.0087	0.30%
QC value within limits for ZINC Recovery = 95.96%								
ARGON	Saturated2							
Saturated in preshot (code 2)								
MAGNESIUM†	7085553.4	528.6	mg/L	1.56	528.6	mg/L	1.56	0.29%
QC value within limits for MAGNESIUM Recovery = 105.71%								
IRON†	7843980.9	468	mg/L	1.4	468	mg/L	1.4	0.30%
QC value within limits for IRON Recovery = 93.60%								
CALCIUM†	42736787.3	510	mg/L	0.4	510	mg/L	0.4	0.08%
QC value within limits for CALCIUM Recovery = 101.95%								

All analytes passed QC.

Sequence No.: 167
Sample ID: RINSE BLANK
Analyst: KL
Sample Wt:
Dilution:

Autosampler Location: 116
Date Collected: 2/20/10 12:08:16 AM

Sample Prep Volume:
Data Type: Original

Mean Data: RINSE BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
YTTRIUM	17722240.6	9.549	mg/L	0.0085				0.09%
ALUMINUM†	7324.1	0.4130	mg/L	0.11860	0.4130	mg/L	0.11860	28.71%
ANTIMONY†	39.7	0.0147	mg/L	0.00573	0.0147	mg/L	0.00573	39.08%

METALS PREP AND ANALYTICAL RUN LOGS

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **87095**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Prep Start Date: **2/12/2010 5:00:00 PM**
Prep End Date: **2/13/2010 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
10020428-01A	Water	1		0	50	1		X	50	1	
10020428-02A	Water	1		0	50	1		X	50	1	
10020428-03A	Water	1		0	50	1		X	50	1	
10020428-04A	Water	1		0	50	1		X	50	1	
10020428-05A	Water	1		0	50	1		X	50	1	
10020428-06A	Water	1		0	50	1		X	50	1	
10020428-07A	Water	1		0	50	1		X	50	1	
10020428-08A	Water	1		0	50	1		X	50	1	
10020428-08AMS	Water	1		0	50	1		X	50	1	
10020428-08AMSD	Water	1		0	50	1		X	50	1	
10020428-09A	Water	1		0	50	1		X	50	1	
10020428-10A	Water	1		0	50	1		X	50	1	
10020428-11A	Water	1		0	50	1		X	50	1	
10020428-12A	Water	1		0	50	1		X	50	1	
10020428-13A	Water	1		0	50	1		X	50	1	
10020428-14A	Water	1		0	50	1		X	50	1	
10020428-15A	Water	1		0	50	1		X	50	1	
10020428-16A	Water	1		0	50	1		X	50	1	
10020428-17A	Water	1		0	50	1		X	50	1	
10020428-18A	Water	1		0	50	1		X	50	1	
10020428-20A	Water	1		0	50	1		X	50	1	
LCS-87095		1		0	50	1		X	50	1	
MBLK-87095		1		0	50	1		X	50	1	

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **87096**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Prep Start Date: **2/12/2010 5:00:00 PM**
Prep End Date: **2/13/2010 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
10020428-19A	Water	1		0	50	1		X	50	1	
10020428-19AMS	Water	1		0	50	1		X	50	1	
10020428-19AMSD	Water	1		0	50	1		X	50	1	
10020428-21A	Water	1		0	50	1		X	50	1	
10020428-22A	Water	1		0	50	1		X	50	1	
10020428-23A	Water	1		0	50	1		X	50	1	
10020428-24A	Water	1		0	50	1		X	50	1	
10020428-25A	Water	1		0	50	1		X	50	1	
10020428-26A	Water	1		0	50	1		X	50	1	
10020428-27A	Water	1		0	50	1		X	50	1	
10020428-28A	Water	1		0	50	1		X	50	1	
10020428-29A	Water	1		0	50	1		X	50	1	
10020428-30A	Water	1		0	50	1		X	50	1	
10020428-31A	Water	1		0	50	1		X	50	1	
10020428-32A	Water	1		0	50	1		X	50	1	
10020428-33A	Water	1		0	50	1		X	50	1	
10020428-34A	Water	1		0	50	1		X	50	1	
10020428-35A	Water	1		0	50	1		X	50	1	
LCS-87096		1		0	50	1		X	50	1	
MBLK-87096		1		0	50	1		X	50	1	

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **87103**
Prep Code: **PR3005_6010**
Technician: **Savannah Alfred**

Prep Start Date: **2/12/2010 2:00:00 PM**
Prep End Date: **2/12/2010 2:05:00 PM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
10020428-20B	Water	1		0	100	1		X	100	1	
10020428-27B	Water	1		0	100	1		X	100	1	
10020461-01E	Water	1		0	100	1		X	100	1	
10020461-02E	Water	1		0	100	1		X	100	1	
10020461-03E	Water	1		0	100	1		X	100	1	
10020461-04E	Water	1		0	100	1		X	100	1	
LCS-87103		1		0	100	1		X	100	1	
MBLK-87103		1		0	100	1		X	100	1	

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.		Sample ID
1	7		Calib Blank 1 06135-194-01
2	1		Calib Std 1 07022-152-11
3	2		Calib Std 2 06126-05-07
4	3		Calib Std 3 -29-07
5	9		Calib Std 4 -55-07
6	10		Calib Std 5 -79-07
7	6	QC	ICV 06126-133-13
8	11		LLICV 07022-154-02
9	7	QC	ICB 06135-194-01
10	6	QC	CCV 06126-271-14
11	12		LLCCV 07022-154-02
12	7	QC	CCB 06135-194-01
13	4	QC	ICSA 06126-162-03
14	5	QC	ICSAB 06126-202-03
15	13		RINSE BLANK
16	14		RINSE BLANK
17	15		MBLK-87221
18	16		LCS-87221
19	17		10020634-03A
20	18		10020634-03ASD
21	19		10020634-03AMS
22	20		10020634-03AMSD
23	6	QC	CCV 06126-271-14
24	7	QC	CCB 06135-194-01
25	21		10020634-03APDS
26	22		10020634-03APDSD
27	23		10020683-01A
28	24		10020540-01A
29	25		10020541-03A
30	6	QC	CCV
31	7	QC	CCB
32	4	QC	ICSA
33	5	QC	ICSAB
34	26		RINSE BLANK
35	27		RINSE BLANK
36	28		MBLK-87220
37	29		LCS-87220
38	30		10020643-04B
39	31		10020643-04BSD
40	32		10020643-04BMS
41	33		10020643-04BMSD
42	6	QC	CCV
43	7	QC	CCB
44	34		10020643-04BPDS
45	35		10020643-04BPDSD
46	36		10020643-05B
47	37		10020643-09B
48	38		10020625-02B
49	39		10020627-02A
50	40		10020628-01A
51	41		10020629-03A
52	42		10020630-03A
53	43		10020631-03A
54	6	QC	CCV
55	7	QC	CCB
56	44		10020632-03A

10021910220V
02-19-10
SW

00183

yttrium 07022-130-15

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.		Sample ID
57	6	QC	CCV
58	7	QC	CCB
59	4	QC	ICSA
60	5	QC	ICSAB
61	45		RINSE BLANK
62	46		RINSE BLANK
63	47		MBLK-87222
64	48		LCS-87222
65	49		10020624-01C
66	50		10020624-01CSD
67	51		10020624-01CMS
68	52		10020624-01CMSD
69	6	QC	CCV
70	7	QC	CCB
71	53		10020624-01CPDS
72	54		10020624-01CPDSD
73	55		10020624-02C
74	56		10020624-03C
75	57		10020624-04C
76	58		10020624-05C
77	59		10020624-06C
78	60		10020624-07C
79	61		10020624-08C
80	62		10020624-09C
81	6	QC	CCV
82	7	QC	CCB
83	63		10020624-10C
84	64		10020624-11C
85	65		10020624-12C
86	66		10020624-13C
87	6	QC	CCV
88	11		LLCCV
89	7	QC	CCB
90	4	QC	ICSA
91	5	QC	ICSAB
92	67		RINSE BLANK
93	68		RINSE BLANK
94	69		MBLK-87225
95	70		LCS-87225
96	71		10020655-01B
97	72		10020655-01BSD
98	73		10020655-01BMS
99	74		10020655-01BMSD
100	6	QC	CCV
101	11		LLCCV
102	7	QC	CCB
103	75		10020655-01BPDS
104	76		10020655-01BPDSD
105	6	QC	CCV
106	11		LLCCV
107	7	QC	CCB
108	4	QC	ICSA
109	5	QC	ICSAB
110	77		RINSE BLANK
111	78		RINSE BLANK
112	79		MBLK-87095

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.	Sample ID	Status
113	80	LCS-87095	
114	81	10020428-08A QC	
115	82	10020428-08ASD	
116	83	10020428-08AMS	
117	84	10020428-08AMSD	
118	6	CCV	
119	7	CCB	
120	85	10020428-08APDS	
121	86	10020428-08APDSD	
122	87	10020428-13A MW-06	
123	88	10020428-20A BA-01	
124	89	10020428-02A BA-09	
125	6	CCV	
126	7	CCB	
127	4	ICSA	
128	5	ICSAB	
129	90	RINSE BLANK	
130	91	RINSE BLANK	
131	92	MBLK-87096	
132	93	LCS-87096	
133	94	10020428-19A QC	
134	95	10020428-19ASD	
135	96	10020428-19AMS	
136	97	10020428-19AMSD	
137	6	CCV	
138	7	CCB	
139	98	10020428-19APDS	
140	99	10020428-19APDSD	
141	100	10020428-22A PW-04	
142	101	10020428-23A DW-02	
143	102	10020428-29A BA-03	
144	103	10020428-30A MW-02	
145	104	10020428-31A MW-01	
146	105	10020428-33A DUPLICATE #2	
147	1	CCV	
148	2	CCB	
149	4	ICSA	
150	5	ICSAB	
151	106	RINSE BLANK	
152	107	RINSE BLANK	
153	108	MBLK-87103	
154	109	LCS-87103	
155	110	10020428-20B BA-01	
156	111	10020428-20BSD	
157	112	10020428-20BMS	
158	113	10020428-20BMSD	
159	1	CCV	
160	2	CCB	
161	114	10020428-20BPDS	
162	115	10020428-20BPDSD	
163	1	CCV	
164	2	CCB	
165	4	ICSA	
166	5	ICSAB	
167	116	RINSE BLANK	
168	117	RINSE BLANK	

Analytical Sequence

Method : 6010B 200.7

Seq.	Loc.		Sample ID	Status
169	118		MBLK-87232	
170	119		LCS-87232	
171	120		10020636-01A	
172	121		10020636-01ASD	
173	122		10020636-01AMS	
174	123		10020636-01AMSD	
175	1	QC	CCV	
176	2	QC	CCB	
177	124		10020636-01APDS	
178	125		10020636-01APDSD	
179	126		10020649-10A	
180	127		10020679-01A	
181	128		10020679-02A	
182	129		10020679-03A	
183	130		10020679-04A	
184	131		10020679-05A	
185	132		10020679-06A	
186	133		10020679-07A	
187	1	QC	CCV	
188	2	QC	CCB	
189	134		10020679-08A	
190	135		10020679-09A	
191	136		10020679-10A	
192	1	QC	CCV	
193	2	QC	CCB	
194	4	QC	ICSA	
195	5	QC	ICSAB	
196	137		RINSE BLANK	
197	138		RINSE BLANK	

METALS CLP-LIKE FORMS

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 10020428

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	10020428-20	2/9/10 14:19	2/11/10 17:20	Water
BA-01A	10020428-19	2/9/10 13:53	2/11/10 17:20	Water
BA-03	10020428-29	2/10/10 15:57	2/11/10 17:20	Water
BA-03A	10020428-28	2/10/10 15:26	2/11/10 17:20	Water
BA-05	10020428-25	2/10/10 12:38	2/11/10 17:20	Water
BA-05A	10020428-24	2/10/10 12:03	2/11/10 17:20	Water
BA-09	10020428-02	2/8/10 11:21	2/11/10 17:20	Water
BA-09A	10020428-01	2/8/10 10:53	2/11/10 17:20	Water
BB-01	10020428-14	2/9/10 11:50	2/11/10 17:20	Water
BC-03	10020428-07	2/8/10 15:09	2/11/10 17:20	Water
BC-07	10020428-08	2/9/10 8:19	2/11/10 17:20	Water
BC-17	10020428-16	2/9/10 12:50	2/11/10 17:20	Water
BC-19	10020428-10	2/9/10 9:11	2/11/10 17:20	Water
BC-21R	10020428-18	2/9/10 13:19	2/11/10 17:20	Water
BC-25	10020428-11	2/9/10 9:43	2/11/10 17:20	Water
DUPLICATE #1	10020428-32	2/9/10 0:00	2/11/10 17:20	Water
DUPLICATE #2	10020428-33	2/10/10 0:00	2/11/10 17:20	Water
DUPLICATE #3	10020428-34	2/10/10 0:00	2/11/10 17:20	Water
DUPLICATE #4	10020428-35	2/10/10 0:00	2/11/10 17:20	Water
DW-01	10020428-27	2/10/10 14:50	2/11/10 17:20	Water
DW-02	10020428-23	2/10/10 11:40	2/11/10 17:20	Water
DW-03	10020428-21	2/10/10 9:53	2/11/10 17:20	Water
DW-04	10020428-09	2/9/10 8:48	2/11/10 17:20	Water
MW-01	10020428-31	2/11/10 10:53	2/11/10 17:20	Water
MW-02	10020428-30	2/11/10 10:20	2/11/10 17:20	Water
MW-03	10020428-12	2/9/10 10:06	2/11/10 17:20	Water
MW-04	10020428-03	2/8/10 11:51	2/11/10 17:20	Water
MW-06	10020428-13	2/9/10 11:01	2/11/10 17:20	Water
MW-A	10020428-26	2/10/10 14:13	2/11/10 17:20	Water
NORTH WELL	10020428-17	2/9/10 12:55	2/11/10 17:20	Water
PW-04	10020428-22	2/10/10 10:28	2/11/10 17:20	Water
(b) (6) WELL	10020428-06	2/8/10 14:30	2/11/10 17:20	Water
SOUTH WELL	10020428-15	2/9/10 12:25	2/11/10 17:20	Water

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: Keran Lafleur

Name: KERAN LAFLEUR

Date: 2-25-10

Title: METALS SUPERVISOR

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 10020428

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
WW-04	10020428-05	2/8/10 14:20	2/11/10 17:20	Water
WW-09	10020428-04	2/8/10 12:25	2/11/10 17:20	Water

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: Keran Lafleur

Name: KERAN LAFLEUR

Date: 2-25-10

Title: METALS SUPERVISOR

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-09A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-01A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000504	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0234		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-09

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-02A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	5	0.000687	U	0.000687	0.005		P	mg/L
7439-96-5	Manganese	1	3.41		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.161		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	5	0.000735	U	0.000735	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

MW-04

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-03A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000524	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00770		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

WW-09

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-04A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000381	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0144		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

WW-04

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-05A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000137	U	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00297		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

(b) (6) WELL

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-06A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.00292		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0203		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-03

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-07A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000221	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00138	J	0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.00146	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-07

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-08A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000163	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0129		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000783	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000220	J	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DW-04

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-09A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000534	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.000732	J	0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BC-19

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-10A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000185	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00119	J	0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.00104	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-25

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-11A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000153	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00641		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-03

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-12A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.00508		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.462		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.00141	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-06

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-13A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	1	0.000493	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	2.25		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0191		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BB-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-14A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00319	J	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.00591		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00421		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.00104	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

SOUTH WELL

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-15A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000213	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00364		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-17

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-16A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.0209		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0709		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.00138	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

NORTH WELL

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-17A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000732	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00324		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BC-21R

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-18A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000162	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00642		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000979	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-01A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-19A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00417		0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000339	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00660		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000237	J	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-20A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	1	0.000806	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	1.34		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0465		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DW-03

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-21A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00180	J	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.220		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.284		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0145		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

PW-04

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-22A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	1	0.000655	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	1.50		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0358		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-02

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-23A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	5	0.0460		0.000687	0.005		P	mg/L
7439-96-5	Manganese	1	9.15		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.388		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	5	0.000735	U	0.000735	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-05A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-24A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000137	U	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0120		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-05

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-25A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000137	U	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	15.4		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0580		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-26A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000137	U	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00402		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-27A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.0648		0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.00357		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	5.19		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0187		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-03A

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-28A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000137	U	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0238		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

BA-03

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-29A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	1	0.146		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	2.20		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0898		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-02

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-30A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	1	0.00150		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.728		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0775		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
MW-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-31A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	5	0.00389	J	0.000687	0.005		P	mg/L
7439-96-5	Manganese	1	3.57		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.150		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	5	0.000735	U	0.000735	0.01		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #1

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-32A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.0153		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0762		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.00139	J	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #2

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-33A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	1	0.000508	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	1.43		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.0326		0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #3

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-34A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000137	U	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.00171	J	0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID

DUPLICATE #4

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-35A

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Total

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00145	U	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.000184	J	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	0.0259		0.000091	0.002	N	P	mg/L
7440-02-0	Nickel	1	0.000678	U	0.000678	0.002	N	P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 12:19	Sample Type:	CCV
RunID:	ICPMS_100215A-3457538	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	100.6	100.6	P	90	110
Lead	100	101.1	101.1	P	90	110
Manganese	100	98.44	98.4	P	90	110
Nickel	100	99.64	99.6	P	90	110
Thallium	100	101.0	101.0	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 17:07	Sample Type:	CCV
RunID:	ICPMS_100215A-3457628	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	105.2	105.2	P	90	110
Lead	100	106.6	106.6	P	90	110
Manganese	100	99.23	99.2	P	90	110
Nickel	100	97.90	97.9	P	90	110
Thallium	100	106.9	106.9	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 17:42	Sample Type:	CCV
RunID:	ICPMS_100215A-3457640	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	104.1	104.1	P	90	110
Lead	100	105.5	105.5	P	90	110
Manganese	100	93.26	93.3	P	90	110
Nickel	100	92.98	93.0	P	90	110
Thallium	100	105.2	105.2	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 18:14	Sample Type:	CCV
RunID:	ICPMS_100215A-3457652	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	105.2	105.2	P	90	110
Lead	100	108.8	108.8	P	90	110
Manganese	100	93.62	93.6	P	90	110
Nickel	100	93.56	93.6	P	90	110
Thallium	100	107.7	107.7	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 18:41	Sample Type:	CCV
RunID:	ICPMS_100215A-3457662	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	108.2	108.2	P	90	110
Lead	100	109.4	109.4	P	90	110
Manganese	100	91.72	91.7	P	90	110
Nickel	100	90.45	90.4	P	90	110
Thallium	100	109.2	109.2	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 19:16	Sample Type:	CCV
RunID:	ICPMS_100215A-3457674	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	104.7	104.7	P	90	110
Lead	100	106.3	106.3	P	90	110
Manganese	100	92.39	92.4	P	90	110
Nickel	100	92.68	92.7	P	90	110
Thallium	100	105.2	105.2	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 19:48	Sample Type:	CCV
RunID:	ICPMS_100215A-3457686	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	106.6	106.6	P	90	110
Lead	100	111.0	111.0	P	90	110
Manganese	100	92.11	92.1	P	90	110
Nickel	100	91.28	91.3	P	90	110
Thallium	100	108.4	108.4	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/15/10 20:07	Sample Type:	CCV
RunID:	ICPMS_100215A-3457693	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	109.3	109.3	P	90	110
Lead	100	110.1	110.1	P	90	110
Manganese	100	91.25	91.3	P	90	110
Nickel	100	91.45	91.4	P	90	110
Thallium	100	109.8	109.8	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/16/10 9:48	Sample Type:	CCV
RunID:	ICPMS_100216A-3458547	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	102.6	102.6	P	90	110
Lead	100	96.79	96.8	P	90	110
Thallium	100	97.83	97.8	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/16/10 11:30	Sample Type:	CCV
RunID:	ICPMS_100216A-3458570	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	99.14	99.1	P	90	110
Lead	100	96.15	96.2	P	90	110
Thallium	100	96.59	96.6	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/16/10 12:48	Sample Type:	CCV
RunID:	ICPMS_100216A-3458580	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	98.68	98.7	P	90	110
Lead	100	97.26	97.3	P	90	110
Thallium	100	96.88	96.9	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/16/10 13:20	Sample Type:	CCV
RunID:	ICPMS_100216A-3458592	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	98.74	98.7	P	90	110
Lead	100	98.25	98.2	P	90	110
Thallium	100	98.58	98.6	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/16/10 13:47	Sample Type:	CCV
RunID:	ICPMS_100216A-3458601	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	99.22	99.2	P	90	110
Lead	100	95.36	95.4	P	90	110
Thallium	100	96.11	96.1	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/15/10 12:05	Sample Type:	ICV
RunID:	ICPMS_100215A-3457535	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	100.3	100.3	P	90	110
Lead	100	98.77	98.8	P	90	110
Manganese	100	97.01	97.0	P	90	110
Nickel	100	98.96	99.0	P	90	110
Thallium	100	100.2	100.2	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/16/10 9:34	Sample Type:	ICV
RunID:	ICPMS_100216A-3458544	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	100.7	100.7	P	90	110
Lead	100	99.81	99.8	P	90	110
Thallium	100	100.0	100.0	P	90	110

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Lab Sample ID: ICB

Matrix: Water

Analysis Date: 2/15/10 12:16

Run ID: ICPMS_100215A-3457537

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.20	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: ICB

Matrix: Water

Analysis Date: 2/16/10 9:45

Run ID: ICPMS_100216A-3458546

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-87095
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	2/15/10 17:21		
Run ID:	ICPMS_100215A-3457632		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00145	U	0.00145	0.004	P	mg/L
7439-92-1	Lead	0.000137	U	0.000137	0.001	P	mg/L
7439-96-5	Manganese	0.000277	J	0.0000914	0.002	P	mg/L
7440-02-0	Nickel	0.000678	U	0.000678	0.002	P	mg/L
7440-28-0	Thallium	0.000147	U	0.000147	0.002	P	mg/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-87096
Matrix:	Water	Total/Dissolved:	Total
Analysis Date:	2/15/10 18:55		
Run ID:	ICPMS_100215A-3457666		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00145	U	0.00145	0.004	P	mg/L
7439-92-1	Lead	0.000137	U	0.000137	0.001	P	mg/L
7439-96-5	Manganese	0.000279	J	0.0000914	0.002	P	mg/L
7440-02-0	Nickel	0.000678	U	0.000678	0.002	P	mg/L
7440-28-0	Thallium	0.000147	U	0.000147	0.002	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 12:28

Run ID: ICPMS_100215A-3457540

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.21	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 17:12

Run ID: ICPMS_100215A-3457629

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.21	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 17:45

Run ID: ICPMS_100215A-3457641

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.22	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 18:17

Run ID: ICPMS_100215A-3457653

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.22	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 18:46

Run ID: ICPMS_100215A-3457663

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.23	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 19:19

Run ID: ICPMS_100215A-3457675

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.21	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 19:51

Run ID: ICPMS_100215A-3457687

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.36	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/15/10 20:12

Run ID: ICPMS_100215A-3457694

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.26	J	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 9:55

Run ID: ICPMS_100216A-3458549

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 11:40

Run ID: ICPMS_100216A-3458571

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 12:50

Run ID: ICPMS_100216A-3458581

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 13:23

Run ID: ICPMS_100216A-3458593

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 13:49

Run ID: ICPMS_100216A-3458602

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/15/2010 12:32			02/15/2010 12:34				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	91901.4	91.9		95012.1	95.01		70-130	70-130
Antimony	0	0	0.79711	0		0.59973	0		-	-
Arsenic	0	40	0	0		35.1	87.73		-	70-130
Barium	0	0	2.16554	0		2.03581	0		-	-
Beryllium	0	0	1.44574	0		1.41764	0		-	-
Boron	0	0	3.16493	0		3.00098	0		-	-
Cadmium	0	40	2.6	0		40	100.1		-	70-130
Calcium	100000	100000	99739.6	99.74		98006.1	98.01		70-130	70-130
Chromium	0	80	1.61277	0		83.1	103.9		-	70-130
Cobalt	0	80	1.68625	0		80.6	100.8		-	70-130
Copper	0	80	1.53776	0		75.1	93.86		-	70-130
Iron	100000	100000	97428	97.43		98057.5	98.06		70-130	70-130
Lead	0	0	0.16521	0		0.15684	0		-	-
Lithium	0	0	1.24427	0		1.44953	0		-	-
Magnesium	100000	100000	93168	93.17		94636.3	94.64		70-130	70-130
Manganese	0	80	7.5	0		87.4	109.2		-	70-130
Molybdenum	2000	2000	1993.9	99.69		2009.9	100.5		70-130	70-130
Nickel	0	80	2.2	0		78.7	98.41		-	70-130
Potassium	100000	100000	87529	87.53		89528.7	89.53		70-130	70-130
Selenium	0	40	1.03453	0		40.2	100.6		-	70-130
Silver	0	20	0.30467	0		18.7	93.64		-	70-130
Sodium	100000	100000	95925.5	95.93		97181.4	97.18		70-130	70-130
Strontium	0	0	3	0		3	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0.6974	0		0.66002	0		-	-
Titanium	2000	2000	2061.9	103.1		2020.8	101		70-130	70-130
Vanadium	0	80	0	0		83.2	104		-	70-130
Zinc	0	40	0	0		38.1	95.26		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/15/2010 17:15			02/15/2010 17:18				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	95371	95.37		100729	100.7		70-130	70-130
Antimony	0	0	0.70693	0		0.60245	0		-	-
Arsenic	0	40	0	0		34.2	85.53		-	70-130
Barium	0	0	2.24054	0		2.15651	0		-	-
Beryllium	0	0	1.42135	0		1.42799	0		-	-
Boron	0	0	3.47639	0		3.15662	0		-	-
Cadmium	0	40	2.4	0		41.1	102.7		-	70-130
Calcium	100000	100000	100063	100.1		101556	101.6		70-130	70-130
Chromium	0	80	1.49931	0		82.2	102.7		-	70-130
Cobalt	0	80	1.62889	0		80.8	100.9		-	70-130
Copper	0	80	1.46761	0		74.4	93		-	70-130
Iron	100000	100000	95725.4	95.72		97536.4	97.54		70-130	70-130
Lead	0	0	0.17981	0		0.17603	0		-	-
Lithium	0	0	1.69618	0		1.72697	0		-	-
Magnesium	100000	100000	99287.9	99.29		102956	103		70-130	70-130
Manganese	0	80	7.3	0		87	108.8		-	70-130
Molybdenum	2000	2000	2040.7	102		2081.3	104.1		70-130	70-130
Nickel	0	80	2.4	0		78.1	97.62		-	70-130
Potassium	100000	100000	94182.8	94.18		97941.3	97.94		70-130	70-130
Selenium	0	40	0	0		41	102.5		-	70-130
Silver	0	20	0.31292	0		19.1	95.6		-	70-130
Sodium	100000	100000	99380.9	99.38		103777	103.8		70-130	70-130
Strontium	0	0	3.1	0		3.1	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0.69359	0		0.68072	0		-	-
Titanium	2000	2000	2040.7	102		2075.1	103.8		70-130	70-130
Vanadium	0	80	0	0		83.6	104.5		-	70-130
Zinc	0	40	0	0		37.8	94.59		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/15/2010 18:49			02/15/2010 18:52				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	101160	101.2		101174	101.2		70-130	70-130
Antimony	0	0	0.65969	0		0.56751	0		-	-
Arsenic	0	40	0	0		33.8	84.51		-	70-130
Barium	0	0	2.12932	0		2.09166	0		-	-
Beryllium	0	0	1.42446	0		1.43927	0		-	-
Boron	0	0	4.09926	0		4.0502	0		-	-
Cadmium	0	40	2.6	0		41.2	102.9		-	70-130
Calcium	100000	100000	98860.3	98.86		100043	100		70-130	70-130
Chromium	0	80	1.30098	0		78.4	97.98		-	70-130
Cobalt	0	80	1.58532	0		77.1	96.42		-	70-130
Copper	0	80	1.40927	0		71.1	88.84		-	70-130
Iron	100000	100000	90809.3	90.81		92399.1	92.4		70-130	70-130
Lead	0	0	0.17447	0		0.18309	0		-	-
Lithium	0	0	2.1	0		2.1	0		-	-
Magnesium	100000	100000	106286	106.3		105640	105.6		70-130	70-130
Manganese	0	80	7	0		82.5	103.2		-	70-130
Molybdenum	2000	2000	2061.5	103.1		2093.4	104.7		70-130	70-130
Nickel	0	80	2.3	0		74.2	92.71		-	70-130
Potassium	100000	100000	102707	102.7		102313	102.3		70-130	70-130
Selenium	0	40	0	0		40.2	100.6		-	70-130
Silver	0	20	0.30982	0		19.1	95.49		-	70-130
Sodium	100000	100000	106874	106.9		107553	107.6		70-130	70-130
Strontium	0	0	3.1	0		3.1	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0.69762	0		0.66221	0		-	-
Titanium	2000	2000	1963.9	98.2		1988.4	99.42		70-130	70-130
Vanadium	0	80	0	0		80.2	100.3		-	70-130
Zinc	0	40	0	0		36.7	91.65		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/15/2010 20:15			02/15/2010 20:18				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	109049	109		105419	105.4		70-130	70-130
Antimony	0	0	0.71154	0		0.59997	0		-	-
Arsenic	0	40	0	0		33.7	84.24		-	70-130
Barium	0	0	2.10122	0		2.06432	0		-	-
Beryllium	0	0	1.4495	0		1.432	0		-	-
Boron	0	0	5.20366	0		4.71659	0		-	-
Cadmium	0	40	2.5	0		41.8	104.4		-	70-130
Calcium	100000	100000	102870	102.9		99264.6	99.26		70-130	70-130
Chromium	0	80	1.44057	0		78.8	98.47		-	70-130
Cobalt	0	80	1.66528	0		76.6	95.76		-	70-130
Copper	0	80	1.46835	0		70.6	88.31		-	70-130
Iron	100000	100000	95278.2	95.28		92738.9	92.74		70-130	70-130
Lead	0	0	0.17923	0		0.17323	0		-	-
Lithium	0	0	2.4	0		2.4	0		-	-
Magnesium	100000	100000	114074	114.1		110967	111		70-130	70-130
Manganese	0	80	7.4	0		81.8	102.3		-	70-130
Molybdenum	2000	2000	2101.2	105.1		2054	102.7		70-130	70-130
Nickel	0	80	2.2	0		73.9	92.38		-	70-130
Potassium	100000	100000	109046	109		104950	105		70-130	70-130
Selenium	0	40	0	0		40.4	101.1		-	70-130
Silver	0	20	0.31164	0		19	95.13		-	70-130
Sodium	100000	100000	114034	114		112260	112.3		70-130	70-130
Strontium	0	0	3.1	0		3.1	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0.68555	0		0.69872	0		-	-
Titanium	2000	2000	2070	103.5		2001.3	100.1		70-130	70-130
Vanadium	0	80	0	0		81.2	101.5		-	70-130
Zinc	0	40	0	0		36.9	92.2		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/16/2010 09:59			02/16/2010 10:02				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	98509.7	98.51		99630.8	99.63		70-130	70-130
Antimony	0	0	0.59059	0		0.39566	0		-	-
Arsenic	0	40	0	0		35.5	88.65		-	70-130
Barium	0	0	1.98322	0		2.05368	0		-	-
Beryllium	0	0	0.60207	0		0.58538	0		-	-
Boron	0	0	3.27314	0		3.10447	0		-	-
Cadmium	0	40	2.5	0		40.6	101.5		-	70-130
Calcium	100000	100000	100007	100		100604	100.6		70-130	70-130
Chromium	0	80	1.62941	0		84.2	105.3		-	70-130
Cobalt	0	80	2.2	0		82.1	102.6		-	70-130
Copper	0	80	2.1	0		75.5	94.42		-	70-130
Iron	100000	100000	100468	100.5		98520.5	98.52		70-130	70-130
Lead	0	0	0	0		0	0		-	-
Lithium	0	0	0.55779	0		0.7471	0		-	-
Magnesium	100000	100000	96881.9	96.88		101091	101.1		70-130	70-130
Manganese	0	80	7.1	0		88.1	110.1		-	70-130
Molybdenum	2000	2000	2061.1	103.1		2038.4	101.9		70-130	70-130
Nickel	0	80	2.9	0		79.5	99.37		-	70-130
Potassium	100000	100000	91806.2	91.81		93877.8	93.88		70-130	70-130
Selenium	0	40	0	0		38.5	96.29		-	70-130
Silver	0	20	0	0		18.8	93.94		-	70-130
Sodium	100000	100000	99660.8	99.66		101004	101		70-130	70-130
Strontium	0	0	2.5	0		2.5	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0	0		0	0		-	-
Titanium	2000	2000	2107	105.4		2101.2	105.1		70-130	70-130
Vanadium	0	80	0	0		84.6	105.7		-	70-130
Zinc	0	40	0	0		39.4	98.48		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/16/2010 12:11			02/16/2010 12:14				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	96194.1	96.19		99470.7	99.47		70-130	70-130
Antimony	0	0	0.49748	0		0	0		-	-
Arsenic	0	40	0	0		36.9	92.14		-	70-130
Barium	0	0	2.05386	0		1.997	0		-	-
Beryllium	0	0	0.6005	0		0.58937	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	2.6	0		41.6	104		-	70-130
Calcium	100000	100000	97655.8	97.66		97970.7	97.97		70-130	70-130
Chromium	0	80	1.79738	0		84.9	106.1		-	70-130
Cobalt	0	80	2.2	0		83	103.8		-	70-130
Copper	0	80	2.1	0		75.8	94.69		-	70-130
Iron	100000	100000	98772.5	98.77		99834.6	99.84		70-130	70-130
Lead	0	0	0	0		0	0		-	-
Lithium	0	0	0.76689	0		0.8159	0		-	-
Magnesium	100000	100000	97663.1	97.66		102878	102.9		70-130	70-130
Manganese	0	80	7.1	0		89.2	111.5		-	70-130
Molybdenum	2000	2000	2076.9	103.8		2079.8	104		70-130	70-130
Nickel	0	80	2.9	0		79.6	99.46		-	70-130
Potassium	100000	100000	90188.7	90.19		96146.8	96.15		70-130	70-130
Selenium	0	40	0	0		39.6	98.88		-	70-130
Silver	0	20	0	0		19.4	96.78		-	70-130
Sodium	100000	100000	98668.5	98.67		104082	104.1		70-130	70-130
Strontium	0	0	2.6	0		2.6	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0	0		0	0		-	-
Titanium	2000	2000	2077.9	103.9		2096	104.8		70-130	70-130
Vanadium	0	80	0	0		84.4	105.5		-	70-130
Zinc	0	40	4.06889	0		39	97.56		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/16/2010 13:52			02/16/2010 13:55				
	Sol. A	Sol. AB	Sol. A Found	% R	Q	Sol. AB Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	100440	100.4		99808.6	99.81		70-130	70-130
Antimony	0	0	0.61386	0		0.38315	0		-	-
Arsenic	0	40	0	0		35.9	89.87		-	70-130
Barium	0	0	2.01866	0		1.96087	0		-	-
Beryllium	0	0	0.59292	0		0.59593	0		-	-
Boron	0	0	4.6991	0		3.99805	0		-	-
Cadmium	0	40	2.3	0		41.2	103		-	70-130
Calcium	100000	100000	97618.4	97.62		99002.5	99		70-130	70-130
Chromium	0	80	1.30837	0		80.9	101.1		-	70-130
Cobalt	0	80	2.1	0		77.2	96.5		-	70-130
Copper	0	80	1.95662	0		71.5	89.39		-	70-130
Iron	100000	100000	96251.9	96.25		95690.9	95.69		70-130	70-130
Lead	0	0	0	0		0	0		-	-
Lithium	0	0	1.19608	0		1.06795	0		-	-
Magnesium	100000	100000	105156	105.2		102507	102.5		70-130	70-130
Manganese	0	80	6.9	0		84.7	105.9		-	70-130
Molybdenum	2000	2000	2039.2	102		2082.8	104.1		70-130	70-130
Nickel	0	80	2.6	0		74.9	93.67		-	70-130
Potassium	100000	100000	98374.2	98.37		96770.4	96.77		70-130	70-130
Selenium	0	40	0	0		39.6	98.97		-	70-130
Silver	0	20	0	0		19.1	95.37		-	70-130
Sodium	100000	100000	104624	104.6		103262	103.3		70-130	70-130
Strontium	0	0	2.6	0		2.7	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0	0		0	0		-	-
Titanium	2000	2000	2038	101.9		2030.4	101.5		70-130	70-130
Vanadium	0	80	0	0		81.1	101.4		-	70-130
Zinc	0	40	0	0		37.7	94.26		-	70-130

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BC-07MS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.00145	U	0.08697		86.97		75	125	P
Lead	0.1	0.000163	J	0.09341		93.2		75	125	P
Manganese	0.1	0.0129		0.09721		84.3		75	125	P
Nickel	0.1	0.000783	J	0.07987		79.1		75	125	P
Thallium	0.1	0.000220	J	0.09135		91.1		75	125	P

Matrix Spike - Client SampleID: BC-07MSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.07762		77.62		11.4		20	75	125	P
Lead	0.1	0.08222		82.1		12.7		20	75	125	P
Manganese	0.1	0.08531		72.4	N	13.0		20	75	125	P
Nickel	0.1	0.07132		70.5	N	11.3		20	75	125	P
Thallium	0.1	0.08192		81.7		10.9		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BA-01AMS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.00417		0.08991		85.7		75	125	P
Lead	0.1	0.000339	J	0.09556		95.2		75	125	P
Manganese	0.1	0.00660		0.08318		76.6		75	125	P
Nickel	0.1	0.000678	U	0.07623		76.23		75	125	P
Thallium	0.1	0.000237	J	0.09355		93.3		75	125	P

Matrix Spike - Client SampleID: BA-01AMSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.08652		82.4		3.84		20	75	125	P
Lead	0.1	0.09022		89.9		5.75		20	75	125	P
Manganese	0.1	0.08147		74.9	N	2.08		20	75	125	P
Nickel	0.1	0.07348		73.48	N	3.67		20	75	125	P
Thallium	0.1	0.08961		89.4		4.30		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BC-07PDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.00145	U	0.4988	99.76		75	125	P
Lead	0.5	0.000163	J	0.4950	99.0		75	125	P
Manganese	0.5	0.0129		0.4511	87.6		75	125	P
Nickel	0.5	0.000783	J	0.4317	86.2		75	125	P
Thallium	0.5	0.000220	J	0.4939	98.7		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.5245	104.9		5.02		20	75	125	P
Lead	0.5	0.5290	106		6.64		20	75	125	P
Manganese	0.5	0.4831	94.0		6.85		20	75	125	P
Nickel	0.5	0.4585	91.5		6.02		20	75	125	P
Thallium	0.5	0.5250	105		6.10		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Ext. method:

Total/Diss.: Total Level:(low/med): LOW

Matrix Spike - Client SampleID: BA-01APDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.00417		0.5202	103		75	125	P
Lead	0.5	0.000339	J	0.5524	110		75	125	P
Manganese	0.5	0.00660		0.4767	94.0		75	125	P
Nickel	0.5	0.000678	U	0.4642	92.84		75	125	P
Thallium	0.5	0.000237	J	0.5486	110		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.5251	104		0.938		20	75	125	P
Lead	0.5	0.5571	111		0.847		20	75	125	P
Manganese	0.5	0.4784	94.4		0.356		20	75	125	P
Nickel	0.5	0.4719	94.39		1.65		20	75	125	P
Thallium	0.5	0.5503	110		0.309		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-87095

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.09557	95.57	80 - 120					
Lead	P	0.1	0.1105	110.5	80 - 120					
Manganese	P	0.1	0.09684	96.84	80 - 120					
Nickel	P	0.1	0.09450	94.50	80 - 120					
Thallium	P	0.1	0.1094	109.4	80 - 120					

00268

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-87096

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Total/Dissolved: Total

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.09538	95.38	80 - 120					
Lead	P	0.1	0.1110	111.0	80 - 120					
Manganese	P	0.1	0.09043	90.43	80 - 120					
Nickel	P	0.1	0.08917	89.17	80 - 120					
Thallium	P	0.1	0.1114	111.4	80 - 120					

00269

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

ICP SERIAL DILUTIONS

Client Sample ID
BC-07SD

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

Total/Diss.: Total

Lab Sample ID: 10020428-08A

SDG: 10020428

Concentration Units: mg/L

Analyte	Initial Sample Results (I)	C	Serial Dilution Results (S)	C	% Difference	Q	M
Arsenic	0.00145	U	0.007246	U			P
Lead	0.000163	J	0.0006865	U			P
Manganese	0.0129		0.01472				P
Nickel	0.000783	J	0.003392	U			P
Thallium	0.000220	J	0.000735	U			P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

ICP SERIAL DILUTIONS

Client Sample ID
BA-01ASD

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

Total/Diss.: Total

Lab Sample ID: 10020428-19A

SDG: 10020428

Concentration Units: mg/L

Analyte	Initial Sample Results (I)	C	Serial Dilution Results (S)	C	% Difference	Q	M
Arsenic	0.00417		0.007246	U			P
Lead	0.000339	J	0.0006865	U			P
Manganese	0.00660		0.007405	J			P
Nickel	0.000678	U	0.003392	U			P
Thallium	0.000237	J	0.000735	U			P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Instrument ID Number: ICPMS Date: 11/21/2008

6020_W_ALL

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic	75.000		0.0040	0.0014	P
Lead	208.000		0.0010	0.00014	P
Manganese	55.000		0.0020	0.000091	P
Nickel	60.000		0.0020	0.00068	P
Thallium	205.000		0.0020	0.00015	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
10020428-20A	BA-01	2/12/10	0	50	50
10020428-02A	BA-09	2/12/10	0	50	50
10020428-01A	BA-09A	2/12/10	0	50	50
10020428-14A	BB-01	2/12/10	0	50	50
10020428-07A	BC-03	2/12/10	0	50	50
10020428-08A	BC-07	2/12/10	0	50	50
10020428-08AMS	BC-07MS	2/12/10	0	50	50
10020428-08AMSD	BC-07MSD	2/12/10	0	50	50
10020428-16A	BC-17	2/12/10	0	50	50
10020428-10A	BC-19	2/12/10	0	50	50
10020428-18A	BC-21R	2/12/10	0	50	50
10020428-11A	BC-25	2/12/10	0	50	50
10020428-09A	DW-04	2/12/10	0	50	50
LCS-87095	LCS-87095	2/12/10	0	50	50
MBLK-87095	MBLK-87095	2/12/10	0	50	50
10020428-12A	MW-03	2/12/10	0	50	50
10020428-03A	MW-04	2/12/10	0	50	50
10020428-13A	MW-06	2/12/10	0	50	50
10020428-17A	NORTH WELL	2/12/10	0	50	50
10020428-06A	(b) (6) WELL	2/12/10	0	50	50
10020428-15A	SOUTH WELL	2/12/10	0	50	50
10020428-05A	WW-04	2/12/10	0	50	50
10020428-04A	WW-09	2/12/10	0	50	50

PREPARATION LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Method: SW3010A

Total/Diss.: Total

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
10020428-19A	BA-01A	2/12/10	0	50	50
10020428-19AMS	BA-01AMS	2/12/10	0	50	50
10020428-19AMSD	BA-01AMSD	2/12/10	0	50	50
10020428-29A	BA-03	2/12/10	0	50	50
10020428-28A	BA-03A	2/12/10	0	50	50
10020428-25A	BA-05	2/12/10	0	50	50
10020428-24A	BA-05A	2/12/10	0	50	50
10020428-32A	DUPLICATE #1	2/12/10	0	50	50
10020428-33A	DUPLICATE #2	2/12/10	0	50	50
10020428-34A	DUPLICATE #3	2/12/10	0	50	50
10020428-35A	DUPLICATE #4	2/12/10	0	50	50
10020428-27A	DW-01	2/12/10	0	50	50
10020428-23A	DW-02	2/12/10	0	50	50
10020428-21A	DW-03	2/12/10	0	50	50
LCS-87096	LCS-87096	2/12/10	0	50	50
MBLK-87096	MBLK-87096	2/12/10	0	50	50
10020428-31A	MW-01	2/12/10	0	50	50
10020428-30A	MW-02	2/12/10	0	50	50
10020428-26A	MW-A	2/12/10	0	50	50
10020428-22A	PW-04	2/12/10	0	50	50

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Total

Start Date: 2/15/2010 End Date: 2/15/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																														
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn					
ICV	ICV	1	12:05				X	X		X		X				X		X			X		X			X			X						
ICB	ICB	1	12:16				X	X		X		X				X		X			X		X			X			X						
CCV	CCV	1	12:19				X	X		X		X				X		X			X		X			X			X						
CCB	CCB	1	12:28				X	X		X		X				X		X			X		X			X			X						
ICSA	ICSA	1	12:32		X		X	X		X	X	X			X	X	X	X			X		X			X			X						
ICSAB	ICSAB	1	12:34		X		X	X		X	X	X			X	X	X	X			X		X			X			X						
CCV	CCV	1	17:07				X	X		X		X				X		X			X		X			X			X						
CCB	CCB	1	17:12				X	X		X		X				X		X			X		X			X			X						
ICSA	ICSA	1	17:15		X		X	X		X	X	X			X	X	X	X			X		X			X			X						
ICSAB	ICSAB	1	17:18		X		X	X		X	X	X			X	X	X	X			X		X			X			X						
MBLK-87095	MBLK-87095	1	17:21				X									X		X			X								X						
LCS-87095	LCS-87095	1	17:23				X									X		X			X								X						
10020428-08A	BC-07	1	17:26				X									X		X			X								X						
10020428-08ASD	BC-07SD	5	17:29				X									X		X			X								X						
10020428-08AMS	BC-07MS	1	17:31				X									X		X			X								X						
10020428-08AMSD	BC-07MSD	1	17:34				X									X		X			X								X						
10020428-08APDS	BC-07PDS	5	17:37				X									X		X			X								X						
10020428-08APDSD	BC-07PDSD	5	17:39				X									X		X			X								X						
CCV	CCV	1	17:42				X	X		X		X				X		X			X		X			X			X						
CCB	CCB	1	17:45				X	X		X		X				X		X			X		X			X			X						
10020428-01A	BA-09A	1	17:47				X									X		X			X								X						
10020428-02A	BA-09	1	17:50															X			X														
10020428-03A	MW-04	1	17:53				X									X		X			X								X						
10020428-04A	WW-09	1	17:55				X									X		X			X								X						
10020428-05A	WW-04	1	17:58				X									X		X			X								X						
10020428-06A	(b) (6) WELL	1	18:01				X									X		X			X								X						
10020428-07A	BC-03	1	18:03				X									X		X			X								X						
10020428-09A	DW-04	1	18:06				X									X		X			X								X						
10020428-10A	BC-19	1	18:09				X									X		X			X								X						
10020428-11A	BC-25	1	18:12				X									X		X			X								X						
CCV	CCV	1	18:14				X	X		X		X				X		X			X		X			X			X						

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Total

Start Date: 2/15/2010 End Date: 2/15/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn			
CCB	CCB	1	18:17				X	X		X		X				X		X			X		X			X			X				
10020428-12A	MW-03	1	18:20				X									X		X			X								X				
10020428-13A	MW-06	1	18:22													X		X			X								X				
10020428-14A	BB-01	1	18:25				X									X		X			X								X				
10020428-15A	SOUTH WELL	1	18:28				X									X		X			X								X				
10020428-16A	BC-17	1	18:30				X									X		X			X								X				
10020428-17A	NORTH WELL	1	18:33				X									X		X			X								X				
10020428-18A	BC-21R	1	18:36				X									X		X			X								X				
10020428-20A	BA-01	1	18:38													X		X			X								X				
CCV	CCV	1	18:41				X	X		X		X				X		X			X		X			X			X				
CCB	CCB	1	18:46				X	X		X		X				X		X			X		X			X			X				
ICSA	ICSA	1	18:49		X		X	X		X	X	X			X	X	X	X			X		X			X			X				
ICSAB	ICSAB	1	18:52		X		X	X		X	X	X			X	X	X	X			X		X			X			X				
MBLK-87096	MBLK-87096	1	18:55				X									X		X			X								X				
LCS-87096	LCS-87096	1	18:57				X									X		X			X								X				
10020428-19A	BA-01A	1	19:00				X									X		X			X								X				
10020428-19ASD	BA-01ASD	5	19:03				X									X		X			X								X				
10020428-19AMS	BA-01AMS	1	19:05				X									X		X			X								X				
10020428-19AMSD	BA-01AMSD	1	19:08				X									X		X			X								X				
10020428-19APDS	BA-01APDS	5	19:11				X									X		X			X								X				
10020428-19APDSD	BA-01APDSD	5	19:13				X									X		X			X								X				
CCV	CCV	1	19:16				X	X		X		X				X		X			X		X			X			X				
CCB	CCB	1	19:19				X	X		X		X				X		X			X		X			X			X				
10020428-21A	DW-03	1	19:21															X			X												
10020428-22A	PW-04	1	19:24															X			X												
10020428-23A	DW-02	1	19:27															X			X												
10020428-24A	BA-05A	1	19:29															X			X												
10020428-25A	BA-05	1	19:32															X			X												
10020428-26A	MW-A	1	19:35															X			X												
10020428-27A	DW-01	1	19:37															X			X												
10020428-28A	BA-03A	1	19:40															X			X												

10020428

ANALYSIS RUN LOG

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Method: SW6020

Instrument ID: ICPMS

Total/Dissolved: Total

Start Date: 2/15/2010 End Date: 2/15/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
10020428-29A	BA-03	1	19:43															X			X										
10020428-30A	MW-02	1	19:45															X			X										
CCV	CCV	1	19:48				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	19:51				X	X		X		X				X		X			X		X			X			X		
10020428-31A	MW-01	1	19:54															X			X										
10020428-32A	DUPLICATE #1	1	19:56															X			X										
10020428-33A	DUPLICATE #2	1	19:59															X			X										
10020428-34A	DUPLICATE #3	1	20:02															X			X										
10020428-35A	DUPLICATE #4	1	20:04															X			X										
CCV	CCV	1	20:07				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	20:12				X	X		X		X				X		X			X		X			X			X		
ICSA	ICSA	1	20:15		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
ICSAB	ICSAB	1	20:18		X		X	X		X	X	X			X	X	X	X			X		X			X			X		

00277

ANALYSIS RUN LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Method: SW6020

Instrument ID: ICPMS Total/Dissolved: Total

Start Date: 2/16/2010 End Date: 2/16/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																												
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	09:34				X	X		X		X				X		X			X		X			X			X		
ICB	ICB	1	09:45				X	X		X		X				X		X			X		X			X			X		
CCV	CCV	1	09:48				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	09:55				X	X		X		X				X		X			X		X			X			X		
ICSA	ICSA	1	09:59		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
ICSAB	ICSAB	1	10:02		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
CCV	CCV	1	11:30				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	11:40				X	X		X		X				X		X			X		X			X			X		
ICSA	ICSA	1	12:11		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
ICSAB	ICSAB	1	12:14		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
10020428-02A	BA-09	5	12:22													X													X		
10020428-21A	DW-03	1	12:37				X									X													X		
10020428-22A	PW-04	1	12:40													X													X		
CCV	CCV	1	12:48				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	12:50				X	X		X		X				X		X			X		X			X			X		
10020428-23A	DW-02	5	12:53													X													X		
10020428-24A	BA-05A	1	12:58				X									X													X		
10020428-25A	BA-05	1	13:01				X									X													X		
10020428-26A	MW-A	1	13:04				X									X													X		
10020428-27A	DW-01	1	13:06				X									X													X		
10020428-28A	BA-03A	1	13:09				X									X													X		
10020428-29A	BA-03	1	13:12													X													X		
10020428-30A	MW-02	1	13:17													X													X		
CCV	CCV	1	13:20				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	13:23				X	X		X		X				X		X			X		X			X			X		
10020428-31A	MW-01	5	13:31													X													X		
10020428-32A	DUPLICATE #1	1	13:36				X									X													X		
10020428-33A	DUPLICATE #2	1	13:39													X													X		
10020428-34A	DUPLICATE #3	1	13:41				X									X													X		
10020428-35A	DUPLICATE #4	1	13:44				X									X													X		
CCV	CCV	1	13:47				X	X		X		X				X		X			X		X			X			X		

00278

ANALYSIS RUN LOG

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Method: SW6020

Instrument ID: ICPMS

Total/Dissolved: Total

Start Date: 2/16/2010 End Date: 2/16/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																														
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn					
CCB	CCB	1	13:49				X	X		X		X				X		X			X		X			X			X						
ICSA	ICSA	1	13:52		X		X	X		X	X	X			X	X	X	X			X		X			X			X						
ICSAB	ICSAB	1	13:55		X		X	X		X	X	X			X	X	X	X			X		X			X			X						

00279

COVER PAGE - INORGANICS DATA PACKAGE

Lab Name: SPL Inc.

Lab Code: SPLLAF

SDG: 10020428

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Matrix
BA-01	10020428-20	2/9/10 14:19	2/11/10 17:20	Water
DW-01	10020428-27	2/10/10 14:50	2/11/10 17:20	Water

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: Keran LaFleur

Name: KERAN LAFLEUR

Date: 2-25-10

Title: METALS SUPERVISOR

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
BA-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-20B

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Dissolved

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7439-92-1	Lead	1	0.000137	U	0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	1.59		0.000091	0.002		P	mg/L
7440-02-0	Nickel	1	0.0546		0.000678	0.009		P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

INORGANIC ANALYSIS DATA SHEET

Client Sample ID
DW-01

Lab Name: SPL Inc.

Lab Code: SPLLAF

Matrix: Water

Level: LOW

% Moisture: 0

SDG: 10020428

Lab Sample ID: 10020428-27B

Date Received: 2/11/2010 5:20:00PM

Total/Dissolved: Dissolved

Prep Method:

CAS No.	Analyte	DF	Conc.	C	MDL	PQL	Q	M	Units
7440-38-2	Arsenic	1	0.00290	J	0.00145	0.004		P	mg/L
7439-92-1	Lead	1	0.00283		0.000137	0.001		P	mg/L
7439-96-5	Manganese	1	6.21		0.000091	0.002		P	mg/L
7440-02-0	Nickel	1	0.0220		0.000678	0.009		P	mg/L
7440-28-0	Thallium	1	0.000147	U	0.000147	0.002		P	mg/L

CONTINUING CALIBRATION VERIFICATION

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Lab Sample ID: CCV

Analysis 2/16/10 9:48 Sample Type: CCV

RunID: ICPMS_100216A-3458547 Concentration Units: ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	102.6	102.6	P	90	110
Lead	100	96.79	96.8	P	90	110
Manganese	100	98.14	98.1	P	90	110
Nickel	100	97.31	97.3	P	90	110
Thallium	100	97.83	97.8	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/16/10 10:58	Sample Type:	CCV
RunID:	ICPMS_100216A-3458560	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	103.6	103.6	P	90	110
Lead	100	97.55	97.6	P	90	110
Manganese	100	100.7	100.7	P	90	110
Nickel	100	97.08	97.1	P	90	110
Thallium	100	97.17	97.2	P	90	110

CONTINUING CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	CCV
Analysis	2/16/10 11:30	Sample Type:	CCV
RunID:	ICPMS_100216A-3458570	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	99.14	99.1	P	90	110
Lead	100	96.15	96.2	P	90	110
Manganese	100	98.44	98.4	P	90	110
Nickel	100	94.98	95.0	P	90	110
Thallium	100	96.59	96.6	P	90	110

INITIAL CALIBRATION VERIFICATION

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	ICV
Analysis	2/16/10 9:34	Sample Type:	ICV
RunID:	ICPMS_100216A-3458544	Concentration Units:	ug/L

Analyte	True	Found	%R	M	QC Limits Low	QC Limits High
Arsenic	100	100.7	100.7	P	90	110
Lead	100	99.81	99.8	P	90	110
Manganese	100	96.91	96.9	P	90	110
Nickel	100	95.51	95.5	P	90	110
Thallium	100	100.0	100.0	P	90	110

INITIAL CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: ICB

Matrix: Water

Analysis Date: 2/16/10 9:45

Run ID: ICPMS_100216A-3458546

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.091	U	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

METHOD BLANK

Lab Name:	SPL Inc.	SDG:	10020428
Lab Code:	SPLLAF	Lab Sample ID:	MBLK-87103
Matrix:	Water	Total/Dissolved:	Dissolved
Analysis Date:	2/16/10 10:33		
Run ID:	ICPMS_100216A-3458553		

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	0.00145	U	0.00145	0.004	P	mg/L
7439-92-1	Lead	0.000137	U	0.000137	0.001	P	mg/L
7439-96-5	Manganese	0.000220	J	0.0000914	0.002	P	mg/L
7440-02-0	Nickel	0.00877	J	0.000678	0.009	P	mg/L
7440-28-0	Thallium	0.000147	U	0.000147	0.002	P	mg/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 9:55

Run ID: ICPMS_100216A-3458549

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.091	U	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc.
SDG: 10020428

Lab Code: SPLLAF
Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 11:05

Run ID: ICPMS_100216A-3458562

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.091	U	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

CONTINUING CALIBRATION BLANK

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Lab Sample ID: CCB

Matrix: Water

Analysis Date: 2/16/10 11:40

Run ID: ICPMS_100216A-3458571

CAS No.	Analyte	Conc.	C	MDL	PQL	M	Units
7440-38-2	Arsenic	1.4	U	1.4	4.0	P	ug/L
7439-92-1	Lead	0.14	U	0.14	1.0	P	ug/L
7439-96-5	Manganese	0.091	U	0.091	2.0	P	ug/L
7440-02-0	Nickel	0.68	U	0.68	2.0	P	ug/L
7440-28-0	Thallium	0.15	U	0.15	2.0	P	ug/L

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/16/2010 09:59			02/16/2010 10:02				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	98509.7	98.51		99630.8	99.63		70-130	70-130
Antimony	0	0	0.59059	0		0.39566	0		-	-
Arsenic	0	40	0	0		35.5	88.65		-	70-130
Barium	0	0	1.98322	0		2.05368	0		-	-
Beryllium	0	0	0.60207	0		0.58538	0		-	-
Boron	0	0	3.27314	0		3.10447	0		-	-
Cadmium	0	40	2.5	0		40.6	101.5		-	70-130
Calcium	100000	100000	100007	100		100604	100.6		70-130	70-130
Chromium	0	80	1.62941	0		84.2	105.3		-	70-130
Cobalt	0	80	2.2	0		82.1	102.6		-	70-130
Copper	0	80	2.1	0		75.5	94.42		-	70-130
Iron	100000	100000	100468	100.5		98520.5	98.52		70-130	70-130
Lead	0	0	0	0		0	0		-	-
Lithium	0	0	0.55779	0		0.7471	0		-	-
Magnesium	100000	100000	96881.9	96.88		101091	101.1		70-130	70-130
Manganese	0	80	7.1	0		88.1	110.1		-	70-130
Molybdenum	2000	2000	2061.1	103.1		2038.4	101.9		70-130	70-130
Nickel	0	80	2.9	0		79.5	99.37		-	70-130
Potassium	100000	100000	91806.2	91.81		93877.8	93.88		70-130	70-130
Selenium	0	40	0	0		38.5	96.29		-	70-130
Silver	0	20	0	0		18.8	93.94		-	70-130
Sodium	100000	100000	99660.8	99.66		101004	101		70-130	70-130
Strontium	0	0	2.5	0		2.5	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0	0		0	0		-	-
Titanium	2000	2000	2107	105.4		2101.2	105.1		70-130	70-130
Vanadium	0	80	0	0		84.6	105.7		-	70-130
Zinc	0	40	0	0		39.4	98.48		-	70-130

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF ICS Source: Lab ICS Mix

Dissolved: Total

ICP ID Number: ICPMS Concentration Units: ug/L

Analyte	True		Found						QC Limits	
			02/16/2010 12:11			02/16/2010 12:14				
			Sol. A			Sol. AB				
	Sol. A	Sol. AB	Found	% R	Q	Found	% R	Q	Sol. A	Sol. AB
Aluminum	100000	100000	96194.1	96.19		99470.7	99.47		70-130	70-130
Antimony	0	0	0.49748	0		0	0		-	-
Arsenic	0	40	0	0		36.9	92.14		-	70-130
Barium	0	0	2.05386	0		1.997	0		-	-
Beryllium	0	0	0.6005	0		0.58937	0		-	-
Boron	0	0	0	0		0	0		-	-
Cadmium	0	40	2.6	0		41.6	104		-	70-130
Calcium	100000	100000	97655.8	97.66		97970.7	97.97		70-130	70-130
Chromium	0	80	1.79738	0		84.9	106.1		-	70-130
Cobalt	0	80	2.2	0		83	103.8		-	70-130
Copper	0	80	2.1	0		75.8	94.69		-	70-130
Iron	100000	100000	98772.5	98.77		99834.6	99.84		70-130	70-130
Lead	0	0	0	0		0	0		-	-
Lithium	0	0	0.76689	0		0.8159	0		-	-
Magnesium	100000	100000	97663.1	97.66		102878	102.9		70-130	70-130
Manganese	0	80	7.1	0		89.2	111.5		-	70-130
Molybdenum	2000	2000	2076.9	103.8		2079.8	104		70-130	70-130
Nickel	0	80	2.9	0		79.6	99.46		-	70-130
Potassium	100000	100000	90188.7	90.19		96146.8	96.15		70-130	70-130
Selenium	0	40	0	0		39.6	98.88		-	70-130
Silver	0	20	0	0		19.4	96.78		-	70-130
Sodium	100000	100000	98668.5	98.67		104082	104.1		70-130	70-130
Strontium	0	0	2.6	0		2.6	0		-	-
Thallium	0	0	0	0		0	0		-	-
Tin	0	0	0	0		0	0		-	-
Titanium	2000	2000	2077.9	103.9		2096	104.8		70-130	70-130
Vanadium	0	80	0	0		84.4	105.5		-	70-130
Zinc	0	40	4.06889	0		39	97.56		-	70-130

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Ext. method:

Total/Diss.: Dissolved Level:(low/med): LOW

Matrix Spike - Client SampleID: BA-01MS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	MS CONCENTRATION mg/L	C	MS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.00145	U	0.05396		53.96	N	75	125	P
Lead	0.1	0.000137	U	0.08715		87.15		75	125	P
Manganese	0.1	1.59		1.634		47.0		75	125	P
Nickel	0.1	0.0546		0.1314		76.8		75	125	P
Thallium	0.1	0.000147	U	0.08616		86.16		75	125	P

Matrix Spike - Client SampleID: BA-01MSD

Analyte	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	C	MSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.1	0.05466		54.66	N	1.29		20	75	125	P
Lead	0.1	0.09142		91.42		4.78		20	75	125	P
Manganese	0.1	1.743		156		6.46		20	75	125	P
Nickel	0.1	0.1374		82.8		4.46		20	75	125	P
Thallium	0.1	0.09094		90.94		5.40		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

POST DIGESTION SPIKE/POST DIGESTION SPIKE DUPLICATE

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Ext. method:

Total/Diss.: Dissolved Level:(low/med): LOW

Matrix Spike - Client SampleID: BA-01PDS

Analyte	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	C	PDS CONCENTRATION mg/L	PDS % REC	Q	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.00145	U	0.4266	85.31		75	125	P
Lead	0.5	0.000137	U	0.4562	91.24		75	125	P
Manganese	0.5	1.59		2.198	122		75	125	P
Nickel	0.5	0.0546		0.5088	90.8		75	125	P
Thallium	0.5	0.000147	U	0.4583	91.67		75	125	P

Analyte	SPIKE ADDED mg/L	PDSD CONCENTRATION mg/L	PDSD % REC	Q	% RPD	Q	QC LIMITS RPD	QC LIMITS LOW	QC LIMITS HIGH	M
Arsenic	0.5	0.4495	89.91		5.23		20	75	125	P
Lead	0.5	0.4775	95.49		4.56		20	75	125	P
Manganese	0.5	2.301	143	N	4.58		20	75	125	P
Nickel	0.5	0.5332	95.7		4.68		20	75	125	P
Thallium	0.5	0.4773	95.46		4.06		20	75	125	P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

LABORATORY CONTROL SAMPLE

LCS-87103

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF Total/Dissolved: Dissolved

Solid LCS Source:

Aqueous LCS Source:

Analyte	M	Aqueous (mg/L) True	Found	%R	Limits	Solid (mg/kg) True	Found	C	%R	Limits
Arsenic	P	0.1	0.09143	91.43	80 - 120					
Lead	P	0.1	0.09884	98.84	80 - 120					
Manganese	P	0.1	0.1016	101.6	80 - 120					
Nickel	P	0.1	0.09937	99.37	80 - 120					
Thallium	P	0.1	0.09885	98.85	80 - 120					

00296

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

ICP SERIAL DILUTIONS

	Client Sample ID
	BA-01SD

Lab Name:	SPL Inc.	Lab Sample ID:	10020428-20B
Lab Code:	SPLLAF	SDG:	10020428
Matrix:	Water	Concentration Units:	mg/L
Level:	LOW		
Total/Diss.:	Dissolved		

Analyte	Initial Sample Results (I)	C	Serial Dilution Results (S)	C	% Difference	Q	M
Lead	0.000137	U	0.0006865	U			P
Manganese	1.59		1.678		5.79		P
Nickel	0.0546		0.06267				P
Thallium	0.000147	U	0.000735	U			P

All percent recovery and RPD values for samples and QC samples were calculated using raw results prior to rounding and are correct as reported. Due to rounding and significant digits, percent recovery and RPD values calculated using displayed results might differ slightly from those reported.

METHOD DETECTION LIMITS

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Instrument ID Number: ICPMS Date: 11/21/2008

6020_D

Analyte	Wavelength (nm)	Background	PQL mg/L	MDL mg/L	M
Arsenic			0.0040	0.0014	P
Lead			0.0010	0.00014	P
Manganese			0.0020	0.000091	P
Nickel			0.0090	0.00068	P
Thallium			0.0020	0.00015	P

PREPARATION LOG

Lab Name: SPL Inc. SDG: 10020428

Lab Code: SPLLAF

Method: SW3005

Total/Diss.: Dissolved

Lab Sample ID	Client Sample ID	Preparation Date	Initial Weight (gram)	Initial Volume (ml)	Final Volume (ml)
10020428-20B	BA-01	2/12/10	0	100	100
10020428-20BMS	BA-01MS	2/12/10	0	100	100
10020428-20BMSD	BA-01MSD	2/12/10	0	100	100
10020428-27B	DW-01	2/12/10	0	100	100
LCS-87103	LCS-87103	2/12/10	0	100	100
MBLK-87103	MBLK-87103	2/12/10	0	100	100

ANALYSIS RUN LOG

Lab Name: SPL Inc.

SDG: 10020428

Lab Code: SPLLAF

Method: SW6020

Instrument ID: ICPMS

Total/Dissolved: Dissolved

Start Date: 2/16/2010 End Date: 2/16/2010

Lab Sample No.	Client Sample No.	DF	Time	% R	Analytes																														
					Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Hg	Ni	K	Se	Sn	Sr	Ag	Na	Ti	Tl	V	Zn
ICV	ICV	1	09:34				X	X		X		X				X		X			X		X			X			X		
ICB	ICB	1	09:45				X	X		X		X				X		X			X		X			X			X		
CCV	CCV	1	09:48				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	09:55				X	X		X		X				X		X			X		X			X			X		
ICSA	ICSA	1	09:59		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
ICSAB	ICSAB	1	10:02		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
MBLK-87103	MBLK-87103	1	10:33				X									X		X			X								X		
LCS-87103	LCS-87103	1	10:35				X									X		X			X								X		
10020428-20B	BA-01	1	10:39													X		X			X								X		
10020428-20BSD	BA-01SD	5	10:42				X									X		X			X								X		
10020428-20BMS	BA-01MS	1	10:45				X									X		X			X								X		
10020428-20BMSD	BA-01MSD	1	10:47				X									X		X			X								X		
10020428-20BPDS	BA-01PDS	5	10:50				X									X		X			X								X		
CCV	CCV	1	10:58				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	11:05				X	X		X		X				X		X			X		X			X			X		
10020428-20BPDSD	BA-01PDSD	5	11:08				X									X		X			X								X		
10020428-27B	DW-01	1	11:11				X									X		X			X								X		
CCV	CCV	1	11:30				X	X		X		X				X		X			X		X			X			X		
CCB	CCB	1	11:40				X	X		X		X				X		X			X		X			X			X		
ICSA	ICSA	1	12:11		X		X	X		X	X	X			X	X	X	X			X		X			X			X		
ICSAB	ICSAB	1	12:14		X		X	X		X	X	X			X	X	X	X			X		X			X			X		

00300

METALS RAW DATA

1002150930MS
2-15-10
RD

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

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Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
127	MBLK-87071 6020-W-ALL	4	Sample
128	LCS-87071	5	Sample
129	10020393-05A As, Ba, Cd, Cr, Pb, Se, Ag	6	Sample
130	10020393-05ASD	7	Sample
131	10020393-05AMS	8	Sample
132	10020393-05AMSD	9	Sample
133	10020393-05APDS	10	Sample
134	10020393-05APDSD	11	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
135	10020388-01E As, Ba, Cd, Cr, Pb, Mn, Ag Se Rep 1	12	Sample
136	10020388-02E	13	Sample
137	10020388-03E	14	Sample
138	10020388-04E Ba, Cd, Cr, Pb, Mn, Ag	15	Sample
139	10020388-05E As, Ba, Cd, Cr, Pb, Mn, Ag Se Rep 1	16	Sample
140	10020393-06A As, Ba, Cd Cr, Pb, Se, Ag	17	Sample
141	10020393-07A Ba, Cd, Cr, Pb, Ag	18	Sample
X5 142	10020388-04E N/R	19	Sample
X25 143	10020388-04E As, Se Rep 1	20	Sample
X5 144	10020393-07A As, Se	21	Sample
7	QC Std 4 ICPMS_100215A		QC Std
1	QC Std 5 ICPMS_100215B		QC Std
8	QC Std 6		QC Std
9	ICSA 2/16/10	22	Sample
10	ICSAB	23	Spike - 2 of 22

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Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
112	MBLK-87074 6020-D	21	Sample
113	LCS-87074	22	Sample
114	10020388-01F Mn	23	Sample
115	10020388-01FSD	24	Sample
116	10020388-01FMS	25	Sample
117	10020388-01FMSD	26	Sample
118	10020388-01FPDS	27	Sample
119	10020388-01FPDSD	28	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
120	10020388-02F	29	Sample
121	10020388-03F	30	Sample
122	10020388-04F	31	Sample
123	10020388-05F	32	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	33	Sample
10	ICSAB	34	Sample
301	MBLK-87101 6020-W-ALL	35	Sample
302	LCS-87101	36	Sample
303	10020427-02C As, Ba, Cd, Cr, Pb, Se, Ag	37	Sample
304	10020427-02CSD	38	Sample
305	10020427-02CMS	39	Sample
306	10020427-02CMSD	40	Sample
307	10020427-02CPDS	41	Sample
308	10020427-02CPDSD	42	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
309	10020427-01C	43	Sample
310	10020427-03C	44	Sample
311	10020427-04C	45	Sample
312	10020427-05C	46	Sample
313	10020427-06C	47	Sample
314	10020427-07C	48	Sample
315	10020461-01D As, Ba, Cd, Cr, Pb, Mn, Ag Se Repl	49	Sample
316	10020461-02D Ba, Cd, Cr, Pb, Mn, Ag Ø As, Se - needs dilution	50	Sample
317	10020461-03D As, Ba, Cd, Cr, Pb, Mn, Ag Se Repl	51	Sample
318	10020461-04D	52	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
			00304

9	ICSA	53	Sample
10	ICSAB	54	Sample
101	MBLK-87086 6020-S-ALL	55	Sample
102	LCS-87086	56	Sample
103	10020393-01A As, Ba, Cd, Cr, Pb, Se, Ag	57	Sample
104	10020393-01ASD	58	Sample
105	10020393-01AMS	59	Sample
106	10020393-01AMSD	60	Sample
107	10020393-01APDS	61	Sample
108	10020393-01APDSD	62	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
109	10020393-02A	63	Sample
110	10020393-03A	64	Sample
111	10020393-04A	65	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	66	Sample
10	ICSAB	67	Sample
201	MBLK-87095 6020-W-ALL	68	Sample
202	LCS-87095	69	Sample
203	10020428-08A As, Pb, Mn, Ni, TL	70	Sample
204	10020428-08ASD	71	Sample
205	10020428-08AMS	72	Sample
206	10020428-08AMSD	73	Sample
207	10020428-08APDS	74	Sample
208	10020428-08APDSD	75	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
209	10020428-01A	76	Sample
210	10020428-02A Mn, Ni Ø As, Pb, TL	77	Sample
211	10020428-03A As, Pb, Mn, Ni, TL	78	Sample
212	10020428-04A	79	Sample
213	10020428-05A	80	Sample
214	10020428-06A	81	Sample
215	10020428-07A	82	Sample
216	10020428-09A	83	Sample
217	10020428-10A	84	Sample
218	10020428-11A	85	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
219	10020428-12A	86	Sample
220	10020428-13A Mn, Ni Ø As, Pb, TL (D) Pb, TL	87	Sample
221	10020428-14A As, Pb, Mn, Ni, TL	88	Sample
222	10020428-15A	89	Sample
223	10020428-16A	90	Sample
224	10020428-17A	91	Sample
225	10020428-18A	92	Sample
226	10020428-20A Mn, Ni Ø As, Pb, TL	93	Sample
			00305

7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	94	Sample
10	ICSAB	95	Sample
227	MBLK-87096 6020_W_ALL	96	Sample
228	LCS-87096	97	Sample
229	10020428-19A As, Pb, Mn, Ni, TL	98	Sample
230	10020428-19ASD	99	Sample
231	10020428-19AMS	100	Sample
232	10020428-19AMSD	101	Sample
233	10020428-19APDS	102	Sample
234	10020428-19APDSD	103	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
235	10020428-21A Mn, Ni Ø As, Pb, TL	104	Sample
236	10020428-22A	105	Sample
237	10020428-23A	106	Sample
238	10020428-24A	107	Sample
239	10020428-25A	108	Sample
240	10020428-26A	109	Sample
241	10020428-27A	110	Sample
242	10020428-28A	111	Sample
243	10020428-29A	112	Sample
244	10020428-30A	113	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
245	10020428-31A	114	Sample
246	10020428-32A	115	Sample
247	10020428-33A	116	Sample
248	10020428-34A	117	Sample
249	10020428-35A	118	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	119	Sample
10	ICSAB	120	Sample

00306

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

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Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
127	MBLK-87071	4	Sample
128	LCS-87071	5	Sample
129	10020393-05A	6	Sample
130	10020393-05ASD	7	Sample
131	10020393-05AMS	8	Sample
132	10020393-05AMSD	9	Sample
133	10020393-05APDS	10	Sample
134	10020393-05APDSD	11	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
135	10020388-01E	12	Sample
136	10020388-02E	13	Sample
137	10020388-03E	14	Sample
138	10020388-04E	15	Sample
139	10020388-05E	16	Sample
140	10020393-06A	17	Sample
141	10020393-07A	18	Sample
142	10020388-04E	19	Sample
143	10020388-04E	20	Sample
144	10020393-07A	21	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	22	Sample
10	ICSAB	23	Spike - 2 of 22

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Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
112	MBLK-87074	21	Sample
113	LCS-87074	22	Sample
114	10020388-01F	23	Sample
115	10020388-01FSD	24	Sample
116	10020388-01FMS	25	Sample
117	10020388-01FMSD	26	Sample
118	10020388-01FPDS	27	Sample
119	10020388-01FPDSD	28	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
120	10020388-02F	29	Sample
121	10020388-03F	30	Sample
122	10020388-04F	31	Sample
123	10020388-05F	32	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	33	Sample
10	ICSAB	34	Sample
301	MBLK-87101	35	Sample
302	LCS-87101	36	Sample
303	10020427-02C	37	Sample
304	10020427-02CSD	38	Sample
305	10020427-02CMS	39	Sample
306	10020427-02CMSD	40	Sample
307	10020427-02CPDS	41	Sample
308	10020427-02CPDSD	42	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
309	10020427-01C	43	Sample
310	10020427-03C	44	Sample
311	10020427-04C	45	Sample
312	10020427-05C	46	Sample
313	10020427-06C	47	Sample
314	10020427-07C	48	Sample
315	10020461-01D	49	Sample
316	10020461-02D	50	Sample
317	10020461-03D	51	Sample
318	10020461-04D	52	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std

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9	ICSA	53	Sample
10	ICSAB	54	Sample
101	MBLK-87086	55	Sample
102	LCS-87086	56	Sample
103	10020393-01A	57	Sample
104	10020393-01ASD	58	Sample
105	10020393-01AMS	59	Sample
106	10020393-01AMSD	60	Sample
107	10020393-01APDS	61	Sample
108	10020393-01APDSD	62	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
109	10020393-02A	63	Sample
110	10020393-03A	64	Sample
111	10020393-04A	65	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	66	Sample
10	ICSAB	67	Sample
201	MBLK-87095	68	Sample
202	LCS-87095	69	Sample
203	10020428-08A	70	Sample
204	10020428-08ASD	71	Sample
205	10020428-08AMS	72	Sample
206	10020428-08AMSD	73	Sample
207	10020428-08APDS	74	Sample
208	10020428-08APDSD	75	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
209	10020428-01A	76	Sample
210	10020428-02A	77	Sample
211	10020428-03A	78	Sample
212	10020428-04A	79	Sample
213	10020428-05A	80	Sample
214	10020428-06A	81	Sample
215	10020428-07A	82	Sample
216	10020428-09A	83	Sample
217	10020428-10A	84	Sample
218	10020428-11A	85	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
219	10020428-12A	86	Sample
220	10020428-13A	87	Sample
221	10020428-14A	88	Sample
222	10020428-15A	89	Sample
223	10020428-16A	90	Sample
224	10020428-17A	91	Sample
225	10020428-18A	92	Sample
226	10020428-20A	93	Sample

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7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	94	Sample
10	ICSAB	95	Sample
227	MBLK-87096	96	Sample
228	LCS-87096	97	Sample
229	10020428-19A	98	Sample
230	10020428-19ASD	99	Sample
231	10020428-19AMS	100	Sample
232	10020428-19AMSD	101	Sample
233	10020428-19APDS	102	Sample
234	10020428-19APDSD	103	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
235	10020428-21A	104	Sample
236	10020428-22A	105	Sample
237	10020428-23A	106	Sample
238	10020428-24A	107	Sample
239	10020428-25A	108	Sample
240	10020428-26A	109	Sample
241	10020428-27A	110	Sample
242	10020428-28A	111	Sample
243	10020428-29A	112	Sample
244	10020428-30A	113	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
245	10020428-31A	114	Sample
246	10020428-32A	115	Sample
247	10020428-33A	116	Sample
248	10020428-34A	117	Sample
249	10020428-35A	118	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	119	Sample
10	ICSAB	120	Sample

00311

Instrument Tuning Report

File Name: default.tun
File Path: C:\elandata\Tuning\default.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.977	2034	2095	0.603	
C	12.000	11.979	2756	2105	0.600	
Mg	23.985	23.978	5661	2100	0.585	
Co	58.933	58.979	14157	2135	0.588	
In	114.904	114.878	27758	2215	0.605	
Ce	139.905	139.929	33843	2240	0.638	
Pb	207.977	207.978	50399	2340	0.635	
U	238.050	238.075	57709	2380	0.631	

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, February 15, 2010 09:24:27
Sample Description:
Method File: C:\Elandata\Method\Daily.mth
Dataset File: C:\Elandata\DataSet\Daily Performance\Sample.1475
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 65
Current Dead Time (ns): 65

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	3236.7	3236.681	49.088	1.5
	C	12.0	997641.5	997641.476	3800.700	0.4
	Mg	24.0	52696.2	52696.151	225.858	0.4
	Co	58.9	71501.2	71501.204	813.682	1.1
	In	114.9	188889.2	188889.178	780.629	0.4
	Pb	208.0	78052.1	78052.080	678.883	0.9
	U	238.1	162398.3	162398.310	695.978	0.4
⌈>	Ce	139.9	177697.2	177697.156	1633.971	0.9
⌊	CeO	155.9	1245.6	0.007	0.000	1.7
⌈>	Ba	137.9	150155.7	150155.705	1168.471	0.8
⌊	Ba++	69.0	1799.5	0.012	0.000	1.4
	220	220.0	0.4	0.433	0.190	43.9

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
9.00	Lens Voltage
1450.00	ICP RF Power
-1725.00	Analog Stage Voltage
900.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-17.00	Cell Rod Offset Std [CRO]
20.00	Discriminator Threshold
-9.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
1.00	DRC Mode NEB
-6.00	DRC Mode QRO
-1.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A
0.00	Cell Gas B

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	36	6.0	10489.9
Co	59	36	6.8	85833.8

In	115	36	8.8	187973.0

Quantitative Analysis - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Monday, February 15, 2010 11:49:34
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\Cal Blank.001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26737.081					ug/L
|	Li	7	3061.277					ug/L
|	Be	9	8.000					ug/L
|	B	11	507.350					ug/L
|	Na	23	12142.989					ug/L
|	Mg	24	166.670					ug/L
|	Al	27	768.372					ug/L
|	K	39	58790.498					ug/L
|	Ca	43	182.669					ug/L
| >	Sc	45	357505.758					ug/L
|	Ti	49	486.015					ug/L
|	Co	59	26.667					ug/L
|	Ni	60	16.000					ug/L
|	Ni	62	33.333					ug/L
|	Cu	63	76.000					ug/L
|	Cu	65	40.000					ug/L
|	Zn	66	112.001					ug/L
|	Zn	67	1368.122					ug/L
|	Zn	68	161.335					ug/L
|	V	51	-105.147					ug/L
|	Cr	52	3426.096					ug/L
|	Cr	53	15740.104					ug/L
|	Mn	55	206.003					ug/L
|	Fe	54	12418.136					ug/L
⌊	Fe	57	639.360					ug/L
⌈	As	75	-180.908					ug/L
|	Se	77	1642.842					ug/L
|	Se	82	1.172					ug/L
|	Sr	88	79.334					ug/L
| >	Y	89	444767.052					ug/L
|	Mo	95	11.333					ug/L
|	Mo	97	9.333					ug/L
⌊	Mo	98	23.854					ug/L
⌈	Ag	107	4.667					ug/L
|	Ag	109	2.667					ug/L
|	Cd	111	2.000					ug/L
|	Cd	114	-2.668					ug/L

>	In	115	189806.605	ug/L
	Sn	120	617.307	ug/L
	Sb	121	556.687	ug/L
	Sb	123	468.178	ug/L
	Ba	135	10.000	ug/L
	Ba	137	14.000	ug/L
	Tb	159	179486.025	ug/L
>	Ho	165	188960.538	ug/L
	Tl	203	6.667	ug/L
	Tl	205	3.333	ug/L
	Pb	208	30.000	ug/L
	Kr	83	20.533	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 1
Sample Date/Time: Monday, February 15, 2010 11:52:14
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\Std 1.002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27406.895	0.004				ug/L
|	Li	7	4063.073	0.003				ug/L
|	Be	9	268.005	0.001				ug/L
|	B	11	770.705	0.001				ug/L
|	Na	23	20895.029	0.026				ug/L
|	Mg	24	5235.150	0.015				ug/L
|	Al	27	17306.116	0.048				ug/L
|	K	39	78162.612	0.060				ug/L
|	Ca	43	245.337	0.000				ug/L
| >	Sc	45	348185.227	348185.227				ug/L
|	Ti	49	636.693	0.000				ug/L
|	Co	59	2098.953	0.006				ug/L
|	Ni	60	398.677	0.001				ug/L
|	Ni	62	70.667	0.000				ug/L
|	Cu	63	1039.404	0.003				ug/L
|	Cu	65	462.681	0.001				ug/L
|	Zn	66	465.347	0.001				ug/L
|	Zn	67	1593.499	0.001				ug/L
|	Zn	68	386.677	0.001				ug/L
|	V	51	1966.617	0.006				ug/L
|	Cr	52	5274.476	0.006				ug/L
|	Cr	53	16743.546	0.004				ug/L
|	Mn	55	3268.028	0.009				ug/L
|	Fe	54	13321.577	0.004				ug/L
⌊	Fe	57	1170.756	0.002				ug/L
⌈	As	75	-19.751	0.000				ug/L
|	Se	77	1796.210	0.000				ug/L
|	Se	82	152.983	0.000				ug/L
|	Sr	88	4197.813	0.009				ug/L
| >	Y	89	433794.483	433794.483				ug/L
|	Mo	95	522.685	0.001				ug/L
|	Mo	97	295.339	0.001				ug/L
⌊	Mo	98	798.489	0.002				ug/L
⌈	Ag	107	1328.115	0.007				ug/L
|	Ag	109	1252.102	0.007				ug/L
|	Cd	111	331.674	0.002				ug/L
|	Cd	114	769.431	0.004				ug/L

|>	In	115	183475.301	183475.301	ug/L
|	Sn	120	2006.194	0.008	ug/L
|	Sb	121	1292.109	0.004	ug/L
_	Sb	123	1002.728	0.003	ug/L
⌈	Ba	135	240.004	0.001	ug/L
|	Ba	137	423.345	0.002	ug/L
|	Tb	159	175671.235	0.004	ug/L
|>	Ho	165	184228.426	184228.426	ug/L
|	Tl	203	785.373	0.004	ug/L
|	Tl	205	1898.901	0.010	ug/L
_	Pb	208	2698.186	0.014	ug/L
	Kr	83	19.400	-1.133	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 2
Sample Date/Time: Monday, February 15, 2010 11:54:55
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\Std 2.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27354.816	0.004				ug/L
|	Li	7	8067.562	0.015	**5.000000**	0.11	2.1	ug/L
|	Be	9	1142.752	0.003	**5.000000**	0.61	12.2	ug/L
|	B	11	1937.578	0.004	**5.000000**	0.51	10.3	ug/L
|	Na	23	41679.479	0.085	**50.000000**	2.13	4.3	ug/L
|	Mg	24	22131.815	0.063	**50.000000**	3.11	6.2	ug/L
|	Al	27	77234.267	0.219	**55.000000**	0.46	0.8	ug/L
|	K	39	137792.684	0.230	**50.000000**	4.86	9.7	ug/L
|	Ca	43	392.010	0.001	**50.000000**	13.05	26.1	ug/L
\>	Sc	45	349322.253	349322.253				ug/L
|	Ti	49	1142.085	0.002	**5.000000**	0.31	6.2	ug/L
|	Co	59	9423.105	0.027	**5.000000**	0.30	6.0	ug/L
|	Ni	60	1810.214	0.005	**5.000000**	0.48	9.5	ug/L
|	Ni	62	320.007	0.001	**5.000000**	0.83	16.6	ug/L
|	Cu	63	4489.310	0.013	**5.000000**	0.24	4.8	ug/L
|	Cu	65	2122.960	0.006	**5.000000**	0.06	1.1	ug/L
|	Zn	66	1445.470	0.004	**5.000000**	0.34	6.9	ug/L
|	Zn	67	1769.537	0.001	**5.000000**	1.34	26.8	ug/L
|	Zn	68	1070.741	0.003	**5.000000**	0.34	6.8	ug/L
|	V	51	9918.754	0.029	**5.000000**	0.69	13.7	ug/L
|	Cr	52	11626.114	0.024	**5.000000**	0.30	6.0	ug/L
|	Cr	53	17690.323	0.007	**5.000000**	1.67	33.5	ug/L
|	Mn	55	14072.197	0.040	**5.000000**	0.25	5.0	ug/L
|	Fe	54	18819.646	0.019	**50.000000**	5.51	11.0	ug/L
⌊	Fe	57	3410.089	0.008	**50.000000**	2.75	5.5	ug/L
⌈	As	75	1108.107	0.003	**5.000000**	0.63	12.7	ug/L
|	Se	77	2215.653	0.001	**25.000000**	2.28	9.1	ug/L
|	Se	82	707.157	0.002	**25.000000**	0.35	1.4	ug/L
|	Sr	88	18982.066	0.044	**5.000000**	0.15	3.1	ug/L
\>	Y	89	430880.413	430880.413				ug/L
|	Mo	95	2397.707	0.006	**5.000000**	0.11	2.1	ug/L
|	Mo	97	1477.475	0.003	**5.000000**	0.11	2.2	ug/L
⌊	Mo	98	3691.407	0.009	**5.000000**	0.24	4.8	ug/L
⌈	Ag	107	6367.970	0.035	**5.000000**	0.13	2.7	ug/L
|	Ag	109	5987.663	0.033	**5.000000**	0.13	2.7	ug/L
|	Cd	111	1531.319	0.008	**5.000000**	0.18	3.7	ug/L
|	Cd	114	3347.543	0.018	**5.000000**	0.18	3.6	ug/L

|>	In	115	181925.562	181925.562				ug/L
|	Sn	120	6302.531	0.031	**5.000000**	0.15	2.9	ug/L
|	Sb	121	4573.360	0.022	**5.000000**	0.16	3.3	ug/L
L	Sb	123	3541.645	0.017	**5.000000**	0.08	1.7	ug/L
⌈	Ba	135	1122.749	0.006	**5.000000**	0.23	4.5	ug/L
|	Ba	137	1920.240	0.010	**5.000000**	0.19	3.9	ug/L
|	Tb	159	175769.537	0.003				ug/L
|>	Ho	165	184555.161	184555.161				ug/L
|	Tl	203	3704.226	0.020	**5.000000**	0.24	4.8	ug/L
|	Tl	205	8766.994	0.047	**5.000000**	0.03	0.5	ug/L
L	Pb	208	12109.027	0.065	**5.000000**	0.04	0.9	ug/L
	Kr	83	18.333	-2.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 3
Sample Date/Time: Monday, February 15, 2010 11:57:35
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\Std 3.004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25568.027	-0.002				ug/L
|	Li	7	51690.537	0.138	**49.993101**	1.88	3.8	ug/L
|	Be	9	11455.864	0.032	**50.005298**	2.02	4.0	ug/L
|	B	11	14921.126	0.041	**49.996344**	0.82	1.6	ug/L
|	Na	23	75570.697	0.180	**101.581675**	9.61	9.5	ug/L
|	Mg	24	47412.590	0.134	**101.023615**	5.24	5.2	ug/L
|	Al	27	212986.478	0.601	**150.192975**	5.02	3.3	ug/L
|	K	39	205310.700	0.417	**99.162092**	9.92	10.0	ug/L
|	Ca	43	745.370	0.002	**103.860529**	7.77	7.5	ug/L
| >	Sc	45	353110.624	353110.624				ug/L
|	Ti	49	6688.242	0.018	**49.994268**	1.56	3.1	ug/L
|	Co	59	91155.634	0.258	**49.996627**	0.80	1.6	ug/L
|	Ni	60	18020.430	0.051	**50.001202**	1.76	3.5	ug/L
|	Ni	62	2640.455	0.007	**49.965110**	4.18	8.4	ug/L
|	Cu	63	43412.161	0.123	**49.998475**	0.62	1.2	ug/L
|	Cu	65	20452.490	0.058	**49.995112**	0.86	1.7	ug/L
|	Zn	66	13334.218	0.037	**50.010214**	1.48	3.0	ug/L
|	Zn	67	3772.926	0.007	**50.005329**	4.43	8.9	ug/L
|	Zn	68	9536.575	0.027	**50.013103**	0.63	1.3	ug/L
|	V	51	94159.527	0.267	**49.987672**	0.23	0.5	ug/L
|	Cr	52	83684.749	0.227	**49.999513**	0.47	0.9	ug/L
|	Cr	53	26653.432	0.031	**49.973587**	1.73	3.5	ug/L
|	Mn	55	137603.916	0.389	**50.000636**	0.68	1.4	ug/L
|	Fe	54	25921.827	0.039	**99.980570**	4.18	4.2	ug/L
⌊	Fe	57	6283.899	0.016	**100.016771**	1.74	1.7	ug/L
⌈	As	75	14037.942	0.033	**50.002204**	1.85	3.7	ug/L
|	Se	77	6944.467	0.012	**249.975597**	9.64	3.9	ug/L
|	Se	82	6994.110	0.016	**250.001284**	7.95	3.2	ug/L
|	Sr	88	187574.142	0.433	**50.001080**	1.52	3.0	ug/L
| >	Y	89	432906.417	432906.417				ug/L
|	Mo	95	22860.603	0.053	**49.993812**	0.70	1.4	ug/L
|	Mo	97	13997.396	0.032	**49.988853**	1.74	3.5	ug/L
⌊	Mo	98	35639.438	0.082	**49.995762**	0.97	1.9	ug/L
⌈	Ag	107	63082.287	0.347	**49.999662**	0.53	1.1	ug/L
|	Ag	109	59163.348	0.325	**49.999338**	1.09	2.2	ug/L
|	Cd	111	14813.919	0.081	**49.996979**	0.96	1.9	ug/L
|	Cd	114	33454.180	0.184	**50.005509**	0.76	1.5	ug/L

|>	In	115	181957.355	181957.355				ug/L
|	Sn	120	58219.431	0.317	**50.010629**	0.65	1.3	ug/L
|	Sb	121	41985.611	0.228	**50.001569**	0.34	0.7	ug/L
L	Sb	123	31959.017	0.173	**49.998609**	0.27	0.5	ug/L
⌈	Ba	135	10904.392	0.058	**49.995266**	0.57	1.1	ug/L
|	Ba	137	18966.689	0.101	**49.999574**	0.79	1.6	ug/L
|	Tb	159	178948.390	0.007				ug/L
|>	Ho	165	187008.646	187008.646				ug/L
|	Tl	203	36231.129	0.194	**49.996076**	0.80	1.6	ug/L
|	Tl	205	87912.176	0.470	**50.001618**	0.26	0.5	ug/L
L	Pb	208	119050.847	0.636	**49.999327**	0.55	1.1	ug/L
	Kr	83	19.467	-1.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 4
Sample Date/Time: Monday, February 15, 2010 12:00:16
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\Std 4.005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23543.301	-0.007				ug/L
|	Li	7	101070.535	0.284	**100.565677**	3.24	3.2	ug/L
|	Be	9	22865.957	0.066	**100.382957**	2.80	2.8	ug/L
|	B	11	28997.928	0.083	**100.197894**	2.73	2.7	ug/L
|	Na	23	632173.833	1.799	**1000.186155**	47.57	4.8	ug/L
|	Mg	24	450419.667	1.305	**999.920285**	33.75	3.4	ug/L
|	Al	27	1568784.803	4.546	**1100.355614**	32.15	2.9	ug/L
|	K	39	1511365.744	4.217	**1000.251933**	54.60	5.5	ug/L
|	Ca	43	5321.840	0.015	**999.744133**	6.81	0.7	ug/L
| >	Sc	45	345019.890	345019.890				ug/L
|	Ti	49	12677.776	0.035	**100.178756**	2.18	2.2	ug/L
|	Co	59	183728.584	0.533	**100.561836**	2.19	2.2	ug/L
|	Ni	60	35828.598	0.104	**100.314096**	2.04	2.0	ug/L
|	Ni	62	5327.178	0.015	**100.660241**	2.23	2.2	ug/L
|	Cu	63	86329.820	0.250	**100.338809**	1.68	1.7	ug/L
|	Cu	65	40435.362	0.117	**100.232986**	2.13	2.1	ug/L
|	Zn	66	25688.162	0.074	**99.872722**	2.50	2.5	ug/L
|	Zn	67	5955.639	0.013	**100.458039**	4.45	4.4	ug/L
|	Zn	68	18700.036	0.054	**100.226807**	1.11	1.1	ug/L
|	V	51	189888.394	0.551	**100.567641**	2.03	2.0	ug/L
|	Cr	52	164125.907	0.466	**100.460074**	2.01	2.0	ug/L
|	Cr	53	35553.307	0.059	**99.921730**	1.91	1.9	ug/L
|	Mn	55	275239.745	0.797	**100.433244**	1.49	1.5	ug/L
|	Fe	54	148289.203	0.395	**1000.056557**	20.20	2.0	ug/L
⌊	Fe	57	56375.160	0.162	**1000.035534**	10.66	1.1	ug/L
⌈	As	75	28415.535	0.065	**99.861042**	2.72	2.7	ug/L
|	Se	77	12303.165	0.024	**499.966825**	10.22	2.0	ug/L
|	Se	82	13960.802	0.032	**499.129168**	12.35	2.5	ug/L
|	Sr	88	370966.211	0.850	**99.667868**	2.88	2.9	ug/L
| >	Y	89	436680.315	436680.315				ug/L
|	Mo	95	45763.079	0.105	**99.903920**	2.68	2.7	ug/L
|	Mo	97	27879.118	0.064	**99.803429**	3.59	3.6	ug/L
⌊	Mo	98	71233.001	0.163	**99.867574**	3.19	3.2	ug/L
⌈	Ag	107	124271.130	0.686	**99.833636**	0.77	0.8	ug/L
|	Ag	109	117575.252	0.649	**99.985764**	1.89	1.9	ug/L
|	Cd	111	29126.213	0.161	**99.814595**	1.69	1.7	ug/L
|	Cd	114	65335.056	0.361	**99.688371**	1.58	1.6	ug/L

|>	In	115	181029.958	181029.958				ug/L
|	Sn	120	115619.770	0.635	**100.072683**	1.35	1.3	ug/L
|	Sb	121	83794.708	0.460	**100.141714**	2.11	2.1	ug/L
|	Sb	123	63043.201	0.346	**99.951734**	2.36	2.4	ug/L
|	Ba	135	21416.453	0.115	**99.843186**	3.58	3.6	ug/L
|	Ba	137	37404.074	0.201	**99.905803**	2.65	2.7	ug/L
|	Tb	159	175991.931	-0.002				ug/L
|>	Ho	165	185675.636	185675.636				ug/L
|	Tl	203	71695.432	0.386	**99.965679**	3.70	3.7	ug/L
|	Tl	205	174453.739	0.940	**100.005186**	2.60	2.6	ug/L
|	Pb	208	237731.999	1.280	**100.126314**	2.60	2.6	ug/L
	Kr	83	20.533	0.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 5
Sample Date/Time: Monday, February 15, 2010 12:02:56
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\Std 5.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19207.730	-0.018				ug/L
|	Li	7	202469.983	0.589	**201.461565**	8.86	4.4	ug/L
|	Be	9	46949.588	0.139	**201.754527**	6.45	3.2	ug/L
|	B	11	59510.822	0.174	**201.997097**	7.18	3.6	ug/L
|	Na	23	6251178.260	18.411	**10001.695226**	349.69	3.5	ug/L
|	Mg	24	4505737.756	13.295	**10001.336314**	420.76	4.2	ug/L
|	Al	27	14933093.384	44.058	**10203.493346**	147.41	1.4	ug/L
|	K	39	14187598.929	41.702	**9999.394149**	639.67	6.4	ug/L
|	Ca	43	50098.650	0.147	**9999.118705**	199.21	2.0	ug/L
| >	Sc	45	338944.225	338944.225				ug/L
|	Ti	49	24599.945	0.071	**200.362483**	3.96	2.0	ug/L
|	Co	59	355741.054	1.050	**199.620039**	6.14	3.1	ug/L
|	Ni	60	68885.874	0.203	**199.270308**	5.67	2.8	ug/L
|	Ni	62	10536.547	0.031	**200.550665**	4.73	2.4	ug/L
|	Cu	63	164931.647	0.486	**199.056063**	6.25	3.1	ug/L
|	Cu	65	78097.244	0.230	**199.443219**	4.92	2.5	ug/L
|	Zn	66	50395.346	0.148	**200.037516**	7.68	3.8	ug/L
|	Zn	67	9361.694	0.024	**196.124926**	3.86	2.0	ug/L
|	Zn	68	35977.308	0.106	**199.430295**	6.04	3.0	ug/L
|	V	51	372025.399	1.098	**200.064955**	1.21	0.6	ug/L
|	Cr	52	315500.467	0.921	**199.703045**	2.26	1.1	ug/L
|	Cr	53	51317.279	0.107	**197.427178**	3.63	1.8	ug/L
|	Mn	55	539167.398	1.590	**200.028962**	3.77	1.9	ug/L
|	Fe	54	1351644.401	3.953	**9999.936904**	77.98	0.8	ug/L
⌊	Fe	57	546768.807	1.611	**9999.753898**	242.65	2.4	ug/L
⌈	As	75	55494.842	0.131	**200.011535**	4.63	2.3	ug/L
|	Se	77	22145.165	0.049	**999.441399**	30.37	3.0	ug/L
|	Se	82	27615.922	0.065	**1003.574399**	28.02	2.8	ug/L
|	Sr	88	745857.175	1.761	**201.277067**	4.17	2.1	ug/L
| >	Y	89	423576.994	423576.994				ug/L
|	Mo	95	91374.189	0.216	**201.102590**	5.20	2.6	ug/L
|	Mo	97	56254.290	0.133	**201.455855**	4.47	2.2	ug/L
⌊	Mo	98	143439.609	0.339	**201.402193**	7.40	3.7	ug/L
⌈	Ag	107	245165.628	1.392	**200.491809**	7.29	3.6	ug/L
|	Ag	109	231342.503	1.314	**200.431282**	7.35	3.7	ug/L
|	Cd	111	57810.627	0.328	**200.733889**	7.52	3.7	ug/L
|	Cd	114	131236.086	0.745	**201.127163**	4.75	2.4	ug/L

|>	In	115	176196.014	176196.014				ug/L
|	Sn	120	230355.675	1.305	**201.016240**	4.90	2.4	ug/L
|	Sb	121	163983.902	0.928	**200.353643**	7.90	3.9	ug/L
\L	Sb	123	125781.455	0.712	**201.039284**	6.46	3.2	ug/L
\Γ	Ba	135	44205.997	0.241	**201.578997**	2.51	1.2	ug/L
|	Ba	137	75777.467	0.413	**200.902427**	4.20	2.1	ug/L
|	Tb	159	173327.259	-0.006				ug/L
|>	Ho	165	183623.909	183623.909				ug/L
|	Tl	203	142641.738	0.777	**200.237704**	2.59	1.3	ug/L
|	Tl	205	345420.706	1.881	**200.054186**	2.90	1.5	ug/L
\L	Pb	208	469227.449	2.555	**199.978365**	1.44	0.7	ug/L
	Kr	83	22.667	2.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

File Name: 02-15.cal
File Path: C:\Elandata\System\02-15.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Simple Linear	0.000000000	0.000000000	0.000000
Li	7.016	Simple Linear	0.002941075	-0.003647554	0.999761
Be	9.012	Simple Linear	0.000691421	-0.000992701	0.999687
B	11.009	Simple Linear	0.000868946	-0.001358801	0.999609
Na	22.990	Simple Linear	0.001841900	-0.010805727	0.999997
Mg	23.985	Simple Linear	0.001329920	-0.006112101	0.999998
Al	26.982	Simple Linear	0.004324330	-0.065621098	0.999990
K	38.964	Simple Linear	0.004168328	0.021716205	1.000000
Ca	42.959	Simple Linear	0.000014726	0.000056119	0.999998
Sc	44.956	Simple Linear	0.000000000	0.000000000	0.000000
Ti	48.948	Simple Linear	0.000355435	0.000006797	0.999984
Co	58.933	Simple Linear	0.005255843	0.000391168	0.999952
Ni	59.933	Simple Linear	0.001017816	0.000380991	0.999937
Ni	61.928	Simple Linear	0.000155104	-0.000111631	0.999920
Cu	62.930	Simple Linear	0.002436388	0.001447222	0.999901
Cu	64.928	Simple Linear	0.001152747	0.000403191	0.999964
Zn	65.926	Simple Linear	0.000740578	0.000237329	0.999998
Zn	66.927	Simple Linear	0.000116690	0.000907286	0.998519
Zn	67.925	Simple Linear	0.000529092	0.000186440	0.999962
V	50.944	Simple Linear	0.005492812	-0.001040156	0.999965
Cr	51.941	Simple Linear	0.004610326	0.000573644	0.999969
Cr	52.941	Simple Linear	0.000520266	0.004667394	0.999354
Mn	54.938	Simple Linear	0.007957730	-0.001561050	0.999980
Fe	53.940	Simple Linear	0.000395368	-0.000537579	1.000000
Fe	56.935	Simple Linear	0.000161145	0.000053762	1.000000
As	74.922	Simple Linear	0.000658577	-0.000262814	0.999998
Se	76.920	Simple Linear	0.000048396	0.000239968	0.999999
Se	81.917	Simple Linear	0.000065092	-0.000103871	0.999947
Sr	87.906	Simple Linear	0.008776519	-0.005427713	0.999831
Y	88.905	Simple Linear	0.000000000	0.000000000	0.000000
Mo	94.906	Simple Linear	0.001075872	-0.000589144	0.999881
Mo	96.906	Simple Linear	0.000661885	-0.000514739	0.999790
Mo	97.906	Simple Linear	0.001688677	-0.001341594	0.999807
Ag	106.905	Simple Linear	0.006950317	-0.001375924	0.999974
Ag	108.905	Simple Linear	0.006562104	-0.001618478	0.999982
Cd	110.904	Simple Linear	0.001637496	-0.000435519	0.999944
Cd	113.904	Simple Linear	0.003714235	-0.001946610	0.999867
In	114.904	Simple Linear	0.000000000	0.000000000	0.000000
Sn	119.902	Simple Linear	0.006512217	-0.004507829	0.999899
Sb	120.904	Simple Linear	0.004643963	-0.002179653	0.999986
Sb	122.904	Simple Linear	0.003554901	-0.002977972	0.999895
Ba	134.906	Simple Linear	0.001199504	-0.001093054	0.999756
Ba	136.905	Simple Linear	0.002058972	-0.001007523	0.999920
Tb	158.925	Simple Linear	0.000000000	0.000000000	0.000000
Ho	164.930	Simple Linear	0.000000000	0.000000000	0.000000
Tl	202.972	Simple Linear	0.003879771	-0.000040584	0.999994
Tl	204.975	Simple Linear	0.009402132	0.000334501	1.000000
Pb	207.977	Simple Linear	0.012773091	0.000974111	0.999998

Kr	82.914	Simple Linear	0.000000000	0.000000000	0.000000

Quantitative Analysis - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Monday, February 15, 2010 12:05:37
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 1.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24620.863	-0.003				ug/L
|	Li	7	100680.191	0.283	**97.505896**	6.39	6.6	ug/L
|	Be	9	23025.748	0.067	**97.848637**	3.07	3.1	ug/L
|	B	11	29871.228	0.085	**99.486755**	3.14	3.2	ug/L
|	Na	23	3162085.967	9.121	**4957.777571**	86.46	1.7	ug/L
|	Mg	24	2294597.763	6.644	**5000.687203**	127.14	2.5	ug/L
|	Al	27	7496317.066	21.709	**5035.360632**	194.52	3.9	ug/L
|	K	39	7498786.174	21.552	**5165.105473**	179.29	3.5	ug/L
|	Ca	43	25488.833	0.073	**4974.188162**	159.06	3.2	ug/L
| >	Sc	45	345428.231	345428.231				ug/L
|	Ti	49	12568.927	0.035	**98.559782**	2.58	2.6	ug/L
|	Co	59	177503.783	0.514	**97.719230**	3.35	3.4	ug/L
|	Ni	60	34925.123	0.101	**98.961038**	3.55	3.6	ug/L
|	Ni	62	5293.822	0.015	**98.958973**	3.81	3.8	ug/L
|	Cu	63	83329.644	0.241	**98.370968**	3.17	3.2	ug/L
|	Cu	65	39432.868	0.114	**98.624945**	4.15	4.2	ug/L
|	Zn	66	25332.312	0.073	**98.298362**	1.43	1.5	ug/L
|	Zn	67	5740.815	0.013	**101.916181**	10.89	10.7	ug/L
|	Zn	68	18006.398	0.052	**97.355618**	4.28	4.4	ug/L
|	V	51	187150.403	0.542	**98.905813**	2.24	2.3	ug/L
|	Cr	52	159907.826	0.454	**98.245328**	3.06	3.1	ug/L
|	Cr	53	33352.828	0.053	**92.052055**	5.49	6.0	ug/L
|	Mn	55	266164.974	0.770	**97.005534**	4.49	4.6	ug/L
|	Fe	54	679251.430	1.933	**4889.329372**	186.29	3.8	ug/L
⌞	Fe	57	268802.733	0.777	**4819.478821**	177.03	3.7	ug/L
⌜	As	75	28153.157	0.066	**100.275405**	2.07	2.1	ug/L
|	Se	77	11928.578	0.024	**491.199589**	20.96	4.3	ug/L
|	Se	82	13882.457	0.032	**496.819690**	11.18	2.3	ug/L
|	Sr	88	371851.833	0.863	**99.000166**	3.48	3.5	ug/L
| >	Y	89	430691.765	430691.765				ug/L
|	Mo	95	45929.437	0.107	**99.679842**	3.84	3.9	ug/L
|	Mo	97	28131.367	0.065	**99.461831**	3.71	3.7	ug/L
⌞	Mo	98	71621.447	0.166	**99.275555**	4.27	4.3	ug/L
⌜	Ag	107	121165.079	0.683	**98.488426**	2.45	2.5	ug/L
|	Ag	109	114972.283	0.648	**99.029905**	1.72	1.7	ug/L
|	Cd	111	28960.095	0.163	**99.977052**	2.45	2.4	ug/L
|	Cd	114	65272.053	0.368	**99.612823**	2.35	2.4	ug/L

|>	In	115	177367.632	177367.632				ug/L
|	Sn	120	114386.223	0.642	**99.227411**	1.52	1.5	ug/L
|	Sb	121	83277.704	0.467	**100.943205**	0.92	0.9	ug/L
L	Sb	123	63187.303	0.354	**100.360738**	1.14	1.1	ug/L
⌈	Ba	135	21238.619	0.116	**97.808737**	3.08	3.1	ug/L
|	Ba	137	36560.720	0.200	**97.679136**	3.95	4.0	ug/L
|	Tb	159	173114.351	-0.002				ug/L
|>	Ho	165	182705.318	182705.318				ug/L
|	Tl	203	71216.851	0.390	**100.497899**	2.81	2.8	ug/L
|	Tl	205	172128.075	0.942	**100.188695**	2.62	2.6	ug/L
L	Pb	208	230652.544	1.263	**98.766550**	2.24	2.3	ug/L
	Kr	83	21.267	0.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	97.506		
Be	9	97.849		
B	11	99.487		
Na	23	99.156		
Mg	24	100.014		
Al	27	98.733		
K	39	103.302		
Ca	43	99.484		
Sc	45		96.622	
Ti	49	98.560		
Co	59	97.719		
Ni	60	98.961		
Ni	62	98.959		
Cu	63	98.371		
Cu	65	98.625		
Zn	66	98.298		
Zn	67	101.916		
Zn	68	97.356		
V	51	98.906		
Cr	52	98.245		
Cr	53	92.052		
Mn	55	97.006		
Fe	54	97.787		
Fe	57	96.390		
As	75	100.275		
Se	77	98.240		
Se	82	99.364		
Sr	88	99.000		
Y	89		96.835	
Mo	95	99.680		
Mo	97	99.462		
Mo	98	99.276		
Ag	107	98.488		
Ag	109	99.030		
Cd	111	99.977		
Cd	114	99.613		
In	115		93.447	
Sn	120	99.227		
Sb	121	100.943		

Sb	123	100.361	
Ba	135	97.809	
Ba	137	97.679	
Tb	159		
Ho	165		96.690
Tl	203	100.498	
Tl	205	100.189	
Pb	208	98.767	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Monday, February 15, 2010 12:13:03
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 2.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28478.271	0.007				ug/L
|	Li	7	5207.764	0.006	**3.443349**	0.18	5.2	ug/L
|	Be	9	476.015	0.001	**3.391697**	0.11	3.1	ug/L
|	B	11	6677.568	0.018	**22.122192**	0.72	3.3	ug/L
|	Na	23	76950.157	0.188	**108.137272**	6.29	5.8	ug/L
|	Mg	24	22365.807	0.064	**52.823948**	0.64	1.2	ug/L
|	Al	27	73741.930	0.211	**63.978106**	2.76	4.3	ug/L
|	K	39	171695.415	0.332	**74.402558**	5.69	7.6	ug/L
|	Ca	43	1233.433	0.003	**204.002440**	31.48	15.4	ug/L
| >	Sc	45	346280.276	346280.276				ug/L
|	Ti	49	1102.079	0.002	**5.123965**	0.70	13.7	ug/L
|	Co	59	3682.214	0.011	**1.935875**	0.07	3.4	ug/L
|	Ni	60	790.707	0.002	**1.824721**	0.06	3.4	ug/L
|	Ni	62	153.335	0.000	**2.971312**	0.21	7.0	ug/L
|	Cu	63	1904.236	0.005	**1.576814**	0.06	3.7	ug/L
|	Cu	65	900.053	0.002	**1.807910**	0.00	0.1	ug/L
|	Zn	66	1736.196	0.005	**6.029741**	0.24	3.9	ug/L
|	Zn	67	1754.867	0.001	**2.878254**	1.02	35.4	ug/L
|	Zn	68	1414.797	0.004	**6.512451**	0.22	3.4	ug/L
|	V	51	18658.892	0.054	**10.057273**	0.25	2.5	ug/L
|	Cr	52	9937.749	0.019	**4.026958**	0.26	6.5	ug/L
|	Cr	53	16801.000	0.005	**-0.243745**	4.80	1971.2	ug/L
|	Mn	55	5946.298	0.017	**2.283408**	0.09	4.0	ug/L
|	Fe	54	25386.257	0.039	**99.095698**	8.62	8.7	ug/L
⌊	Fe	57	6125.773	0.016	**98.478676**	6.64	6.7	ug/L
⌈	As	75	675.969	0.002	**3.413503**	0.27	8.0	ug/L
|	Se	77	1676.850	0.000	**-0.421563**	2.70	639.8	ug/L
|	Se	82	149.997	0.000	**6.929908**	0.27	3.9	ug/L
|	Sr	88	3880.312	0.009	**1.630132**	0.02	1.1	ug/L
| >	Y	89	428496.963	428496.963				ug/L
|	Mo	95	960.727	0.002	**2.607020**	0.07	2.7	ug/L
|	Mo	97	552.020	0.001	**2.692275**	0.02	0.6	ug/L
⌊	Mo	98	1479.923	0.003	**2.808168**	0.07	2.7	ug/L
⌈	Ag	107	1274.106	0.007	**1.225291**	0.05	3.9	ug/L
|	Ag	109	1234.766	0.007	**1.302343**	0.04	3.1	ug/L
|	Cd	111	599.190	0.003	**2.317358**	0.06	2.4	ug/L
|	Cd	114	1340.099	0.008	**2.557067**	0.08	3.2	ug/L

|>	In	115	177843.003	177843.003				ug/L
|	Sn	120	5802.831	0.029	**5.203977**	0.20	3.9	ug/L
|	Sb	121	5234.448	0.027	**6.176927**	0.23	3.7	ug/L
|	Sb	123	3980.780	0.020	**6.441406**	0.33	5.1	ug/L
|	Ba	135	1095.411	0.006	**5.957203**	0.17	2.9	ug/L
|	Ba	137	1850.889	0.010	**5.463586**	0.05	1.0	ug/L
|	Tb	159	168876.159	-0.009				ug/L
|>	Ho	165	179441.874	179441.874				ug/L
|	Tl	203	1476.808	0.008	**2.122717**	0.05	2.2	ug/L
|	Tl	205	3441.437	0.019	**2.003245**	0.09	4.4	ug/L
|	Pb	208	2320.804	0.013	**0.924621**	0.07	7.4	ug/L
	Kr	83	17.600	-2.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	172.167		
Be	9	169.585		
B	11	110.611		
Na	23	108.137		
Mg	24	105.648		
Al	27	127.956		
K	39	99.203		
Ca	43	102.001		
Sc	45		96.860	
Ti	49	102.479		
Co	59	96.794		
Ni	60	91.236		
Ni	62	148.566		
Cu	63	78.841		
Cu	65	90.396		
Zn	66	100.496		
Zn	67	47.971		
Zn	68	108.541		
V	51	100.573		
Cr	52	100.674		
Cr	53	-6.094		
Mn	55	114.170		
Fe	54	99.096		
Fe	57	98.479		
As	75	85.338		
Se	77	-8.431		
Se	82	138.598		
Sr	88	163.013		
Y	89		96.342	
Mo	95	130.351		
Mo	97	134.614		
Mo	98	140.408		
Ag	107	122.529		
Ag	109	130.234		
Cd	111	115.868		
Cd	114	127.853		
In	115		93.697	
Sn	120	130.099		
Sb	121	123.539		

Sb	123	128.828	
Ba	135	119.144	
Ba	137	109.272	
Tb	159		
Ho	165		94.963
Tl	203	106.136	
Tl	205	100.162	
Pb	208	92.462	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Monday, February 15, 2010 12:16:25
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 3.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28633.709	0.009				ug/L
|	Li	7	3163.984	0.001	**1.472361**	0.04	2.7	ug/L
|	Be	9	7.333	-0.000	**1.434361**	0.00	0.3	ug/L
|	B	11	791.374	0.001	**2.589570**	0.19	7.2	ug/L
|	Na	23	12109.614	0.001	**6.625058**	2.16	32.6	ug/L
|	Mg	24	200.003	0.000	**4.685547**	0.22	4.8	ug/L
|	Al	27	906.720	0.001	**15.290607**	0.01	0.1	ug/L
|	K	39	56439.996	0.000	**-5.093871**	2.12	41.6	ug/L
|	Ca	43	169.335	-0.000	**-4.864706**	9.10	187.1	ug/L
| >	Sc	45	342257.254	342257.254				ug/L
|	Ti	49	492.016	0.000	**0.199750**	0.09	43.0	ug/L
|	Co	59	29.333	0.000	**-0.072344**	0.00	4.3	ug/L
|	Ni	60	13.333	-0.000	**-0.379879**	0.02	4.5	ug/L
|	Ni	62	33.333	0.000	**0.747675**	0.37	50.1	ug/L
|	Cu	63	773.372	0.002	**0.246754**	0.05	21.7	ug/L
|	Cu	65	396.010	0.001	**0.557395**	0.06	10.1	ug/L
|	Zn	66	232.004	0.000	**0.172460**	0.07	39.8	ug/L
|	Zn	67	1556.158	0.001	**-1.589702**	2.34	147.0	ug/L
|	Zn	68	248.004	0.000	**0.165469**	0.19	117.7	ug/L
|	V	51	-174.074	-0.000	**0.152713**	0.47	307.8	ug/L
|	Cr	52	3317.382	0.000	**-0.100590**	0.01	11.9	ug/L
|	Cr	53	16607.913	0.005	**-0.294921**	3.09	1047.0	ug/L
|	Mn	55	210.670	0.000	**0.201145**	0.01	4.0	ug/L
|	Fe	54	11796.214	-0.000	**0.678675**	0.62	90.8	ug/L
⌊	Fe	57	574.021	-0.000	**-1.020353**	0.72	70.6	ug/L
⌈	As	75	-299.309	-0.000	**-0.063497**	0.49	775.5	ug/L
|	Se	77	1626.172	0.000	**-1.651414**	0.91	55.2	ug/L
|	Se	82	1.127	-0.000	**1.595275**	0.19	11.9	ug/L
|	Sr	88	82.000	0.000	**0.620274**	0.00	0.6	ug/L
| >	Y	89	421941.306	421941.306				ug/L
|	Mo	95	18.000	0.000	**0.563616**	0.02	2.8	ug/L
|	Mo	97	12.000	0.000	**0.789030**	0.01	1.6	ug/L
⌊	Mo	98	22.594	-0.000	**0.794436**	0.00	0.4	ug/L
⌈	Ag	107	6.000	0.000	**0.199308**	0.00	1.4	ug/L
|	Ag	109	4.000	0.000	**0.247976**	0.00	0.7	ug/L
|	Cd	111	3.167	0.000	**0.270528**	0.00	0.4	ug/L
|	Cd	114	6.947	0.000	**0.538491**	0.00	0.7	ug/L

|>	In	115	175920.328	175920.328				ug/L
|	Sn	120	503.325	-0.000	**0.631571**	0.08	13.0	ug/L
|	Sb	121	494.016	-0.000	**0.442013**	0.04	10.0	ug/L
|	Sb	123	414.426	-0.000	**0.806419**	0.04	4.5	ug/L
|	Ba	135	13.333	0.000	**0.930184**	0.02	2.5	ug/L
|	Ba	137	11.333	-0.000	**0.484645**	0.02	3.7	ug/L
|	Tb	159	167056.609	-0.001				ug/L
|>	Ho	165	176071.672	176071.672				ug/L
|	Tl	203	10.000	0.000	**0.016012**	0.01	31.8	ug/L
|	Tl	205	25.333	0.000	**-0.022128**	0.01	31.8	ug/L
|	Pb	208	141.334	0.001	**-0.025860**	0.00	14.3	ug/L
	Kr	83	17.800	-2.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.735	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.868	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.684	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	93.179
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 12:19:28
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23931.344	-0.004				ug/L
|	Li	7	100897.054	0.290	**99.845167**	2.96	3.0	ug/L
|	Be	9	22923.461	0.068	**99.498599**	2.61	2.6	ug/L
|	B	11	29238.173	0.085	**99.492030**	3.34	3.4	ug/L
|	Na	23	3310445.610	9.764	**5306.711080**	185.35	3.5	ug/L
|	Mg	24	2330140.955	6.895	**5189.490162**	236.83	4.6	ug/L
|	Al	27	7486436.382	22.154	**5138.289885**	125.38	2.4	ug/L
|	K	39	7702955.894	22.629	**5423.495622**	209.57	3.9	ug/L
|	Ca	43	25157.113	0.074	**5015.339371**	146.96	2.9	ug/L
| >	Sc	45	337990.761	337990.761				ug/L
|	Ti	49	12544.221	0.036	**100.580570**	0.57	0.6	ug/L
|	Co	59	176207.476	0.521	**99.118946**	1.49	1.5	ug/L
|	Ni	60	34417.521	0.102	**99.644823**	2.65	2.7	ug/L
|	Ni	62	5085.682	0.015	**97.183247**	4.61	4.7	ug/L
|	Cu	63	83160.505	0.246	**100.318362**	1.63	1.6	ug/L
|	Cu	65	38935.629	0.115	**99.502841**	1.57	1.6	ug/L
|	Zn	66	25333.657	0.075	**100.472224**	1.26	1.3	ug/L
|	Zn	67	5285.816	0.012	**93.495956**	4.06	4.3	ug/L
|	Zn	68	18225.567	0.053	**100.737738**	2.31	2.3	ug/L
|	V	51	186139.112	0.551	**100.525929**	1.74	1.7	ug/L
|	Cr	52	159333.967	0.462	**100.068732**	1.69	1.7	ug/L
|	Cr	53	33113.118	0.054	**94.752813**	3.28	3.5	ug/L
|	Mn	55	264403.498	0.782	**98.441445**	1.07	1.1	ug/L
|	Fe	54	675952.826	1.966	**4972.814226**	78.42	1.6	ug/L
⌊	Fe	57	269722.490	0.796	**4941.114474**	40.38	0.8	ug/L
⌈	As	75	27597.035	0.066	**100.594588**	1.58	1.6	ug/L
|	Se	77	11859.802	0.024	**501.121342**	3.11	0.6	ug/L
|	Se	82	13723.912	0.033	**502.611109**	2.35	0.5	ug/L
|	Sr	88	365977.405	0.870	**99.700827**	0.83	0.8	ug/L
| >	Y	89	420787.318	420787.318				ug/L
|	Mo	95	45198.406	0.107	**100.366116**	0.88	0.9	ug/L
|	Mo	97	27677.051	0.066	**100.117071**	1.65	1.6	ug/L
⌊	Mo	98	70393.617	0.167	**99.835493**	1.43	1.4	ug/L
⌈	Ag	107	120496.432	0.688	**99.194796**	1.60	1.6	ug/L
|	Ag	109	114456.630	0.654	**99.852789**	2.40	2.4	ug/L
|	Cd	111	28599.737	0.163	**100.000795**	2.21	2.2	ug/L
|	Cd	114	64326.755	0.367	**99.424409**	1.47	1.5	ug/L

|>	In	115	175145.915	175145.915				ug/L
|	Sn	120	111400.819	0.633	**97.870388**	0.88	0.9	ug/L
|	Sb	121	79397.689	0.450	**97.475887**	2.39	2.5	ug/L
L	Sb	123	59917.118	0.340	**96.391901**	1.59	1.6	ug/L
⌈	Ba	135	21232.598	0.119	**100.322769**	0.64	0.6	ug/L
|	Ba	137	36337.629	0.204	**99.617038**	1.29	1.3	ug/L
|	Tb	159	168982.603	-0.000				ug/L
|>	Ho	165	177982.938	177982.938				ug/L
|	Tl	203	69109.760	0.388	**100.086829**	1.41	1.4	ug/L
|	Tl	205	169121.012	0.950	**101.035200**	1.75	1.7	ug/L
L	Pb	208	230026.522	1.292	**101.097874**	1.01	1.0	ug/L
	Kr	83	19.933	-0.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	99.845		
Be	9	99.499		
B	11	99.492		
Na	23	106.134		
Mg	24	103.790		
Al	27	100.751		
K	39	108.470		
Ca	43	100.307		
Sc	45		94.541	
Ti	49	100.581		
Co	59	99.119		
Ni	60	99.645		
Ni	62	97.183		
Cu	63	100.318		
Cu	65	99.503		
Zn	66	100.472		
Zn	67	93.496		
Zn	68	100.738		
V	51	100.526		
Cr	52	100.069		
Cr	53	94.753		
Mn	55	98.441		
Fe	54	99.456		
Fe	57	98.822		
As	75	100.595		
Se	77	100.224		
Se	82	100.522		
Sr	88	99.701		
Y	89		94.608	
Mo	95	100.366		
Mo	97	100.117		
Mo	98	99.835		
Ag	107	99.195		
Ag	109	99.853		
Cd	111	100.001		
Cd	114	99.424		
In	115		92.276	
Sn	120	97.870		
Sb	121	97.476		

Sb	123	96.392	
Ba	135	100.323	
Ba	137	99.617	
Tb	159		
Ho	165		94.191
Tl	203	100.087	
Tl	205	101.035	
Pb	208	101.098	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Monday, February 15, 2010 12:25:14
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 5.012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28770.220	0.008				ug/L
|	Li	7	5205.763	0.006	**3.441683**	0.15	4.5	ug/L
|	Be	9	485.349	0.001	**3.432064**	0.18	5.2	ug/L
|	B	11	6753.633	0.018	**22.385560**	0.62	2.8	ug/L
|	Na	23	77690.715	0.191	**109.363675**	6.05	5.5	ug/L
|	Mg	24	23435.720	0.067	**55.192171**	3.37	6.1	ug/L
|	Al	27	74850.795	0.214	**64.712178**	1.60	2.5	ug/L
|	K	39	180561.313	0.357	**80.533143**	2.40	3.0	ug/L
|	Ca	43	1221.430	0.003	**201.166230**	7.59	3.8	ug/L
| >	Sc	45	346070.485	346070.485				ug/L
|	Ti	49	1109.414	0.002	**5.180361**	0.87	16.8	ug/L
|	Co	59	3779.595	0.011	**1.989662**	0.03	1.5	ug/L
|	Ni	60	758.038	0.002	**1.732421**	0.14	8.2	ug/L
|	Ni	62	132.001	0.000	**2.575089**	0.26	10.1	ug/L
|	Cu	63	2004.928	0.006	**1.697468**	0.08	4.6	ug/L
|	Cu	65	841.379	0.002	**1.662264**	0.13	7.9	ug/L
|	Zn	66	1844.221	0.005	**6.455874**	0.34	5.3	ug/L
|	Zn	67	1608.168	0.001	**-0.733080**	2.40	327.4	ug/L
|	Zn	68	1262.770	0.003	**5.690979**	0.32	5.6	ug/L
|	V	51	18933.239	0.055	**10.200955**	0.39	3.8	ug/L
|	Cr	52	9836.287	0.019	**3.963954**	0.22	5.5	ug/L
|	Cr	53	16231.111	0.003	**-3.413670**	3.25	95.1	ug/L
|	Mn	55	5873.576	0.016	**2.256434**	0.02	1.0	ug/L
|	Fe	54	25167.063	0.038	**97.415700**	2.22	2.3	ug/L
⌊	Fe	57	6207.171	0.016	**99.921546**	4.43	4.4	ug/L
⌈	As	75	754.084	0.002	**3.664200**	0.41	11.3	ug/L
|	Se	77	1559.492	-0.000	**-6.601415**	4.79	72.6	ug/L
|	Se	82	159.266	0.000	**7.223744**	0.38	5.3	ug/L
|	Sr	88	3916.331	0.009	**1.631659**	0.03	1.9	ug/L
| >	Y	89	431777.096	431777.096				ug/L
|	Mo	95	1004.066	0.002	**2.684231**	0.13	4.7	ug/L
|	Mo	97	618.025	0.001	**2.909064**	0.15	5.3	ug/L
⌊	Mo	98	1607.355	0.004	**2.967322**	0.02	0.8	ug/L
⌈	Ag	107	1254.102	0.007	**1.203335**	0.01	1.0	ug/L
|	Ag	109	1219.430	0.007	**1.283450**	0.04	2.9	ug/L
|	Cd	111	603.524	0.003	**2.320443**	0.06	2.5	ug/L
|	Cd	114	1360.571	0.008	**2.576066**	0.10	3.8	ug/L

|>	In	115	178860.523	178860.523				ug/L
|	Sn	120	5909.586	0.030	**5.266147**	0.05	0.9	ug/L
|	Sb	121	5543.998	0.028	**6.511631**	0.09	1.4	ug/L
\L	Sb	123	4275.020	0.021	**6.867199**	0.13	1.9	ug/L
|	Ba	135	1046.071	0.006	**5.769291**	0.12	2.1	ug/L
|	Ba	137	1882.897	0.011	**5.593715**	0.07	1.2	ug/L
|	Tb	159	168511.847	-0.003				ug/L
|>	Ho	165	177890.830	177890.830				ug/L
|	Tl	203	1432.801	0.008	**2.078049**	0.16	7.7	ug/L
|	Tl	205	3514.803	0.020	**2.064260**	0.05	2.6	ug/L
\L	Pb	208	2462.819	0.014	**0.995274**	0.02	2.3	ug/L
	Kr	83	17.400	-3.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	172.084		
Be	9	171.603		
B	11	111.928		
Na	23	109.364		
Mg	24	110.384		
Al	27	129.424		
K	39	107.378		
Ca	43	100.583		
Sc	45		96.801	
Ti	49	103.607		
Co	59	99.483		
Ni	60	86.621		
Ni	62	128.754		
Cu	63	84.873		
Cu	65	83.113		
Zn	66	107.598		
Zn	67	-12.218		
Zn	68	94.850		
V	51	102.010		
Cr	52	99.099		
Cr	53	-85.342		
Mn	55	112.822		
Fe	54	97.416		
Fe	57	99.922		
As	75	91.605		
Se	77	-132.028		
Se	82	144.475		
Sr	88	163.166		
Y	89		97.079	
Mo	95	134.212		
Mo	97	145.453		
Mo	98	148.366		
Ag	107	120.334		
Ag	109	128.345		
Cd	111	116.022		
Cd	114	128.803		
In	115		94.233	
Sn	120	131.654		
Sb	121	130.233		

Sb	123	137.344	
Ba	135	115.386	
Ba	137	111.874	
Tb	159		
Ho	165		94.142
Tl	203	103.902	
Tl	205	103.213	
Pb	208	99.527	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 12:28:12
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.013
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28464.482	0.008				ug/L
|	Li	7	3154.647	0.001	**1.459143**	0.05	3.2	ug/L
|	Be	9	9.333	0.000	**1.442820**	0.01	0.4	ug/L
|	B	11	730.702	0.001	**2.384034**	0.18	7.7	ug/L
|	Na	23	12643.726	0.003	**7.472642**	1.17	15.7	ug/L
|	Mg	24	233.339	0.000	**4.766527**	0.53	11.1	ug/L
|	Al	27	1131.751	0.001	**15.440479**	0.09	0.6	ug/L
|	K	39	59865.726	0.010	**-2.725650**	2.55	93.5	ug/L
|	Ca	43	157.335	-0.000	**-7.276989**	3.90	53.5	ug/L
| >	Sc	45	342733.593	342733.593				ug/L
|	Ti	49	480.682	0.000	**0.102430**	0.04	38.5	ug/L
|	Co	59	44.000	0.000	**-0.064286**	0.01	9.5	ug/L
|	Ni	60	18.667	0.000	**-0.364983**	0.02	6.1	ug/L
|	Ni	62	29.333	-0.000	**0.671424**	0.06	8.8	ug/L
|	Cu	63	802.042	0.002	**0.279403**	0.01	5.0	ug/L
|	Cu	65	345.341	0.001	**0.427729**	0.07	15.3	ug/L
|	Zn	66	242.671	0.000	**0.212928**	0.07	30.8	ug/L
|	Zn	67	1469.474	0.000	**-3.770819**	4.00	106.2	ug/L
|	Zn	68	214.670	0.000	**-0.020417**	0.09	432.1	ug/L
|	V	51	604.567	0.002	**0.569884**	0.61	106.5	ug/L
|	Cr	52	3258.691	-0.000	**-0.140823**	0.06	43.5	ug/L
|	Cr	53	15848.990	0.002	**-4.676591**	3.62	77.3	ug/L
|	Mn	55	225.337	0.000	**0.206415**	0.01	3.0	ug/L
|	Fe	54	11423.967	-0.001	**-2.147483**	2.49	116.1	ug/L
⌞	Fe	57	591.356	-0.000	**-0.711857**	1.39	195.0	ug/L
⌜	As	75	-345.143	-0.000	**-0.229640**	0.63	274.1	ug/L
|	Se	77	1557.491	0.000	**-4.820477**	4.42	91.7	ug/L
|	Se	82	2.254	0.000	**1.637700**	0.08	5.0	ug/L
|	Sr	88	78.667	0.000	**0.619403**	0.00	0.2	ug/L
| >	Y	89	421003.888	421003.888				ug/L
|	Mo	95	12.000	0.000	**0.550438**	0.02	2.9	ug/L
|	Mo	97	12.667	0.000	**0.791529**	0.02	2.8	ug/L
⌞	Mo	98	26.447	0.000	**0.799831**	0.01	1.6	ug/L
⌜	Ag	107	12.667	0.000	**0.204879**	0.00	0.8	ug/L
|	Ag	109	10.000	0.000	**0.253251**	0.00	0.7	ug/L
|	Cd	111	4.167	0.000	**0.274160**	0.00	0.4	ug/L
|	Cd	114	14.608	0.000	**0.550255**	0.02	3.8	ug/L

|>	In	115	173980.149	173980.149				ug/L
|	Sn	120	448.637	-0.001	**0.588722**	0.01	2.0	ug/L
|	Sb	121	557.354	0.000	**0.527891**	0.02	3.5	ug/L
L	Sb	123	408.925	-0.000	**0.804380**	0.06	8.1	ug/L
⌈	Ba	135	8.667	-0.000	**0.908610**	0.04	4.3	ug/L
|	Ba	137	18.000	0.000	**0.503064**	0.00	1.0	ug/L
|	Tb	159	165965.822	-0.005				ug/L
|>	Ho	165	175697.445	175697.445				ug/L
|	Tl	203	13.333	0.000	**0.020937**	0.01	56.3	ug/L
|	Tl	205	22.667	0.000	**-0.023744**	0.01	22.6	ug/L
L	Pb	208	112.667	0.000	**-0.038494**	0.00	12.3	ug/L
	Kr	83	18.667	-1.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.868	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		94.657	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.662	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	92.981
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Monday, February 15, 2010 12:32:08
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSA.014
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26613.989	0.004				ug/L
|	Li	7	2909.885	0.000	**1.244275**	0.16	12.5	ug/L
|	Be	9	10.000	0.000	**1.445740**	0.02	1.5	ug/L
|	B	11	952.726	0.001	**3.164933**	0.17	5.4	ug/L
|	Na	23	59913207.795	176.674	**95925.480718**	2192.63	2.3	ug/L
|	Mg	24	42014016.312	123.900	**93167.976312**	992.83	1.1	ug/L
|	Al	27	134716759.869	397.346	**91901.364255**	1893.09	2.1	ug/L
|	K	39	123728237.702	364.871	**87529.008801**	3617.01	4.1	ug/L
|	Ca	43	498100.098	1.469	**99739.606230**	3242.03	3.3	ug/L
| >	Sc	45	339130.171	339130.171				ug/L
|	Ti	49	248890.867	0.733	**2061.871753**	68.27	3.3	ug/L
|	Co	59	3163.317	0.009	**1.686251**	0.04	2.2	ug/L
|	Ni	60	906.720	0.003	**2.207833**	0.07	3.0	ug/L
|	Ni	62	632.026	0.002	**12.142437**	1.56	12.9	ug/L
|	Cu	63	1834.886	0.005	**1.537763**	0.13	8.7	ug/L
|	Cu	65	985.397	0.003	**2.078060**	0.34	16.4	ug/L
|	Zn	66	916.055	0.002	**2.908528**	0.36	12.3	ug/L
|	Zn	67	1381.457	0.000	**-5.646785**	1.36	24.1	ug/L
|	Zn	68	292.006	0.000	**0.420467**	0.13	29.9	ug/L
|	V	51	981.017	0.003	**0.773265**	0.39	50.3	ug/L
|	Cr	52	5963.646	0.008	**1.612765**	0.17	10.6	ug/L
|	Cr	53	12595.646	-0.007	**-22.217232**	1.54	6.9	ug/L
|	Mn	55	19808.146	0.058	**7.467659**	0.31	4.2	ug/L
|	Fe	54	13067574.159	38.519	**97428.038905**	4287.95	4.4	ug/L
⌊	Fe	57	5386300.217	15.889	**98598.612678**	3724.32	3.8	ug/L
⌈	As	75	-287.040	-0.000	**0.016680**	0.83	4970.2	ug/L
|	Se	77	1988.257	0.001	**12.103912**	3.16	26.1	ug/L
|	Se	82	-14.952	-0.000	**1.034528**	0.22	21.2	ug/L
|	Sr	88	9367.033	0.021	**3.023485**	0.03	0.9	ug/L
| >	Y	89	440104.199	440104.199				ug/L
|	Mo	95	958369.180	2.178	**2024.886769**	31.91	1.6	ug/L
|	Mo	97	577408.747	1.312	**1983.060231**	14.88	0.8	ug/L
⌊	Mo	98	1481014.853	3.366	**1993.882874**	36.14	1.8	ug/L
⌈	Ag	107	140.668	0.001	**0.304675**	0.01	1.9	ug/L
|	Ag	109	118.001	0.001	**0.342509**	0.01	3.2	ug/L
|	Cd	111	697.365	0.004	**2.579164**	0.08	3.2	ug/L
|	Cd	114	1196.055	0.007	**2.282472**	0.05	2.1	ug/L

|>	In	115	183555.949	183555.949				ug/L
|	Sn	120	603.349	0.000	**0.697401**	0.03	3.9	ug/L
|	Sb	121	563.354	0.000	**0.498657**	0.02	4.5	ug/L
|	Sb	123	426.595	-0.000	**0.797111**	0.09	11.7	ug/L
⌈	Ba	135	411.344	0.002	**2.572946**	0.10	4.1	ug/L
|	Ba	137	708.033	0.003	**2.165536**	0.21	9.5	ug/L
|	Tb	159	192406.274	0.007				ug/L
|>	Ho	165	201129.112	201129.112				ug/L
|	Tl	203	108.001	0.001	**0.139988**	0.01	10.5	ug/L
|	Tl	205	267.338	0.001	**0.104037**	0.01	10.6	ug/L
⌊	Pb	208	652.011	0.003	**0.165213**	0.01	5.7	ug/L
	Kr	83	44.867	24.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.860	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		98.952	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.707	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	106.440
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Monday, February 15, 2010 12:34:48
Sample Type: Spike - 2 of 9
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSAB.015
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27218.526	0.005				ug/L
|	Li	7	3113.964	0.001	**1.449531**	0.04	2.9	ug/L
|	Be	9	3.333	-0.000	**1.417637**	0.01	0.9	ug/L
|	B	11	904.720	0.001	**3.000979**	0.15	5.0	ug/L
|	Na	23	60730736.946	178.988	**97181.358951**	90.20	0.1	ug/L
|	Mg	24	42692675.265	125.853	**94636.345457**	532.87	0.6	ug/L
|	Al	27	139358885.095	410.798	**95012.103392**	711.61	0.7	ug/L
|	K	39	126643494.589	373.207	**89528.686127**	1703.38	1.9	ug/L
|	Ca	43	489779.164	1.443	**98006.076303**	2287.02	2.3	ug/L
| >	Sc	45	339238.827	339238.827				ug/L
|	Ti	49	244101.003	0.718	**2020.762591**	32.49	1.6	ug/L
|	Co	59	143898.838	0.424	**80.626874**	1.11	1.4	ug/L
|	Ni	60	27328.469	0.081	**78.726998**	0.44	0.6	ug/L
|	Ni	62	4681.427	0.014	**89.054093**	4.10	4.6	ug/L
|	Cu	63	62624.582	0.184	**75.092390**	1.00	1.3	ug/L
|	Cu	65	29274.270	0.086	**74.417207**	0.95	1.3	ug/L
|	Zn	66	9759.524	0.028	**38.106005**	1.09	2.8	ug/L
|	Zn	67	2901.881	0.005	**32.726023**	1.14	3.5	ug/L
|	Zn	68	6752.296	0.019	**36.416162**	0.24	0.6	ug/L
|	V	51	154602.769	0.456	**83.220730**	0.97	1.2	ug/L
|	Cr	52	133402.933	0.384	**83.093925**	0.34	0.4	ug/L
|	Cr	53	27429.486	0.037	**61.842376**	3.00	4.9	ug/L
|	Mn	55	235450.390	0.694	**87.351871**	1.86	2.1	ug/L
|	Fe	54	13161620.053	38.768	**98057.508900**	2080.61	2.1	ug/L
⌊	Fe	57	5321616.782	15.686	**97340.379335**	1102.70	1.1	ug/L
⌈	As	75	9733.100	0.023	**35.090933**	1.10	3.1	ug/L
|	Se	77	2788.505	0.003	**51.591351**	3.06	5.9	ug/L
|	Se	82	1091.805	0.003	**40.229260**	0.86	2.1	ug/L
|	Sr	88	9310.298	0.021	**3.044258**	0.03	1.1	ug/L
| >	Y	89	433681.715	433681.715				ug/L
|	Mo	95	949511.218	2.189	**2035.534803**	21.82	1.1	ug/L
|	Mo	97	578209.623	1.333	**2015.018206**	34.42	1.7	ug/L
⌊	Mo	98	1471388.842	3.393	**2009.914503**	29.30	1.5	ug/L
⌈	Ag	107	23503.189	0.129	**18.727773**	0.55	2.9	ug/L
|	Ag	109	22474.787	0.123	**19.014371**	0.46	2.4	ug/L
|	Cd	111	11885.509	0.065	**40.034553**	0.80	2.0	ug/L
|	Cd	114	27271.844	0.149	**40.764537**	0.74	1.8	ug/L

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|>	In	115	182517.015	182517.015				ug/L
|	Sn	120	555.328	-0.000	**0.660018**	0.01	1.4	ug/L
|	Sb	121	386.676	-0.001	**0.293992**	0.00	1.0	ug/L
\L	Sb	123	295.754	-0.001	**0.599733**	0.02	2.8	ug/L
⌈	Ba	135	402.011	0.002	**2.583247**	0.12	4.7	ug/L
|	Ba	137	636.026	0.003	**2.035806**	0.10	4.7	ug/L
|	Tb	159	188169.785	0.014				ug/L
|>	Ho	165	195312.080	195312.080				ug/L
|	Tl	203	106.667	0.001	**0.142372**	0.04	30.1	ug/L
|	Tl	205	271.338	0.001	**0.110248**	0.01	6.8	ug/L
\L	Pb	208	612.676	0.003	**0.156841**	0.02	12.7	ug/L
	Kr	83	44.067	23.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.890	
Ti	49			
Co	59			98.676
Ni	60			95.649
Ni	62			96.140
Cu	63			91.943
Cu	65			90.424
Zn	66			87.994
Zn	67			95.932
Zn	68			89.989
V	51			103.059
Cr	52			101.851
Cr	53			105.075
Mn	55			99.855
Fe	54			
Fe	57			
As	75			87.686
Se	77			98.719
Se	82			97.987
Sr	88			
Y	89		97.508	
Mo	95			
Mo	97			
Mo	98			
Ag	107			92.115
Ag	109			93.359
Cd	111			93.638
Cd	114			96.205
In	115		96.159	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	103.361
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 17:07:34
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.101
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24600.143	0.002				ug/L
|	Li	7	106772.137	0.325	**111.747167**	4.73	4.2	ug/L
|	Be	9	24065.615	0.075	**110.090382**	3.46	3.1	ug/L
|	B	11	30019.836	0.092	**107.786283**	1.62	1.5	ug/L
|	Na	23	3146209.843	9.797	**5324.909209**	272.39	5.1	ug/L
|	Mg	24	2311682.060	7.222	**5435.278985**	263.05	4.8	ug/L
|	Al	27	7274301.080	22.724	**5270.064775**	202.91	3.9	ug/L
|	K	39	7930479.116	24.616	**5900.314570**	391.24	6.6	ug/L
|	Ca	43	24834.718	0.077	**5228.164419**	172.18	3.3	ug/L
| >	Sc	45	320290.317	320290.317				ug/L
|	Ti	49	12042.086	0.036	**101.958931**	1.47	1.4	ug/L
|	Co	59	166542.906	0.520	**98.922710**	4.77	4.8	ug/L
|	Ni	60	32029.898	0.100	**97.901891**	4.27	4.4	ug/L
|	Ni	62	4924.244	0.015	**99.275612**	4.20	4.2	ug/L
|	Cu	63	77783.331	0.243	**99.055510**	3.64	3.7	ug/L
|	Cu	65	37237.946	0.116	**100.438683**	2.75	2.7	ug/L
|	Zn	66	23570.724	0.073	**98.669369**	2.56	2.6	ug/L
|	Zn	67	5193.754	0.012	**98.430422**	4.32	4.4	ug/L
|	Zn	68	17123.038	0.053	**99.887413**	3.11	3.1	ug/L
|	V	51	179556.020	0.561	**102.336105**	1.95	1.9	ug/L
|	Cr	52	151516.557	0.464	**100.472450**	4.05	4.0	ug/L
|	Cr	53	31029.795	0.053	**92.691330**	4.74	5.1	ug/L
|	Mn	55	252406.232	0.788	**99.229604**	4.62	4.7	ug/L
|	Fe	54	641980.956	1.971	**4987.103728**	241.67	4.8	ug/L
⌊	Fe	57	255208.443	0.796	**4936.978897**	229.51	4.6	ug/L
⌈	As	75	26512.546	0.069	**105.164046**	3.65	3.5	ug/L
|	Se	77	11009.874	0.025	**507.154168**	13.99	2.8	ug/L
|	Se	82	13119.248	0.034	**522.972807**	17.35	3.3	ug/L
|	Sr	88	352027.041	0.910	**104.358506**	3.78	3.6	ug/L
| >	Y	89	386795.625	386795.625				ug/L
|	Mo	95	42883.261	0.111	**103.615792**	3.37	3.3	ug/L
|	Mo	97	26383.848	0.068	**103.860480**	3.56	3.4	ug/L
⌊	Mo	98	67012.566	0.173	**103.410662**	3.20	3.1	ug/L
⌈	Ag	107	114672.462	0.709	**102.181832**	2.57	2.5	ug/L
|	Ag	109	108558.714	0.671	**102.515976**	3.14	3.1	ug/L
|	Cd	111	27425.471	0.170	**103.808290**	3.48	3.4	ug/L
|	Cd	114	61741.968	0.382	**103.286582**	2.82	2.7	ug/L

|>	In	115	161865.414	161865.414				ug/L
|	Sn	120	107162.594	0.659	**101.933819**	3.51	3.4	ug/L
|	Sb	121	75843.412	0.466	**100.828948**	4.24	4.2	ug/L
_	Sb	123	57736.876	0.355	**100.563821**	3.62	3.6	ug/L
⌈	Ba	135	20085.524	0.121	**101.670765**	5.60	5.5	ug/L
|	Ba	137	34560.800	0.208	**101.484392**	5.02	4.9	ug/L
|	Tb	159	155660.128	-0.014				ug/L
|>	Ho	165	166379.588	166379.588				ug/L
|	Tl	203	69258.537	0.417	**107.513227**	7.66	7.1	ug/L
|	Tl	205	167093.390	1.006	**106.937754**	5.57	5.2	ug/L
_	Pb	208	226396.468	1.363	**106.594618**	5.52	5.2	ug/L
	Kr	83	21.267	0.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	111.747		
Be	9	110.090		
B	11	107.786		
Na	23	106.498		
Mg	24	108.706		
Al	27	103.335		
K	39	118.006		
Ca	43	104.563		
Sc	45		89.590	
Ti	49	101.959		
Co	59	98.923		
Ni	60	97.902		
Ni	62	99.276		
Cu	63	99.056		
Cu	65	100.439		
Zn	66	98.669		
Zn	67	98.430		
Zn	68	99.887		
V	51	102.336		
Cr	52	100.472		
Cr	53	92.691		
Mn	55	99.230		
Fe	54	99.742		
Fe	57	98.740		
As	75	105.164		
Se	77	101.431		
Se	82	104.595		
Sr	88	104.359		
Y	89		86.966	
Mo	95	103.616		
Mo	97	103.860		
Mo	98	103.411		
Ag	107	102.182		
Ag	109	102.516		
Cd	111	103.808		
Cd	114	103.287		
In	115		85.279	
Sn	120	101.934		
Sb	121	100.829		

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Sb	123	100.564	
Ba	135	101.671	
Ba	137	101.484	
Tb	159		
Ho	165		88.050
Tl	203	107.513	
Tl	205	106.938	
Pb	208	106.595	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Monday, February 15, 2010 17:10:16
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 5.102
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29540.186	0.016				ug/L
	Li	7	5293.156	0.008	**3.839549**	0.24	6.3	ug/L
	Be	9	504.017	0.002	**3.635496**	0.10	2.8	ug/L
	B	11	7006.523	0.020	**24.618866**	0.30	1.2	ug/L
	Na	23	73584.731	0.191	**109.753798**	8.66	7.9	ug/L
	Mg	24	21830.961	0.066	**54.501978**	1.65	3.0	ug/L
	Al	27	73492.752	0.223	**66.713002**	0.21	0.3	ug/L
	K	39	166688.452	0.346	**77.784460**	5.03	6.5	ug/L
	Ca	43	1108.080	0.003	**191.856609**	21.66	11.3	ug/L
>	Sc	45	326607.271	326607.271				ug/L
	Ti	49	1013.400	0.002	**4.885795**	0.08	1.5	ug/L
	Co	59	3350.063	0.010	**1.862954**	0.07	4.0	ug/L
	Ni	60	690.031	0.002	**1.657176**	0.13	7.8	ug/L
	Ni	62	113.334	0.000	**2.355733**	0.16	6.9	ug/L
	Cu	63	1846.222	0.005	**1.638839**	0.01	0.9	ug/L
	Cu	65	774.706	0.002	**1.611173**	0.16	10.0	ug/L
	Zn	66	1650.844	0.005	**6.081834**	0.18	2.9	ug/L
	Zn	67	1642.843	0.001	**2.529123**	4.64	183.5	ug/L
	Zn	68	1192.093	0.003	**5.694124**	0.46	8.1	ug/L
	V	51	18775.102	0.058	**10.709162**	0.35	3.2	ug/L
	Cr	52	9136.757	0.018	**3.864833**	0.07	1.8	ug/L
	Cr	53	14972.560	0.002	**-5.484573**	1.10	20.1	ug/L
	Mn	55	5431.251	0.016	**2.213408**	0.06	2.6	ug/L
	Fe	54	23432.542	0.037	**94.962495**	3.56	3.7	ug/L
	Fe	57	5802.856	0.016	**98.817721**	3.35	3.4	ug/L
	As	75	577.377	0.002	**3.232547**	0.79	24.4	ug/L
	Se	77	1460.805	-0.000	**-5.085186**	2.19	43.1	ug/L
	Se	82	139.735	0.000	**6.975657**	0.37	5.4	ug/L
	Sr	88	3794.937	0.009	**1.689683**	0.05	2.9	ug/L
>	Y	89	396141.093	396141.093				ug/L
	Mo	95	980.062	0.002	**2.823270**	0.06	2.0	ug/L
	Mo	97	579.355	0.001	**2.955410**	0.06	1.9	ug/L
	Mo	98	1460.066	0.004	**2.945562**	0.08	2.6	ug/L
	Ag	107	1179.424	0.007	**1.231977**	0.06	5.2	ug/L
	Ag	109	1096.745	0.007	**1.266450**	0.04	3.1	ug/L
	Cd	111	564.521	0.003	**2.367896**	0.08	3.5	ug/L
	Cd	114	1279.250	0.008	**2.633956**	0.06	2.4	ug/L

|>	In	115	163527.996	163527.996				ug/L
|	Sn	120	5550.661	0.031	**5.404890**	0.08	1.4	ug/L
|	Sb	121	5768.830	0.032	**7.433934**	0.14	1.8	ug/L
_	Sb	123	4326.467	0.024	**7.586803**	0.25	3.3	ug/L
⌈	Ba	135	989.397	0.006	**5.842508**	0.37	6.4	ug/L
|	Ba	137	1669.514	0.010	**5.341883**	0.13	2.5	ug/L
|	Tb	159	156303.681	-0.008				ug/L
|>	Ho	165	165918.639	165918.639				ug/L
|	Tl	203	1480.142	0.009	**2.301410**	0.07	3.2	ug/L
|	Tl	205	3462.114	0.021	**2.183539**	0.16	7.2	ug/L
_	Pb	208	2420.149	0.014	**1.053261**	0.01	1.2	ug/L
	Kr	83	17.067	-3.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	191.977		
Be	9	181.775		
B	11	123.094		
Na	23	109.754		
Mg	24	109.004		
Al	27	133.426		
K	39	103.713		
Ca	43	95.928		
Sc	45		91.357	
Ti	49	97.716		
Co	59	93.148		
Ni	60	82.859		
Ni	62	117.787		
Cu	63	81.942		
Cu	65	80.559		
Zn	66	101.364		
Zn	67	42.152		
Zn	68	94.902		
V	51	107.092		
Cr	52	96.621		
Cr	53	-137.114		
Mn	55	110.670		
Fe	54	94.962		
Fe	57	98.818		
As	75	80.814		
Se	77	-101.704		
Se	82	139.513		
Sr	88	168.968		
Y	89		89.067	
Mo	95	141.163		
Mo	97	147.771		
Mo	98	147.278		
Ag	107	123.198		
Ag	109	126.645		
Cd	111	118.395		
Cd	114	131.698		
In	115		86.155	
Sn	120	135.122		
Sb	121	148.679		

Sb	123	151.736	
Ba	135	116.850	
Ba	137	106.838	
Tb	159		
Ho	165		87.806
Tl	203	115.070	
Tl	205	109.177	
Pb	208	105.326	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 17:12:57
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.103
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30034.306	0.018				ug/L
|	Li	7	3190.662	0.001	**1.666626**	0.09	5.1	ug/L
|	Be	9	7.333	0.000	**1.435895**	0.01	0.7	ug/L
|	B	11	760.704	0.001	**2.623097**	0.03	1.0	ug/L
|	Na	23	12877.574	0.006	**8.930134**	2.92	32.7	ug/L
|	Mg	24	533.354	0.001	**5.472405**	0.46	8.4	ug/L
|	Al	27	1905.236	0.004	**16.033568**	0.05	0.3	ug/L
|	K	39	54660.675	0.004	**-4.335871**	2.15	49.5	ug/L
|	Ca	43	150.668	-0.000	**-6.930961**	7.73	111.5	ug/L
| >	Sc	45	325142.493	325142.493				ug/L
|	Ti	49	439.346	-0.000	**-0.039059**	0.21	534.2	ug/L
|	Co	59	29.333	0.000	**-0.071479**	0.00	4.7	ug/L
|	Ni	60	9.333	-0.000	**-0.389995**	0.01	2.5	ug/L
|	Ni	62	29.333	-0.000	**0.697226**	0.24	34.8	ug/L
|	Cu	63	414.678	0.001	**-0.158496**	0.04	28.4	ug/L
|	Cu	65	186.669	0.000	**0.051428**	0.03	67.8	ug/L
|	Zn	66	137.335	0.000	**-0.171391**	0.12	71.5	ug/L
|	Zn	67	1626.839	0.001	**2.341363**	2.24	95.5	ug/L
|	Zn	68	152.002	0.000	**-0.322647**	0.06	19.0	ug/L
|	V	51	978.932	0.003	**0.788555**	0.16	20.2	ug/L
|	Cr	52	2999.918	-0.000	**-0.201651**	0.01	6.7	ug/L
|	Cr	53	14511.680	0.001	**-7.780630**	2.74	35.2	ug/L
|	Mn	55	229.337	0.000	**0.212435**	0.00	1.5	ug/L
|	Fe	54	10847.755	-0.001	**-2.076156**	2.39	115.1	ug/L
⌊	Fe	57	577.355	-0.000	**-0.406691**	0.37	90.6	ug/L
⌈	As	75	-391.075	-0.001	**-0.472549**	0.05	10.9	ug/L
|	Se	77	1420.131	-0.000	**-7.661399**	3.82	49.9	ug/L
|	Se	82	3.009	0.000	**1.671001**	0.03	2.1	ug/L
|	Sr	88	58.000	-0.000	**0.614698**	0.00	0.4	ug/L
| >	Y	89	398678.354	398678.354				ug/L
|	Mo	95	18.667	0.000	**0.567406**	0.01	0.9	ug/L
|	Mo	97	11.333	0.000	**0.788930**	0.00	0.6	ug/L
⌊	Mo	98	27.260	0.000	**0.803344**	0.02	2.9	ug/L
⌈	Ag	107	4.667	0.000	**0.198445**	0.00	1.8	ug/L
|	Ag	109	5.333	0.000	**0.249400**	0.00	0.8	ug/L
|	Cd	111	2.167	0.000	**0.267504**	0.01	2.2	ug/L
|	Cd	114	7.189	0.000	**0.539608**	0.01	1.4	ug/L

00365

|>	In	115	165444.842	165444.842				ug/L
|	Sn	120	473.348	-0.000	**0.632390**	0.02	3.4	ug/L
|	Sb	121	523.351	0.000	**0.519440**	0.04	8.4	ug/L
|	Sb	123	423.345	0.000	**0.864282**	0.05	6.2	ug/L
⌈	Ba	135	12.000	0.000	**0.926821**	0.00	0.1	ug/L
|	Ba	137	22.667	0.000	**0.518770**	0.02	4.3	ug/L
|	Tb	159	157135.464	-0.013				ug/L
|>	Ho	165	167644.780	167644.780				ug/L
|	Tl	203	22.000	0.000	**0.035247**	0.01	26.8	ug/L
|	Tl	205	33.333	0.000	**-0.016268**	0.01	59.9	ug/L
⌊	Pb	208	75.333	0.000	**-0.053449**	0.01	12.4	ug/L
	Kr	83	15.933	-4.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.947	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.638	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.165	
Sn	120			
Sb	121			

00366

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.719
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Monday, February 15, 2010 17:15:38
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSA.104
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27761.441	0.012				ug/L
|	Li	7	3168.653	0.001	**1.696176**	0.07	4.1	ug/L
|	Be	9	4.000	-0.000	**1.421346**	0.01	0.6	ug/L
|	B	11	986.063	0.002	**3.476393**	0.12	3.4	ug/L
|	Na	23	58558445.202	183.039	**99380.907903**	3553.62	3.6	ug/L
|	Mg	24	42227668.205	132.039	**99287.938954**	4764.42	4.8	ug/L
|	Al	27	131876597.745	412.350	**95370.969296**	4717.17	4.9	ug/L
|	K	39	125622414.766	392.606	**94182.763091**	4645.06	4.9	ug/L
|	Ca	43	471632.882	1.474	**100063.167000**	1766.79	1.8	ug/L
| >	Sc	45	320000.528	320000.528				ug/L
|	Ti	49	232474.766	0.725	**2040.698309**	62.56	3.1	ug/L
|	Co	59	2887.209	0.009	**1.628891**	0.11	6.8	ug/L
|	Ni	60	933.390	0.003	**2.447851**	0.22	9.1	ug/L
|	Ni	62	582.689	0.002	**11.865350**	0.59	5.0	ug/L
|	Cu	63	1674.849	0.005	**1.467615**	0.09	6.2	ug/L
|	Cu	65	861.382	0.003	**1.887513**	0.11	5.9	ug/L
|	Zn	66	728.035	0.002	**2.328780**	0.17	7.5	ug/L
|	Zn	67	1457.472	0.001	**-1.550034**	1.19	77.0	ug/L
|	Zn	68	285.339	0.000	**0.479313**	0.10	20.9	ug/L
|	V	51	829.289	0.003	**0.714622**	0.30	41.8	ug/L
|	Cr	52	5459.938	0.007	**1.499309**	0.14	9.6	ug/L
|	Cr	53	12150.255	-0.006	**-20.604591**	0.88	4.3	ug/L
|	Mn	55	18355.889	0.057	**7.335842**	0.34	4.6	ug/L
|	Fe	54	12115054.376	37.846	**95725.353980**	4621.36	4.8	ug/L
⌊	Fe	57	4921563.087	15.388	**95488.897939**	5147.86	5.4	ug/L
⌈	As	75	-213.225	-0.000	**0.213041**	0.19	87.7	ug/L
|	Se	77	1996.926	0.001	**21.331599**	3.24	15.2	ug/L
|	Se	82	-18.424	-0.000	**0.850971**	0.07	8.6	ug/L
|	Sr	88	8716.939	0.022	**3.068277**	0.10	3.3	ug/L
| >	Y	89	402203.112	402203.112				ug/L
|	Mo	95	885872.495	2.203	**2048.487555**	105.14	5.1	ug/L
|	Mo	97	539666.646	1.342	**2028.613086**	97.90	4.8	ug/L
⌊	Mo	98	1385102.511	3.445	**2040.740981**	88.31	4.3	ug/L
⌈	Ag	107	138.668	0.001	**0.312918**	0.03	9.5	ug/L
|	Ag	109	104.001	0.001	**0.338538**	0.01	3.0	ug/L
|	Cd	111	588.022	0.003	**2.386393**	0.04	1.6	ug/L
|	Cd	114	984.946	0.006	**2.100361**	0.13	6.1	ug/L

00368

|>	In	115	168875.019	168875.019				ug/L
|	Sn	120	550.020	0.000	**0.693591**	0.05	7.9	ug/L
|	Sb	121	469.348	-0.000	**0.435570**	0.05	11.9	ug/L
L	Sb	123	337.341	-0.000	**0.706934**	0.10	14.9	ug/L
⌈	Ba	135	343.341	0.002	**2.436693**	0.16	6.6	ug/L
|	Ba	137	670.696	0.004	**2.240541**	0.07	3.2	ug/L
|	Tb	159	174334.765	0.006				ug/L
|>	Ho	165	182355.687	182355.687				ug/L
|	Tl	203	108.667	0.001	**0.154936**	0.00	1.9	ug/L
|	Tl	205	268.005	0.001	**0.119034**	0.01	11.4	ug/L
L	Pb	208	625.343	0.003	**0.179806**	0.01	5.7	ug/L
	Kr	83	45.667	25.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.509	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.430	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.972	
Sn	120			
Sb	121			

00369

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.505
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Monday, February 15, 2010 17:18:19
Sample Type: Spike - 2 of 66
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSAB.105
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28678.717	0.016				ug/L
|	Li	7	3153.313	0.001	**1.726970**	0.10	5.5	ug/L
|	Be	9	5.333	-0.000	**1.427994**	0.02	1.4	ug/L
|	B	11	884.051	0.001	**3.156620**	0.18	5.6	ug/L
|	Na	23	60298614.395	191.137	**103777.415241**	2907.78	2.8	ug/L
|	Mg	24	43182817.842	136.918	**102956.252152**	4365.95	4.2	ug/L
|	Al	27	137374193.490	435.522	**100729.397731**	2567.49	2.5	ug/L
|	K	39	128774443.785	408.273	**97941.260393**	7299.74	7.5	ug/L
|	Ca	43	471922.833	1.496	**101555.720552**	1705.05	1.7	ug/L
| >	Sc	45	315492.164	315492.164				ug/L
|	Ti	49	233101.942	0.738	**2075.116090**	30.25	1.5	ug/L
|	Co	59	134018.992	0.425	**80.750430**	2.25	2.8	ug/L
|	Ni	60	25204.578	0.080	**78.099463**	3.10	4.0	ug/L
|	Ni	62	4215.822	0.013	**86.273553**	0.75	0.9	ug/L
|	Cu	63	57701.617	0.183	**74.399513**	1.54	2.1	ug/L
|	Cu	65	27584.046	0.087	**75.413511**	2.01	2.7	ug/L
|	Zn	66	9010.610	0.028	**37.834287**	1.45	3.8	ug/L
|	Zn	67	2813.848	0.005	**35.870587**	1.73	4.8	ug/L
|	Zn	68	6125.105	0.019	**35.494865**	1.11	3.1	ug/L
|	V	51	144378.805	0.458	**83.567052**	1.31	1.6	ug/L
|	Cr	52	122742.199	0.380	**82.190889**	0.89	1.1	ug/L
|	Cr	53	25648.023	0.037	**62.671983**	1.72	2.8	ug/L
|	Mn	55	218175.200	0.691	**87.044809**	2.34	2.7	ug/L
|	Fe	54	12174500.183	38.562	**97536.390813**	2438.34	2.5	ug/L
⌊	Fe	57	4945579.886	15.678	**97289.734500**	2939.34	3.0	ug/L
⌜	As	75	8688.965	0.022	**34.211578**	0.90	2.6	ug/L
|	Se	77	2771.833	0.003	**62.847515**	7.85	12.5	ug/L
|	Se	82	1021.046	0.003	**41.016138**	0.75	1.8	ug/L
|	Sr	88	8702.258	0.022	**3.092265**	0.09	3.1	ug/L
| >	Y	89	397574.458	397574.458				ug/L
|	Mo	95	889736.905	2.239	**2081.322077**	77.53	3.7	ug/L
|	Mo	97	542933.965	1.366	**2064.806781**	84.14	4.1	ug/L
⌊	Mo	98	1396269.932	3.513	**2081.321517**	79.44	3.8	ug/L
⌜	Ag	107	22076.320	0.132	**19.119420**	0.96	5.0	ug/L
|	Ag	109	20893.009	0.124	**19.211448**	0.74	3.8	ug/L
|	Cd	111	11221.014	0.067	**41.080913**	1.56	3.8	ug/L
|	Cd	114	25107.115	0.150	**40.801116**	1.91	4.7	ug/L

00371

|>	In	115	167947.092	167947.092				ug/L
|	Sn	120	533.318	-0.000	**0.680720**	0.04	5.8	ug/L
|	Sb	121	334.007	-0.001	**0.265363**	0.05	19.8	ug/L
|	Sb	123	273.669	-0.001	**0.602449**	0.02	3.9	ug/L
⌈	Ba	135	364.009	0.002	**2.547510**	0.05	1.8	ug/L
|	Ba	137	632.693	0.003	**2.156505**	0.17	7.7	ug/L
|	Tb	159	173280.719	0.010				ug/L
|>	Ho	165	180559.410	180559.410				ug/L
|	Tl	203	100.667	0.001	**0.145155**	0.02	13.3	ug/L
|	Tl	205	266.671	0.001	**0.119681**	0.01	7.0	ug/L
⌊	Pb	208	610.676	0.003	**0.176035**	0.01	5.1	ug/L
	Kr	83	46.133	25.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		88.248	
Ti	49			
Co	59			98.902
Ni	60			94.565
Ni	62			93.010
Cu	63			91.165
Cu	65			91.907
Zn	66			88.764
Zn	67			93.552
Zn	68			87.539
V	51			103.566
Cr	52			100.864
Cr	53			104.096
Mn	55			99.636
Fe	54			
Fe	57			
As	75			84.996
Se	77			103.790
Se	82			100.413
Sr	88			
Y	89		89.389	
Mo	95			
Mo	97			
Mo	98			
Ag	107			94.033
Ag	109			94.365
Cd	111			96.736
Cd	114			96.752
In	115		88.483	
Sn	120			
Sb	121			

00372

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.554
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: MBLK-87095
Sample Date/Time: Monday, February 15, 2010 17:21:01
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\MBLK-87095.106
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32168.091	0.029				ug/L
|	Li	7	3536.814	0.003	**2.188547**	0.01	0.4	ug/L
|	Be	9	7.333	0.000	**1.437025**	0.01	0.9	ug/L
|	B	11	2157.637	0.006	**7.917484**	0.74	9.4	ug/L
|	Na	23	26512.606	0.051	**33.568131**	3.27	9.7	ug/L
|	Mg	24	8671.571	0.027	**25.252829**	2.62	10.4	ug/L
|	Al	27	42342.264	0.134	**46.138232**	3.69	8.0	ug/L
|	K	39	82912.668	0.102	**19.366324**	6.98	36.0	ug/L
|	Ca	43	312.006	0.000	**29.422566**	2.81	9.6	ug/L
| >	Sc	45	311564.942	311564.942				ug/L
|	Ti	49	773.372	0.001	**3.166434**	0.93	29.5	ug/L
|	Co	59	45.333	0.000	**-0.060839**	0.00	6.1	ug/L
|	Ni	60	44.000	0.000	**-0.279792**	0.02	8.7	ug/L
|	Ni	62	18.667	-0.000	**0.503908**	0.03	6.1	ug/L
|	Cu	63	421.345	0.001	**-0.125320**	0.04	30.1	ug/L
|	Cu	65	220.003	0.001	**0.166469**	0.05	27.1	ug/L
|	Zn	66	309.340	0.001	**0.598600**	0.15	25.0	ug/L
|	Zn	67	1876.229	0.002	**11.025312**	0.36	3.3	ug/L
|	Zn	68	294.672	0.000	**0.590284**	0.27	46.6	ug/L
|	V	51	1762.848	0.006	**1.274521**	0.24	18.8	ug/L
|	Cr	52	3292.038	0.001	**0.092838**	0.14	155.9	ug/L
|	Cr	53	16926.605	0.010	**10.951880**	4.12	37.6	ug/L
|	Mn	55	379.343	0.001	**0.277432**	0.02	8.1	ug/L
|	Fe	54	19030.831	0.026	**68.329492**	10.83	15.8	ug/L
⌊	Fe	57	1840.221	0.004	**25.259894**	3.51	13.9	ug/L
⌈	As	75	-448.836	-0.001	**-0.771975**	0.57	74.0	ug/L
|	Se	77	1940.245	0.001	**24.578804**	1.55	6.3	ug/L
|	Se	82	4.155	0.000	**1.724358**	0.07	4.1	ug/L
|	Sr	88	409.344	0.001	**0.721398**	0.01	0.9	ug/L
| >	Y	89	378664.124	378664.124				ug/L
|	Mo	95	583.356	0.002	**1.958624**	0.18	9.1	ug/L
|	Mo	97	372.676	0.001	**2.234746**	0.11	5.0	ug/L
⌊	Mo	98	897.240	0.002	**2.168163**	0.13	5.8	ug/L
⌈	Ag	107	8.667	0.000	**0.202680**	0.00	0.5	ug/L
|	Ag	109	8.667	0.000	**0.253186**	0.01	2.5	ug/L
|	Cd	111	5.000	0.000	**0.279930**	0.01	4.2	ug/L
|	Cd	114	7.322	0.000	**0.540899**	0.01	1.0	ug/L

00374

|>	In	115	151045.803	151045.803				ug/L
|	Sn	120	392.651	-0.001	**0.591925**	0.00	0.7	ug/L
|	Sb	121	263.338	-0.001	**0.212126**	0.07	34.5	ug/L
\L	Sb	123	180.417	-0.001	**0.478827**	0.06	12.9	ug/L
⌈	Ba	135	14.000	0.000	**0.942886**	0.02	2.2	ug/L
|	Ba	137	23.333	0.000	**0.526016**	0.02	3.8	ug/L
|	Tb	159	145031.166	-0.014				ug/L
|>	Ho	165	154997.262	154997.262				ug/L
|	Tl	203	3.333	-0.000	**0.006752**	0.01	99.2	ug/L
|	Tl	205	13.333	0.000	**-0.028245**	0.00	7.2	ug/L
\L	Pb	208	66.667	0.000	**-0.054943**	0.00	6.8	ug/L
	Kr	83	14.267	-6.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.150	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.138	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.579	
Sn	120			
Sb	121			

00375

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	82.026
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: LCS-87095
Sample Date/Time: Monday, February 15, 2010 17:23:42
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\LCS-87095.107
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27680.672	0.012				ug/L
	Li	7	117070.700	0.361	**123.878804**	9.13	7.4	ug/L
	Be	9	24161.230	0.076	**111.599052**	7.11	6.4	ug/L
	B	11	31509.750	0.098	**114.273005**	7.01	6.1	ug/L
	Na	23	3282890.498	10.326	**5611.869721**	480.58	8.6	ug/L
	Mg	24	2353509.131	7.429	**5590.916468**	550.63	9.8	ug/L
	Al	27	7746820.221	24.416	**5661.363907**	297.13	5.2	ug/L
	K	39	7966781.093	24.964	**5983.669760**	430.28	7.2	ug/L
	Ca	43	23953.252	0.075	**5090.508519**	328.92	6.5	ug/L
>	Sc	45	317742.058	317742.058				ug/L
	Ti	49	12037.430	0.037	**103.024599**	9.94	9.7	ug/L
	Co	59	160711.668	0.507	**96.353498**	6.82	7.1	ug/L
	Ni	60	30626.877	0.097	**94.495160**	6.76	7.2	ug/L
	Ni	62	4616.053	0.014	**93.968622**	7.20	7.7	ug/L
	Cu	63	74007.240	0.233	**95.107561**	6.71	7.1	ug/L
	Cu	65	34611.036	0.109	**94.213732**	5.42	5.8	ug/L
	Zn	66	19587.582	0.061	**82.651054**	5.14	6.2	ug/L
	Zn	67	5177.745	0.013	**99.504224**	13.82	13.9	ug/L
	Zn	68	14047.498	0.044	**82.565366**	7.12	8.6	ug/L
	V	51	176699.917	0.558	**101.709322**	8.01	7.9	ug/L
	Cr	52	149546.607	0.462	**100.127690**	8.32	8.3	ug/L
	Cr	53	33559.753	0.062	**109.866042**	14.66	13.3	ug/L
	Mn	55	243952.914	0.769	**96.836910**	7.56	7.8	ug/L
	Fe	54	619127.193	1.919	**4854.613277**	420.86	8.7	ug/L
	Fe	57	242517.649	0.763	**4736.515353**	379.01	8.0	ug/L
	As	75	23886.719	0.063	**95.574709**	8.82	9.2	ug/L
	Se	77	10071.928	0.023	**460.940134**	28.03	6.1	ug/L
	Se	82	11171.204	0.029	**448.824159**	31.21	7.0	ug/L
	Sr	88	366080.070	0.954	**109.297462**	6.45	5.9	ug/L
>	Y	89	384089.633	384089.633				ug/L
	Mo	95	42373.799	0.110	**103.157126**	5.68	5.5	ug/L
	Mo	97	25927.657	0.068	**102.826260**	5.92	5.8	ug/L
	Mo	98	65487.601	0.171	**101.809156**	5.58	5.5	ug/L
	Ag	107	110869.399	0.723	**104.156262**	3.67	3.5	ug/L
	Ag	109	104857.260	0.683	**104.372198**	2.90	2.8	ug/L
	Cd	111	24971.812	0.163	**99.654517**	3.97	4.0	ug/L
	Cd	114	56785.788	0.370	**100.174015**	3.97	4.0	ug/L

00377

|>	In	115	153507.069	153507.069				ug/L
|	Sn	120	101176.791	0.656	**101.468299**	5.20	5.1	ug/L
|	Sb	121	76304.611	0.494	**106.913975**	3.08	2.9	ug/L
|	Sb	123	57694.618	0.374	**105.924063**	4.28	4.0	ug/L
⌈	Ba	135	19308.204	0.119	**100.407555**	2.92	2.9	ug/L
|	Ba	137	33419.118	0.207	**100.843446**	4.04	4.0	ug/L
|	Tb	159	151940.004	-0.010				ug/L
|>	Ho	165	161780.145	161780.145				ug/L
|	Tl	203	68114.290	0.421	**108.583020**	4.09	3.8	ug/L
|	Tl	205	166293.135	1.029	**109.374946**	5.56	5.1	ug/L
⌊	Pb	208	228283.322	1.412	**110.473726**	5.80	5.2	ug/L
	Kr	83	18.000	-2.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		88.877	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.357	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.876	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.616
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-08A
Sample Date/Time: Monday, February 15, 2010 17:26:22
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-08A.108
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28957.798	0.015				ug/L
|	Li	7	61684.455	0.182	**63.061249**	1.46	2.3	ug/L
|	Be	9	6.667	-0.000	**1.433167**	0.01	0.7	ug/L
|	B	11	26987.266	0.082	**95.790803**	1.32	1.4	ug/L
|	Na	23	238274710.611	735.414	**399275.301845**	16528.98	4.1	ug/L
|	Mg	24	15646859.201	48.293	**36317.443172**	738.93	2.0	ug/L
|	Al	27	38432.445	0.116	**42.109630**	0.24	0.6	ug/L
|	K	39	2735134.336	8.277	**1980.585704**	32.83	1.7	ug/L
|	Ca	43	265150.604	0.818	**55540.023841**	1591.01	2.9	ug/L
| >	Sc	45	323979.969	323979.969				ug/L
|	Ti	49	640.027	0.001	**1.715294**	0.40	23.6	ug/L
|	Co	59	274.672	0.001	**0.072640**	0.02	23.7	ug/L
|	Ni	60	396.010	0.001	**0.782659**	0.01	1.1	ug/L
|	Ni	62	61.334	0.000	**1.339203**	0.05	3.6	ug/L
|	Cu	63	2106.955	0.006	**1.987916**	0.05	2.7	ug/L
|	Cu	65	176.002	0.000	**0.024258**	0.08	311.5	ug/L
|	Zn	66	549.353	0.001	**1.546579**	0.16	10.3	ug/L
|	Zn	67	2130.962	0.003	**15.794560**	1.29	8.2	ug/L
|	Zn	68	1316.113	0.004	**6.471426**	0.59	9.1	ug/L
|	V	51	3823.384	0.012	**2.390336**	0.45	18.7	ug/L
|	Cr	52	3418.093	0.001	**0.085090**	0.09	101.0	ug/L
|	Cr	53	15568.408	0.004	**-1.233487**	1.46	118.2	ug/L
|	Mn	55	32881.467	0.101	**12.877407**	0.09	0.7	ug/L
|	Fe	54	17725.478	0.020	**51.882688**	1.12	2.2	ug/L
⌊	Fe	57	4157.790	0.011	**68.207076**	1.36	2.0	ug/L
⌈	As	75	-364.224	-0.001	**-0.394061**	0.84	213.1	ug/L
|	Se	77	2687.803	0.003	**60.157773**	3.72	6.2	ug/L
|	Se	82	43.309	0.000	**3.249154**	0.09	2.7	ug/L
|	Sr	88	1645381.442	4.190	**478.084314**	6.03	1.3	ug/L
| >	Y	89	392650.978	392650.978				ug/L
|	Mo	95	2822.518	0.007	**7.207411**	0.24	3.4	ug/L
|	Mo	97	1735.529	0.004	**7.425574**	0.22	3.0	ug/L
⌊	Mo	98	4368.427	0.011	**7.351336**	0.07	0.9	ug/L
⌈	Ag	107	17.333	0.000	**0.210556**	0.00	1.1	ug/L
|	Ag	109	24.667	0.000	**0.268787**	0.00	1.7	ug/L
|	Cd	111	7.167	0.000	**0.287789**	0.01	2.0	ug/L
|	Cd	114	17.432	0.000	**0.558030**	0.01	2.3	ug/L

00380

|>	In	115	154855.175	154855.175				ug/L
|	Sn	120	442.578	-0.000	**0.631397**	0.02	3.5	ug/L
|	Sb	121	459.347	0.000	**0.475933**	0.08	16.6	ug/L
|	Sb	123	381.003	-0.000	**0.834888**	0.09	10.7	ug/L
⌈	Ba	135	73611.255	0.450	**376.223103**	8.46	2.2	ug/L
|	Ba	137	126923.418	0.776	**377.504065**	9.32	2.5	ug/L
|	Tb	159	153394.396	-0.012				ug/L
|>	Ho	165	163510.954	163510.954				ug/L
|	Tl	203	186.002	0.001	**0.294658**	0.06	19.7	ug/L
|	Tl	205	395.344	0.002	**0.219856**	0.05	23.4	ug/L
⌊	Pb	208	526.007	0.003	**0.163172**	0.03	18.4	ug/L
	Kr	83	20.133	-0.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.622	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.282	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.586	
Sn	120			
Sb	121			

00381

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.532
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-08ASD
Sample Date/Time: Monday, February 15, 2010 17:29:03
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-08ASD.109
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31989.946	0.022				ug/L
|	Li	7	15839.646	0.039	**73.286838**	6.04	8.2	ug/L
|	Be	9	4.000	-0.000	**7.105341**	0.05	0.6	ug/L
|	B	11	6863.060	0.019	**119.294010**	4.52	3.8	ug/L
|	Na	23	51130608.914	154.860	**420410.499467**	14255.76	3.4	ug/L
|	Mg	24	3520739.691	10.668	**40132.404031**	2002.96	5.0	ug/L
|	Al	27	10328.606	0.029	**109.596549**	2.69	2.5	ug/L
|	K	39	597461.300	1.647	**1949.492132**	158.67	8.1	ug/L
|	Ca	43	56591.516	0.171	**58041.478344**	3273.26	5.6	ug/L
| >	Sc	45	330327.972	330327.972				ug/L
|	Ti	49	464.014	0.000	**0.565965**	1.98	350.5	ug/L
|	Co	59	82.667	0.000	**-0.205007**	0.02	8.0	ug/L
|	Ni	60	76.000	0.000	**-0.963169**	0.15	15.9	ug/L
|	Ni	62	28.000	-0.000	**3.334595**	0.47	14.0	ug/L
|	Cu	63	464.681	0.001	**-0.511945**	0.42	82.6	ug/L
|	Cu	65	56.000	0.000	**-1.500287**	0.24	15.8	ug/L
|	Zn	66	189.336	0.000	**0.147388**	0.81	549.9	ug/L
|	Zn	67	1773.538	0.002	**27.336140**	15.37	56.2	ug/L
|	Zn	68	478.682	0.001	**7.655838**	0.61	7.9	ug/L
|	V	51	1996.527	0.006	**6.750550**	1.80	26.7	ug/L
|	Cr	52	3396.750	0.001	**0.145306**	0.48	331.9	ug/L
|	Cr	53	17110.352	0.008	**30.063921**	18.07	60.1	ug/L
|	Mn	55	7405.564	0.022	**14.719094**	0.71	4.8	ug/L
|	Fe	54	12263.379	0.002	**37.440490**	20.85	55.7	ug/L
⌊	Fe	57	1426.132	0.003	**76.822012**	1.27	1.7	ug/L
⌈	As	75	-442.435	-0.001	**-3.418698**	1.08	31.6	ug/L
|	Se	77	1968.252	0.001	**108.926650**	23.33	21.4	ug/L
|	Se	82	11.194	0.000	**9.955729**	0.20	2.0	ug/L
|	Sr	88	326207.009	0.827	**473.982788**	20.45	4.3	ug/L
| >	Y	89	394682.418	394682.418				ug/L
|	Mo	95	559.354	0.001	**9.213375**	0.90	9.7	ug/L
|	Mo	97	345.341	0.001	**10.348135**	1.05	10.1	ug/L
⌊	Mo	98	915.982	0.002	**10.687662**	0.47	4.4	ug/L
⌈	Ag	107	6.667	0.000	**1.002522**	0.00	0.5	ug/L
|	Ag	109	8.667	0.000	**1.264446**	0.01	0.9	ug/L
|	Cd	111	2.500	0.000	**1.345862**	0.03	1.9	ug/L
|	Cd	114	4.717	0.000	**2.679894**	0.03	1.3	ug/L

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|>	In	115	157738.566	157738.566				ug/L
|	Sn	120	435.320	-0.000	**3.081331**	0.14	4.6	ug/L
|	Sb	121	287.339	-0.001	**1.151624**	0.14	12.3	ug/L
L	Sb	123	191.084	-0.001	**2.424156**	0.09	3.6	ug/L
⌈	Ba	135	14600.511	0.091	**382.269578**	10.08	2.6	ug/L
|	Ba	137	25496.864	0.158	**386.711350**	9.73	2.5	ug/L
|	Tb	159	152261.808	-0.005				ug/L
|>	Ho	165	161082.068	161082.068				ug/L
|	Tl	203	21.333	0.000	**0.177225**	0.05	26.4	ug/L
|	Tl	205	62.667	0.000	**0.020040**	0.07	368.1	ug/L
L	Pb	208	118.000	0.001	**-0.156740**	0.03	16.6	ug/L
	Kr	83	17.733	-2.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.398	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.739	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		83.105	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.246
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-08AMS
Sample Date/Time: Monday, February 15, 2010 17:31:43
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-08AMS.110
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24006.140	-0.000				ug/L
|	Li	7	172908.851	0.527	**180.399272**	8.68	4.8	ug/L
|	Be	9	21730.657	0.067	**98.720672**	3.37	3.4	ug/L
|	B	11	54642.745	0.168	**194.627795**	5.54	2.8	ug/L
|	Na	23	243810550.863	754.968	**409891.146533**	16970.57	4.1	ug/L
|	Mg	24	18122707.604	56.115	**42199.190842**	2152.53	5.1	ug/L
|	Al	27	6979709.113	21.609	**5012.249273**	159.50	3.2	ug/L
|	K	39	10054722.851	30.968	**7424.126191**	337.59	4.5	ug/L
|	Ca	43	290805.918	0.900	**61103.815539**	1640.96	2.7	ug/L
| >	Sc	45	323091.446	323091.446				ug/L
|	Ti	49	11265.580	0.034	**94.247768**	0.66	0.7	ug/L
|	Co	59	143762.434	0.445	**84.617518**	3.98	4.7	ug/L
|	Ni	60	26389.875	0.082	**79.867299**	3.23	4.0	ug/L
|	Ni	62	4159.796	0.013	**83.204472**	7.67	9.2	ug/L
|	Cu	63	63871.427	0.198	**80.485753**	2.24	2.8	ug/L
|	Cu	65	29527.231	0.091	**78.855545**	1.87	2.4	ug/L
|	Zn	66	17108.342	0.053	**70.789919**	2.64	3.7	ug/L
|	Zn	67	4750.800	0.011	**85.469278**	2.56	3.0	ug/L
|	Zn	68	13450.416	0.041	**77.502944**	2.08	2.7	ug/L
|	V	51	166112.793	0.514	**93.852952**	1.09	1.2	ug/L
|	Cr	52	134917.093	0.408	**88.379148**	1.16	1.3	ug/L
|	Cr	53	30691.784	0.051	**89.037351**	4.68	5.3	ug/L
|	Mn	55	249568.493	0.772	**97.209139**	2.07	2.1	ug/L
|	Fe	54	548751.589	1.664	**4210.132928**	75.47	1.8	ug/L
⌊	Fe	57	220965.521	0.682	**4233.956352**	108.34	2.6	ug/L
⌈	As	75	22045.841	0.057	**86.968412**	2.20	2.5	ug/L
|	Se	77	9843.628	0.022	**441.010424**	4.08	0.9	ug/L
|	Se	82	10132.460	0.026	**401.240701**	8.82	2.2	ug/L
|	Sr	88	1967018.867	5.051	**576.076507**	5.59	1.0	ug/L
| >	Y	89	389449.913	389449.913				ug/L
|	Mo	95	42973.733	0.110	**103.083510**	1.29	1.3	ug/L
|	Mo	97	26327.011	0.068	**102.893923**	3.98	3.9	ug/L
⌊	Mo	98	66659.398	0.171	**102.128291**	1.65	1.6	ug/L
⌈	Ag	107	93650.031	0.610	**87.934637**	0.44	0.5	ug/L
|	Ag	109	87896.679	0.572	**87.473230**	0.97	1.1	ug/L
|	Cd	111	21817.064	0.142	**87.029292**	1.53	1.8	ug/L
|	Cd	114	49167.494	0.320	**86.724795**	1.10	1.3	ug/L

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|>	In	115	153577.500	153577.500				ug/L
|	Sn	120	95588.922	0.619	**95.777413**	1.13	1.2	ug/L
|	Sb	121	71827.174	0.465	**100.551663**	0.54	0.5	ug/L
L	Sb	123	54699.665	0.354	**100.338167**	0.71	0.7	ug/L
⌈	Ba	135	94078.516	0.575	**479.905656**	5.02	1.0	ug/L
|	Ba	137	163461.900	0.998	**485.373831**	6.50	1.3	ug/L
|	Tb	159	154766.916	-0.005				ug/L
|>	Ho	165	163744.850	163744.850				ug/L
|	Tl	203	58627.300	0.358	**92.297412**	2.05	2.2	ug/L
|	Tl	205	140687.709	0.859	**91.351615**	0.67	0.7	ug/L
L	Pb	208	195519.044	1.194	**93.405016**	1.00	1.1	ug/L
	Kr	83	22.333	1.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.374	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.563	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.913	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.656
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-08AMSD
Sample Date/Time: Monday, February 15, 2010 17:34:24
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-08AMSD.111
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25416.948	0.005				ug/L
|	Li	7	149370.057	0.460	**157.504158**	5.69	3.6	ug/L
|	Be	9	19451.919	0.061	**89.611480**	5.07	5.7	ug/L
|	B	11	49116.180	0.153	**177.133633**	14.82	8.4	ug/L
|	Na	23	217299248.389	681.006	**369735.933143**	14134.98	3.8	ug/L
|	Mg	24	16099298.503	50.465	**37950.359197**	1642.91	4.3	ug/L
|	Al	27	6127296.901	19.204	**4456.184746**	172.87	3.9	ug/L
|	K	39	9046591.504	28.207	**6761.847422**	501.36	7.4	ug/L
|	Ca	43	256347.926	0.803	**54531.340455**	2627.19	4.8	ug/L
| >	Sc	45	319203.992	319203.992				ug/L
|	Ti	49	10037.214	0.030	**84.687007**	4.31	5.1	ug/L
|	Co	59	124754.660	0.391	**74.324658**	3.61	4.9	ug/L
|	Ni	60	23298.567	0.073	**71.321617**	2.10	2.9	ug/L
|	Ni	62	3579.500	0.011	**72.468222**	3.48	4.8	ug/L
|	Cu	63	55874.252	0.175	**71.206204**	3.00	4.2	ug/L
|	Cu	65	25531.652	0.080	**68.987229**	3.24	4.7	ug/L
|	Zn	66	15064.073	0.047	**63.014997**	2.47	3.9	ug/L
|	Zn	67	4205.150	0.009	**72.392085**	4.96	6.9	ug/L
|	Zn	68	11567.368	0.036	**67.332048**	4.02	6.0	ug/L
|	V	51	144549.996	0.453	**82.732818**	3.18	3.8	ug/L
|	Cr	52	118189.893	0.361	**78.154766**	3.12	4.0	ug/L
|	Cr	53	27487.029	0.042	**72.005445**	6.00	8.3	ug/L
|	Mn	55	216243.079	0.677	**85.309786**	3.83	4.5	ug/L
|	Fe	54	485192.789	1.486	**3760.532610**	169.29	4.5	ug/L
⌊	Fe	57	193602.062	0.605	**3754.643251**	159.03	4.2	ug/L
⌈	As	75	19502.821	0.051	**77.624853**	1.39	1.8	ug/L
|	Se	77	8649.531	0.019	**381.152733**	18.82	4.9	ug/L
|	Se	82	8996.791	0.023	**359.166468**	7.71	2.1	ug/L
|	Sr	88	1728649.750	4.472	**510.146847**	6.51	1.3	ug/L
| >	Y	89	386617.640	386617.640				ug/L
|	Mo	95	37658.629	0.097	**91.081831**	1.48	1.6	ug/L
|	Mo	97	22710.810	0.059	**89.530204**	2.18	2.4	ug/L
⌊	Mo	98	58414.377	0.151	**90.265783**	1.91	2.1	ug/L
⌈	Ag	107	80828.447	0.529	**76.252507**	1.91	2.5	ug/L
|	Ag	109	76085.771	0.498	**76.068941**	1.43	1.9	ug/L
|	Cd	111	18972.202	0.124	**76.030368**	1.76	2.3	ug/L
|	Cd	114	42802.901	0.280	**75.889383**	1.41	1.9	ug/L

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|>	In	115	152955.401	152955.401				ug/L
|	Sn	120	81921.185	0.533	**82.466537**	2.17	2.6	ug/L
|	Sb	121	61332.889	0.398	**86.218108**	2.55	3.0	ug/L
_	Sb	123	47158.794	0.306	**86.913697**	2.85	3.3	ug/L
⌈	Ba	135	80123.883	0.499	**417.314977**	16.49	4.0	ug/L
|	Ba	137	137631.190	0.858	**417.174363**	15.20	3.6	ug/L
|	Tb	159	151864.893	-0.004				ug/L
|>	Ho	165	160488.035	160488.035				ug/L
|	Tl	203	50434.841	0.314	**81.041041**	3.08	3.8	ug/L
|	Tl	205	123630.995	0.771	**81.921932**	2.08	2.5	ug/L
_	Pb	208	168649.828	1.051	**82.215406**	2.73	3.3	ug/L
	Kr	83	20.200	-0.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.286	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.926	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.585	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.932
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-08APDS
Sample Date/Time: Monday, February 15, 2010 17:37:05
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-08APDS.112
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28397.486	0.011				ug/L
|	Li	7	126509.426	0.373	**640.717348**	24.75	3.9	ug/L
|	Be	9	24477.578	0.074	**541.335028**	28.25	5.2	ug/L
|	B	11	37452.337	0.112	**649.818044**	19.95	3.1	ug/L
|	Na	23	53022604.949	160.064	**434536.962392**	29513.46	6.8	ug/L
|	Mg	24	5699282.061	17.205	**64708.710695**	3630.32	5.6	ug/L
|	Al	27	7501075.621	22.637	**26250.202088**	1132.18	4.3	ug/L
|	K	39	8642182.851	25.920	**31066.080031**	1436.43	4.6	ug/L
|	Ca	43	79132.975	0.238	**80888.919195**	2422.30	3.0	ug/L
| >	Sc	45	331529.672	331529.672				ug/L
|	Ti	49	11576.706	0.034	**472.234925**	16.54	3.5	ug/L
|	Co	59	153665.519	0.464	**440.810964**	20.07	4.6	ug/L
|	Ni	60	29257.550	0.088	**431.722087**	18.55	4.3	ug/L
|	Ni	62	4593.372	0.014	**447.508980**	18.99	4.2	ug/L
|	Cu	63	70288.454	0.212	**431.991586**	19.84	4.6	ug/L
|	Cu	65	33120.497	0.100	**431.353244**	17.16	4.0	ug/L
|	Zn	66	20687.796	0.062	**417.865693**	19.86	4.8	ug/L
|	Zn	67	5030.978	0.011	**447.778044**	25.85	5.8	ug/L
|	Zn	68	15005.298	0.045	**422.007670**	22.09	5.2	ug/L
|	V	51	170786.801	0.516	**470.462459**	20.55	4.4	ug/L
|	Cr	52	141644.601	0.418	**452.659060**	20.47	4.5	ug/L
|	Cr	53	31384.566	0.051	**442.278965**	30.70	6.9	ug/L
|	Mn	55	237509.532	0.716	**451.110141**	23.11	5.1	ug/L
|	Fe	54	598781.026	1.773	**22427.096333**	1195.77	5.3	ug/L
⌊	Fe	57	240118.554	0.723	**22433.088877**	1125.37	5.0	ug/L
⌈	As	75	25246.640	0.065	**498.820908**	18.74	3.8	ug/L
|	Se	77	10335.606	0.023	**2344.144187**	46.67	2.0	ug/L
|	Se	82	12019.875	0.031	**2385.988114**	22.76	1.0	ug/L
|	Sr	88	660519.024	1.701	**972.271369**	14.64	1.5	ug/L
| >	Y	89	388244.045	388244.045				ug/L
|	Mo	95	42066.744	0.108	**506.208419**	12.60	2.5	ug/L
|	Mo	97	25547.690	0.066	**500.837347**	6.46	1.3	ug/L
⌊	Mo	98	64489.986	0.166	**495.668664**	8.66	1.7	ug/L
⌈	Ag	107	104304.511	0.668	**481.500442**	15.32	3.2	ug/L
|	Ag	109	97421.805	0.624	**476.592041**	15.18	3.2	ug/L
|	Cd	111	24466.021	0.157	**479.717787**	15.99	3.3	ug/L
|	Cd	114	54962.450	0.352	**476.478116**	17.24	3.6	ug/L

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|>	In	115	156208.095	156208.095				ug/L
|	Sn	120	98256.770	0.626	**484.199249**	25.93	5.4	ug/L
|	Sb	121	73743.339	0.469	**507.723511**	23.56	4.6	ug/L
|	Sb	123	55987.600	0.356	**505.099721**	25.40	5.0	ug/L
|	Ba	135	33053.548	0.200	**838.949677**	28.66	3.4	ug/L
|	Ba	137	56334.924	0.341	**830.959878**	28.52	3.4	ug/L
|	Tb	159	153968.627	-0.017				ug/L
|>	Ho	165	165137.322	165137.322				ug/L
|	Tl	203	63349.911	0.384	**494.584377**	20.10	4.1	ug/L
|	Tl	205	153390.745	0.929	**493.945903**	17.60	3.6	ug/L
|	Pb	208	208943.889	1.266	**495.004432**	18.58	3.8	ug/L
	Kr	83	17.400	-3.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.734	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.292	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		82.299	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.392
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-08APDSD
Sample Date/Time: Monday, February 15, 2010 17:39:46
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-08APDSD.113
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27594.185	0.010				ug/L
|	Li	7	133192.267	0.401	**687.741884**	13.66	2.0	ug/L
|	Be	9	25284.835	0.078	**569.233694**	17.42	3.1	ug/L
|	B	11	38232.895	0.116	**676.005268**	29.72	4.4	ug/L
|	Na	23	54108750.822	166.339	**451572.453202**	10741.25	2.4	ug/L
|	Mg	24	5966543.298	18.345	**68994.121005**	1797.79	2.6	ug/L
|	Al	27	7914620.763	24.331	**28208.388945**	556.13	2.0	ug/L
|	K	39	9123126.246	27.886	**33423.813021**	647.44	1.9	ug/L
|	Ca	43	79665.484	0.244	**82964.747989**	3189.19	3.8	ug/L
| >	Sc	45	325336.758	325336.758				ug/L
|	Ti	49	12006.030	0.036	**500.014229**	9.08	1.8	ug/L
|	Co	59	159602.888	0.491	**466.342525**	5.65	1.2	ug/L
|	Ni	60	30492.991	0.094	**458.485548**	10.43	2.3	ug/L
|	Ni	62	4552.013	0.014	**451.855460**	16.05	3.6	ug/L
|	Cu	63	72198.600	0.222	**452.197407**	12.28	2.7	ug/L
|	Cu	65	33740.504	0.104	**447.734962**	8.59	1.9	ug/L
|	Zn	66	21177.126	0.065	**435.786297**	9.20	2.1	ug/L
|	Zn	67	5093.686	0.012	**468.116751**	7.86	1.7	ug/L
|	Zn	68	15394.056	0.047	**441.331372**	13.40	3.0	ug/L
|	V	51	180444.935	0.555	**506.214528**	13.09	2.6	ug/L
|	Cr	52	148045.183	0.446	**482.601157**	7.24	1.5	ug/L
|	Cr	53	31586.068	0.053	**465.219074**	17.32	3.7	ug/L
|	Mn	55	249750.802	0.767	**483.057139**	7.54	1.6	ug/L
|	Fe	54	625509.852	1.888	**23885.633572**	339.66	1.4	ug/L
⌊	Fe	57	249406.632	0.765	**23734.274412**	419.71	1.8	ug/L
⌈	As	75	26257.558	0.069	**524.485242**	12.89	2.5	ug/L
|	Se	77	10621.999	0.024	**2453.609481**	56.01	2.3	ug/L
|	Se	82	12429.046	0.032	**2496.133448**	35.04	1.4	ug/L
|	Sr	88	682182.908	1.778	**1015.940415**	26.09	2.6	ug/L
| >	Y	89	383715.252	383715.252				ug/L
|	Mo	95	43716.607	0.114	**532.092912**	10.89	2.0	ug/L
|	Mo	97	26690.241	0.070	**529.197283**	8.62	1.6	ug/L
⌊	Mo	98	68313.565	0.178	**530.988312**	7.65	1.4	ug/L
⌈	Ag	107	107424.297	0.699	**503.991015**	18.43	3.7	ug/L
|	Ag	109	100641.454	0.655	**500.336968**	16.90	3.4	ug/L
|	Cd	111	25172.959	0.164	**501.617505**	18.59	3.7	ug/L
|	Cd	114	56647.162	0.369	**499.014481**	18.79	3.8	ug/L

|>	In	115	153730.486	153730.486				ug/L
|	Sn	120	103525.373	0.671	**518.390909**	21.76	4.2	ug/L
|	Sb	121	77815.685	0.504	**544.584700**	23.19	4.3	ug/L
L	Sb	123	59066.048	0.382	**541.568128**	25.00	4.6	ug/L
⌈	Ba	135	33739.837	0.206	**864.035163**	41.91	4.9	ug/L
|	Ba	137	58359.916	0.357	**868.537793**	42.40	4.9	ug/L
|	Tb	159	151521.991	-0.025				ug/L
|>	Ho	165	163800.670	163800.670				ug/L
|	Tl	203	66242.031	0.405	**521.680800**	20.56	3.9	ug/L
|	Tl	205	161608.660	0.988	**524.994024**	19.37	3.7	ug/L
L	Pb	208	221328.506	1.352	**529.026704**	21.05	4.0	ug/L
	Kr	83	19.800	-0.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.002	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.273	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.993	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.685
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 17:42:29
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.114
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28478.838	0.010				ug/L
|	Li	7	118566.169	0.344	**118.059717**	1.07	0.9	ug/L
|	Be	9	26578.511	0.079	**115.572579**	1.80	1.6	ug/L
|	B	11	34122.887	0.100	**116.546161**	2.29	2.0	ug/L
|	Na	23	3524864.528	10.437	**5672.218342**	242.60	4.3	ug/L
|	Mg	24	2529457.748	7.514	**5654.609840**	227.11	4.0	ug/L
|	Al	27	7966644.064	23.656	**5485.575152**	57.54	1.0	ug/L
|	K	39	8696057.760	25.665	**6152.041355**	178.94	2.9	ug/L
|	Ca	43	24889.540	0.073	**4981.305157**	59.98	1.2	ug/L
| >	Sc	45	336719.581	336719.581				ug/L
|	Ti	49	12118.209	0.035	**97.412250**	2.51	2.6	ug/L
|	Co	59	165573.865	0.492	**93.472232**	1.03	1.1	ug/L
|	Ni	60	32004.453	0.095	**92.980856**	2.33	2.5	ug/L
|	Ni	62	4780.152	0.014	**91.647373**	2.65	2.9	ug/L
|	Cu	63	76755.769	0.228	**92.883778**	1.32	1.4	ug/L
|	Cu	65	36316.218	0.108	**93.126335**	2.46	2.6	ug/L
|	Zn	66	23204.289	0.069	**92.324859**	2.57	2.8	ug/L
|	Zn	67	5225.776	0.012	**92.404671**	3.09	3.3	ug/L
|	Zn	68	16735.529	0.049	**92.734709**	2.67	2.9	ug/L
|	V	51	180546.632	0.537	**97.862533**	0.78	0.8	ug/L
|	Cr	52	151631.453	0.441	**95.478522**	1.49	1.6	ug/L
|	Cr	53	31561.966	0.050	**86.571434**	2.80	3.2	ug/L
|	Mn	55	249536.983	0.741	**93.263498**	1.59	1.7	ug/L
|	Fe	54	635770.896	1.854	**4689.499236**	53.39	1.1	ug/L
⌊	Fe	57	254432.906	0.754	**4678.193946**	76.50	1.6	ug/L
⌜	As	75	27211.788	0.068	**104.142406**	1.55	1.5	ug/L
|	Se	77	11084.648	0.024	**490.606171**	12.96	2.6	ug/L
|	Se	82	13473.545	0.034	**518.380867**	10.57	2.0	ug/L
|	Sr	88	353222.723	0.882	**101.062293**	1.01	1.0	ug/L
| >	Y	89	400653.090	400653.090				ug/L
|	Mo	95	43256.658	0.108	**100.883589**	0.65	0.6	ug/L
|	Mo	97	26215.936	0.065	**99.626139**	1.23	1.2	ug/L
⌊	Mo	98	66717.314	0.167	**99.423036**	3.05	3.1	ug/L
⌜	Ag	107	114700.845	0.698	**100.572626**	1.35	1.3	ug/L
|	Ag	109	108155.717	0.658	**100.492231**	1.07	1.1	ug/L
|	Cd	111	27365.592	0.166	**101.904364**	0.94	0.9	ug/L
|	Cd	114	61601.027	0.375	**101.398302**	1.26	1.2	ug/L

|>	In	115	164420.640	164420.640				ug/L
|	Sn	120	105526.251	0.639	**98.749803**	1.19	1.2	ug/L
|	Sb	121	74976.407	0.453	**98.028185**	1.81	1.8	ug/L
\L	Sb	123	56674.944	0.342	**97.110799**	1.04	1.1	ug/L
|	Ba	135	19729.942	0.116	**97.313587**	0.85	0.9	ug/L
|	Ba	137	33869.761	0.199	**96.900610**	0.70	0.7	ug/L
|	Tb	159	159838.044	-0.013				ug/L
|>	Ho	165	170546.203	170546.203				ug/L
|	Tl	203	69434.730	0.407	**104.936867**	1.23	1.2	ug/L
|	Tl	205	168715.080	0.989	**105.171942**	1.83	1.7	ug/L
\L	Pb	208	229955.518	1.348	**105.467925**	2.39	2.3	ug/L
	Kr	83	18.400	-2.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	118.060		
Be	9	115.573		
B	11	116.546		
Na	23	113.444		
Mg	24	113.092		
Al	27	107.560		
K	39	123.041		
Ca	43	99.626		
Sc	45		94.186	
Ti	49	97.412		
Co	59	93.472		
Ni	60	92.981		
Ni	62	91.647		
Cu	63	92.884		
Cu	65	93.126		
Zn	66	92.325		
Zn	67	92.405		
Zn	68	92.735		
V	51	97.863		
Cr	52	95.479		
Cr	53	86.571		
Mn	55	93.263		
Fe	54	93.790		
Fe	57	93.564		
As	75	104.142		
Se	77	98.121		
Se	82	103.676		
Sr	88	101.062		
Y	89		90.082	
Mo	95	100.884		
Mo	97	99.626		
Mo	98	99.423		
Ag	107	100.573		
Ag	109	100.492		
Cd	111	101.904		
Cd	114	101.398		
In	115		86.625	
Sn	120	98.750		
Sb	121	98.028		

Sb	123	97.111	
Ba	135	97.314	
Ba	137	96.901	
Tb	159		
Ho	165		90.255
Tl	203	104.937	
Tl	205	105.172	
Pb	208	105.468	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 17:45:10
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.115
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32997.769	0.023				ug/L
|	Li	7	3601.510	0.002	**1.951721**	0.14	7.0	ug/L
|	Be	9	10.000	0.000	**1.446059**	0.02	1.2	ug/L
|	B	11	1442.136	0.003	**4.837077**	0.41	8.4	ug/L
|	Na	23	18321.877	0.020	**16.886700**	2.93	17.4	ug/L
|	Mg	24	866.722	0.002	**6.174225**	0.85	13.8	ug/L
|	Al	27	3354.076	0.008	**16.979152**	0.42	2.5	ug/L
|	K	39	61545.397	0.018	**-0.966901**	2.27	234.6	ug/L
|	Ca	43	148.001	-0.000	**-8.823556**	1.97	22.3	ug/L
| >	Sc	45	338187.946	338187.946				ug/L
|	Ti	49	449.347	-0.000	**-0.108876**	0.38	352.1	ug/L
|	Co	59	56.000	0.000	**-0.056915**	0.01	19.6	ug/L
|	Ni	60	18.000	0.000	**-0.365758**	0.01	3.6	ug/L
|	Ni	62	29.333	-0.000	**0.674999**	0.30	44.1	ug/L
|	Cu	63	396.010	0.001	**-0.200887**	0.02	8.8	ug/L
|	Cu	65	168.002	0.000	**-0.014968**	0.12	806.0	ug/L
|	Zn	66	141.335	0.000	**-0.179138**	0.03	17.0	ug/L
|	Zn	67	1673.516	0.001	**1.896112**	3.52	185.8	ug/L
|	Zn	68	150.668	-0.000	**-0.362447**	0.14	39.7	ug/L
|	V	51	1366.291	0.004	**0.979077**	0.20	20.5	ug/L
|	Cr	52	3173.988	-0.000	**-0.167303**	0.04	22.1	ug/L
|	Cr	53	15381.367	0.001	**-6.138472**	2.67	43.5	ug/L
|	Mn	55	261.338	0.000	**0.221066**	0.01	4.8	ug/L
|	Fe	54	11118.572	-0.002	**-3.308392**	2.14	64.8	ug/L
⌊	Fe	57	646.694	0.000	**0.431818**	0.23	54.1	ug/L
⌈	As	75	-238.291	-0.000	**0.109101**	0.67	610.1	ug/L
|	Se	77	1594.832	0.000	**1.209819**	1.09	89.9	ug/L
|	Se	82	7.139	0.000	**1.829099**	0.20	11.2	ug/L
|	Sr	88	166.668	0.000	**0.645672**	0.01	0.9	ug/L
| >	Y	89	399527.163	399527.163				ug/L
|	Mo	95	98.001	0.000	**0.752227**	0.05	6.3	ug/L
|	Mo	97	54.000	0.000	**0.950278**	0.04	3.7	ug/L
⌊	Mo	98	135.928	0.000	**0.964087**	0.05	5.1	ug/L
⌈	Ag	107	17.333	0.000	**0.209700**	0.00	0.3	ug/L
|	Ag	109	20.667	0.000	**0.263826**	0.00	1.8	ug/L
|	Cd	111	5.833	0.000	**0.281194**	0.01	3.8	ug/L
|	Cd	114	11.263	0.000	**0.546433**	0.01	1.4	ug/L

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|>	In	115	163211.139	163211.139				ug/L
|	Sn	120	509.325	-0.000	**0.672267**	0.03	5.2	ug/L
|	Sb	121	1461.474	0.006	**1.768393**	0.25	14.4	ug/L
|	Sb	123	1134.499	0.004	**2.101043**	0.12	5.9	ug/L
|	Ba	135	14.667	0.000	**0.940564**	0.02	2.6	ug/L
|	Ba	137	24.667	0.000	**0.524054**	0.04	7.8	ug/L
|	Tb	159	158160.371	-0.004				ug/L
|>	Ho	165	167307.850	167307.850				ug/L
|	Tl	203	74.000	0.000	**0.115577**	0.02	20.0	ug/L
|	Tl	205	142.668	0.001	**0.053700**	0.02	42.6	ug/L
|	Pb	208	115.334	0.001	**-0.034587**	0.01	18.1	ug/L
	Kr	83	16.333	-4.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.597	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.828	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.988	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.541
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-01A
Sample Date/Time: Monday, February 15, 2010 17:47:53
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-01A.116
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	33210.854	0.026				ug/L
|	Li	7	22767.661	0.061	**21.871160**	0.67	3.1	ug/L
|	Be	9	4.667	-0.000	**1.423912**	0.01	0.4	ug/L
|	B	11	31673.074	0.095	**110.778280**	0.37	0.3	ug/L
|	Na	23	30190183.655	91.785	**49837.307399**	1876.66	3.8	ug/L
|	Mg	24	1560980.003	4.747	**3573.859116**	69.36	1.9	ug/L
|	Al	27	31196.474	0.093	**36.617566**	0.39	1.1	ug/L
|	K	39	1559207.891	4.578	**1093.008087**	43.52	4.0	ug/L
|	Ca	43	33251.720	0.101	**6828.694652**	96.06	1.4	ug/L
| >	Sc	45	328829.013	328829.013				ug/L
|	Ti	49	667.362	0.001	**1.865672**	0.19	10.0	ug/L
|	Co	59	265.338	0.001	**0.064974**	0.03	43.2	ug/L
|	Ni	60	131.334	0.000	**-0.025867**	0.04	142.4	ug/L
|	Ni	62	40.000	0.000	**0.903213**	0.14	15.3	ug/L
|	Cu	63	644.027	0.002	**0.122556**	0.03	27.7	ug/L
|	Cu	65	189.336	0.000	**0.052776**	0.05	86.7	ug/L
|	Zn	66	480.015	0.001	**1.227756**	0.05	4.1	ug/L
|	Zn	67	1993.593	0.002	**11.397555**	4.54	39.9	ug/L
|	Zn	68	570.688	0.001	**2.075753**	0.37	17.7	ug/L
|	V	51	6924.174	0.021	**4.076062**	0.66	16.3	ug/L
|	Cr	52	3917.667	0.002	**0.381585**	0.18	47.0	ug/L
|	Cr	53	17682.345	0.010	**9.778502**	6.40	65.4	ug/L
|	Mn	55	60990.265	0.185	**23.433370**	0.67	2.9	ug/L
|	Fe	54	19864.661	0.026	**66.307115**	3.22	4.9	ug/L
⌞	Fe	57	2588.435	0.006	**37.418172**	0.65	1.7	ug/L
⌜	As	75	-181.229	-0.000	**0.299505**	0.26	85.4	ug/L
|	Se	77	2080.283	0.002	**30.908202**	10.26	33.2	ug/L
|	Se	82	10.325	0.000	**1.969392**	0.02	1.1	ug/L
|	Sr	88	178084.035	0.465	**53.568331**	2.28	4.2	ug/L
| >	Y	89	383158.602	383158.602				ug/L
|	Mo	95	5115.034	0.013	**12.933187**	0.24	1.9	ug/L
|	Mo	97	3064.611	0.008	**12.832098**	0.37	2.9	ug/L
⌞	Mo	98	7928.010	0.021	**13.016503**	0.15	1.2	ug/L
⌜	Ag	107	7.333	0.000	**0.201464**	0.00	1.5	ug/L
|	Ag	109	7.333	0.000	**0.251832**	0.01	2.2	ug/L
|	Cd	111	6.333	0.000	**0.285396**	0.01	2.9	ug/L
|	Cd	114	18.219	0.000	**0.560430**	0.01	1.0	ug/L

|>	In	115	150213.088	150213.088				ug/L
|	Sn	120	411.319	-0.001	**0.614203**	0.05	7.8	ug/L
|	Sb	121	508.684	0.000	**0.567740**	0.08	13.3	ug/L
L	Sb	123	421.093	0.000	**0.931940**	0.07	7.4	ug/L
⌈	Ba	135	8491.351	0.053	**45.017458**	0.95	2.1	ug/L
|	Ba	137	14700.034	0.092	**44.977672**	0.88	2.0	ug/L
|	Tb	159	150371.265	-0.012				ug/L
|>	Ho	165	160400.537	160400.537				ug/L
|	Tl	203	21.333	0.000	**0.035474**	0.02	43.3	ug/L
|	Tl	205	47.333	0.000	**-0.005939**	0.01	122.3	ug/L
L	Pb	208	1212.037	0.007	**0.503535**	0.04	8.5	ug/L
	Kr	83	18.067	-2.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.979	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.148	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.140	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.886
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-02A
Sample Date/Time: Monday, February 15, 2010 17:50:34
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-02A.117
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21381.037	-0.017				ug/L
|	Li	7	202975.996	0.539	**184.584588**	6.67	3.6	ug/L
|	Be	9	4775.484	0.013	**20.044695**	0.91	4.5	ug/L
|	B	11	63414.632	0.170	**196.855787**	7.23	3.7	ug/L
|	Na	23	167114637.493	451.006	**244864.793113**	10839.03	4.4	ug/L
|	Mg	24	31331421.677	84.567	**63592.449241**	2587.35	4.1	ug/L
|	Al	27	254136338.100	685.847	**158617.122148**	4498.62	2.8	ug/L
|	K	39	7025704.354	18.808	**4507.016663**	276.80	6.1	ug/L
|	Ca	43	350315.391	0.945	**64153.638310**	1886.67	2.9	ug/L
| >	Sc	45	370655.549	370655.549				ug/L
|	Ti	49	2745.825	0.006	**17.016704**	1.69	10.0	ug/L
|	Co	59	254471.135	0.687	**130.597476**	3.77	2.9	ug/L
|	Ni	60	61023.851	0.165	**161.389222**	3.60	2.2	ug/L
|	Ni	62	9619.345	0.026	**167.540145**	5.30	3.2	ug/L
|	Cu	63	2028.268	0.005	**1.564813**	0.03	2.2	ug/L
|	Cu	65	1434.800	0.004	**2.913250**	0.10	3.6	ug/L
|	Zn	66	64243.214	0.173	**233.369210**	4.10	1.8	ug/L
|	Zn	67	12259.096	0.029	**242.971816**	5.24	2.2	ug/L
|	Zn	68	45085.142	0.121	**228.725119**	3.75	1.6	ug/L
|	V	51	202138.183	0.546	**99.555010**	1.37	1.4	ug/L
|	Cr	52	108868.540	0.284	**61.524945**	1.15	1.9	ug/L
|	Cr	53	27103.696	0.029	**46.965796**	2.08	4.4	ug/L
|	Mn	55	10053530.765	27.132	**3409.746912**	88.98	2.6	ug/L
|	Fe	54	21476146.721	57.920	**146497.482894**	3605.78	2.5	ug/L
⌊	Fe	57	8795584.405	23.736	**147292.622969**	4791.12	3.3	ug/L
⌈	As	75	2001.013	0.001	**2.655482**	0.13	4.8	ug/L
|	Se	77	2657.793	-0.002	**-51.680962**	1.58	3.1	ug/L
|	Se	82	64.594	0.000	**2.089922**	0.06	2.7	ug/L
|	Sr	88	2935343.787	1.582	**180.819511**	2.90	1.6	ug/L
| >	Y	89	1855503.976	1855503.976				ug/L
|	Mo	95	538.686	0.000	**0.793798**	0.00	0.5	ug/L
|	Mo	97	337.341	0.000	**1.020538**	0.02	2.4	ug/L
⌊	Mo	98	840.566	0.000	**1.031009**	0.01	0.7	ug/L
⌈	Ag	107	104.001	0.001	**0.278335**	0.01	2.0	ug/L
|	Ag	109	34.000	0.000	**0.273486**	0.00	1.5	ug/L
|	Cd	111	143.668	0.001	**0.751251**	0.02	2.4	ug/L
|	Cd	114	332.223	0.002	**1.028870**	0.02	1.9	ug/L

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|>	In	115	178462.754	178462.754				ug/L
|	Sn	120	520.532	-0.000	**0.640289**	0.03	4.5	ug/L
|	Sb	121	510.017	-0.000	**0.452991**	0.01	3.1	ug/L
L	Sb	123	424.501	-0.000	**0.812495**	0.04	4.3	ug/L
⌈	Ba	135	3532.811	0.014	**12.271823**	0.17	1.4	ug/L
|	Ba	137	6163.803	0.024	**12.050403**	0.48	4.0	ug/L
|	Tb	159	247275.847	0.008				ug/L
|>	Ho	165	258273.229	258273.229				ug/L
|	Tl	203	27.333	0.000	**0.028563**	0.01	27.6	ug/L
|	Tl	205	65.334	0.000	**-0.010496**	0.00	33.0	ug/L
L	Pb	208	3929.725	0.015	**1.102831**	0.06	5.5	ug/L
	Kr	83	111.601	91.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		103.678	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		417.186	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		94.023	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	136.681
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-03A
Sample Date/Time: Monday, February 15, 2010 17:53:15
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-03A.118
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34509.433	0.029				ug/L
|	Li	7	21521.405	0.056	**20.361518**	0.38	1.9	ug/L
|	Be	9	22.667	0.000	**1.501732**	0.05	3.3	ug/L
|	B	11	10475.128	0.030	**36.234819**	0.95	2.6	ug/L
|	Na	23	25565304.457	76.951	**41783.952191**	1018.14	2.4	ug/L
|	Mg	24	1674233.165	5.041	**3795.076076**	71.36	1.9	ug/L
|	Al	27	303851.910	0.913	**226.245165**	11.74	5.2	ug/L
|	K	39	1832160.226	5.353	**1278.993125**	31.44	2.5	ug/L
|	Ca	43	39926.053	0.120	**8124.606359**	135.75	1.7	ug/L
| >	Sc	45	332126.898	332126.898				ug/L
|	Ti	49	806.709	0.001	**2.986448**	0.43	14.5	ug/L
|	Co	59	792.041	0.002	**0.365479**	0.05	12.4	ug/L
|	Ni	60	208.003	0.001	**0.197422**	0.07	35.7	ug/L
|	Ni	62	62.667	0.000	**1.331677**	0.48	35.8	ug/L
|	Cu	63	764.705	0.002	**0.263808**	0.02	6.3	ug/L
|	Cu	65	320.007	0.001	**0.389412**	0.19	48.1	ug/L
|	Zn	66	1148.086	0.003	**3.926527**	0.38	9.7	ug/L
|	Zn	67	2106.956	0.003	**13.835891**	4.93	35.6	ug/L
|	Zn	68	1184.091	0.003	**5.532897**	0.30	5.4	ug/L
|	V	51	5502.071	0.017	**3.260405**	0.24	7.4	ug/L
|	Cr	52	4152.455	0.003	**0.508370**	0.05	10.4	ug/L
|	Cr	53	18154.743	0.011	**11.459287**	2.05	17.9	ug/L
|	Mn	55	20032.739	0.060	**7.704873**	0.31	4.0	ug/L
|	Fe	54	31992.444	0.062	**157.150431**	11.95	7.6	ug/L
⌊	Fe	57	7773.276	0.022	**133.829138**	11.86	8.9	ug/L
⌈	As	75	-510.216	-0.001	**-0.974508**	0.55	56.4	ug/L
|	Se	77	2070.279	0.002	**28.613654**	2.07	7.2	ug/L
|	Se	82	22.261	0.000	**2.433982**	0.19	7.7	ug/L
|	Sr	88	291638.372	0.749	**85.969503**	1.97	2.3	ug/L
| >	Y	89	389252.433	389252.433				ug/L
|	Mo	95	367.342	0.001	**1.401184**	0.06	4.6	ug/L
|	Mo	97	224.670	0.001	**1.618073**	0.04	2.7	ug/L
⌊	Mo	98	541.279	0.001	**1.586207**	0.03	1.6	ug/L
⌈	Ag	107	10.667	0.000	**0.204282**	0.00	2.2	ug/L
|	Ag	109	11.333	0.000	**0.255628**	0.00	1.2	ug/L
|	Cd	111	8.333	0.000	**0.292217**	0.01	4.3	ug/L
|	Cd	114	16.849	0.000	**0.557178**	0.01	2.2	ug/L

|>	In	115	155271.308	155271.308				ug/L
|	Sn	120	441.287	-0.000	**0.629237**	0.03	4.9	ug/L
|	Sb	121	516.684	0.000	**0.554628**	0.03	6.3	ug/L
L	Sb	123	425.424	0.000	**0.914971**	0.05	5.2	ug/L
⌈	Ba	135	16036.700	0.100	**83.987257**	1.44	1.7	ug/L
|	Ba	137	28099.900	0.175	**85.300909**	1.25	1.5	ug/L
|	Tb	159	150809.502	-0.012				ug/L
|>	Ho	165	160857.189	160857.189				ug/L
|	Tl	203	12.000	0.000	**0.020607**	0.00	16.1	ug/L
|	Tl	205	21.333	0.000	**-0.023352**	0.00	11.6	ug/L
L	Pb	208	1258.707	0.008	**0.523857**	0.02	3.7	ug/L
	Kr	83	17.733	-2.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.901	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.518	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.805	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.127
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-04A
Sample Date/Time: Monday, February 15, 2010 17:55:56
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-04A.119
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34662.993	0.032				ug/L
|	Li	7	12560.927	0.030	**11.452837**	0.28	2.5	ug/L
|	Be	9	10.000	0.000	**1.447631**	0.02	1.2	ug/L
|	B	11	23284.527	0.070	**82.320252**	1.55	1.9	ug/L
|	Na	23	38797597.718	119.273	**64761.142701**	1919.73	3.0	ug/L
|	Mg	24	107887.532	0.331	**253.410412**	13.49	5.3	ug/L
|	Al	27	20816.513	0.062	**29.468691**	0.44	1.5	ug/L
|	K	39	811181.872	2.330	**553.870062**	33.45	6.0	ug/L
|	Ca	43	5084.346	0.015	**1023.229579**	25.34	2.5	ug/L
| >	Sc	45	325320.845	325320.845				ug/L
|	Ti	49	915.388	0.001	**4.076686**	0.31	7.5	ug/L
|	Co	59	64.000	0.000	**-0.051017**	0.01	20.2	ug/L
|	Ni	60	72.000	0.000	**-0.200704**	0.01	7.1	ug/L
|	Ni	62	36.000	0.000	**0.831052**	0.06	7.5	ug/L
|	Cu	63	2674.466	0.008	**2.696157**	0.24	8.8	ug/L
|	Cu	65	1134.750	0.003	**2.579047**	0.06	2.2	ug/L
|	Zn	66	486.682	0.001	**1.278522**	0.13	10.5	ug/L
|	Zn	67	1890.899	0.002	**9.230205**	1.74	18.8	ug/L
|	Zn	68	486.682	0.001	**1.627509**	0.32	19.8	ug/L
|	V	51	2406.415	0.008	**1.590220**	0.18	11.4	ug/L
|	Cr	52	4061.073	0.003	**0.505298**	0.11	21.3	ug/L
|	Cr	53	19433.861	0.016	**21.228053**	0.37	1.8	ug/L
|	Mn	55	36902.310	0.113	**14.386583**	0.50	3.4	ug/L
|	Fe	54	17794.864	0.020	**51.915937**	3.70	7.1	ug/L
⌞	Fe	57	1633.507	0.003	**19.755260**	1.88	9.5	ug/L
⌜	As	75	-442.464	-0.001	**-0.713247**	0.56	78.3	ug/L
|	Se	77	2251.663	0.002	**38.455861**	6.41	16.7	ug/L
|	Se	82	13.618	0.000	**2.095069**	0.21	10.3	ug/L
|	Sr	88	36414.716	0.094	**11.276916**	0.42	3.7	ug/L
| >	Y	89	388615.882	388615.882				ug/L
|	Mo	95	484.015	0.001	**1.681412**	0.02	1.4	ug/L
|	Mo	97	281.339	0.001	**1.840369**	0.18	9.7	ug/L
⌞	Mo	98	739.223	0.002	**1.889208**	0.02	0.8	ug/L
⌜	Ag	107	10.667	0.000	**0.204679**	0.00	2.0	ug/L
|	Ag	109	6.667	0.000	**0.251278**	0.00	1.7	ug/L
|	Cd	111	3.500	0.000	**0.273785**	0.00	1.3	ug/L
|	Cd	114	6.515	0.000	**0.539586**	0.01	1.6	ug/L

|>	In	115	149945.606	149945.606				ug/L
|	Sn	120	411.310	-0.001	**0.614095**	0.04	6.8	ug/L
|	Sb	121	237.337	-0.001	**0.178635**	0.00	2.3	ug/L
|	Sb	123	191.000	-0.001	**0.502010**	0.04	7.3	ug/L
⌈	Ba	135	2016.264	0.013	**11.472174**	0.41	3.6	ug/L
|	Ba	137	3433.434	0.022	**10.976159**	0.63	5.8	ug/L
|	Tb	159	146705.278	-0.025				ug/L
|>	Ho	165	158565.930	158565.930				ug/L
|	Tl	203	6.667	0.000	**0.012204**	0.00	15.3	ug/L
|	Tl	205	10.000	0.000	**-0.030706**	0.00	12.0	ug/L
⌊	Pb	208	950.690	0.006	**0.381013**	0.03	7.6	ug/L
	Kr	83	14.667	-5.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.997	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.375	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.999	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	83.915
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-05A
Sample Date/Time: Monday, February 15, 2010 17:58:36
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-05A.120
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35339.463	0.031				ug/L
|	Li	7	14871.706	0.036	**13.449492**	0.42	3.1	ug/L
|	Be	9	4.000	-0.000	**1.420631**	0.01	0.6	ug/L
|	B	11	21038.734	0.061	**72.336120**	0.30	0.4	ug/L
|	Na	23	43037070.317	128.679	**69868.155697**	1330.96	1.9	ug/L
|	Mg	24	66049.058	0.197	**152.772497**	2.25	1.5	ug/L
|	Al	27	33405.757	0.098	**37.784559**	0.87	2.3	ug/L
|	K	39	407805.509	1.055	**247.990582**	12.75	5.1	ug/L
|	Ca	43	2671.130	0.007	**503.983806**	7.00	1.4	ug/L
| >	Sc	45	334384.935	334384.935				ug/L
|	Ti	49	670.029	0.001	**1.793370**	0.40	22.0	ug/L
|	Co	59	64.000	0.000	**-0.052239**	0.01	15.2	ug/L
|	Ni	60	80.667	0.000	**-0.181286**	0.01	7.9	ug/L
|	Ni	62	26.667	-0.000	**0.634674**	0.40	62.9	ug/L
|	Cu	63	717.367	0.002	**0.199177**	0.02	9.0	ug/L
|	Cu	65	173.335	0.000	**0.003021**	0.07	2229.6	ug/L
|	Zn	66	312.006	0.001	**0.515621**	0.14	27.9	ug/L
|	Zn	67	2064.278	0.002	**12.316105**	3.34	27.1	ug/L
|	Zn	68	368.009	0.001	**0.875157**	0.20	22.6	ug/L
|	V	51	2536.467	0.008	**1.627960**	1.18	72.5	ug/L
|	Cr	52	4548.678	0.004	**0.747799**	0.08	11.1	ug/L
|	Cr	53	21711.301	0.021	**31.182612**	4.45	14.3	ug/L
|	Mn	55	7578.400	0.022	**2.972034**	0.08	2.8	ug/L
|	Fe	54	17973.553	0.019	**49.454283**	1.31	2.7	ug/L
⌊	Fe	57	1304.777	0.002	**12.785694**	0.78	6.1	ug/L
⌈	As	75	-457.588	-0.001	**-0.730600**	1.00	137.4	ug/L
|	Se	77	2520.413	0.003	**50.014203**	4.29	8.6	ug/L
|	Se	82	4.345	0.000	**1.724634**	0.19	11.0	ug/L
|	Sr	88	42314.740	0.106	**12.751513**	0.08	0.6	ug/L
| >	Y	89	396719.864	396719.864				ug/L
|	Mo	95	650.694	0.002	**2.048629**	0.04	1.8	ug/L
|	Mo	97	416.678	0.001	**2.334081**	0.17	7.5	ug/L
⌊	Mo	98	1031.996	0.003	**2.303354**	0.12	5.2	ug/L
⌈	Ag	107	6.000	0.000	**0.200010**	0.00	1.6	ug/L
|	Ag	109	3.333	0.000	**0.247783**	0.00	1.2	ug/L
|	Cd	111	3.333	0.000	**0.272733**	0.00	0.4	ug/L
|	Cd	114	6.201	0.000	**0.538680**	0.01	1.0	ug/L

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|>	In	115	154181.639	154181.639				ug/L
|	Sn	120	370.676	-0.001	**0.561931**	0.05	8.4	ug/L
|	Sb	121	263.338	-0.001	**0.205481**	0.04	20.4	ug/L
L	Sb	123	192.669	-0.001	**0.495271**	0.03	5.5	ug/L
⌈	Ba	135	1827.551	0.011	**10.335805**	0.32	3.1	ug/L
|	Ba	137	3321.384	0.021	**10.478524**	0.31	3.0	ug/L
|	Tb	159	151134.962	-0.011				ug/L
|>	Ho	165	160895.959	160895.959				ug/L
|	Tl	203	6.000	0.000	**0.010965**	0.01	50.4	ug/L
|	Tl	205	11.333	0.000	**-0.029958**	0.01	18.4	ug/L
L	Pb	208	204.668	0.001	**0.010921**	0.01	93.6	ug/L
	Kr	83	15.533	-5.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.533	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.197	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.231	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.148
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-06A
Sample Date/Time: Monday, February 15, 2010 18:01:17
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-06A.121
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34669.912	0.029				ug/L
|	Li	7	14299.280	0.034	**12.941869**	0.55	4.3	ug/L
|	Be	9	18.667	0.000	**1.483930**	0.03	2.2	ug/L
|	B	11	24268.905	0.071	**83.840611**	2.16	2.6	ug/L
|	Na	23	38353796.179	115.278	**62592.364466**	3456.85	5.5	ug/L
|	Mg	24	108157.621	0.325	**248.908766**	23.20	9.3	ug/L
|	Al	27	63232.858	0.188	**58.638810**	3.47	5.9	ug/L
|	K	39	1033019.997	2.941	**700.343395**	35.97	5.1	ug/L
|	Ca	43	6074.398	0.018	**1201.204382**	49.94	4.2	ug/L
| >	Sc	45	332926.009	332926.009				ug/L
|	Ti	49	2046.273	0.005	**13.474737**	1.71	12.7	ug/L
|	Co	59	613.358	0.002	**0.261725**	0.03	11.0	ug/L
|	Ni	60	201.336	0.001	**0.175010**	0.06	34.7	ug/L
|	Ni	62	61.334	0.000	**1.306539**	0.09	6.8	ug/L
|	Cu	63	4207.818	0.012	**4.506926**	0.11	2.5	ug/L
|	Cu	65	1916.239	0.006	**4.549110**	0.20	4.5	ug/L
|	Zn	66	1648.177	0.005	**5.940703**	0.24	4.0	ug/L
|	Zn	67	2189.646	0.003	**15.833003**	4.13	26.1	ug/L
|	Zn	68	1316.113	0.003	**6.260819**	0.41	6.6	ug/L
|	V	51	3176.659	0.010	**1.978145**	0.32	16.3	ug/L
|	Cr	52	4661.413	0.004	**0.834014**	0.04	5.0	ug/L
|	Cr	53	21026.701	0.019	**27.866107**	4.11	14.7	ug/L
|	Mn	55	53300.703	0.160	**20.254548**	0.71	3.5	ug/L
|	Fe	54	21970.145	0.031	**80.555906**	8.24	10.2	ug/L
⌊	Fe	57	3534.812	0.009	**54.492460**	2.33	4.3	ug/L
⌈	As	75	-225.543	-0.000	**0.169489**	0.26	155.9	ug/L
|	Se	77	2389.705	0.002	**40.825760**	4.29	10.5	ug/L
|	Se	82	8.869	0.000	**1.892616**	0.08	4.4	ug/L
|	Sr	88	47025.333	0.116	**13.846933**	0.31	2.3	ug/L
| >	Y	89	404461.379	404461.379				ug/L
|	Mo	95	620.025	0.002	**1.948759**	0.01	0.4	ug/L
|	Mo	97	364.009	0.001	**2.105391**	0.06	2.6	ug/L
⌊	Mo	98	973.842	0.002	**2.188487**	0.04	1.7	ug/L
⌈	Ag	107	13.333	0.000	**0.207027**	0.00	1.4	ug/L
|	Ag	109	14.000	0.000	**0.258595**	0.01	2.4	ug/L
|	Cd	111	11.000	0.000	**0.303869**	0.02	5.2	ug/L
|	Cd	114	23.734	0.000	**0.569899**	0.00	0.7	ug/L

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|>	In	115	152165.774	152165.774				ug/L
|	Sn	120	391.309	-0.001	**0.587796**	0.01	1.8	ug/L
|	Sb	121	250.671	-0.001	**0.192524**	0.03	15.7	ug/L
\L	Sb	123	183.000	-0.001	**0.482291**	0.02	3.7	ug/L
|	Ba	135	3026.595	0.019	**16.636531**	0.27	1.6	ug/L
|	Ba	137	5076.342	0.032	**15.868616**	0.72	4.5	ug/L
|	Tb	159	149221.424	-0.017				ug/L
|>	Ho	165	160025.165	160025.165				ug/L
|	Tl	203	3.333	-0.000	**0.006688**	0.00	53.4	ug/L
|	Tl	205	8.000	0.000	**-0.032119**	0.00	4.4	ug/L
\L	Pb	208	6150.944	0.038	**2.921511**	0.07	2.5	ug/L
	Kr	83	16.733	-3.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.125	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.938	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.169	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.687
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-07A
Sample Date/Time: Monday, February 15, 2010 18:03:58
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-07A.122
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	28208.838	0.010				ug/L
	Li	7	73591.027	0.211	**73.123798**	2.00	2.7	ug/L
	Be	9	10.667	0.000	**1.449567**	0.01	0.7	ug/L
	B	11	27830.932	0.082	**95.677809**	3.27	3.4	ug/L
	Na	23	318696221.113	952.346	**517051.420596**	7011.61	1.4	ug/L
	Mg	24	22973862.345	68.660	**51631.494202**	1803.96	3.5	ug/L
	Al	27	17336.191	0.050	**26.664515**	0.57	2.1	ug/L
	K	39	3591121.090	10.571	**2530.816287**	110.23	4.4	ug/L
	Ca	43	370396.511	1.107	**75167.212354**	3534.63	4.7	ug/L
>	Sc	45	334646.859	334646.859				ug/L
	Ti	49	505.350	0.000	**0.410097**	0.44	106.9	ug/L
	Co	59	228.003	0.001	**0.041155**	0.02	51.1	ug/L
	Ni	60	641.360	0.002	**1.464807**	0.01	0.8	ug/L
	Ni	62	72.000	0.000	**1.510429**	0.38	25.3	ug/L
	Cu	63	2789.173	0.008	**2.742466**	0.23	8.4	ug/L
	Cu	65	250.671	0.001	**0.203905**	0.10	50.8	ug/L
	Zn	66	2082.949	0.006	**7.666842**	0.57	7.4	ug/L
	Zn	67	2423.049	0.003	**21.524760**	3.87	18.0	ug/L
	Zn	68	2253.664	0.006	**11.532120**	0.85	7.4	ug/L
	V	51	4930.270	0.015	**2.923157**	0.29	9.9	ug/L
	Cr	52	4656.744	0.004	**0.817458**	0.18	22.6	ug/L
	Cr	53	18150.067	0.010	**10.714873**	5.13	47.9	ug/L
	Mn	55	3340.060	0.009	**1.379060**	0.09	6.3	ug/L
	Fe	54	18150.271	0.020	**50.769363**	6.86	13.5	ug/L
	Fe	57	5880.253	0.016	**97.726522**	9.46	9.7	ug/L
	As	75	-574.631	-0.001	**-1.156168**	0.75	65.1	ug/L
	Se	77	3101.292	0.004	**77.766587**	3.04	3.9	ug/L
	Se	82	57.329	0.000	**3.739981**	0.23	6.2	ug/L
	Sr	88	2364324.461	5.871	**669.566898**	30.55	4.6	ug/L
>	Y	89	402872.018	402872.018				ug/L
	Mo	95	3223.342	0.008	**7.963652**	0.32	4.1	ug/L
	Mo	97	2084.949	0.005	**8.568547**	0.41	4.8	ug/L
	Mo	98	5174.857	0.013	**8.373198**	0.45	5.3	ug/L
	Ag	107	14.667	0.000	**0.207547**	0.00	2.0	ug/L
	Ag	109	6.667	0.000	**0.250819**	0.00	1.8	ug/L
	Cd	111	18.333	0.000	**0.329121**	0.01	3.7	ug/L
	Cd	114	27.807	0.000	**0.574311**	0.03	5.1	ug/L

|>	In	115	160929.179	160929.179				ug/L
|	Sn	120	421.927	-0.001	**0.595463**	0.03	4.6	ug/L
|	Sb	121	322.673	-0.001	**0.269549**	0.01	3.6	ug/L
|	Sb	123	243.165	-0.001	**0.568811**	0.03	5.1	ug/L
⌈	Ba	135	62083.142	0.370	**309.492253**	12.37	4.0	ug/L
|	Ba	137	106568.774	0.635	**309.085609**	7.29	2.4	ug/L
|	Tb	159	159763.507	0.003				ug/L
|>	Ho	165	167698.322	167698.322				ug/L
|	Tl	203	10.667	0.000	**0.017763**	0.00	10.1	ug/L
|	Tl	205	18.667	0.000	**-0.025630**	0.00	14.8	ug/L
⌊	Pb	208	664.011	0.004	**0.221315**	0.01	4.3	ug/L
	Kr	83	26.200	5.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.606	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.580	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.786	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.748
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-09A
Sample Date/Time: Monday, February 15, 2010 18:06:38
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-09A.123
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31578.326	0.024				ug/L
|	Li	7	53430.326	0.158	**54.981961**	2.44	4.4	ug/L
|	Be	9	10.667	0.000	**1.451208**	0.02	1.4	ug/L
|	B	11	28895.536	0.089	**103.633229**	4.91	4.7	ug/L
|	Na	23	214694834.093	669.473	**363474.439457**	15138.75	4.2	ug/L
|	Mg	24	9966428.778	31.076	**23371.669183**	809.45	3.5	ug/L
|	Al	27	19294.186	0.058	**28.590176**	0.64	2.2	ug/L
|	K	39	3336776.025	10.239	**2451.203996**	68.16	2.8	ug/L
|	Ca	43	165128.635	0.514	**34927.191908**	1265.67	3.6	ug/L
| >	Sc	45	320845.054	320845.054				ug/L
|	Ti	49	639.360	0.001	**1.768421**	0.56	31.4	ug/L
|	Co	59	146.668	0.000	**-0.001744**	0.01	769.1	ug/L
|	Ni	60	313.340	0.001	**0.541404**	0.07	13.6	ug/L
|	Ni	62	40.000	0.000	**0.921876**	0.13	14.6	ug/L
|	Cu	63	2074.280	0.006	**1.973123**	0.07	3.4	ug/L
|	Cu	65	286.672	0.001	**0.328346**	0.05	14.9	ug/L
|	Zn	66	761.371	0.002	**2.461097**	0.11	4.5	ug/L
|	Zn	67	2301.678	0.003	**20.925727**	1.56	7.5	ug/L
|	Zn	68	1410.797	0.004	**7.114172**	0.89	12.5	ug/L
|	V	51	10034.361	0.032	**5.943338**	0.67	11.2	ug/L
|	Cr	52	4283.193	0.004	**0.694273**	0.15	21.5	ug/L
|	Cr	53	20895.682	0.021	**31.597721**	2.07	6.5	ug/L
|	Mn	55	1551.490	0.004	**0.731810**	0.03	4.2	ug/L
|	Fe	54	17546.043	0.020	**51.900764**	6.13	11.8	ug/L
⌊	Fe	57	3119.300	0.008	**48.950590**	4.04	8.3	ug/L
⌈	As	75	-476.589	-0.001	**-0.898573**	0.28	31.4	ug/L
|	Se	77	2979.910	0.004	**82.336660**	6.19	7.5	ug/L
|	Se	82	20.970	0.000	**2.407527**	0.14	6.0	ug/L
|	Sr	88	976168.796	2.594	**296.231158**	15.53	5.2	ug/L
| >	Y	89	376636.491	376636.491				ug/L
|	Mo	95	2102.287	0.006	**5.717926**	0.29	5.0	ug/L
|	Mo	97	1280.773	0.003	**5.888065**	0.32	5.4	ug/L
⌊	Mo	98	3159.170	0.008	**5.737554**	0.37	6.4	ug/L
⌈	Ag	107	4.000	0.000	**0.198338**	0.00	1.0	ug/L
|	Ag	109	4.000	0.000	**0.248607**	0.00	1.4	ug/L
|	Cd	111	30.000	0.000	**0.383082**	0.01	2.9	ug/L
|	Cd	114	51.807	0.000	**0.622136**	0.00	0.5	ug/L

|>	In	115	148071.516	148071.516				ug/L
|	Sn	120	393.309	-0.001	**0.600600**	0.03	5.2	ug/L
|	Sb	121	297.339	-0.001	**0.269806**	0.02	7.1	ug/L
_	Sb	123	233.001	-0.001	**0.586701**	0.02	2.6	ug/L
⌈	Ba	135	55217.545	0.356	**297.721942**	14.50	4.9	ug/L
|	Ba	137	95280.893	0.614	**298.933344**	17.78	5.9	ug/L
|	Tb	159	145416.204	-0.013				ug/L
|>	Ho	165	155202.116	155202.116				ug/L
|	Tl	203	6.000	0.000	**0.011431**	0.01	53.2	ug/L
|	Tl	205	9.333	0.000	**-0.031092**	0.00	6.2	ug/L
_	Pb	208	1234.039	0.008	**0.534118**	0.03	5.1	ug/L
	Kr	83	20.867	0.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.745	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.682	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.012	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	82.135
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-10A
Sample Date/Time: Monday, February 15, 2010 18:09:19
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-10A.124
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30821.388	0.021				ug/L
|	Li	7	56629.092	0.167	**57.986163**	1.15	2.0	ug/L
|	Be	9	11.333	0.000	**1.454203**	0.05	3.2	ug/L
|	B	11	15315.238	0.046	**54.541582**	1.37	2.5	ug/L
|	Na	23	245293782.323	759.953	**412597.759574**	6479.31	1.6	ug/L
|	Mg	24	25763904.708	79.827	**60028.841454**	2628.71	4.4	ug/L
|	Al	27	24203.019	0.073	**32.019844**	0.09	0.3	ug/L
|	K	39	2874792.899	8.745	**2092.727968**	181.56	8.7	ug/L
|	Ca	43	343885.928	1.065	**72322.889267**	997.08	1.4	ug/L
| >	Sc	45	322736.817	322736.817				ug/L
|	Ti	49	442.013	0.000	**0.010335**	0.34	3297.5	ug/L
|	Co	59	264.005	0.001	**0.067053**	0.01	8.8	ug/L
|	Ni	60	480.015	0.001	**1.043006**	0.09	8.6	ug/L
|	Ni	62	46.667	0.000	**1.051661**	0.17	16.5	ug/L
|	Cu	63	2152.301	0.006	**2.055931**	0.07	3.3	ug/L
|	Cu	65	222.670	0.001	**0.150995**	0.14	94.3	ug/L
|	Zn	66	924.056	0.003	**3.121801**	0.30	9.6	ug/L
|	Zn	67	2592.437	0.004	**28.271555**	2.42	8.6	ug/L
|	Zn	68	2987.248	0.009	**16.291537**	1.09	6.7	ug/L
|	V	51	4855.727	0.015	**2.980518**	0.29	9.9	ug/L
|	Cr	52	3708.895	0.002	**0.289848**	0.09	31.0	ug/L
|	Cr	53	17385.625	0.010	**9.948618**	0.58	5.8	ug/L
|	Mn	55	2739.821	0.008	**1.190535**	0.01	1.0	ug/L
|	Fe	54	15410.953	0.013	**34.300137**	4.35	12.7	ug/L
⌊	Fe	57	5201.759	0.014	**88.582887**	1.42	1.6	ug/L
⌈	As	75	-596.916	-0.001	**-1.343869**	0.28	21.1	ug/L
|	Se	77	2673.131	0.003	**62.512106**	1.58	2.5	ug/L
|	Se	82	65.775	0.000	**4.185727**	0.35	8.3	ug/L
|	Sr	88	2357513.470	6.138	**699.941953**	10.01	1.4	ug/L
| >	Y	89	384121.337	384121.337				ug/L
|	Mo	95	590.689	0.002	**1.953193**	0.11	5.9	ug/L
|	Mo	97	358.675	0.001	**2.156934**	0.10	4.5	ug/L
⌊	Mo	98	879.238	0.002	**2.118306**	0.13	6.1	ug/L
⌈	Ag	107	10.000	0.000	**0.203876**	0.00	1.6	ug/L
|	Ag	109	8.000	0.000	**0.252508**	0.00	0.8	ug/L
|	Cd	111	10.500	0.000	**0.301684**	0.01	4.4	ug/L
|	Cd	114	26.492	0.000	**0.574746**	0.01	0.9	ug/L

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|>	In	115	152228.742	152228.742				ug/L
|	Sn	120	404.609	-0.001	**0.601034**	0.04	6.7	ug/L
|	Sb	121	234.004	-0.001	**0.168838**	0.01	8.1	ug/L
|	Sb	123	207.331	-0.001	**0.526979**	0.04	7.2	ug/L
⌈	Ba	135	190576.679	1.198	**999.547523**	26.12	2.6	ug/L
|	Ba	137	329318.801	2.070	**1005.790210**	14.01	1.4	ug/L
|	Tb	159	150966.345	-0.001				ug/L
|>	Ho	165	159098.475	159098.475				ug/L
|	Tl	203	8.667	0.000	**0.015419**	0.01	44.0	ug/L
|	Tl	205	15.333	0.000	**-0.027202**	0.00	2.9	ug/L
⌊	Pb	208	556.008	0.003	**0.184964**	0.02	12.6	ug/L
	Kr	83	20.333	-0.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.275	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.365	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.202	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.197
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-11A
Sample Date/Time: Monday, February 15, 2010 18:12:00
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-11A.125
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33244.505	0.029				ug/L
|	Li	7	41695.366	0.121	**42.401960**	0.19	0.4	ug/L
|	Be	9	8.000	0.000	**1.439299**	0.02	1.6	ug/L
|	B	11	25640.012	0.078	**91.669523**	2.72	3.0	ug/L
|	Na	23	73636018.547	228.907	**124283.295241**	3088.06	2.5	ug/L
|	Mg	24	8340867.778	25.931	**19502.703014**	263.27	1.3	ug/L
|	Al	27	19187.241	0.058	**28.472882**	0.37	1.3	ug/L
|	K	39	3162434.045	9.667	**2313.896265**	71.53	3.1	ug/L
|	Ca	43	161226.908	0.501	**34000.985450**	627.64	1.8	ug/L
|	> Sc	45	321674.018	321674.018				ug/L
|	Ti	49	520.684	0.000	**0.710272**	0.15	21.7	ug/L
|	Co	59	189.336	0.001	**0.023319**	0.02	72.8	ug/L
|	Ni	60	192.669	0.001	**0.170070**	0.08	47.9	ug/L
|	Ni	62	48.000	0.000	**1.081119**	0.21	19.9	ug/L
|	Cu	63	818.710	0.002	**0.363226**	0.04	11.9	ug/L
|	Cu	65	176.002	0.000	**0.027476**	0.07	244.3	ug/L
|	Zn	66	766.705	0.002	**2.475524**	0.25	10.0	ug/L
|	Zn	67	2114.958	0.003	**15.761663**	2.65	16.8	ug/L
|	Zn	68	1541.488	0.004	**7.849614**	0.45	5.8	ug/L
|	V	51	8570.712	0.027	**5.097136**	0.68	13.3	ug/L
|	Cr	52	4090.421	0.003	**0.555496**	0.09	16.2	ug/L
|	Cr	53	21361.621	0.022	**34.057330**	2.21	6.5	ug/L
|	Mn	55	16090.151	0.049	**6.409547**	0.15	2.4	ug/L
|	Fe	54	17284.872	0.019	**49.424477**	3.02	6.1	ug/L
⌊	Fe	57	3476.786	0.009	**55.645568**	0.87	1.6	ug/L
⌈	As	75	-472.497	-0.001	**-0.907591**	0.77	84.9	ug/L
|	Se	77	2653.125	0.003	**66.010309**	7.28	11.0	ug/L
|	Se	82	25.992	0.000	**2.628528**	0.18	6.9	ug/L
|	Sr	88	887774.568	2.385	**272.352363**	4.02	1.5	ug/L
|	> Y	89	372247.047	372247.047				ug/L
|	Mo	95	1439.468	0.004	**4.118559**	0.14	3.4	ug/L
|	Mo	97	898.052	0.002	**4.391289**	0.12	2.8	ug/L
⌊	Mo	98	2307.460	0.006	**4.433398**	0.09	2.1	ug/L
⌈	Ag	107	3.333	-0.000	**0.197772**	0.00	0.6	ug/L
|	Ag	109	0.667	-0.000	**0.245196**	0.00	0.5	ug/L
|	Cd	111	7.333	0.000	**0.290632**	0.01	3.0	ug/L
|	Cd	114	10.855	0.000	**0.548245**	0.01	1.6	ug/L

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|>	In	115	143819.523	143819.523				ug/L
|	Sn	120	368.633	-0.001	**0.586210**	0.02	3.8	ug/L
|	Sb	121	301.339	-0.001	**0.289113**	0.03	10.2	ug/L
|	Sb	123	187.583	-0.001	**0.511005**	0.03	6.2	ug/L
⌈	Ba	135	56628.379	0.373	**311.718221**	4.69	1.5	ug/L
|	Ba	137	96603.568	0.636	**309.390047**	4.77	1.5	ug/L
|	Tb	159	142453.783	-0.012				ug/L
|>	Ho	165	151881.632	151881.632				ug/L
|	Tl	203	6.667	0.000	**0.012722**	0.01	42.1	ug/L
|	Tl	205	12.000	0.000	**-0.029066**	0.01	19.0	ug/L
⌊	Pb	208	468.006	0.003	**0.152785**	0.03	18.9	ug/L
	Kr	83	18.000	-2.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.977	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.695	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.772	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	80.377
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 18:14:42
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.126
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29132.869	0.015				ug/L
|	Li	7	120768.337	0.364	**125.103977**	8.66	6.9	ug/L
|	Be	9	26597.955	0.082	**120.133769**	7.24	6.0	ug/L
|	B	11	33158.218	0.101	**117.772550**	10.98	9.3	ug/L
|	Na	23	3428330.394	10.543	**5729.851124**	256.05	4.5	ug/L
|	Mg	24	2479775.828	7.650	**5757.153114**	199.03	3.5	ug/L
|	Al	27	7871205.635	24.284	**5630.851178**	197.79	3.5	ug/L
|	K	39	8556630.420	26.238	**6289.440004**	382.67	6.1	ug/L
|	Ca	43	24845.427	0.076	**5169.134646**	306.46	5.9	ug/L
| >	Sc	45	324321.018	324321.018				ug/L
|	Ti	49	11712.252	0.035	**97.890464**	6.88	7.0	ug/L
|	Co	59	161039.457	0.497	**94.468524**	4.51	4.8	ug/L
|	Ni	60	30993.001	0.096	**93.558624**	4.67	5.0	ug/L
|	Ni	62	4729.456	0.015	**94.261066**	7.01	7.4	ug/L
|	Cu	63	74108.667	0.228	**93.182088**	4.00	4.3	ug/L
|	Cu	65	34523.969	0.106	**91.937578**	2.08	2.3	ug/L
|	Zn	66	21860.356	0.067	**90.343855**	3.85	4.3	ug/L
|	Zn	67	5175.077	0.012	**96.273789**	8.78	9.1	ug/L
|	Zn	68	16072.794	0.049	**92.529618**	5.16	5.6	ug/L
|	V	51	175694.864	0.542	**98.940251**	3.86	3.9	ug/L
|	Cr	52	148191.911	0.448	**96.975471**	3.60	3.7	ug/L
|	Cr	53	33200.859	0.058	**103.365531**	10.48	10.1	ug/L
|	Mn	55	241077.681	0.743	**93.618603**	4.45	4.8	ug/L
|	Fe	54	618857.105	1.875	**4743.581928**	197.72	4.2	ug/L
⌞	Fe	57	245755.475	0.757	**4695.384460**	240.43	5.1	ug/L
⌜	As	75	26353.682	0.069	**105.194561**	1.32	1.3	ug/L
|	Se	77	10965.812	0.025	**508.803240**	14.81	2.9	ug/L
|	Se	82	13018.820	0.034	**522.350608**	5.33	1.0	ug/L
|	Sr	88	343874.154	0.895	**102.626326**	1.70	1.7	ug/L
| >	Y	89	384067.011	384067.011				ug/L
|	Mo	95	41627.670	0.108	**101.278563**	1.44	1.4	ug/L
|	Mo	97	25371.116	0.066	**100.562114**	2.41	2.4	ug/L
⌞	Mo	98	64365.019	0.168	**100.030053**	2.66	2.7	ug/L
⌜	Ag	107	109389.846	0.712	**102.603876**	4.44	4.3	ug/L
|	Ag	109	102174.182	0.665	**101.548317**	3.82	3.8	ug/L
|	Cd	111	26091.874	0.170	**103.958757**	5.80	5.6	ug/L
|	Cd	114	58380.771	0.380	**102.806871**	5.07	4.9	ug/L

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|>	In	115	153791.934	153791.934				ug/L
|	Sn	120	101128.673	0.655	**101.239365**	4.83	4.8	ug/L
|	Sb	121	72339.337	0.468	**101.190422**	4.44	4.4	ug/L
\L	Sb	123	54589.220	0.353	**100.052150**	3.88	3.9	ug/L
|	Ba	135	18679.321	0.117	**98.204018**	3.35	3.4	ug/L
|	Ba	137	32227.388	0.201	**98.290444**	3.83	3.9	ug/L
|	Tb	159	149222.323	-0.017				ug/L
|>	Ho	165	160066.763	160066.763				ug/L
|	Tl	203	67509.666	0.422	**108.723615**	1.55	1.4	ug/L
|	Tl	205	162140.500	1.013	**107.714698**	1.06	1.0	ug/L
\L	Pb	208	222587.659	1.391	**108.799255**	1.31	1.2	ug/L
	Kr	83	19.800	-0.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	125.104		
Be	9	120.134		
B	11	117.773		
Na	23	114.597		
Mg	24	115.143		
Al	27	110.409		
K	39	125.789		
Ca	43	103.383		
Sc	45		90.718	
Ti	49	97.890		
Co	59	94.469		
Ni	60	93.559		
Ni	62	94.261		
Cu	63	93.182		
Cu	65	91.938		
Zn	66	90.344		
Zn	67	96.274		
Zn	68	92.530		
V	51	98.940		
Cr	52	96.975		
Cr	53	103.366		
Mn	55	93.619		
Fe	54	94.872		
Fe	57	93.908		
As	75	105.195		
Se	77	101.761		
Se	82	104.470		
Sr	88	102.626		
Y	89		86.352	
Mo	95	101.279		
Mo	97	100.562		
Mo	98	100.030		
Ag	107	102.604		
Ag	109	101.548		
Cd	111	103.959		
Cd	114	102.807		
In	115		81.026	
Sn	120	101.239		
Sb	121	101.190		

Sb	123	100.052	
Ba	135	98.204	
Ba	137	98.290	
Tb	159		
Ho	165		84.709
Tl	203	108.724	
Tl	205	107.715	
Pb	208	108.799	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 18:17:23
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.127
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34374.156	0.028				ug/L
|	Li	7	3790.267	0.003	**2.181995**	0.05	2.1	ug/L
|	Be	9	14.000	0.000	**1.463936**	0.02	1.2	ug/L
|	B	11	1254.103	0.002	**4.245061**	0.54	12.6	ug/L
|	Na	23	27114.398	0.047	**31.441469**	1.34	4.3	ug/L
|	Mg	24	1400.143	0.004	**7.394941**	1.35	18.3	ug/L
|	Al	27	4394.603	0.011	**17.716798**	0.41	2.3	ug/L
|	K	39	60974.209	0.018	**-0.923141**	1.47	159.0	ug/L
|	Ca	43	166.668	-0.000	**-4.671594**	2.79	59.6	ug/L
| >	Sc	45	334452.453	334452.453				ug/L
|	Ti	49	414.011	-0.000	**-0.360971**	0.26	72.9	ug/L
|	Co	59	37.333	0.000	**-0.067380**	0.00	3.9	ug/L
|	Ni	60	18.667	0.000	**-0.363468**	0.01	2.4	ug/L
|	Ni	62	24.000	-0.000	**0.581193**	0.15	26.5	ug/L
|	Cu	63	380.676	0.001	**-0.214100**	0.02	11.1	ug/L
|	Cu	65	173.335	0.000	**0.002903**	0.10	3350.4	ug/L
|	Zn	66	121.334	0.000	**-0.253563**	0.05	19.8	ug/L
|	Zn	67	1620.171	0.001	**0.944952**	0.97	103.0	ug/L
|	Zn	68	173.335	0.000	**-0.225743**	0.06	25.5	ug/L
|	V	51	1183.306	0.004	**0.886951**	0.28	31.1	ug/L
|	Cr	52	3386.079	0.001	**-0.007000**	0.07	1011.4	ug/L
|	Cr	53	17121.038	0.007	**4.801057**	2.25	46.8	ug/L
|	Mn	55	267.338	0.000	**0.224227**	0.02	7.6	ug/L
|	Fe	54	10851.543	-0.002	**-4.432273**	1.24	27.9	ug/L
⌞	Fe	57	669.362	0.000	**0.988571**	0.54	55.0	ug/L
⌜	As	75	-416.532	-0.001	**-0.598280**	0.05	8.9	ug/L
|	Se	77	1748.199	0.001	**10.930830**	1.34	12.3	ug/L
|	Se	82	6.146	0.000	**1.795322**	0.16	8.9	ug/L
|	Sr	88	196.669	0.000	**0.655267**	0.01	1.1	ug/L
| >	Y	89	391689.046	391689.046				ug/L
|	Mo	95	82.667	0.000	**0.720040**	0.03	4.2	ug/L
|	Mo	97	48.000	0.000	**0.931741**	0.08	8.3	ug/L
⌞	Mo	98	119.261	0.000	**0.943074**	0.02	2.2	ug/L
⌜	Ag	107	20.667	0.000	**0.213158**	0.00	1.0	ug/L
|	Ag	109	17.333	0.000	**0.261128**	0.00	1.7	ug/L
|	Cd	111	6.000	0.000	**0.282611**	0.00	0.7	ug/L
|	Cd	114	5.536	0.000	**0.537238**	0.01	2.5	ug/L

00437

|>	In	115	158788.209	158788.209				ug/L
|	Sn	120	503.991	-0.000	**0.680119**	0.03	5.0	ug/L
|	Sb	121	1358.120	0.006	**1.679522**	0.11	6.4	ug/L
|	Sb	123	1059.822	0.004	**2.021188**	0.13	6.5	ug/L
⌈	Ba	135	18.000	0.000	**0.960362**	0.02	1.8	ug/L
|	Ba	137	28.667	0.000	**0.539966**	0.02	3.5	ug/L
|	Tb	159	151134.962	-0.011				ug/L
|>	Ho	165	160901.443	160901.443				ug/L
|	Tl	203	40.667	0.000	**0.066422**	0.02	28.7	ug/L
|	Tl	205	105.334	0.001	**0.032166**	0.01	35.8	ug/L
⌊	Pb	208	98.667	0.000	**-0.040680**	0.00	6.2	ug/L
	Kr	83	15.467	-5.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.552	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.066	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		83.658	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.151
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-12A
Sample Date/Time: Monday, February 15, 2010 18:20:06
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-12A.128
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	30889.319	0.023				ug/L
	Li	7	58049.983	0.176	**60.955891**	5.44	8.9	ug/L
	Be	9	6.000	-0.000	**1.431045**	0.01	0.7	ug/L
	B	11	22194.004	0.069	**80.959110**	6.13	7.6	ug/L
	Na	23	127814843.296	405.435	**220123.745316**	15920.39	7.2	ug/L
	Mg	24	19945032.572	63.280	**47586.495670**	3685.61	7.7	ug/L
	Al	27	78800.518	0.248	**72.506207**	4.97	6.9	ug/L
	K	39	4593934.313	14.412	**3452.304648**	281.19	8.1	ug/L
	Ca	43	369465.087	1.172	**79584.322627**	6922.77	8.7	ug/L
>	Sc	45	315817.895	315817.895				ug/L
	Ti	49	645.361	0.001	**1.924756**	0.77	39.8	ug/L
	Co	59	1380.125	0.004	**0.746348**	0.14	18.2	ug/L
	Ni	60	585.356	0.002	**1.405850**	0.18	13.1	ug/L
	Ni	62	78.667	0.000	**1.721065**	0.46	26.6	ug/L
	Cu	63	2777.171	0.009	**2.940137**	0.49	16.8	ug/L
	Cu	65	836.046	0.003	**1.859120**	0.37	19.7	ug/L
	Zn	66	801.375	0.002	**2.678505**	0.32	12.0	ug/L
	Zn	67	2190.979	0.003	**18.932968**	1.99	10.5	ug/L
	Zn	68	1840.221	0.005	**9.843693**	1.40	14.2	ug/L
	V	51	3315.026	0.011	**2.155517**	0.07	3.4	ug/L
	Cr	52	3348.062	0.001	**0.098450**	0.10	102.7	ug/L
	Cr	53	16926.606	0.010	**9.552989**	5.22	54.7	ug/L
	Mn	55	1158161.773	3.675	**461.996154**	40.12	8.7	ug/L
	Fe	54	22000.561	0.035	**90.079186**	14.66	16.3	ug/L
	Fe	57	7861.352	0.023	**143.316291**	11.34	7.9	ug/L
	As	75	-614.506	-0.001	**-1.522822**	0.44	29.2	ug/L
	Se	77	2641.789	0.003	**67.067361**	20.08	29.9	ug/L
	Se	82	34.694	0.000	**3.005596**	0.24	7.8	ug/L
	Sr	88	2137228.528	5.806	**662.210594**	85.53	12.9	ug/L
>	Y	89	369794.000	369794.000				ug/L
	Mo	95	715.367	0.002	**2.332608**	0.29	12.2	ug/L
	Mo	97	445.346	0.001	**2.578426**	0.34	13.3	ug/L
	Mo	98	1094.599	0.003	**2.523447**	0.21	8.4	ug/L
	Ag	107	8.000	0.000	**0.202241**	0.00	2.4	ug/L
	Ag	109	4.000	0.000	**0.248723**	0.00	0.9	ug/L
	Cd	111	8.167	0.000	**0.294125**	0.01	2.0	ug/L
	Cd	114	23.614	0.000	**0.571827**	0.02	4.3	ug/L

00440

|>	In	115	144889.310	144889.310				ug/L
|	Sn	120	470.605	-0.000	**0.691922**	0.02	2.8	ug/L
|	Sb	121	508.017	0.001	**0.595020**	0.09	14.9	ug/L
|	Sb	123	374.587	0.000	**0.874110**	0.11	12.5	ug/L
|	Ba	135	90124.071	0.584	**487.543601**	49.69	10.2	ug/L
|	Ba	137	155202.553	1.005	**488.699957**	50.61	10.4	ug/L
|	Tb	159	145765.775	-0.008				ug/L
|>	Ho	165	154707.949	154707.949				ug/L
|	Tl	203	11.333	0.000	**0.020242**	0.00	8.6	ug/L
|	Tl	205	35.333	0.000	**-0.013004**	0.01	62.9	ug/L
|	Pb	208	10200.644	0.066	**5.081953**	0.45	8.9	ug/L
	Kr	83	22.067	1.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		88.339	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.143	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.335	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.873
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-13A
Sample Date/Time: Monday, February 15, 2010 18:22:47
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-13A.129
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	34940.590	0.038				ug/L
	Li	7	19949.846	0.056	**20.282476**	0.33	1.6	ug/L
	Be	9	1130.083	0.004	**6.694183**	0.09	1.3	ug/L
	B	11	5584.028	0.017	**20.730294**	0.81	3.9	ug/L
	Na	23	14762240.673	47.749	**25929.403936**	100.48	0.4	ug/L
	Mg	24	4891410.841	15.831	**11908.644117**	37.55	0.3	ug/L
	Al	27	20477226.726	66.282	**15342.851694**	277.03	1.8	ug/L
	K	39	845269.441	2.571	**611.660485**	10.13	1.7	ug/L
	Ca	43	105740.569	0.342	**23204.259090**	331.34	1.4	ug/L
>	Sc	45	308953.343	308953.343				ug/L
	Ti	49	766.038	0.001	**3.130804**	0.21	6.7	ug/L
	Co	59	101214.926	0.328	**62.252563**	1.35	2.2	ug/L
	Ni	60	6128.441	0.020	**19.074024**	0.49	2.6	ug/L
	Ni	62	922.722	0.003	**19.383228**	1.65	8.5	ug/L
	Cu	63	7805.959	0.025	**9.690029**	0.17	1.7	ug/L
	Cu	65	3806.277	0.012	**10.242612**	0.61	5.9	ug/L
	Zn	66	13203.323	0.042	**56.969543**	1.27	2.2	ug/L
	Zn	67	3842.294	0.009	**66.022062**	5.68	8.6	ug/L
	Zn	68	9293.612	0.030	**55.658498**	1.42	2.5	ug/L
	V	51	3258.639	0.011	**2.159657**	0.51	23.4	ug/L
	Cr	52	4301.869	0.004	**0.817307**	0.03	3.9	ug/L
	Cr	53	17090.299	0.011	**12.742299**	2.10	16.5	ug/L
	Mn	55	5540814.815	17.937	**2254.184062**	59.32	2.6	ug/L
	Fe	54	21250.224	0.034	**87.493683**	3.29	3.8	ug/L
	Fe	57	4576.696	0.013	**80.501624**	3.43	4.3	ug/L
	As	75	-446.602	-0.000	**-0.239112**	0.56	234.5	ug/L
	Se	77	2171.640	0.000	**1.675430**	2.42	144.6	ug/L
	Se	82	23.265	0.000	**2.215951**	0.03	1.4	ug/L
	Sr	88	499657.859	0.923	**105.833017**	1.75	1.7	ug/L
>	Y	89	540980.705	540980.705				ug/L
	Mo	95	19.333	0.000	**0.557134**	0.00	0.4	ug/L
	Mo	97	9.333	-0.000	**0.771979**	0.01	1.8	ug/L
	Mo	98	24.594	-0.000	**0.789635**	0.00	0.4	ug/L
	Ag	107	8.000	0.000	**0.202749**	0.00	1.1	ug/L
	Ag	109	3.333	0.000	**0.248169**	0.00	1.4	ug/L
	Cd	111	7872.862	0.057	**34.979126**	1.02	2.9	ug/L
	Cd	114	17731.949	0.128	**35.004910**	1.17	3.4	ug/L

00443

|>	In	115	138494.721	138494.721				ug/L
|	Sn	120	338.606	-0.001	**0.568179**	0.01	2.1	ug/L
|	Sb	121	304.673	-0.001	**0.311504**	0.04	11.4	ug/L
|	Sb	123	241.332	-0.001	**0.633812**	0.04	6.6	ug/L
⌈	Ba	135	3256.022	0.021	**18.464242**	0.37	2.0	ug/L
|	Ba	137	5705.449	0.037	**18.417959**	0.53	2.9	ug/L
|	Tb	159	143572.192	-0.019				ug/L
|>	Ho	165	154271.006	154271.006				ug/L
|	Tl	203	46.667	0.000	**0.079374**	0.01	10.4	ug/L
|	Tl	205	122.668	0.001	**0.047109**	0.01	24.7	ug/L
⌊	Pb	208	1146.701	0.007	**0.493285**	0.06	13.1	ug/L
	Kr	83	25.733	5.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.419	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		121.632	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		72.966	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.642
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-14A
Sample Date/Time: Monday, February 15, 2010 18:25:28
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-14A.130
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36176.377	0.041				ug/L
|	Li	7	5900.930	0.010	**4.770888**	0.09	1.9	ug/L
|	Be	9	12.667	0.000	**1.462233**	0.02	1.6	ug/L
|	B	11	30069.374	0.095	**111.036188**	3.78	3.4	ug/L
|	Na	23	35527481.114	114.039	**61919.600269**	1184.31	1.9	ug/L
|	Mg	24	50263.921	0.161	**125.599895**	5.66	4.5	ug/L
|	Al	27	883920.808	2.836	**671.008616**	19.39	2.9	ug/L
|	K	39	860668.686	2.599	**618.268185**	32.24	5.2	ug/L
|	Ca	43	20710.532	0.066	**4477.152183**	149.77	3.3	ug/L
| >	Sc	45	311439.922	311439.922				ug/L
|	Ti	49	3655.536	0.010	**29.179179**	1.02	3.5	ug/L
|	Co	59	590.690	0.002	**0.272187**	0.04	15.2	ug/L
|	Ni	60	462.681	0.001	**1.041391**	0.16	15.7	ug/L
|	Ni	62	98.667	0.000	**2.161189**	0.10	4.5	ug/L
|	Cu	63	10096.622	0.032	**12.624958**	0.13	1.0	ug/L
|	Cu	65	4672.087	0.015	**12.567506**	0.64	5.1	ug/L
|	Zn	66	1216.096	0.004	**4.529144**	0.17	3.7	ug/L
|	Zn	67	2008.262	0.003	**14.686638**	2.26	15.4	ug/L
|	Zn	68	981.396	0.003	**4.750596**	0.50	10.5	ug/L
|	V	51	13346.171	0.043	**8.044594**	0.15	1.8	ug/L
|	Cr	52	5155.728	0.007	**1.387645**	0.07	5.0	ug/L
|	Cr	53	18229.582	0.015	**18.906699**	2.22	11.7	ug/L
|	Mn	55	10126.662	0.032	**4.209787**	0.04	1.0	ug/L
|	Fe	54	46608.809	0.115	**292.029951**	4.39	1.5	ug/L
⌊	Fe	57	13909.231	0.043	**265.717243**	0.81	0.3	ug/L
⌈	As	75	535.498	0.002	**3.192483**	0.43	13.5	ug/L
|	Se	77	2134.297	0.002	**36.514516**	7.63	20.9	ug/L
|	Se	82	13.398	0.000	**2.106001**	0.17	8.2	ug/L
|	Sr	88	66865.463	0.179	**20.959822**	0.69	3.3	ug/L
| >	Y	89	374259.147	374259.147				ug/L
|	Mo	95	1038.737	0.003	**3.104354**	0.13	4.2	ug/L
|	Mo	97	639.360	0.002	**3.326456**	0.11	3.4	ug/L
⌊	Mo	98	1572.161	0.004	**3.251032**	0.10	3.0	ug/L
⌈	Ag	107	41.333	0.000	**0.237072**	0.01	4.8	ug/L
|	Ag	109	27.333	0.000	**0.274261**	0.00	1.2	ug/L
|	Cd	111	33.833	0.000	**0.407414**	0.02	5.3	ug/L
|	Cd	114	94.675	0.001	**0.710128**	0.02	2.5	ug/L

00446

|>	In	115	139974.745	139974.745				ug/L
|	Sn	120	518.667	0.000	**0.761866**	0.02	2.2	ug/L
|	Sb	121	630.693	0.002	**0.807631**	0.11	13.4	ug/L
\L	Sb	123	501.849	0.001	**1.153206**	0.13	11.5	ug/L
|	Ba	135	1849.556	0.012	**11.125422**	0.26	2.4	ug/L
|	Ba	137	3212.004	0.021	**10.832434**	0.08	0.8	ug/L
|	Tb	159	138452.369	-0.029				ug/L
|>	Ho	165	150304.923	150304.923				ug/L
|	Tl	203	4.000	-0.000	**0.008221**	0.00	41.6	ug/L
|	Tl	205	23.333	0.000	**-0.020956**	0.01	37.0	ug/L
\L	Pb	208	11515.359	0.076	**5.909237**	0.04	0.7	ug/L
	Kr	83	17.267	-3.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.115	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.147	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		73.746	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.543
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-15A
Sample Date/Time: Monday, February 15, 2010 18:28:08
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-15A.131
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34232.564	0.035				ug/L
|	Li	7	12290.479	0.031	**11.684497**	0.47	4.0	ug/L
|	Be	9	7.333	0.000	**1.437995**	0.04	2.7	ug/L
|	B	11	18308.461	0.057	**67.281195**	4.04	6.0	ug/L
|	Na	23	36917280.671	117.940	**64037.350068**	1770.57	2.8	ug/L
|	Mg	24	82978.622	0.265	**203.718008**	9.61	4.7	ug/L
|	Al	27	20022.713	0.062	**29.484041**	0.91	3.1	ug/L
|	K	39	359161.572	0.983	**230.643228**	5.24	2.3	ug/L
|	Ca	43	3260.691	0.010	**669.163121**	21.31	3.2	ug/L
| >	Sc	45	313076.372	313076.372				ug/L
|	Ti	49	544.019	0.000	**1.050053**	0.29	27.6	ug/L
|	Co	59	60.000	0.000	**-0.052110**	0.01	24.5	ug/L
|	Ni	60	54.000	0.000	**-0.248654**	0.02	9.6	ug/L
|	Ni	62	37.333	0.000	**0.884831**	0.17	19.2	ug/L
|	Cu	63	480.015	0.001	**-0.052450**	0.06	121.4	ug/L
|	Cu	65	110.667	0.000	**-0.141012**	0.05	33.4	ug/L
|	Zn	66	504.017	0.001	**1.436377**	0.33	23.0	ug/L
|	Zn	67	1748.199	0.002	**7.294698**	0.97	13.3	ug/L
|	Zn	68	472.015	0.001	**1.648199**	0.42	25.3	ug/L
|	V	51	2427.157	0.008	**1.663996**	0.72	43.0	ug/L
|	Cr	52	3760.919	0.002	**0.403697**	0.06	15.1	ug/L
|	Cr	53	18128.023	0.014	**17.705167**	3.25	18.4	ug/L
|	Mn	55	8751.644	0.027	**3.640231**	0.19	5.3	ug/L
|	Fe	54	14651.989	0.012	**31.919766**	2.36	7.4	ug/L
⌊	Fe	57	822.044	0.001	**4.877953**	1.52	31.1	ug/L
⌈	As	75	-469.104	-0.001	**-0.944759**	0.56	59.8	ug/L
|	Se	77	2032.269	0.002	**34.601342**	3.27	9.5	ug/L
|	Se	82	10.291	0.000	**1.991974**	0.03	1.7	ug/L
|	Sr	88	58369.985	0.161	**18.959778**	0.49	2.6	ug/L
| >	Y	89	362288.747	362288.747				ug/L
|	Mo	95	560.687	0.002	**1.961576**	0.10	5.3	ug/L
|	Mo	97	324.007	0.001	**2.097985**	0.09	4.5	ug/L
⌊	Mo	98	802.636	0.002	**2.074957**	0.05	2.6	ug/L
⌈	Ag	107	10.667	0.000	**0.205229**	0.00	2.4	ug/L
|	Ag	109	3.333	0.000	**0.248087**	0.00	1.0	ug/L
|	Cd	111	1.833	0.000	**0.267432**	0.00	1.7	ug/L
|	Cd	114	4.933	0.000	**0.537064**	0.01	1.6	ug/L

|>	In	115	142995.094	142995.094				ug/L
|	Sn	120	375.334	-0.001	**0.595862**	0.04	6.0	ug/L
|	Sb	121	248.004	-0.001	**0.210945**	0.03	14.8	ug/L
L	Sb	123	174.585	-0.001	**0.486739**	0.04	7.6	ug/L
⌈	Ba	135	2507.075	0.016	**14.659081**	0.14	0.9	ug/L
|	Ba	137	4252.509	0.028	**14.091746**	0.65	4.6	ug/L
|	Tb	159	140279.525	-0.024				ug/L
|>	Ho	165	151555.015	151555.015				ug/L
|	Tl	203	2.667	-0.000	**0.005867**	0.01	86.5	ug/L
|	Tl	205	9.333	0.000	**-0.030942**	0.00	13.6	ug/L
L	Pb	208	584.675	0.004	**0.213451**	0.01	5.2	ug/L
	Kr	83	13.867	-6.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.572	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		81.456	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.337	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	80.205
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-16A
Sample Date/Time: Monday, February 15, 2010 18:30:49
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-16A.132
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	33250.213	0.032				ug/L
	Li	7	33184.786	0.098	**34.684811**	0.77	2.2	ug/L
	Be	9	9.333	0.000	**1.446768**	0.03	1.9	ug/L
	B	11	12953.581	0.040	**47.986555**	2.91	6.1	ug/L
	Na	23	110821915.939	357.140	**193903.371661**	7392.66	3.8	ug/L
	Mg	24	33681592.496	108.553	**81628.271744**	2613.30	3.2	ug/L
	Al	27	30192.509	0.095	**37.182684**	0.99	2.7	ug/L
	K	39	1815368.140	5.684	**1358.417308**	28.94	2.1	ug/L
	Ca	43	485928.418	1.566	**106313.135175**	3365.89	3.2	ug/L
>	Sc	45	310358.777	310358.777				ug/L
	Ti	49	596.690	0.001	**1.565259**	0.31	19.9	ug/L
	Co	59	1146.752	0.004	**0.614777**	0.05	8.9	ug/L
	Ni	60	566.688	0.002	**1.375105**	0.08	5.6	ug/L
	Ni	62	50.667	0.000	**1.171565**	0.49	41.5	ug/L
	Cu	63	1010.733	0.003	**0.655729**	0.04	5.9	ug/L
	Cu	65	157.335	0.000	**-0.007088**	0.01	208.3	ug/L
	Zn	66	1108.080	0.003	**4.080784**	0.39	9.6	ug/L
	Zn	67	2379.035	0.004	**25.148447**	3.65	14.5	ug/L
	Zn	68	2164.305	0.007	**11.981714**	0.93	7.8	ug/L
	V	51	1872.107	0.006	**1.340356**	0.15	10.9	ug/L
	Cr	52	3362.735	0.001	**0.147623**	0.10	67.4	ug/L
	Cr	53	16876.507	0.010	**10.939242**	4.00	36.6	ug/L
	Mn	55	174871.058	0.563	**70.944366**	2.00	2.8	ug/L
	Fe	54	16790.930	0.019	**50.356465**	1.68	3.3	ug/L
	Fe	57	7344.838	0.022	**135.453026**	3.21	2.4	ug/L
	As	75	-55.930	0.000	**0.791843**	0.25	31.1	ug/L
	Se	77	2618.446	0.003	**62.900709**	6.36	10.1	ug/L
	Se	82	150.098	0.000	**7.702611**	0.47	6.1	ug/L
	Sr	88	3352067.129	8.929	**1017.981424**	15.61	1.5	ug/L
>	Y	89	375447.968	375447.968				ug/L
	Mo	95	484.682	0.001	**1.723501**	0.03	1.6	ug/L
	Mo	97	302.673	0.001	**1.964903**	0.09	4.7	ug/L
	Mo	98	767.673	0.002	**1.972729**	0.07	3.4	ug/L
	Ag	107	5.333	0.000	**0.199683**	0.00	0.5	ug/L
	Ag	109	2.667	0.000	**0.247261**	0.00	1.0	ug/L
	Cd	111	152.168	0.001	**0.896800**	0.02	2.6	ug/L
	Cd	114	349.117	0.002	**1.172608**	0.04	3.1	ug/L

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|>	In	115	145856.069	145856.069				ug/L
|	Sn	120	396.567	-0.001	**0.610197**	0.04	7.2	ug/L
|	Sb	121	1100.746	0.005	**1.460547**	0.16	11.2	ug/L
\L	Sb	123	812.286	0.003	**1.709340**	0.09	5.1	ug/L
\Γ	Ba	135	110075.150	0.712	**594.144844**	10.63	1.8	ug/L
|	Ba	137	190846.435	1.234	**599.716058**	10.45	1.7	ug/L
|	Tb	159	146315.910	-0.004				ug/L
|>	Ho	165	154684.593	154684.593				ug/L
|	Tl	203	21.333	0.000	**0.037061**	0.01	29.2	ug/L
|	Tl	205	44.000	0.000	**-0.007129**	0.01	91.4	ug/L
\L	Pb	208	41522.095	0.268	**20.933736**	0.38	1.8	ug/L
	Kr	83	21.733	1.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.812	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.415	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.845	
Sn	120			
Sb	121			

00453

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.861
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-17A
Sample Date/Time: Monday, February 15, 2010 18:33:30
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-17A.133
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35084.460	0.041				ug/L
|	Li	7	13412.350	0.036	**13.370673**	0.25	1.9	ug/L
|	Be	9	8.000	0.000	**1.441489**	0.03	1.8	ug/L
|	B	11	19292.843	0.062	**73.154756**	1.83	2.5	ug/L
|	Na	23	39463300.027	130.113	**70646.460856**	2419.33	3.4	ug/L
|	Mg	24	74324.600	0.245	**188.599484**	10.05	5.3	ug/L
|	Al	27	32592.338	0.105	**39.544275**	1.40	3.6	ug/L
|	K	39	371566.651	1.061	**249.382276**	9.99	4.0	ug/L
|	Ca	43	2704.476	0.008	**567.237336**	23.74	4.2	ug/L
| >	Sc	45	303201.684	303201.684				ug/L
|	Ti	49	574.022	0.001	**1.481664**	0.40	27.0	ug/L
|	Co	59	37.333	0.000	**-0.065158**	0.01	9.9	ug/L
|	Ni	60	53.334	0.000	**-0.245405**	0.02	8.0	ug/L
|	Ni	62	24.000	-0.000	**0.628944**	0.26	40.8	ug/L
|	Cu	63	450.013	0.001	**-0.072014**	0.01	18.1	ug/L
|	Cu	65	122.668	0.000	**-0.095682**	0.03	33.1	ug/L
|	Zn	66	449.347	0.001	**1.257985**	0.18	14.2	ug/L
|	Zn	67	1772.205	0.002	**9.523459**	3.70	38.8	ug/L
|	Zn	68	468.014	0.001	**1.710696**	0.28	16.1	ug/L
|	V	51	1705.215	0.006	**1.262796**	0.68	53.7	ug/L
|	Cr	52	3792.935	0.003	**0.510348**	0.02	3.2	ug/L
|	Cr	53	20338.855	0.023	**35.348338**	2.13	6.0	ug/L
|	Mn	55	7527.682	0.024	**3.243784**	0.05	1.5	ug/L
|	Fe	54	15139.369	0.015	**39.799293**	0.67	1.7	ug/L
⌊	Fe	57	1280.773	0.002	**14.780919**	0.63	4.3	ug/L
⌈	As	75	-539.500	-0.001	**-1.331723**	0.35	26.5	ug/L
|	Se	77	2305.679	0.003	**55.238098**	2.79	5.0	ug/L
|	Se	82	14.161	0.000	**2.178376**	0.11	5.0	ug/L
|	Sr	88	46368.669	0.133	**15.740989**	0.22	1.4	ug/L
| >	Y	89	348928.158	348928.158				ug/L
|	Mo	95	480.682	0.001	**1.804438**	0.02	1.0	ug/L
|	Mo	97	313.340	0.001	**2.103199**	0.07	3.3	ug/L
⌊	Mo	98	805.376	0.002	**2.129928**	0.07	3.5	ug/L
⌈	Ag	107	8.000	0.000	**0.202999**	0.01	3.8	ug/L
|	Ag	109	3.333	0.000	**0.248276**	0.00	1.9	ug/L
|	Cd	111	2.167	0.000	**0.269425**	0.00	0.5	ug/L
|	Cd	114	6.606	0.000	**0.541216**	0.01	1.0	ug/L

00455

|>	In	115	133687.372	133687.372				ug/L
|	Sn	120	354.641	-0.001	**0.600193**	0.01	1.8	ug/L
|	Sb	121	222.670	-0.001	**0.196332**	0.06	30.3	ug/L
L	Sb	123	164.999	-0.001	**0.490888**	0.02	4.9	ug/L
⌈	Ba	135	2166.305	0.015	**13.286439**	0.13	1.0	ug/L
|	Ba	137	3728.904	0.026	**12.907211**	0.18	1.4	ug/L
|	Tb	159	134172.738	-0.027				ug/L
|>	Ho	165	145423.776	145423.776				ug/L
|	Tl	203	1.333	-0.000	**0.003733**	0.00	54.9	ug/L
|	Tl	205	8.000	0.000	**-0.031606**	0.00	4.6	ug/L
L	Pb	208	1524.727	0.010	**0.732095**	0.02	2.7	ug/L
	Kr	83	13.467	-7.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		84.810	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		78.452	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		70.433	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	76.960
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-18A
Sample Date/Time: Monday, February 15, 2010 18:36:10
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-18A.134
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	31971.990	0.032				ug/L
	Li	7	47922.819	0.152	**52.777231**	1.52	2.9	ug/L
	Be	9	5.333	-0.000	**1.429042**	0.01	0.7	ug/L
	B	11	9666.737	0.031	**37.099577**	0.72	1.9	ug/L
	Na	23	59083999.656	197.360	**107155.914890**	3943.42	3.7	ug/L
	Mg	24	19153263.793	64.023	**48144.989012**	2696.04	5.6	ug/L
	Al	27	12872.434	0.041	**24.628531**	0.52	2.1	ug/L
	K	39	1407830.301	4.542	**1084.369122**	71.21	6.6	ug/L
	Ca	43	389055.779	1.300	**88267.293274**	3839.49	4.3	ug/L
>	Sc	45	299388.955	299388.955				ug/L
	Ti	49	521.351	0.000	**1.057008**	0.25	23.5	ug/L
	Co	59	210.670	0.001	**0.045003**	0.02	45.9	ug/L
	Ni	60	425.345	0.001	**0.979121**	0.12	12.0	ug/L
	Ni	62	48.000	0.000	**1.152253**	0.17	14.6	ug/L
	Cu	63	912.054	0.003	**0.568262**	0.07	11.8	ug/L
	Cu	65	322.673	0.001	**0.488386**	0.06	13.3	ug/L
	Zn	66	733.368	0.002	**2.563618**	0.07	2.8	ug/L
	Zn	67	2677.800	0.005	**36.150205**	4.60	12.7	ug/L
	Zn	68	3463.449	0.011	**20.692969**	2.18	10.5	ug/L
	V	51	7463.841	0.025	**4.794263**	0.83	17.4	ug/L
	Cr	52	3860.969	0.003	**0.594020**	0.06	9.4	ug/L
	Cr	53	17801.915	0.015	**20.702711**	1.54	7.5	ug/L
	Mn	55	14999.279	0.050	**6.423074**	0.25	3.8	ug/L
	Fe	54	18733.428	0.028	**71.914967**	10.05	14.0	ug/L
	Fe	57	6975.829	0.022	**133.253428**	6.06	4.5	ug/L
	As	75	-595.031	-0.001	**-1.527060**	0.37	24.3	ug/L
	Se	77	2623.781	0.004	**71.600025**	5.52	7.7	ug/L
	Se	82	33.708	0.000	**3.016486**	0.19	6.2	ug/L
	Sr	88	2157124.632	6.084	**693.851398**	37.68	5.4	ug/L
>	Y	89	354745.035	354745.035				ug/L
	Mo	95	405.344	0.001	**1.586992**	0.10	6.1	ug/L
	Mo	97	254.004	0.001	**1.829209**	0.19	10.6	ug/L
	Mo	98	597.804	0.002	**1.760812**	0.02	1.0	ug/L
	Ag	107	10.000	0.000	**0.204945**	0.00	1.0	ug/L
	Ag	109	4.667	0.000	**0.249725**	0.00	1.1	ug/L
	Cd	111	21.000	0.000	**0.352927**	0.02	4.7	ug/L
	Cd	114	35.830	0.000	**0.598319**	0.02	3.2	ug/L

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|>	In	115	136853.834	136853.834				ug/L
|	Sn	120	374.625	-0.001	**0.613082**	0.01	1.2	ug/L
|	Sb	121	253.338	-0.001	**0.236923**	0.03	11.5	ug/L
\L	Sb	123	199.499	-0.001	**0.554525**	0.04	7.7	ug/L
|	Ba	135	212533.317	1.453	**1212.144459**	85.76	7.1	ug/L
|	Ba	137	367079.673	2.509	**1219.227002**	85.48	7.0	ug/L
|	Tb	159	137774.501	-0.010				ug/L
|>	Ho	165	146548.890	146548.890				ug/L
|	Tl	203	9.333	0.000	**0.017962**	0.01	63.8	ug/L
|	Tl	205	21.333	0.000	**-0.021962**	0.00	16.3	ug/L
\L	Pb	208	468.006	0.003	**0.161629**	0.02	10.4	ug/L
	Kr	83	20.267	-0.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.744	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		79.760	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		72.102	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	77.555
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20A
Sample Date/Time: Monday, February 15, 2010 18:38:51
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-20A.135
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28592.548	0.017				ug/L
|	Li	7	90728.726	0.285	**98.054655**	4.11	4.2	ug/L
|	Be	9	2171.640	0.007	**11.556315**	0.35	3.1	ug/L
|	B	11	18764.880	0.059	**69.709944**	2.50	3.6	ug/L
|	Na	23	139447115.219	450.500	**244590.078221**	5833.64	2.4	ug/L
|	Mg	24	41109137.707	132.861	**99906.233385**	3582.99	3.6	ug/L
|	Al	27	1482945.373	4.791	**1122.985940**	32.67	2.9	ug/L
|	K	39	4845504.704	15.503	**3714.089591**	177.57	4.8	ug/L
|	Ca	43	577193.284	1.865	**126667.901390**	6114.51	4.8	ug/L
| >	Sc	45	309599.892	309599.892				ug/L
|	Ti	49	1032.736	0.002	**5.548667**	0.41	7.4	ug/L
|	Co	59	69137.509	0.223	**42.432487**	1.91	4.5	ug/L
|	Ni	60	14780.875	0.048	**46.513745**	2.42	5.2	ug/L
|	Ni	62	2241.660	0.007	**46.836552**	2.51	5.3	ug/L
|	Cu	63	1655.512	0.005	**1.514543**	0.06	3.7	ug/L
|	Cu	65	664.029	0.002	**1.411437**	0.10	7.2	ug/L
|	Zn	66	12980.298	0.042	**55.897254**	3.23	5.8	ug/L
|	Zn	67	3634.192	0.008	**60.069025**	3.72	6.2	ug/L
|	Zn	68	9014.621	0.029	**53.837839**	2.29	4.3	ug/L
|	V	51	3368.437	0.011	**2.217083**	0.33	15.0	ug/L
|	Cr	52	3698.223	0.002	**0.389781**	0.12	30.9	ug/L
|	Cr	53	12733.201	-0.003	**-14.448767**	4.34	30.1	ug/L
|	Mn	55	3288803.438	10.631	**1336.079182**	65.27	4.9	ug/L
|	Fe	54	3612156.612	11.642	**29448.370402**	1604.01	5.4	ug/L
⌊	Fe	57	1455911.909	4.704	**29193.684767**	1489.87	5.1	ug/L
⌈	As	75	35.173	0.000	**1.071214**	0.29	27.0	ug/L
|	Se	77	2341.023	-0.001	**-32.644981**	1.40	4.3	ug/L
|	Se	82	57.730	0.000	**2.444839**	0.12	4.7	ug/L
|	Sr	88	4079452.229	4.100	**467.801601**	17.52	3.7	ug/L
| >	Y	89	995004.819	995004.819				ug/L
|	Mo	95	618.692	0.001	**1.102248**	0.03	2.9	ug/L
|	Mo	97	333.341	0.000	**1.251966**	0.02	1.8	ug/L
⌊	Mo	98	919.096	0.001	**1.309671**	0.02	1.3	ug/L
⌈	Ag	107	16.667	0.000	**0.210057**	0.00	1.3	ug/L
|	Ag	109	7.333	0.000	**0.251872**	0.00	1.9	ug/L
|	Cd	111	23.833	0.000	**0.354219**	0.01	3.7	ug/L
|	Cd	114	50.661	0.000	**0.617128**	0.03	5.7	ug/L

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|>	In	115	154305.062	154305.062				ug/L
|	Sn	120	372.540	-0.001	**0.563462**	0.01	2.4	ug/L
|	Sb	121	218.003	-0.002	**0.142983**	0.03	18.0	ug/L
|	Sb	123	211.327	-0.001	**0.528471**	0.03	4.9	ug/L
⌈	Ba	135	6995.851	0.038	**33.005751**	1.74	5.3	ug/L
|	Ba	137	12013.381	0.066	**32.614876**	1.67	5.1	ug/L
|	Tb	159	175307.629	0.015				ug/L
|>	Ho	165	181593.618	181593.618				ug/L
|	Tl	203	18.000	0.000	**0.027069**	0.01	30.3	ug/L
|	Tl	205	28.000	0.000	**-0.020885**	0.01	34.5	ug/L
⌊	Pb	208	2076.109	0.011	**0.806478**	0.03	4.3	ug/L
	Kr	83	51.600	31.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.600	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		223.714	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.296	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.101
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 18:41:33
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.136
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29778.141	0.021				ug/L
|	Li	7	123406.932	0.386	**132.642919**	4.71	3.6	ug/L
|	Be	9	26859.507	0.086	**125.770474**	5.84	4.6	ug/L
|	B	11	33435.186	0.106	**123.097433**	4.06	3.3	ug/L
|	Na	23	3367380.676	10.747	**5840.489667**	287.60	4.9	ug/L
|	Mg	24	2385124.898	7.635	**5745.648765**	250.85	4.4	ug/L
|	Al	27	7726866.371	24.735	**5735.178319**	286.39	5.0	ug/L
|	K	39	8009326.086	25.481	**6107.905637**	382.55	6.3	ug/L
|	Ca	43	23206.985	0.074	**5006.510118**	245.68	4.9	ug/L
| >	Sc	45	312516.683	312516.683				ug/L
|	Ti	49	11079.974	0.034	**95.925405**	1.93	2.0	ug/L
|	Co	59	150354.443	0.481	**91.490331**	3.77	4.1	ug/L
|	Ni	60	28897.524	0.092	**90.452882**	2.63	2.9	ug/L
|	Ni	62	4321.214	0.014	**89.296975**	2.86	3.2	ug/L
|	Cu	63	69715.953	0.223	**90.917304**	3.63	4.0	ug/L
|	Cu	65	32833.938	0.105	**90.724308**	2.88	3.2	ug/L
|	Zn	66	20730.571	0.066	**88.862953**	3.28	3.7	ug/L
|	Zn	67	4988.285	0.012	**96.227490**	5.67	5.9	ug/L
|	Zn	68	14993.267	0.048	**89.496704**	2.62	2.9	ug/L
|	V	51	165813.598	0.531	**96.871939**	3.16	3.3	ug/L
|	Cr	52	139438.943	0.437	**94.609442**	3.61	3.8	ug/L
|	Cr	53	28697.444	0.048	**82.943322**	4.99	6.0	ug/L
|	Mn	55	227698.226	0.728	**91.722381**	4.12	4.5	ug/L
|	Fe	54	586218.799	1.842	**4659.776070**	180.17	3.9	ug/L
⌊	Fe	57	234159.718	0.748	**4639.931167**	170.92	3.7	ug/L
⌈	As	75	26051.045	0.071	**108.226581**	2.26	2.1	ug/L
|	Se	77	10209.438	0.024	**490.419890**	6.84	1.4	ug/L
|	Se	82	12663.970	0.034	**528.824834**	7.37	1.4	ug/L
|	Sr	88	329706.627	0.893	**102.415607**	2.44	2.4	ug/L
| >	Y	89	369027.347	369027.347				ug/L
|	Mo	95	40106.287	0.109	**101.557486**	2.05	2.0	ug/L
|	Mo	97	24207.393	0.066	**99.876363**	4.09	4.1	ug/L
⌊	Mo	98	61970.367	0.168	**100.224297**	2.23	2.2	ug/L
⌈	Ag	107	103269.983	0.715	**103.077395**	1.75	1.7	ug/L
|	Ag	109	97127.390	0.673	**102.734897**	1.85	1.8	ug/L
|	Cd	111	24646.589	0.171	**104.479896**	1.44	1.4	ug/L
|	Cd	114	54979.074	0.381	**103.018523**	1.43	1.4	ug/L

|>	In	115	144441.452	144441.452				ug/L
|	Sn	120	95110.333	0.655	**101.332345**	2.34	2.3	ug/L
|	Sb	121	67141.117	0.462	**99.950712**	2.17	2.2	ug/L
|	Sb	123	51143.465	0.352	**99.761042**	1.49	1.5	ug/L
⌈	Ba	135	17427.720	0.113	**94.904868**	1.70	1.8	ug/L
|	Ba	137	30125.549	0.195	**95.143290**	1.29	1.4	ug/L
|	Tb	159	143852.094	-0.019				ug/L
|>	Ho	165	154544.874	154544.874				ug/L
|	Tl	203	65642.277	0.425	**109.496399**	1.86	1.7	ug/L
|	Tl	205	158726.090	1.027	**109.204919**	1.41	1.3	ug/L
⌊	Pb	208	215990.762	1.398	**109.367346**	2.94	2.7	ug/L
	Kr	83	18.333	-2.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	132.643		
Be	9	125.770		
B	11	123.097		
Na	23	116.810		
Mg	24	114.913		
Al	27	112.454		
K	39	122.158		
Ca	43	100.130		
Sc	45		87.416	
Ti	49	95.925		
Co	59	91.490		
Ni	60	90.453		
Ni	62	89.297		
Cu	63	90.917		
Cu	65	90.724		
Zn	66	88.863		
Zn	67	96.227		
Zn	68	89.497		
V	51	96.872		
Cr	52	94.609		
Cr	53	82.943		
Mn	55	91.722		
Fe	54	93.196		
Fe	57	92.799		
As	75	108.227		
Se	77	98.084		
Se	82	105.765		
Sr	88	102.416		
Y	89		82.971	
Mo	95	101.557		
Mo	97	99.876		
Mo	98	100.224		
Ag	107	103.077		
Ag	109	102.735		
Cd	111	104.480		
Cd	114	103.019		
In	115		76.099	
Sn	120	101.332		
Sb	121	99.951		

Sb	123	99.761	
Ba	135	94.905	
Ba	137	95.143	
Tb	159		
Ho	165		81.787
Tl	203	109.496	
Tl	205	109.205	
Pb	208	109.367	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Monday, February 15, 2010 18:44:14
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 5.137
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35032.496	0.037				ug/L
|	Li	7	6193.160	0.011	**5.037037**	0.11	2.3	ug/L
|	Be	9	572.021	0.002	**4.040763**	0.17	4.2	ug/L
|	B	11	7750.570	0.023	**28.360826**	1.01	3.6	ug/L
|	Na	23	95185.631	0.269	**152.112486**	5.79	3.8	ug/L
|	Mg	24	26445.381	0.084	**67.634706**	2.36	3.5	ug/L
|	Al	27	79134.975	0.250	**73.006328**	1.81	2.5	ug/L
|	K	39	182028.821	0.416	**94.568166**	6.22	6.6	ug/L
|	Ca	43	1168.089	0.003	**214.129630**	15.97	7.5	ug/L
| >	Sc	45	313961.082	313961.082				ug/L
|	Ti	49	970.728	0.002	**4.861497**	0.41	8.4	ug/L
|	Co	59	3278.033	0.010	**1.901694**	0.17	9.1	ug/L
|	Ni	60	650.028	0.002	**1.619010**	0.17	10.3	ug/L
|	Ni	62	149.335	0.000	**3.179082**	0.57	17.9	ug/L
|	Cu	63	1612.836	0.005	**1.429507**	0.10	7.1	ug/L
|	Cu	65	766.705	0.002	**1.676449**	0.28	16.7	ug/L
|	Zn	66	1518.817	0.005	**5.793246**	0.20	3.5	ug/L
|	Zn	67	1880.231	0.002	**10.694693**	2.87	26.8	ug/L
|	Zn	68	1128.083	0.003	**5.589095**	0.32	5.8	ug/L
|	V	51	19563.507	0.063	**11.583103**	0.46	4.0	ug/L
|	Cr	52	8550.083	0.018	**3.706637**	0.13	3.6	ug/L
|	Cr	53	14078.206	0.001	**-7.345200**	2.94	40.0	ug/L
|	Mn	55	5379.881	0.017	**2.278675**	0.08	3.3	ug/L
|	Fe	54	21853.688	0.035	**89.706658**	6.76	7.5	ug/L
⌊	Fe	57	5437.255	0.016	**96.091420**	2.39	2.5	ug/L
⌈	As	75	503.352	0.002	**3.061438**	0.22	7.3	ug/L
|	Se	77	1510.815	0.000	**2.200842**	3.30	150.1	ug/L
|	Se	82	131.478	0.000	**6.951732**	0.47	6.8	ug/L
|	Sr	88	3783.598	0.010	**1.750434**	0.02	1.3	ug/L
| >	Y	89	374081.217	374081.217				ug/L
|	Mo	95	886.051	0.002	**2.726114**	0.21	7.7	ug/L
|	Mo	97	555.354	0.001	**2.989691**	0.29	9.6	ug/L
⌊	Mo	98	1400.429	0.004	**2.981035**	0.13	4.2	ug/L
⌈	Ag	107	1129.417	0.008	**1.288335**	0.07	5.1	ug/L
|	Ag	109	1008.066	0.007	**1.279157**	0.05	4.0	ug/L
|	Cd	111	533.352	0.004	**2.453534**	0.08	3.1	ug/L
|	Cd	114	1217.100	0.008	**2.734915**	0.03	1.0	ug/L

|>	In	115	148473.119	148473.119				ug/L
|	Sn	120	5021.537	0.031	**5.387396**	0.09	1.7	ug/L
|	Sb	121	5037.650	0.031	**7.147531**	0.35	4.9	ug/L
\L	Sb	123	3745.905	0.023	**7.241796**	0.08	1.0	ug/L
|	Ba	135	898.719	0.006	**5.728360**	0.39	6.8	ug/L
|	Ba	137	1594.165	0.010	**5.478882**	0.22	4.1	ug/L
|	Tb	159	144456.099	-0.013				ug/L
|>	Ho	165	154186.014	154186.014				ug/L
|	Tl	203	1395.460	0.009	**2.335707**	0.11	4.6	ug/L
|	Tl	205	3360.734	0.022	**2.281458**	0.04	1.6	ug/L
\L	Pb	208	2303.469	0.015	**1.080912**	0.04	3.5	ug/L
	Kr	83	15.733	-4.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	251.852		
Be	9	202.038		
B	11	141.804		
Na	23	152.112		
Mg	24	135.269		
Al	27	146.013		
K	39	126.091		
Ca	43	107.065		
Sc	45		87.820	
Ti	49	97.230		
Co	59	95.085		
Ni	60	80.950		
Ni	62	158.954		
Cu	63	71.475		
Cu	65	83.822		
Zn	66	96.554		
Zn	67	178.245		
Zn	68	93.152		
V	51	115.831		
Cr	52	92.666		
Cr	53	-183.630		
Mn	55	113.934		
Fe	54	89.707		
Fe	57	96.091		
As	75	76.536		
Se	77	44.017		
Se	82	139.035		
Sr	88	175.043		
Y	89		84.107	
Mo	95	136.306		
Mo	97	149.485		
Mo	98	149.052		
Ag	107	128.833		
Ag	109	127.916		
Cd	111	122.677		
Cd	114	136.746		
In	115		78.223	
Sn	120	134.685		
Sb	121	142.951		

Sb	123	144.836	
Ba	135	114.567	
Ba	137	109.578	
Tb	159		
Ho	165		81.597
Tl	203	116.785	
Tl	205	114.073	
Pb	208	108.091	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 18:46:56
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.138
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	33755.685	0.033				ug/L
|	Li	7	3644.864	0.003	**2.286281**	0.17	7.6	ug/L
|	Be	9	3.333	-0.000	**1.418892**	0.02	1.4	ug/L
|	B	11	977.396	0.002	**3.519118**	0.29	8.3	ug/L
|	Na	23	21162.522	0.034	**24.117795**	2.99	12.4	ug/L
|	Mg	24	1400.129	0.004	**7.608950**	0.44	5.8	ug/L
|	Al	27	2105.289	0.005	**16.232430**	0.09	0.6	ug/L
|	K	39	60235.496	0.028	**1.468911**	2.51	170.9	ug/L
|	Ca	43	148.001	-0.000	**-6.379942**	5.17	81.1	ug/L
| >	Sc	45	313201.865	313201.865				ug/L
|	Ti	49	388.677	-0.000	**-0.349397**	0.34	96.0	ug/L
|	Co	59	14.667	-0.000	**-0.079755**	0.00	6.1	ug/L
|	Ni	60	13.333	-0.000	**-0.376519**	0.02	5.3	ug/L
|	Ni	62	28.000	-0.000	**0.694268**	0.14	20.0	ug/L
|	Cu	63	350.008	0.001	**-0.222556**	0.03	13.6	ug/L
|	Cu	65	168.002	0.000	**0.018206**	0.04	212.3	ug/L
|	Zn	66	113.334	0.000	**-0.254200**	0.18	72.2	ug/L
|	Zn	67	1493.478	0.001	**0.299631**	0.85	282.7	ug/L
|	Zn	68	208.003	0.000	**0.050663**	0.35	699.2	ug/L
|	V	51	1497.778	0.005	**1.114899**	0.21	19.2	ug/L
|	Cr	52	2943.230	-0.000	**-0.164573**	0.07	42.7	ug/L
|	Cr	53	14356.056	0.002	**-5.471431**	2.96	54.2	ug/L
|	Mn	55	274.672	0.000	**0.233994**	0.00	1.4	ug/L
|	Fe	54	10414.097	-0.001	**-2.349294**	5.72	243.5	ug/L
⌊	Fe	57	555.354	-0.000	**-0.426098**	1.09	254.9	ug/L
⌜	As	75	-378.373	-0.001	**-0.504828**	0.75	148.8	ug/L
|	Se	77	1386.125	0.000	**-4.956840**	6.10	123.0	ug/L
|	Se	82	4.349	0.000	**1.736753**	0.16	9.1	ug/L
|	Sr	88	226.003	0.000	**0.666471**	0.01	1.1	ug/L
| >	Y	89	375896.494	375896.494				ug/L
|	Mo	95	19.333	0.000	**0.571652**	0.02	3.2	ug/L
|	Mo	97	8.000	0.000	**0.778281**	0.03	4.1	ug/L
⌊	Mo	98	22.447	0.000	**0.798148**	0.02	2.3	ug/L
⌜	Ag	107	4.667	0.000	**0.198897**	0.01	3.1	ug/L
|	Ag	109	8.667	0.000	**0.253355**	0.00	1.0	ug/L
|	Cd	111	2.000	0.000	**0.267682**	0.00	0.1	ug/L
|	Cd	114	-0.224	0.000	**0.527592**	0.00	0.9	ug/L

|>	In	115	149996.447	149996.447				ug/L
|	Sn	120	393.968	-0.001	**0.596080**	0.01	1.2	ug/L
|	Sb	121	403.344	-0.000	**0.417799**	0.04	10.4	ug/L
|	Sb	123	342.922	-0.000	**0.790235**	0.14	17.4	ug/L
|	Ba	135	11.333	0.000	**0.927658**	0.03	3.7	ug/L
|	Ba	137	24.667	0.000	**0.529860**	0.02	2.9	ug/L
|	Tb	159	145134.468	-0.024				ug/L
|>	Ho	165	156824.001	156824.001				ug/L
|	Tl	203	8.000	0.000	**0.014616**	0.01	99.7	ug/L
|	Tl	205	38.000	0.000	**-0.011652**	0.01	73.6	ug/L
|	Pb	208	88.667	0.000	**-0.044376**	0.01	15.9	ug/L
	Kr	83	15.000	-5.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.608	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.515	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.026	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	82.993
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Monday, February 15, 2010 18:49:37
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSA.139
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31953.429	0.026				ug/L
|	Li	7	3541.482	0.003	**2.118719**	0.15	7.3	ug/L
|	Be	9	4.667	-0.000	**1.424462**	0.01	1.0	ug/L
|	B	11	1150.753	0.002	**4.099261**	0.33	8.1	ug/L
|	Na	23	62576017.030	196.840	**106874.026708**	3476.32	3.3	ug/L
|	Mg	24	44929736.259	141.346	**106286.121196**	1639.15	1.5	ug/L
|	Al	27	138999587.477	437.382	**101159.633423**	2377.09	2.3	ug/L
|	K	39	136158774.680	428.139	**102707.235268**	2776.13	2.7	ug/L
|	Ca	43	462850.673	1.456	**98860.248864**	1607.01	1.6	ug/L
| >	Sc	45	317871.108	317871.108				ug/L
|	Ti	49	222299.196	0.698	**1963.939887**	20.85	1.1	ug/L
|	Co	59	2795.175	0.009	**1.585323**	0.07	4.6	ug/L
|	Ni	60	869.382	0.003	**2.269022**	0.03	1.4	ug/L
|	Ni	62	588.023	0.002	**12.044621**	0.72	6.0	ug/L
|	Cu	63	1618.837	0.005	**1.409269**	0.05	3.5	ug/L
|	Cu	65	912.054	0.003	**2.042508**	0.05	2.5	ug/L
|	Zn	66	790.707	0.002	**2.613457**	0.18	6.7	ug/L
|	Zn	67	1453.471	0.001	**-1.366820**	1.78	130.6	ug/L
|	Zn	68	298.673	0.000	**0.573290**	0.23	40.8	ug/L
|	V	51	1494.949	0.005	**1.102326**	0.42	37.9	ug/L
|	Cr	52	5134.381	0.007	**1.300975**	0.13	10.1	ug/L
|	Cr	53	11536.648	-0.008	**-23.834402**	1.16	4.9	ug/L
|	Mn	55	17447.099	0.054	**7.023645**	0.21	3.0	ug/L
|	Fe	54	11421201.530	35.903	**90809.310098**	1513.71	1.7	ug/L
⌊	Fe	57	4682989.177	14.733	**91425.977652**	1256.52	1.4	ug/L
⌜	As	75	-418.466	-0.001	**-0.606132**	0.59	97.7	ug/L
|	Se	77	1758.868	0.001	**11.738558**	0.80	6.8	ug/L
|	Se	82	-17.650	-0.000	**0.861393**	0.20	23.7	ug/L
|	Sr	88	8547.413	0.022	**3.090906**	0.03	0.8	ug/L
| >	Y	89	390684.723	390684.723				ug/L
|	Mo	95	874369.897	2.238	**2080.945902**	45.07	2.2	ug/L
|	Mo	97	527005.154	1.349	**2038.866797**	27.15	1.3	ug/L
⌊	Mo	98	1359561.718	3.480	**2061.482590**	6.73	0.3	ug/L
⌜	Ag	107	132.001	0.001	**0.309818**	0.02	6.4	ug/L
|	Ag	109	98.667	0.001	**0.335828**	0.00	1.1	ug/L
|	Cd	111	621.859	0.004	**2.567685**	0.18	7.1	ug/L
|	Cd	114	1052.143	0.006	**2.249621**	0.09	3.9	ug/L

|>	In	115	164600.296	164600.296				ug/L
|	Sn	120	540.669	0.000	**0.697616**	0.08	10.9	ug/L
|	Sb	121	390.010	-0.001	**0.348377**	0.04	11.1	ug/L
|	Sb	123	301.838	-0.001	**0.659695**	0.02	2.6	ug/L
⌈	Ba	135	370.009	0.002	**2.592262**	0.03	1.1	ug/L
|	Ba	137	616.691	0.003	**2.129323**	0.15	7.1	ug/L
|	Tb	159	170516.729	0.004				ug/L
|>	Ho	165	178827.780	178827.780				ug/L
|	Tl	203	102.667	0.001	**0.149714**	0.05	30.8	ug/L
|	Tl	205	247.337	0.001	**0.109602**	0.02	15.3	ug/L
⌊	Pb	208	600.676	0.003	**0.174468**	0.03	17.3	ug/L
	Kr	83	40.400	19.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		88.914	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.840	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		86.720	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.638
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Monday, February 15, 2010 18:52:18
Sample Type: Spike - 2 of 94
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSAB.140
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31539.928	0.023				ug/L
|	Li	7	3589.504	0.003	**2.104227**	0.02	1.0	ug/L
|	Be	9	8.000	0.000	**1.439270**	0.02	1.1	ug/L
|	B	11	1157.421	0.002	**4.050198**	0.16	4.1	ug/L
|	Na	23	64035890.515	198.090	**107552.565660**	3138.29	2.9	ug/L
|	Mg	24	45407311.078	140.487	**105640.268038**	2890.79	2.7	ug/L
|	Al	27	141396273.683	437.443	**101173.625671**	1795.29	1.8	ug/L
|	K	39	137934565.677	426.494	**102312.629843**	898.22	0.9	ug/L
|	Ca	43	476436.564	1.473	**100043.374973**	2118.16	2.1	ug/L
| >	Sc	45	323271.794	323271.794				ug/L
|	Ti	49	228914.138	0.707	**1988.447472**	30.67	1.5	ug/L
|	Co	59	131196.101	0.406	**77.136533**	1.44	1.9	ug/L
|	Ni	60	24539.748	0.076	**74.169456**	0.91	1.2	ug/L
|	Ni	62	4243.838	0.013	**84.745867**	2.16	2.6	ug/L
|	Cu	63	56512.200	0.175	**71.072629**	1.27	1.8	ug/L
|	Cu	65	26782.548	0.083	**71.431270**	1.32	1.8	ug/L
|	Zn	66	8954.543	0.027	**36.661782**	0.48	1.3	ug/L
|	Zn	67	2741.822	0.005	**32.114334**	2.01	6.3	ug/L
|	Zn	68	6045.042	0.018	**34.137284**	0.95	2.8	ug/L
|	V	51	142018.039	0.440	**80.223496**	1.19	1.5	ug/L
|	Cr	52	120103.768	0.362	**78.383382**	0.59	0.8	ug/L
|	Cr	53	24977.824	0.033	**54.929696**	2.66	4.8	ug/L
|	Mn	55	211972.427	0.655	**82.528396**	1.15	1.4	ug/L
|	Fe	54	11820158.974	36.531	**92399.083803**	1470.92	1.6	ug/L
⌞	Fe	57	4821126.000	14.912	**92540.010221**	1114.78	1.2	ug/L
⌜	As	75	8574.167	0.022	**33.803131**	0.28	0.8	ug/L
|	Se	77	2619.780	0.003	**55.017911**	3.63	6.6	ug/L
|	Se	82	999.679	0.003	**40.226313**	0.57	1.4	ug/L
|	Sr	88	8693.577	0.022	**3.092753**	0.03	1.0	ug/L
| >	Y	89	397136.090	397136.090				ug/L
|	Mo	95	898333.850	2.262	**2103.248248**	22.92	1.1	ug/L
|	Mo	97	546950.399	1.378	**2081.995162**	36.70	1.8	ug/L
⌞	Mo	98	1403075.959	3.534	**2093.425470**	38.25	1.8	ug/L
⌜	Ag	107	22171.243	0.131	**19.098405**	0.39	2.1	ug/L
|	Ag	109	20829.497	0.123	**19.054625**	0.26	1.3	ug/L
|	Cd	111	11302.465	0.067	**41.164327**	1.00	2.4	ug/L
|	Cd	114	25150.159	0.149	**40.656889**	0.97	2.4	ug/L

|>	In	115	168765.866	168765.866				ug/L
|	Sn	120	515.975	-0.000	**0.662212**	0.01	2.2	ug/L
|	Sb	121	330.007	-0.001	**0.258740**	0.02	8.1	ug/L
\L	Sb	123	254.251	-0.001	**0.567507**	0.04	7.7	ug/L
|	Ba	135	366.675	0.002	**2.566157**	0.12	4.8	ug/L
|	Ba	137	607.357	0.003	**2.091655**	0.12	5.6	ug/L
|	Tb	159	173550.875	0.014				ug/L
|>	Ho	165	180122.541	180122.541				ug/L
|	Tl	203	108.001	0.001	**0.155855**	0.00	2.7	ug/L
|	Tl	205	233.337	0.001	**0.100393**	0.01	8.9	ug/L
\L	Pb	208	625.343	0.003	**0.183092**	0.01	8.1	ug/L
	Kr	83	41.400	20.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.424	
Ti	49			
Co	59			94.439
Ni	60			89.876
Ni	62			90.877
Cu	63			87.079
Cu	65			86.736
Zn	66			85.121
Zn	67			83.703
Zn	68			83.910
V	51			98.901
Cr	52			96.353
Cr	53			98.455
Mn	55			94.381
Fe	54			
Fe	57			
As	75			86.023
Se	77			108.198
Se	82			98.412
Sr	88			
Y	89		89.291	
Mo	95			
Mo	97			
Mo	98			
Ag	107			93.943
Ag	109			93.594
Cd	111			96.492
Cd	114			96.018
In	115		88.915	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.323
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: MBLK-87096
Sample Date/Time: Monday, February 15, 2010 18:55:00
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\MBLK-87096.141
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	35294.091	0.039				ug/L
|	Li	7	3734.909	0.003	**2.421866**	0.10	4.0	ug/L
|	Be	9	2.667	-0.000	**1.415529**	0.01	1.0	ug/L
|	B	11	1967.585	0.005	**7.236648**	0.20	2.7	ug/L
|	Na	23	26980.862	0.053	**34.786113**	5.86	16.9	ug/L
|	Mg	24	9573.389	0.031	**27.541419**	10.58	38.4	ug/L
|	Al	27	46273.534	0.147	**49.282016**	8.42	17.1	ug/L
|	K	39	79678.589	0.093	**17.049930**	5.21	30.6	ug/L
|	Ca	43	313.340	0.000	**30.100696**	1.04	3.4	ug/L
| >	Sc	45	310084.456	310084.456				ug/L
|	Ti	49	875.383	0.001	**4.109381**	0.53	12.9	ug/L
|	Co	59	29.333	0.000	**-0.070842**	0.01	13.3	ug/L
|	Ni	60	22.667	0.000	**-0.346406**	0.01	3.0	ug/L
|	Ni	62	21.333	-0.000	**0.556247**	0.25	44.4	ug/L
|	Cu	63	136.668	0.000	**-0.499998**	0.02	3.4	ug/L
|	Cu	65	58.667	0.000	**-0.282495**	0.04	14.5	ug/L
|	Zn	66	270.671	0.001	**0.435131**	0.06	12.9	ug/L
|	Zn	67	1941.579	0.002	**13.137139**	3.14	23.9	ug/L
|	Zn	68	273.338	0.000	**0.459068**	0.22	47.7	ug/L
|	V	51	1510.277	0.005	**1.135832**	0.41	36.2	ug/L
|	Cr	52	3129.304	0.001	**-0.011603**	0.14	1185.3	ug/L
|	Cr	53	15861.673	0.007	**4.790428**	3.13	65.4	ug/L
|	Mn	55	380.676	0.001	**0.278512**	0.02	8.0	ug/L
|	Fe	54	17789.124	0.023	**58.842956**	11.30	19.2	ug/L
⌞	Fe	57	1729.531	0.004	**23.274014**	5.92	25.4	ug/L
⌜	As	75	-350.933	-0.001	**-0.420622**	0.60	143.2	ug/L
|	Se	77	1790.876	0.001	**18.555605**	6.57	35.4	ug/L
|	Se	82	7.214	0.000	**1.853762**	0.12	6.5	ug/L
|	Sr	88	522.018	0.001	**0.758584**	0.01	1.8	ug/L
| >	Y	89	370759.741	370759.741				ug/L
|	Mo	95	570.688	0.002	**1.954878**	0.08	4.3	ug/L
|	Mo	97	347.341	0.001	**2.162118**	0.30	14.0	ug/L
⌞	Mo	98	866.643	0.002	**2.147633**	0.24	11.2	ug/L
⌜	Ag	107	5.333	0.000	**0.199684**	0.00	0.6	ug/L
|	Ag	109	3.333	0.000	**0.247961**	0.00	1.3	ug/L
|	Cd	111	3.667	0.000	**0.274886**	0.00	0.5	ug/L
|	Cd	114	6.085	0.000	**0.539222**	0.02	3.2	ug/L

|>	In	115	145893.679	145893.679				ug/L
|	Sn	120	356.641	-0.001	**0.568152**	0.01	2.0	ug/L
|	Sb	121	196.669	-0.002	**0.128040**	0.02	14.0	ug/L
\L	Sb	123	192.333	-0.001	**0.514504**	0.09	17.6	ug/L
|	Ba	135	44.667	0.000	**1.108629**	0.03	2.8	ug/L
|	Ba	137	77.334	0.000	**0.697057**	0.02	2.7	ug/L
|	Tb	159	142445.637	-0.025				ug/L
|>	Ho	165	154077.914	154077.914				ug/L
|	Tl	203	2.667	-0.000	**0.005827**	0.01	88.1	ug/L
|	Tl	205	8.667	0.000	**-0.031457**	0.00	6.9	ug/L
\L	Pb	208	58.000	0.000	**-0.059195**	0.00	6.4	ug/L
	Kr	83	15.200	-5.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.736	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.360	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.864	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.540
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: LCS-87096
Sample Date/Time: Monday, February 15, 2010 18:57:41
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\LCS-87096.142
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31015.790	0.022				ug/L
|	Li	7	128132.872	0.392	**134.579152**	7.41	5.5	ug/L
|	Be	9	25631.334	0.080	**117.368867**	7.54	6.4	ug/L
|	B	11	33777.364	0.104	**121.508762**	6.82	5.6	ug/L
|	Na	23	3404059.997	10.616	**5769.566971**	408.36	7.1	ug/L
|	Mg	24	2495681.897	7.808	**5875.597295**	430.54	7.3	ug/L
|	Al	27	7901671.078	24.709	**5729.190771**	313.77	5.5	ug/L
|	K	39	8648194.644	26.880	**6443.534906**	324.22	5.0	ug/L
|	Ca	43	23546.659	0.073	**4961.759294**	238.95	4.8	ug/L
| >	Sc	45	320092.784	320092.784				ug/L
|	Ti	49	11492.579	0.035	**97.243187**	3.61	3.7	ug/L
|	Co	59	152937.757	0.478	**90.910250**	4.49	4.9	ug/L
|	Ni	60	29155.166	0.091	**89.166172**	4.66	5.2	ug/L
|	Ni	62	4534.671	0.014	**91.559587**	5.51	6.0	ug/L
|	Cu	63	69512.009	0.217	**88.510556**	2.94	3.3	ug/L
|	Cu	65	33298.600	0.104	**89.881435**	4.26	4.7	ug/L
|	Zn	66	18677.327	0.058	**78.139611**	4.61	5.9	ug/L
|	Zn	67	5046.990	0.012	**94.705039**	8.45	8.9	ug/L
|	Zn	68	13637.411	0.042	**79.372351**	2.62	3.3	ug/L
|	V	51	167109.039	0.523	**95.357462**	3.38	3.5	ug/L
|	Cr	52	142704.387	0.437	**94.585142**	4.29	4.5	ug/L
|	Cr	53	31852.485	0.056	**97.792879**	6.36	6.5	ug/L
|	Mn	55	229806.927	0.718	**90.430246**	4.30	4.8	ug/L
|	Fe	54	591980.683	1.816	**4595.533237**	218.47	4.8	ug/L
⌊	Fe	57	232386.230	0.725	**4497.571870**	183.37	4.1	ug/L
⌈	As	75	23626.660	0.063	**95.376098**	5.81	6.1	ug/L
|	Se	77	9523.230	0.021	**436.439004**	38.06	8.7	ug/L
|	Se	82	10916.842	0.029	**442.681234**	26.38	6.0	ug/L
|	Sr	88	359814.351	0.946	**108.423079**	6.17	5.7	ug/L
| >	Y	89	380916.915	380916.915				ug/L
|	Mo	95	40696.745	0.107	**100.010497**	6.07	6.1	ug/L
|	Mo	97	25010.632	0.066	**100.192501**	7.95	7.9	ug/L
⌊	Mo	98	63541.543	0.167	**99.777536**	7.67	7.7	ug/L
⌈	Ag	107	106922.397	0.722	**104.072698**	6.53	6.3	ug/L
|	Ag	109	99612.454	0.673	**102.738910**	6.15	6.0	ug/L
|	Cd	111	23799.100	0.161	**98.377193**	5.18	5.3	ug/L
|	Cd	114	54023.558	0.365	**98.702664**	4.52	4.6	ug/L

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|>	In	115	148315.594	148315.594				ug/L
|	Sn	120	96318.133	0.647	**100.040443**	5.49	5.5	ug/L
|	Sb	121	72988.067	0.490	**105.945414**	5.82	5.5	ug/L
|	Sb	123	55326.619	0.371	**105.203019**	5.20	4.9	ug/L
⌈	Ba	135	18535.646	0.115	**96.592277**	4.09	4.2	ug/L
|	Ba	137	31933.494	0.198	**96.502761**	2.73	2.8	ug/L
|	Tb	159	149408.649	-0.025				ug/L
|>	Ho	165	161521.307	161521.307				ug/L
|	Tl	203	69766.378	0.432	**111.383896**	4.26	3.8	ug/L
|	Tl	205	169090.603	1.048	**111.378472**	5.42	4.9	ug/L
⌊	Pb	208	229139.548	1.419	**111.029015**	4.85	4.4	ug/L
	Kr	83	15.600	-4.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.535	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		85.644	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.140	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.479
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-19A
Sample Date/Time: Monday, February 15, 2010 19:00:22
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-19A.143
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34566.849	0.036				ug/L
|	Li	7	11016.553	0.027	**10.307870**	0.41	4.0	ug/L
|	Be	9	14.000	0.000	**1.468135**	0.01	0.6	ug/L
|	B	11	29967.003	0.094	**110.232178**	5.95	5.4	ug/L
|	Na	23	31474872.321	100.621	**54634.741066**	1650.66	3.0	ug/L
|	Mg	24	1182299.352	3.781	**2847.487137**	125.17	4.4	ug/L
|	Al	27	24144.602	0.075	**32.538673**	1.32	4.1	ug/L
|	K	39	1393184.029	4.291	**1024.234066**	42.31	4.1	ug/L
|	Ca	43	21352.262	0.068	**4597.989813**	65.14	1.4	ug/L
| >	Sc	45	312758.883	312758.883				ug/L
|	Ti	49	529.352	0.000	**0.918544**	0.31	33.4	ug/L
|	Co	59	132.001	0.000	**-0.008245**	0.01	138.5	ug/L
|	Ni	60	131.334	0.000	**-0.005280**	0.08	1501.6	ug/L
|	Ni	62	29.333	0.000	**0.722046**	0.20	28.0	ug/L
|	Cu	63	910.054	0.003	**0.513450**	0.06	12.4	ug/L
|	Cu	65	352.008	0.001	**0.529226**	0.14	26.7	ug/L
|	Zn	66	448.013	0.001	**1.190190**	0.10	8.1	ug/L
|	Zn	67	1917.573	0.002	**11.987441**	3.35	27.9	ug/L
|	Zn	68	497.349	0.001	**1.801958**	0.28	15.7	ug/L
|	V	51	1769.856	0.006	**1.274216**	0.19	15.3	ug/L
|	Cr	52	3409.422	0.001	**0.161723**	0.05	29.8	ug/L
|	Cr	53	15760.802	0.006	**3.280650**	3.01	91.8	ug/L
|	Mn	55	16104.174	0.051	**6.594995**	0.12	1.8	ug/L
|	Fe	54	17841.324	0.022	**57.796042**	2.16	3.7	ug/L
⌊	Fe	57	2571.097	0.006	**39.583159**	3.22	8.1	ug/L
⌈	As	75	767.452	0.002	**4.168112**	0.79	19.1	ug/L
|	Se	77	1812.214	0.001	**20.480527**	8.26	40.3	ug/L
|	Se	82	11.089	0.000	**2.016524**	0.12	6.0	ug/L
|	Sr	88	122058.954	0.331	**38.370586**	0.90	2.3	ug/L
| >	Y	89	368296.577	368296.577				ug/L
|	Mo	95	1394.127	0.004	**4.046649**	0.27	6.6	ug/L
|	Mo	97	859.382	0.002	**4.274686**	0.36	8.5	ug/L
⌊	Mo	98	2250.184	0.006	**4.381837**	0.21	4.9	ug/L
⌈	Ag	107	13.333	0.000	**0.207693**	0.00	0.5	ug/L
|	Ag	109	15.333	0.000	**0.260702**	0.00	1.1	ug/L
|	Cd	111	9.333	0.000	**0.298998**	0.01	1.9	ug/L
|	Cd	114	12.255	0.000	**0.550772**	0.02	3.5	ug/L

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|>	In	115	144535.559	144535.559				ug/L
|	Sn	120	409.986	-0.000	**0.629288**	0.06	9.2	ug/L
|	Sb	121	442.013	0.000	**0.495872**	0.06	11.3	ug/L
\L	Sb	123	310.421	-0.000	**0.748800**	0.09	11.7	ug/L
⌈	Ba	135	4994.955	0.032	**27.780733**	0.93	3.3	ug/L
|	Ba	137	8505.367	0.055	**27.151363**	0.64	2.3	ug/L
|	Tb	159	142812.484	-0.027				ug/L
|>	Ho	165	154761.633	154761.633				ug/L
|	Tl	203	168.002	0.001	**0.281333**	0.04	14.6	ug/L
|	Tl	205	398.011	0.003	**0.236741**	0.08	33.2	ug/L
\L	Pb	208	844.685	0.005	**0.338775**	0.02	4.9	ug/L
	Kr	83	14.133	-6.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.484	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		82.807	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.149	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.902
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-19ASD
Sample Date/Time: Monday, February 15, 2010 19:03:03
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-19ASD.144
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	35423.311	0.036				ug/L
|	Li	7	5360.535	0.008	**20.093768**	0.58	2.9	ug/L
|	Be	9	8.667	0.000	**7.213522**	0.12	1.6	ug/L
|	B	11	6795.001	0.020	**121.722191**	2.80	2.3	ug/L
|	Na	23	6443881.560	20.085	**54550.917769**	844.84	1.5	ug/L
|	Mg	24	241155.842	0.752	**2851.839915**	32.49	1.1	ug/L
|	Al	27	6706.257	0.019	**97.596116**	0.53	0.5	ug/L
|	K	39	331426.389	0.870	**1017.846364**	31.49	3.1	ug/L
|	Ca	43	4558.688	0.014	**4637.252283**	263.65	5.7	ug/L
| >	Sc	45	320335.161	320335.161				ug/L
|	Ti	49	354.008	-0.000	**-3.659219**	1.32	36.2	ug/L
|	Co	59	45.333	0.000	**-0.308613**	0.02	7.6	ug/L
|	Ni	60	28.667	0.000	**-1.652090**	0.03	1.8	ug/L
|	Ni	62	22.667	-0.000	**2.870126**	0.59	20.5	ug/L
|	Cu	63	204.003	0.000	**-2.100225**	0.15	7.1	ug/L
|	Cu	65	98.667	0.000	**-0.902098**	0.28	30.7	ug/L
|	Zn	66	148.001	0.000	**-0.602547**	0.56	92.4	ug/L
|	Zn	67	1677.518	0.001	**21.807291**	26.08	119.6	ug/L
|	Zn	68	202.669	0.000	**-0.044716**	0.68	1518.0	ug/L
|	V	51	1100.868	0.004	**4.331000**	0.94	21.7	ug/L
|	Cr	52	3115.965	0.000	**-0.467562**	0.35	74.0	ug/L
|	Cr	53	15454.177	0.004	**-4.232700**	9.14	215.9	ug/L
|	Mn	55	3460.112	0.010	**7.405014**	0.11	1.5	ug/L
|	Fe	54	11753.156	0.002	**31.694446**	12.31	38.9	ug/L
⌞	Fe	57	974.728	0.001	**37.260946**	1.50	4.0	ug/L
⌜	As	75	-125.323	0.000	**2.552219**	1.40	54.9	ug/L
|	Se	77	1611.502	0.001	**34.329908**	17.82	51.9	ug/L
|	Se	82	5.550	0.000	**8.896731**	1.18	13.2	ug/L
|	Sr	88	25179.835	0.066	**40.962336**	0.77	1.9	ug/L
| >	Y	89	377753.928	377753.928				ug/L
|	Mo	95	294.672	0.001	**6.248222**	0.39	6.3	ug/L
|	Mo	97	169.335	0.000	**7.117592**	0.23	3.3	ug/L
⌞	Mo	98	470.608	0.001	**7.503711**	0.25	3.3	ug/L
⌜	Ag	107	9.333	0.000	**1.016305**	0.01	1.1	ug/L
|	Ag	109	10.000	0.000	**1.272690**	0.01	0.8	ug/L
|	Cd	111	2.167	0.000	**1.341203**	0.02	1.1	ug/L
|	Cd	114	9.431	0.000	**2.723315**	0.06	2.2	ug/L

|>	In	115	151974.029	151974.029				ug/L
|	Sn	120	431.345	-0.000	**3.142950**	0.06	1.9	ug/L
|	Sb	121	255.338	-0.001	**0.997047**	0.12	11.8	ug/L
\L	Sb	123	196.669	-0.001	**2.540529**	0.19	7.6	ug/L
|	Ba	135	1072.075	0.007	**32.548892**	1.30	4.0	ug/L
|	Ba	137	1831.551	0.011	**30.338354**	0.31	1.0	ug/L
|	Tb	159	148437.982	-0.013				ug/L
|>	Ho	165	158435.065	158435.065				ug/L
|	Tl	203	19.333	0.000	**0.164360**	0.06	35.5	ug/L
|	Tl	205	46.667	0.000	**-0.030696**	0.03	110.0	ug/L
\L	Pb	208	200.001	0.001	**0.050638**	0.02	47.9	ug/L
	Kr	83	14.867	-5.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.603	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.933	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.068	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	83.846
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-19AMS
Sample Date/Time: Monday, February 15, 2010 19:05:44
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-19AMS.145
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30221.964	0.019				ug/L
|	Li	7	119357.820	0.363	**124.637305**	3.77	3.0	ug/L
|	Be	9	22450.723	0.070	**102.471971**	0.64	0.6	ug/L
|	B	11	57693.611	0.178	**206.592456**	1.50	0.7	ug/L
|	Na	23	35772739.859	111.324	**60445.853761**	731.19	1.2	ug/L
|	Mg	24	3444744.027	10.722	**8066.571499**	83.58	1.0	ug/L
|	Al	27	6844330.903	21.304	**4941.613184**	38.57	0.8	ug/L
|	K	39	9143936.297	28.296	**6783.216425**	309.77	4.6	ug/L
|	Ca	43	43206.392	0.134	**9094.167929**	168.67	1.9	ug/L
| >	Sc	45	321252.132	321252.132				ug/L
|	Ti	49	10244.818	0.031	**85.892089**	1.75	2.0	ug/L
|	Co	59	132449.230	0.412	**78.365584**	1.12	1.4	ug/L
|	Ni	60	25054.742	0.078	**76.225145**	1.99	2.6	ug/L
|	Ni	62	3903.658	0.012	**78.475167**	3.90	5.0	ug/L
|	Cu	63	60762.413	0.189	**76.965936**	1.93	2.5	ug/L
|	Cu	65	28824.589	0.090	**77.404882**	2.31	3.0	ug/L
|	Zn	66	17171.150	0.053	**71.431716**	1.35	1.9	ug/L
|	Zn	67	4642.734	0.011	**83.299316**	3.15	3.8	ug/L
|	Zn	68	12300.498	0.038	**71.187909**	2.89	4.1	ug/L
|	V	51	149078.267	0.464	**84.743119**	3.38	4.0	ug/L
|	Cr	52	125422.463	0.381	**82.492668**	2.05	2.5	ug/L
|	Cr	53	30006.427	0.049	**85.930297**	1.99	2.3	ug/L
|	Mn	55	212307.071	0.660	**83.178429**	1.41	1.7	ug/L
|	Fe	54	523612.232	1.595	**4036.502946**	82.18	2.0	ug/L
⌊	Fe	57	206058.934	0.640	**3969.651987**	79.67	2.0	ug/L
⌈	As	75	22421.271	0.059	**89.912898**	4.21	4.7	ug/L
|	Se	77	8506.702	0.019	**377.580776**	5.32	1.4	ug/L
|	Se	82	9863.345	0.026	**397.173643**	12.36	3.1	ug/L
|	Sr	88	444357.614	1.160	**132.770748**	1.92	1.4	ug/L
| >	Y	89	383060.873	383060.873				ug/L
|	Mo	95	37459.657	0.098	**91.421760**	0.55	0.6	ug/L
|	Mo	97	22690.753	0.059	**90.247107**	1.18	1.3	ug/L
⌊	Mo	98	57607.748	0.150	**89.821598**	0.60	0.7	ug/L
⌈	Ag	107	90620.009	0.606	**87.421392**	0.38	0.4	ug/L
|	Ag	109	85646.896	0.573	**87.557978**	0.60	0.7	ug/L
|	Cd	111	20931.775	0.140	**85.780146**	1.01	1.2	ug/L
|	Cd	114	47233.159	0.316	**85.606611**	1.01	1.2	ug/L

|>	In	115	149478.334	149478.334				ug/L
|	Sn	120	84242.824	0.560	**86.731518**	0.67	0.8	ug/L
|	Sb	121	65028.404	0.432	**93.519646**	1.28	1.4	ug/L
|	Sb	123	49291.004	0.327	**92.912535**	1.21	1.3	ug/L
|	Ba	135	21524.073	0.132	**110.850284**	0.20	0.2	ug/L
|	Ba	137	37008.152	0.227	**110.621902**	1.22	1.1	ug/L
|	Tb	159	151442.429	-0.022				ug/L
|>	Ho	165	163152.784	163152.784				ug/L
|	Tl	203	59163.998	0.363	**93.471699**	1.14	1.2	ug/L
|	Tl	205	143560.159	0.880	**93.554218**	1.92	2.1	ug/L
|	Pb	208	199333.101	1.222	**95.561628**	1.20	1.3	ug/L
	Kr	83	17.000	-3.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.859	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.126	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		78.753	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	86.342
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-19AMSD
Sample Date/Time: Monday, February 15, 2010 19:08:24
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-19AMSD.146
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30523.913	0.018				ug/L
|	Li	7	112282.878	0.335	**115.013551**	6.73	5.9	ug/L
|	Be	9	21847.656	0.067	**97.956637**	4.02	4.1	ug/L
|	B	11	56502.879	0.171	**198.656390**	10.45	5.3	ug/L
|	Na	23	33880743.823	103.511	**56203.849707**	2816.80	5.0	ug/L
|	Mg	24	3308266.026	10.106	**7603.501682**	237.75	3.1	ug/L
|	Al	27	6582236.123	20.119	**4667.638951**	296.88	6.4	ug/L
|	K	39	8771898.834	26.631	**6383.660559**	280.24	4.4	ug/L
|	Ca	43	41866.979	0.127	**8649.571251**	374.05	4.3	ug/L
| >	Sc	45	327491.023	327491.023				ug/L
|	Ti	49	9984.477	0.029	**81.981593**	3.04	3.7	ug/L
|	Co	59	131127.002	0.401	**76.148600**	3.15	4.1	ug/L
|	Ni	60	24622.010	0.075	**73.483892**	1.95	2.7	ug/L
|	Ni	62	3740.910	0.011	**73.843134**	4.55	6.2	ug/L
|	Cu	63	59710.212	0.182	**74.198846**	2.73	3.7	ug/L
|	Cu	65	27887.810	0.085	**73.439868**	1.36	1.9	ug/L
|	Zn	66	16774.273	0.051	**68.472991**	3.05	4.5	ug/L
|	Zn	67	4402.593	0.010	**74.736577**	5.77	7.7	ug/L
|	Zn	68	12451.406	0.038	**70.701749**	3.05	4.3	ug/L
|	V	51	145492.836	0.445	**81.168937**	2.89	3.6	ug/L
|	Cr	52	123220.546	0.367	**79.463225**	3.21	4.0	ug/L
|	Cr	53	29670.446	0.047	**80.644483**	5.69	7.1	ug/L
|	Mn	55	211879.397	0.647	**81.472145**	2.83	3.5	ug/L
|	Fe	54	523899.607	1.566	**3962.518385**	160.61	4.1	ug/L
⌊	Fe	57	205059.711	0.625	**3877.144533**	166.50	4.3	ug/L
⌜	As	75	21759.641	0.057	**86.517248**	3.45	4.0	ug/L
|	Se	77	8488.014	0.018	**372.618481**	11.91	3.2	ug/L
|	Se	82	9605.957	0.025	**383.436243**	8.82	2.3	ug/L
|	Sr	88	430815.849	1.115	**127.613052**	1.40	1.1	ug/L
| >	Y	89	386488.302	386488.302				ug/L
|	Mo	95	36478.962	0.094	**88.258940**	0.86	1.0	ug/L
|	Mo	97	22254.815	0.058	**87.758279**	1.80	2.0	ug/L
⌊	Mo	98	57227.508	0.148	**88.459955**	1.53	1.7	ug/L
⌜	Ag	107	88917.639	0.581	**83.738167**	3.20	3.8	ug/L
|	Ag	109	83167.850	0.543	**82.996930**	2.62	3.2	ug/L
|	Cd	111	20677.088	0.135	**82.718930**	3.21	3.9	ug/L
|	Cd	114	46554.636	0.304	**82.394059**	4.04	4.9	ug/L

|>	In	115	153258.270	153258.270				ug/L
|	Sn	120	82645.610	0.537	**83.081369**	3.84	4.6	ug/L
|	Sb	121	63825.801	0.414	**89.612816**	4.80	5.4	ug/L
|	Sb	123	48449.696	0.314	**89.154245**	3.86	4.3	ug/L
|	Ba	135	21034.731	0.125	**105.528542**	6.31	6.0	ug/L
|	Ba	137	36384.554	0.217	**105.897519**	5.91	5.6	ug/L
|	Tb	159	155347.171	-0.024				ug/L
|>	Ho	165	167799.420	167799.420				ug/L
|	Tl	203	58115.487	0.347	**89.381671**	5.08	5.7	ug/L
|	Tl	205	141241.363	0.843	**89.612161**	5.81	6.5	ug/L
|	Pb	208	193315.748	1.153	**90.218715**	4.59	5.1	ug/L
	Kr	83	15.933	-4.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.604	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		86.897	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.744	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.801
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-19APDS
Sample Date/Time: Monday, February 15, 2010 19:11:05
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-19APDS.147
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30438.343	0.017				ug/L
|	Li	7	127559.667	0.377	**646.752895**	31.67	4.9	ug/L
|	Be	9	27183.290	0.082	**601.049719**	35.74	5.9	ug/L
|	B	11	40748.313	0.122	**707.929940**	32.88	4.6	ug/L
|	Na	23	10623864.314	32.101	**87169.611434**	8306.82	9.5	ug/L
|	Mg	24	2899224.765	8.762	**32963.880219**	2179.48	6.6	ug/L
|	Al	27	8221103.770	24.848	**28806.201930**	2068.86	7.2	ug/L
|	K	39	9420016.303	28.289	**33906.714308**	1463.10	4.3	ug/L
|	Ca	43	30547.203	0.092	**31128.711971**	1076.55	3.5	ug/L
| >	Sc	45	331457.256	331457.256				ug/L
|	Ti	49	12024.060	0.035	**491.963531**	32.24	6.6	ug/L
|	Co	59	163797.061	0.495	**470.560808**	32.75	7.0	ug/L
|	Ni	60	31410.683	0.095	**464.216938**	28.62	6.2	ug/L
|	Ni	62	4802.834	0.014	**468.600000**	34.72	7.4	ug/L
|	Cu	63	75174.984	0.227	**462.827204**	29.09	6.3	ug/L
|	Cu	65	35487.026	0.107	**462.940458**	29.19	6.3	ug/L
|	Zn	66	22519.585	0.068	**455.604319**	23.17	5.1	ug/L
|	Zn	67	5223.107	0.012	**473.532893**	43.99	9.3	ug/L
|	Zn	68	16135.577	0.048	**454.706751**	26.33	5.8	ug/L
|	V	51	180517.777	0.546	**497.859097**	32.85	6.6	ug/L
|	Cr	52	150133.575	0.444	**481.085578**	32.39	6.7	ug/L
|	Cr	53	32228.718	0.053	**467.917374**	53.19	11.4	ug/L
|	Mn	55	250743.980	0.757	**476.692410**	27.99	5.9	ug/L
|	Fe	54	641646.497	1.904	**24091.274178**	1581.07	6.6	ug/L
⌞	Fe	57	254406.704	0.767	**23800.263845**	1561.24	6.6	ug/L
⌜	As	75	26914.799	0.068	**520.178409**	21.93	4.2	ug/L
|	Se	77	10745.503	0.023	**2392.063919**	123.18	5.1	ug/L
|	Se	82	12659.169	0.032	**2458.708314**	83.78	3.4	ug/L
|	Sr	88	380232.857	0.958	**548.989898**	20.51	3.7	ug/L
| >	Y	89	396936.406	396936.406				ug/L
|	Mo	95	43831.191	0.110	**515.984886**	13.39	2.6	ug/L
|	Mo	97	26713.640	0.067	**512.322717**	14.55	2.8	ug/L
⌞	Mo	98	67253.402	0.169	**505.615199**	9.90	2.0	ug/L
⌜	Ag	107	110638.656	0.694	**500.272298**	9.84	2.0	ug/L
|	Ag	109	104067.229	0.653	**498.687089**	12.24	2.5	ug/L
|	Cd	111	26189.009	0.164	**503.027932**	15.71	3.1	ug/L
|	Cd	114	59021.544	0.370	**501.147406**	16.27	3.2	ug/L

|>	In	115	159451.367	159451.367				ug/L
|	Sn	120	104774.039	0.654	**505.710182**	17.20	3.4	ug/L
|	Sb	121	75114.335	0.468	**506.629011**	17.37	3.4	ug/L
|	Sb	123	57142.487	0.356	**505.020461**	17.88	3.5	ug/L
|	Ba	135	20410.385	0.122	**511.830781**	22.89	4.5	ug/L
|	Ba	137	35165.556	0.210	**511.693821**	24.06	4.7	ug/L
|	Tb	159	155028.898	-0.026				ug/L
|>	Ho	165	167765.151	167765.151				ug/L
|	Tl	203	71325.973	0.425	**548.400045**	28.39	5.2	ug/L
|	Tl	205	173008.737	1.032	**548.598018**	24.65	4.5	ug/L
|	Pb	208	236705.608	1.412	**552.357578**	32.53	5.9	ug/L
	Kr	83	17.267	-3.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.714	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.246	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.007	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.783
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-19APDSD
Sample Date/Time: Monday, February 15, 2010 19:13:46
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-19APDSD.148
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29682.665	0.015				ug/L
|	Li	7	128478.505	0.381	**653.731305**	31.96	4.9	ug/L
|	Be	9	27373.963	0.083	**607.004878**	24.35	4.0	ug/L
|	B	11	40513.746	0.121	**706.037644**	17.58	2.5	ug/L
|	Na	23	10091010.492	30.555	**82973.619061**	3940.68	4.7	ug/L
|	Mg	24	2766085.074	8.387	**31556.770916**	2217.40	7.0	ug/L
|	Al	27	8094622.454	24.534	**28443.838220**	1324.45	4.7	ug/L
|	K	39	9229951.173	27.816	**33339.505052**	1715.98	5.1	ug/L
|	Ca	43	29713.307	0.090	**30392.666099**	1612.50	5.3	ug/L
| >	Sc	45	330147.329	330147.329				ug/L
|	Ti	49	11973.989	0.035	**491.421642**	30.53	6.2	ug/L
|	Co	59	164753.223	0.499	**474.681183**	24.23	5.1	ug/L
|	Ni	60	31832.423	0.096	**471.947965**	23.41	5.0	ug/L
|	Ni	62	4764.142	0.014	**466.103246**	21.07	4.5	ug/L
|	Cu	63	75501.607	0.229	**466.292596**	24.15	5.2	ug/L
|	Cu	65	35856.738	0.109	**469.203618**	21.76	4.6	ug/L
|	Zn	66	22099.712	0.067	**448.572262**	21.50	4.8	ug/L
|	Zn	67	5287.151	0.012	**483.930389**	35.74	7.4	ug/L
|	Zn	68	16233.113	0.049	**458.925420**	18.07	3.9	ug/L
|	V	51	178973.465	0.543	**495.075761**	27.33	5.5	ug/L
|	Cr	52	151176.715	0.449	**486.034105**	27.28	5.6	ug/L
|	Cr	53	32396.107	0.054	**475.841712**	47.88	10.1	ug/L
|	Mn	55	250807.250	0.760	**478.372054**	26.60	5.6	ug/L
|	Fe	54	638097.510	1.900	**24033.197212**	1416.50	5.9	ug/L
⌊	Fe	57	254717.994	0.770	**23904.592082**	1413.12	5.9	ug/L
⌈	As	75	27211.898	0.069	**525.081215**	18.31	3.5	ug/L
|	Se	77	10810.925	0.024	**2404.609505**	39.40	1.6	ug/L
|	Se	82	12841.730	0.032	**2490.618137**	78.49	3.2	ug/L
|	Sr	88	376635.171	0.948	**543.161793**	22.94	4.2	ug/L
| >	Y	89	397391.792	397391.792				ug/L
|	Mo	95	43703.868	0.110	**513.942468**	22.27	4.3	ug/L
|	Mo	97	26331.013	0.066	**504.482982**	21.75	4.3	ug/L
⌊	Mo	98	67879.005	0.171	**509.744063**	17.57	3.4	ug/L
⌈	Ag	107	110967.513	0.700	**504.446122**	15.51	3.1	ug/L
|	Ag	109	104493.113	0.659	**503.374750**	16.04	3.2	ug/L
|	Cd	111	26347.574	0.166	**508.742546**	21.90	4.3	ug/L
|	Cd	114	59472.837	0.375	**507.570078**	14.76	2.9	ug/L

00500

|>	In	115	158596.414	158596.414				ug/L
|	Sn	120	104567.330	0.656	**507.312201**	14.81	2.9	ug/L
|	Sb	121	76118.963	0.477	**516.120097**	21.43	4.2	ug/L
|	Sb	123	58262.562	0.365	**517.580331**	19.06	3.7	ug/L
|	Ba	135	20519.335	0.123	**517.924032**	11.48	2.2	ug/L
|	Ba	137	35477.652	0.213	**519.577109**	13.96	2.7	ug/L
|	Tb	159	156830.615	-0.008				ug/L
|>	Ho	165	166560.740	166560.740				ug/L
|	Tl	203	71431.746	0.429	**552.806646**	23.21	4.2	ug/L
|	Tl	205	172396.545	1.035	**550.344824**	25.48	4.6	ug/L
|	Pb	208	237191.287	1.424	**557.118486**	18.94	3.4	ug/L
	Kr	83	19.133	-1.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.347	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.348	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		83.557	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.146
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 19:16:28
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.149
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30039.829	0.013				ug/L
|	Li	7	123426.919	0.353	**121.430538**	4.77	3.9	ug/L
|	Be	9	26850.833	0.079	**115.314742**	5.32	4.6	ug/L
|	B	11	34138.309	0.099	**115.162564**	4.43	3.8	ug/L
|	Na	23	3461360.031	10.120	**5500.131652**	269.47	4.9	ug/L
|	Mg	24	2465637.100	7.232	**5442.487805**	203.87	3.7	ug/L
|	Al	27	7833212.050	22.973	**5327.707129**	123.79	2.3	ug/L
|	K	39	8586226.937	25.021	**5997.395579**	195.09	3.3	ug/L
|	Ca	43	25219.946	0.073	**4984.716617**	106.22	2.1	ug/L
| >	Sc	45	340986.833	340986.833				ug/L
|	Ti	49	11911.225	0.034	**94.420610**	3.25	3.4	ug/L
|	Co	59	166388.366	0.488	**92.761931**	1.57	1.7	ug/L
|	Ni	60	32309.044	0.095	**92.676910**	0.43	0.5	ug/L
|	Ni	62	4926.913	0.014	**93.295900**	5.32	5.7	ug/L
|	Cu	63	76996.100	0.226	**92.004268**	1.08	1.2	ug/L
|	Cu	65	35225.806	0.103	**89.173379**	0.75	0.8	ug/L
|	Zn	66	23304.582	0.068	**91.545092**	0.65	0.7	ug/L
|	Zn	67	5391.222	0.012	**94.935154**	2.32	2.4	ug/L
|	Zn	68	16829.058	0.049	**92.072487**	0.51	0.6	ug/L
|	V	51	181334.441	0.532	**97.062842**	0.65	0.7	ug/L
|	Cr	52	152200.987	0.437	**94.618435**	0.92	1.0	ug/L
|	Cr	53	31630.235	0.049	**84.701238**	1.52	1.8	ug/L
|	Mn	55	250359.038	0.734	**92.393566**	1.02	1.1	ug/L
|	Fe	54	641649.593	1.847	**4673.221147**	44.01	0.9	ug/L
⌊	Fe	57	256692.314	0.751	**4660.268382**	61.49	1.3	ug/L
⌈	As	75	27219.102	0.069	**104.744597**	1.75	1.7	ug/L
|	Se	77	11051.936	0.024	**492.002831**	11.57	2.4	ug/L
|	Se	82	13391.332	0.034	**517.990068**	4.29	0.8	ug/L
|	Sr	88	353331.536	0.887	**101.650680**	0.74	0.7	ug/L
| >	Y	89	398376.353	398376.353				ug/L
|	Mo	95	43507.369	0.109	**102.043899**	1.34	1.3	ug/L
|	Mo	97	26060.749	0.065	**99.577225**	0.35	0.3	ug/L
⌊	Mo	98	67704.911	0.170	**101.411938**	0.97	1.0	ug/L
⌈	Ag	107	115277.366	0.696	**100.395027**	0.65	0.6	ug/L
|	Ag	109	107749.506	0.651	**99.443252**	1.59	1.6	ug/L
|	Cd	111	27345.691	0.165	**101.145080**	0.90	0.9	ug/L
|	Cd	114	61467.756	0.371	**100.500470**	1.74	1.7	ug/L

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|>	In	115	165529.217	165529.217				ug/L
|	Sn	120	106018.225	0.637	**98.542429**	0.46	0.5	ug/L
|	Sb	121	75908.068	0.456	**98.584324**	1.12	1.1	ug/L
|	Sb	123	57408.771	0.344	**97.703778**	0.36	0.4	ug/L
⌈	Ba	135	19510.050	0.113	**95.054770**	2.43	2.6	ug/L
|	Ba	137	33673.545	0.195	**95.151531**	0.83	0.9	ug/L
|	Tb	159	162685.061	-0.008				ug/L
|>	Ho	165	172710.842	172710.842				ug/L
|	Tl	203	69536.942	0.403	**103.771614**	0.61	0.6	ug/L
|	Tl	205	170880.104	0.989	**105.191479**	0.70	0.7	ug/L
⌊	Pb	208	234615.349	1.358	**106.264517**	1.08	1.0	ug/L
	Kr	83	19.133	-1.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	121.431		
Be	9	115.315		
B	11	115.163		
Na	23	110.003		
Mg	24	108.850		
Al	27	104.465		
K	39	119.948		
Ca	43	99.694		
Sc	45		95.379	
Ti	49	94.421		
Co	59	92.762		
Ni	60	92.677		
Ni	62	93.296		
Cu	63	92.004		
Cu	65	89.173		
Zn	66	91.545		
Zn	67	94.935		
Zn	68	92.072		
V	51	97.063		
Cr	52	94.618		
Cr	53	84.701		
Mn	55	92.394		
Fe	54	93.464		
Fe	57	93.205		
As	75	104.745		
Se	77	98.401		
Se	82	103.598		
Sr	88	101.651		
Y	89		89.570	
Mo	95	102.044		
Mo	97	99.577		
Mo	98	101.412		
Ag	107	100.395		
Ag	109	99.443		
Cd	111	101.145		
Cd	114	100.500		
In	115		87.209	
Sn	120	98.542		
Sb	121	98.584		

Sb	123	97.704	
Ba	135	95.055	
Ba	137	95.152	
Tb	159		
Ho	165		91.400
Tl	203	103.772	
Tl	205	105.191	
Pb	208	106.265	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 19:19:09
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.150
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34102.475	0.027				ug/L
|	Li	7	3736.908	0.003	**2.115708**	0.12	5.7	ug/L
|	Be	9	8.000	0.000	**1.437650**	0.01	1.0	ug/L
|	B	11	1681.518	0.004	**5.699807**	0.65	11.5	ug/L
|	Na	23	16183.677	0.014	**13.603275**	0.21	1.5	ug/L
|	Mg	24	633.360	0.001	**5.662022**	0.32	5.7	ug/L
|	Al	27	3173.994	0.007	**16.862179**	0.23	1.3	ug/L
|	K	39	62889.460	0.023	**0.295392**	1.17	397.7	ug/L
|	Ca	43	144.001	-0.000	**-9.316971**	4.19	45.0	ug/L
| >	Sc	45	335669.941	335669.941				ug/L
|	Ti	49	383.343	-0.000	**-0.630073**	0.13	20.9	ug/L
|	Co	59	46.667	0.000	**-0.062229**	0.01	9.7	ug/L
|	Ni	60	12.000	-0.000	**-0.383159**	0.02	4.0	ug/L
|	Ni	62	32.000	0.000	**0.733776**	0.08	11.1	ug/L
|	Cu	63	415.345	0.001	**-0.173098**	0.05	27.4	ug/L
|	Cu	65	193.336	0.000	**0.051832**	0.09	167.0	ug/L
|	Zn	66	134.668	0.000	**-0.201104**	0.10	49.5	ug/L
|	Zn	67	1745.532	0.001	**3.971381**	1.55	39.0	ug/L
|	Zn	68	193.336	0.000	**-0.117901**	0.18	155.0	ug/L
|	V	51	753.296	0.003	**0.656625**	0.50	75.8	ug/L
|	Cr	52	3129.972	-0.000	**-0.181908**	0.10	54.6	ug/L
|	Cr	53	15245.762	0.001	**-6.286412**	0.74	11.7	ug/L
|	Mn	55	231.337	0.000	**0.210259**	0.01	3.5	ug/L
|	Fe	54	10768.650	-0.003	**-5.301955**	4.34	81.8	ug/L
⌊	Fe	57	627.359	0.000	**0.167359**	0.12	73.2	ug/L
⌈	As	75	-288.545	-0.000	**-0.071516**	0.21	292.0	ug/L
|	Se	77	1486.144	-0.000	**-5.084783**	6.35	124.8	ug/L
|	Se	82	7.092	0.000	**1.824851**	0.12	6.4	ug/L
|	Sr	88	164.668	0.000	**0.644635**	0.00	0.5	ug/L
| >	Y	89	403190.167	403190.167				ug/L
|	Mo	95	82.000	0.000	**0.713205**	0.04	5.5	ug/L
|	Mo	97	52.667	0.000	**0.943107**	0.04	3.9	ug/L
⌊	Mo	98	137.188	0.000	**0.964236**	0.01	0.7	ug/L
⌈	Ag	107	14.667	0.000	**0.207355**	0.01	4.0	ug/L
|	Ag	109	14.000	0.000	**0.257569**	0.00	1.2	ug/L
|	Cd	111	6.167	0.000	**0.282608**	0.00	1.0	ug/L
|	Cd	114	12.900	0.000	**0.549142**	0.02	4.3	ug/L

|>	In	115	163184.471	163184.471				ug/L
|	Sn	120	542.626	0.000	**0.703361**	0.03	4.2	ug/L
|	Sb	121	1744.865	0.008	**2.140583**	0.19	8.7	ug/L
|	Sb	123	1289.521	0.005	**2.366705**	0.04	1.6	ug/L
⌈	Ba	135	17.333	0.000	**0.953375**	0.02	2.5	ug/L
|	Ba	137	17.333	0.000	**0.503771**	0.02	3.8	ug/L
|	Tb	159	158196.005	-0.003				ug/L
|>	Ho	165	167161.565	167161.565				ug/L
|	Tl	203	44.000	0.000	**0.069295**	0.00	7.0	ug/L
|	Tl	205	116.001	0.001	**0.036302**	0.01	15.4	ug/L
⌊	Pb	208	104.667	0.000	**-0.039759**	0.01	20.5	ug/L
	Kr	83	13.733	-6.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.892	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.652	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.974	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.464
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-21A
Sample Date/Time: Monday, February 15, 2010 19:21:52
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-21A.151
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34657.765	0.030				ug/L
|	Li	7	28659.969	0.078	**27.842037**	0.55	2.0	ug/L
|	Be	9	488.682	0.001	**3.543834**	0.04	1.0	ug/L
|	B	11	13334.889	0.039	**46.408242**	1.47	3.2	ug/L
|	Na	23	8623655.156	26.086	**14168.345540**	502.34	3.5	ug/L
|	Mg	24	2686554.728	8.138	**6123.709879**	302.37	4.9	ug/L
|	Al	27	9432567.653	28.568	**6621.426593**	165.87	2.5	ug/L
|	K	39	2729816.212	8.104	**1939.024319**	56.81	2.9	ug/L
|	Ca	43	64142.326	0.194	**13153.590059**	118.97	0.9	ug/L
| >	Sc	45	330191.814	330191.814				ug/L
|	Ti	49	914.721	0.001	**3.950473**	0.06	1.6	ug/L
|	Co	59	14607.194	0.044	**8.329449**	0.24	2.9	ug/L
|	Ni	60	5022.975	0.015	**14.530666**	0.75	5.1	ug/L
|	Ni	62	789.374	0.002	**15.528881**	1.03	6.7	ug/L
|	Cu	63	26745.081	0.081	**32.565947**	0.33	1.0	ug/L
|	Cu	65	12610.329	0.038	**32.683850**	0.35	1.1	ug/L
|	Zn	66	12471.436	0.037	**50.260404**	0.89	1.8	ug/L
|	Zn	67	3716.900	0.007	**55.909652**	5.84	10.4	ug/L
|	Zn	68	9106.728	0.027	**50.937620**	2.78	5.5	ug/L
|	V	51	6705.440	0.021	**3.939072**	0.20	5.0	ug/L
|	Cr	52	6742.288	0.011	**2.226220**	0.10	4.3	ug/L
|	Cr	53	16033.363	0.005	**-0.252831**	2.41	951.4	ug/L
|	Mn	55	744563.455	2.254	**283.501516**	3.50	1.2	ug/L
|	Fe	54	346619.049	1.015	**2568.758279**	33.13	1.3	ug/L
⌞	Fe	57	135720.879	0.409	**2539.398223**	26.54	1.0	ug/L
⌜	As	75	183.581	0.001	**1.612790**	0.17	10.6	ug/L
|	Se	77	1775.539	0.000	**-3.272643**	4.13	126.1	ug/L
|	Se	82	13.161	0.000	**1.986990**	0.09	4.6	ug/L
|	Sr	88	232422.307	0.494	**56.938740**	2.66	4.7	ug/L
| >	Y	89	470513.480	470513.480				ug/L
|	Mo	95	43.333	0.000	**0.609975**	0.02	3.7	ug/L
|	Mo	97	28.667	0.000	**0.838459**	0.02	2.8	ug/L
⌞	Mo	98	59.187	0.000	**0.837671**	0.03	3.2	ug/L
⌜	Ag	107	10.667	0.000	**0.204545**	0.00	2.0	ug/L
|	Ag	109	7.333	0.000	**0.251825**	0.00	0.5	ug/L
|	Cd	111	2470.730	0.016	**10.151490**	0.42	4.1	ug/L
|	Cd	114	5580.912	0.037	**10.381820**	0.60	5.8	ug/L

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|>	In	115	152634.065	152634.065				ug/L
|	Sn	120	483.947	-0.000	**0.680205**	0.05	6.9	ug/L
|	Sb	121	25050.069	0.161	**35.204380**	1.65	4.7	ug/L
|	Sb	123	19044.211	0.122	**35.260792**	1.19	3.4	ug/L
|	Ba	135	12240.406	0.074	**62.359372**	2.63	4.2	ug/L
|	Ba	137	21023.361	0.127	**61.975395**	1.34	2.2	ug/L
|	Tb	159	155430.653	-0.013				ug/L
|>	Ho	165	165983.054	165983.054				ug/L
|	Tl	203	42.000	0.000	**0.066558**	0.01	20.0	ug/L
|	Tl	205	116.001	0.001	**0.036869**	0.00	5.6	ug/L
|	Pb	208	547043.133	3.296	**257.950997**	4.99	1.9	ug/L
	Kr	83	22.000	1.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.360	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		105.789	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.416	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.840
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-22A
Sample Date/Time: Monday, February 15, 2010 19:24:32
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-22A.152
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31955.619	0.025				ug/L
|	Li	7	89615.298	0.272	**93.652492**	5.55	5.9	ug/L
|	Be	9	2377.034	0.007	**12.166578**	0.88	7.2	ug/L
|	B	11	10797.584	0.032	**38.832870**	3.21	8.3	ug/L
|	Na	23	47148074.048	147.595	**80137.787557**	7540.62	9.4	ug/L
|	Mg	24	13654476.753	42.751	**32149.885735**	2933.90	9.1	ug/L
|	Al	27	10473365.167	32.771	**7593.558854**	531.46	7.0	ug/L
|	K	39	3386951.370	10.437	**2498.612541**	190.21	7.6	ug/L
|	Ca	43	277153.082	0.867	**58891.121771**	5045.35	8.6	ug/L
| >	Sc	45	320052.856	320052.856				ug/L
|	Ti	49	1051.406	0.002	**5.429337**	1.26	23.1	ug/L
|	Co	59	60408.395	0.189	**35.881107**	2.37	6.6	ug/L
|	Ni	60	11778.350	0.037	**35.792585**	2.30	6.4	ug/L
|	Ni	62	1880.230	0.006	**38.029685**	1.49	3.9	ug/L
|	Cu	63	714.700	0.002	**0.236439**	0.05	20.1	ug/L
|	Cu	65	410.678	0.001	**0.667264**	0.04	6.1	ug/L
|	Zn	66	18884.488	0.059	**79.025640**	3.95	5.0	ug/L
|	Zn	67	4945.594	0.012	**92.187941**	13.69	14.8	ug/L
|	Zn	68	13374.290	0.041	**77.892127**	5.02	6.5	ug/L
|	V	51	49349.645	0.155	**28.374817**	2.48	8.7	ug/L
|	Cr	52	38450.652	0.111	**23.907885**	2.13	8.9	ug/L
|	Cr	53	19752.676	0.018	**25.221461**	7.85	31.1	ug/L
|	Mn	55	3823851.052	11.968	**1504.086622**	105.14	7.0	ug/L
|	Fe	54	2513676.629	7.833	**19813.054445**	1409.63	7.1	ug/L
⌊	Fe	57	998249.306	3.122	**19376.366344**	1323.11	6.8	ug/L
⌈	As	75	-108.188	0.000	**0.727272**	0.28	39.0	ug/L
|	Se	77	2281.672	0.000	**2.093697**	4.88	233.1	ug/L
|	Se	82	16.288	0.000	**1.996938**	0.08	4.2	ug/L
|	Sr	88	1372364.615	2.426	**277.093011**	12.04	4.3	ug/L
| >	Y	89	565724.730	565724.730				ug/L
|	Mo	95	28.667	0.000	**0.570895**	0.02	2.8	ug/L
|	Mo	97	12.667	0.000	**0.779880**	0.02	2.6	ug/L
⌊	Mo	98	36.000	0.000	**0.800504**	0.02	1.9	ug/L
⌈	Ag	107	15.333	0.000	**0.209018**	0.00	2.3	ug/L
|	Ag	109	6.000	0.000	**0.250542**	0.00	0.8	ug/L
|	Cd	111	686.197	0.005	**3.028232**	0.12	4.1	ug/L
|	Cd	114	1573.194	0.010	**3.326377**	0.10	3.1	ug/L

00512

|>	In	115	151442.684	151442.684				ug/L
|	Sn	120	424.585	-0.000	**0.623197**	0.01	1.7	ug/L
|	Sb	121	522.685	0.001	**0.582529**	0.09	16.1	ug/L
L	Sb	123	401.754	0.000	**0.890864**	0.04	5.0	ug/L
⌜	Ba	135	2317.682	0.014	**12.194922**	0.34	2.8	ug/L
|	Ba	137	4153.122	0.024	**12.282772**	0.65	5.3	ug/L
|	Tb	159	158379.110	-0.022				ug/L
|>	Ho	165	170635.643	170635.643				ug/L
|	Tl	203	22.667	0.000	**0.035665**	0.01	14.7	ug/L
|	Tl	205	57.334	0.000	**-0.001617**	0.01	468.7	ug/L
L	Pb	208	3404.298	0.020	**1.474515**	0.10	6.5	ug/L
	Kr	83	31.333	10.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.524	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		127.196	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		79.788	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.302
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-23A
Sample Date/Time: Monday, February 15, 2010 19:27:13
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-23A.153
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	12482.753	-0.042				ug/L
|	Li	7	411980.452	1.072	**365.837493**	9.02	2.5	ug/L
|	Be	9	7400.225	0.019	**29.491116**	1.12	3.8	ug/L
|	B	11	274581.803	0.719	**829.157110**	30.17	3.6	ug/L
|	Na	23	224657010.750	589.672	**320149.434357**	17119.47	5.3	ug/L
|	Mg	24	54946239.699	144.194	**108427.631759**	4340.59	4.0	ug/L
|	Al	27	530503275.303	1392.243	**321970.954998**	13165.88	4.1	ug/L
|	K	39	4148368.004	10.721	**2566.814192**	101.50	4.0	ug/L
|	Ca	43	748581.432	1.964	**133353.703522**	4327.01	3.2	ug/L
| >	Sc	45	381335.277	381335.277				ug/L
|	Ti	49	5496.630	0.013	**36.743859**	1.74	4.7	ug/L
|	Co	59	652998.443	1.714	**325.969719**	13.29	4.1	ug/L
|	Ni	60	150594.720	0.395	**387.902262**	16.63	4.3	ug/L
|	Ni	62	23514.568	0.062	**398.009243**	18.86	4.7	ug/L
|	Cu	63	10747.506	0.028	**10.898459**	0.61	5.6	ug/L
|	Cu	65	6058.386	0.016	**13.344336**	0.61	4.6	ug/L
|	Zn	66	290619.703	0.762	**1029.124321**	42.52	4.1	ug/L
|	Zn	67	46875.727	0.119	**1013.427505**	28.71	2.8	ug/L
|	Zn	68	206718.377	0.542	**1024.183881**	42.07	4.1	ug/L
|	V	51	337016.172	0.885	**161.285081**	7.56	4.7	ug/L
|	Cr	52	176302.014	0.453	**98.160559**	4.51	4.6	ug/L
|	Cr	53	33028.118	0.043	**72.962871**	5.92	8.1	ug/L
|	Mn	55	27758609.563	72.847	**9154.436278**	374.04	4.1	ug/L
|	Fe	54	26432044.400	69.335	**175369.477673**	7806.45	4.5	ug/L
⌊	Fe	57	10908202.821	28.623	**177620.585385**	6628.68	3.7	ug/L
⌈	As	75	6778.764	0.003	**5.580867**	0.24	4.3	ug/L
|	Se	77	2965.905	-0.002	**-54.107985**	0.25	0.5	ug/L
|	Se	82	110.710	0.000	**2.309063**	0.06	2.6	ug/L
|	Sr	88	3425089.338	1.518	**173.627853**	2.46	1.4	ug/L
| >	Y	89	2255225.141	2255225.141				ug/L
|	Mo	95	86.001	0.000	**0.559310**	0.01	1.7	ug/L
|	Mo	97	38.667	-0.000	**0.771904**	0.00	0.5	ug/L
⌊	Mo	98	65.416	-0.000	**0.779880**	0.00	0.6	ug/L
⌈	Ag	107	265.338	0.001	**0.408925**	0.01	3.2	ug/L
|	Ag	109	139.335	0.001	**0.364040**	0.01	2.1	ug/L
|	Cd	111	4427.274	0.025	**15.475910**	0.69	4.4	ug/L
|	Cd	114	10009.422	0.056	**15.691905**	0.60	3.8	ug/L

00515

|>	In	115	177828.042	177828.042				ug/L
|	Sn	120	904.474	0.002	**0.973941**	0.03	3.4	ug/L
|	Sb	121	1862.893	0.008	**2.093865**	0.11	5.3	ug/L
\L	Sb	123	1433.034	0.006	**2.412172**	0.14	5.7	ug/L
⌈	Ba	135	3179.325	0.011	**9.905326**	0.60	6.0	ug/L
|	Ba	137	5509.973	0.019	**9.573981**	0.12	1.3	ug/L
|	Tb	159	284187.531	0.019				ug/L
|>	Ho	165	293431.870	293431.870				ug/L
|	Tl	203	32.667	0.000	**0.030078**	0.01	26.4	ug/L
|	Tl	205	78.667	0.000	**-0.008940**	0.01	97.4	ug/L
\L	Pb	208	110869.811	0.378	**29.498176**	0.84	2.9	ug/L
	Kr	83	190.736	170.202				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		106.665	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		507.058	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		93.689	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	155.287
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-24A
Sample Date/Time: Monday, February 15, 2010 19:29:53
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-24A.154
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34867.119	0.036				ug/L
|	Li	7	13851.809	0.036	**13.321208**	1.09	8.2	ug/L
|	Be	9	10.000	0.000	**1.449057**	0.02	1.2	ug/L
|	B	11	33579.892	0.105	**122.870377**	7.54	6.1	ug/L
|	Na	23	35796097.835	113.891	**61839.404254**	4120.86	6.7	ug/L
|	Mg	24	978193.932	3.111	**2344.133615**	110.02	4.7	ug/L
|	Al	27	116467.187	0.369	**100.577488**	20.34	20.2	ug/L
|	K	39	1508163.392	4.635	**1106.638563**	77.11	7.0	ug/L
|	Ca	43	18682.664	0.059	**3997.607682**	182.05	4.6	ug/L
| >	Sc	45	314641.328	314641.328				ug/L
|	Ti	49	480.682	0.000	**0.465055**	0.88	188.3	ug/L
|	Co	59	194.669	0.001	**0.029188**	0.01	32.8	ug/L
|	Ni	60	250.671	0.001	**0.364054**	0.12	33.4	ug/L
|	Ni	62	58.667	0.000	**1.321361**	0.13	9.9	ug/L
|	Cu	63	2791.841	0.009	**2.967188**	0.31	10.4	ug/L
|	Cu	65	1185.425	0.004	**2.827382**	0.32	11.4	ug/L
|	Zn	66	1340.117	0.004	**5.009810**	0.29	5.8	ug/L
|	Zn	67	2325.685	0.004	**22.819644**	3.00	13.1	ug/L
|	Zn	68	1038.737	0.003	**5.047262**	0.59	11.8	ug/L
|	V	51	2281.866	0.008	**1.564755**	0.50	32.0	ug/L
|	Cr	52	3835.623	0.003	**0.443059**	0.09	20.6	ug/L
|	Cr	53	17197.205	0.011	**11.549382**	4.36	37.8	ug/L
|	Mn	55	29761.553	0.094	**12.030683**	0.95	7.9	ug/L
|	Fe	54	46367.875	0.113	**286.792897**	26.43	9.2	ug/L
⌞	Fe	57	13569.984	0.041	**256.654534**	22.32	8.7	ug/L
⌜	As	75	-141.237	0.000	**0.443772**	0.78	176.5	ug/L
|	Se	77	1988.258	0.002	**28.285387**	9.20	32.5	ug/L
|	Se	82	11.416	0.000	**2.020403**	0.16	7.8	ug/L
|	Sr	88	104197.330	0.278	**32.242126**	1.33	4.1	ug/L
| >	Y	89	375357.003	375357.003				ug/L
|	Mo	95	942.058	0.002	**2.857285**	0.10	3.7	ug/L
|	Mo	97	602.024	0.002	**3.170035**	0.18	5.7	ug/L
⌞	Mo	98	1413.171	0.004	**2.992102**	0.04	1.3	ug/L
⌜	Ag	107	10.667	0.000	**0.204949**	0.00	1.9	ug/L
|	Ag	109	7.333	0.000	**0.252205**	0.00	1.3	ug/L
|	Cd	111	6.667	0.000	**0.287617**	0.00	1.7	ug/L
|	Cd	114	15.867	0.000	**0.557285**	0.01	1.3	ug/L

00518

|>	In	115	145255.805	145255.805				ug/L
|	Sn	120	365.966	-0.001	**0.579483**	0.02	2.8	ug/L
|	Sb	121	338.008	-0.001	**0.339013**	0.07	21.6	ug/L
|	Sb	123	250.918	-0.001	**0.629368**	0.03	5.4	ug/L
|	Ba	135	4176.467	0.027	**23.471793**	0.13	0.6	ug/L
|	Ba	137	7069.916	0.046	**22.746541**	0.47	2.1	ug/L
|	Tb	159	143528.402	-0.018				ug/L
|>	Ho	165	154024.968	154024.968				ug/L
|	Tl	203	8.667	0.000	**0.015879**	0.01	32.2	ug/L
|	Tl	205	9.333	0.000	**-0.031033**	0.00	9.0	ug/L
|	Pb	208	917.355	0.006	**0.377856**	0.03	8.0	ug/L
	Kr	83	15.000	-5.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		88.010	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		84.394	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.528	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.512
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-25A
Sample Date/Time: Monday, February 15, 2010 19:32:34
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-25A.155
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25384.995	0.004				ug/L
|	Li	7	95463.488	0.288	**99.126801**	2.29	2.3	ug/L
|	Be	9	294.006	0.001	**2.724859**	0.24	8.8	ug/L
|	B	11	22058.257	0.067	**78.750250**	1.12	1.4	ug/L
|	Na	23	440005868.163	1366.209	**741745.050086**	5821.15	0.8	ug/L
|	Mg	24	97437830.830	302.569	**227513.823610**	2741.12	1.2	ug/L
|	Al	27	64854.002	0.199	**61.248764**	1.11	1.8	ug/L
|	K	39	1700146.308	5.115	**1221.814403**	17.60	1.4	ug/L
|	Ca	43	1370269.460	4.255	**288926.700938**	9536.69	3.3	ug/L
| >	Sc	45	322047.077	322047.077				ug/L
|	Ti	49	1902.236	0.005	**12.778706**	1.04	8.1	ug/L
|	Co	59	175868.776	0.546	**103.825270**	3.42	3.3	ug/L
|	Ni	60	19137.788	0.059	**57.970332**	1.64	2.8	ug/L
|	Ni	62	2940.564	0.009	**58.973080**	4.01	6.8	ug/L
|	Cu	63	4146.452	0.013	**4.604139**	0.22	4.8	ug/L
|	Cu	65	1328.115	0.004	**3.131881**	0.27	8.7	ug/L
|	Zn	66	2209.651	0.007	**8.522664**	0.46	5.4	ug/L
|	Zn	67	2080.281	0.003	**14.787720**	0.43	2.9	ug/L
|	Zn	68	1069.408	0.003	**5.070801**	0.08	1.6	ug/L
|	V	51	983.953	0.003	**0.799649**	0.13	16.7	ug/L
|	Cr	52	2981.245	-0.000	**-0.195310**	0.05	23.4	ug/L
|	Cr	53	12165.613	-0.006	**-20.988238**	0.42	2.0	ug/L
|	Mn	55	39524525.839	122.742	**15424.388447**	560.84	3.6	ug/L
|	Fe	54	2403854.789	7.431	**18795.360595**	705.54	3.8	ug/L
⌊	Fe	57	967661.418	3.003	**18636.773009**	680.56	3.7	ug/L
⌈	As	75	-615.644	-0.001	**-0.765474**	0.39	51.2	ug/L
|	Se	77	3538.815	0.003	**58.136538**	5.29	9.1	ug/L
|	Se	82	74.163	0.000	**3.728175**	0.11	3.0	ug/L
|	Sr	88	8581307.305	16.361	**1864.849092**	47.28	2.5	ug/L
| >	Y	89	524486.999	524486.999				ug/L
|	Mo	95	476.681	0.001	**1.368680**	0.03	2.4	ug/L
|	Mo	97	258.671	0.000	**1.490915**	0.12	8.3	ug/L
⌊	Mo	98	642.547	0.001	**1.488418**	0.04	2.4	ug/L
⌈	Ag	107	21.333	0.000	**0.212468**	0.00	1.6	ug/L
|	Ag	109	6.667	0.000	**0.250496**	0.01	2.2	ug/L
|	Cd	111	8.000	0.000	**0.288298**	0.01	3.8	ug/L
|	Cd	114	2.540	0.000	**0.531883**	0.01	1.3	ug/L

00521

|>	In	115	170017.380	170017.380				ug/L
|	Sn	120	437.809	-0.001	**0.588393**	0.02	4.2	ug/L
|	Sb	121	384.010	-0.001	**0.324027**	0.02	6.8	ug/L
L	Sb	123	313.992	-0.001	**0.663200**	0.02	3.7	ug/L
⌈	Ba	135	5764.159	0.030	**25.587261**	1.07	4.2	ug/L
|	Ba	137	9979.137	0.051	**25.372416**	0.46	1.8	ug/L
|	Tb	159	186972.793	0.011				ug/L
|>	Ho	165	194587.494	194587.494				ug/L
|	Tl	203	14.000	0.000	**0.019693**	0.01	44.2	ug/L
|	Tl	205	20.667	0.000	**-0.026165**	0.00	8.5	ug/L
L	Pb	208	356.003	0.002	**0.054669**	0.01	21.5	ug/L
	Kr	83	47.333	26.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.082	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		117.924	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		89.574	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	102.978
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-26A
Sample Date/Time: Monday, February 15, 2010 19:35:14
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-26A.156
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	34207.884	0.035				ug/L
|	Li	7	46392.303	0.140	**48.804197**	1.91	3.9	ug/L
|	Be	9	7.333	0.000	**1.437231**	0.03	1.9	ug/L
|	B	11	21853.699	0.069	**80.418304**	3.35	4.2	ug/L
|	Na	23	48199182.957	154.204	**83726.146991**	1371.59	1.6	ug/L
|	Mg	24	10270411.434	32.875	**24723.858348**	728.43	2.9	ug/L
|	Al	27	118306.385	0.376	**102.223631**	1.03	1.0	ug/L
|	K	39	3725461.529	11.765	**2817.237467**	178.87	6.3	ug/L
|	Ca	43	201402.785	0.644	**43735.438580**	952.39	2.2	ug/L
| >	Sc	45	312505.211	312505.211				ug/L
|	Ti	49	585.356	0.001	**1.429779**	0.40	27.7	ug/L
|	Co	59	221.337	0.001	**0.046136**	0.00	5.9	ug/L
|	Ni	60	278.005	0.001	**0.456644**	0.09	19.0	ug/L
|	Ni	62	37.333	0.000	**0.889840**	0.33	37.5	ug/L
|	Cu	63	723.367	0.002	**0.269043**	0.02	8.0	ug/L
|	Cu	65	262.671	0.001	**0.282711**	0.04	12.4	ug/L
|	Zn	66	972.061	0.003	**3.457587**	0.09	2.5	ug/L
|	Zn	67	2461.728	0.004	**26.935752**	2.83	10.5	ug/L
|	Zn	68	1969.586	0.006	**10.714206**	0.70	6.5	ug/L
|	V	51	5744.296	0.019	**3.580448**	0.83	23.1	ug/L
|	Cr	52	3251.354	0.001	**0.053529**	0.01	18.7	ug/L
|	Cr	53	15351.304	0.005	**0.843840**	2.08	246.9	ug/L
|	Mn	55	9693.541	0.030	**4.017747**	0.58	14.5	ug/L
|	Fe	54	21521.215	0.034	**87.716509**	2.77	3.2	ug/L
⌞	Fe	57	5989.665	0.017	**107.511349**	2.67	2.5	ug/L
⌜	As	75	-423.317	-0.001	**-0.704827**	0.37	53.1	ug/L
|	Se	77	2214.320	0.002	**41.196224**	10.46	25.4	ug/L
|	Se	82	15.913	0.000	**2.209504**	0.16	7.1	ug/L
|	Sr	88	1073932.429	2.874	**328.131168**	8.37	2.6	ug/L
| >	Y	89	373556.915	373556.915				ug/L
|	Mo	95	1108.747	0.003	**3.282650**	0.19	5.9	ug/L
|	Mo	97	660.028	0.002	**3.416098**	0.17	5.0	ug/L
⌞	Mo	98	1708.711	0.005	**3.471074**	0.11	3.1	ug/L
⌜	Ag	107	6.000	0.000	**0.200349**	0.00	1.7	ug/L
|	Ag	109	4.000	0.000	**0.248728**	0.01	2.3	ug/L
|	Cd	111	13.667	0.000	**0.316966**	0.00	1.5	ug/L
|	Cd	114	23.127	0.000	**0.570706**	0.00	0.7	ug/L

|>	In	115	145371.043	145371.043				ug/L
|	Sn	120	389.216	-0.001	**0.604148**	0.04	6.8	ug/L
|	Sb	121	336.674	-0.001	**0.336823**	0.06	16.4	ug/L
L	Sb	123	299.414	-0.000	**0.723336**	0.02	3.4	ug/L
⌜	Ba	135	82268.262	0.521	**435.558618**	5.00	1.1	ug/L
|	Ba	137	142501.179	0.903	**439.088536**	2.26	0.5	ug/L
|	Tb	159	147270.666	-0.017				ug/L
|>	Ho	165	157788.651	157788.651				ug/L
|	Tl	203	4.000	-0.000	**0.007882**	0.00	40.8	ug/L
|	Tl	205	13.333	0.000	**-0.028474**	0.00	14.3	ug/L
L	Pb	208	1138.032	0.007	**0.475982**	0.02	4.3	ug/L
	Kr	83	19.667	-0.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.413	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.989	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.589	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	83.503
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-27A
Sample Date/Time: Monday, February 15, 2010 19:37:55
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-27A.157
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36374.521	0.043				ug/L
|	Li	7	22432.668	0.064	**23.124223**	0.80	3.5	ug/L
|	Be	9	780.040	0.003	**5.069082**	0.14	2.7	ug/L
|	B	11	12372.611	0.039	**46.208638**	1.06	2.3	ug/L
|	Na	23	36088072.532	117.295	**63687.353038**	2276.65	3.6	ug/L
|	Mg	24	3192014.261	10.379	**7809.062571**	410.71	5.3	ug/L
|	Al	27	10202041.998	33.172	**7686.110551**	374.61	4.9	ug/L
|	K	39	1360203.786	4.260	**1016.684943**	67.84	6.7	ug/L
|	Ca	43	219133.129	0.712	**48336.875151**	1734.36	3.6	ug/L
| >	Sc	45	307739.153	307739.153				ug/L
|	Ti	49	855.381	0.001	**3.980170**	0.36	9.1	ug/L
|	Co	59	105494.516	0.343	**65.165324**	2.10	3.2	ug/L
|	Ni	60	5972.318	0.019	**18.660558**	0.84	4.5	ug/L
|	Ni	62	925.389	0.003	**19.515762**	0.74	3.8	ug/L
|	Cu	63	47097.076	0.153	**62.159888**	1.80	2.9	ug/L
|	Cu	65	22639.942	0.073	**63.410382**	2.57	4.1	ug/L
|	Zn	66	22769.653	0.074	**99.210473**	3.22	3.2	ug/L
|	Zn	67	5163.067	0.013	**103.176603**	2.42	2.3	ug/L
|	Zn	68	16289.229	0.052	**98.871207**	2.39	2.4	ug/L
|	V	51	3289.082	0.011	**2.196725**	0.62	28.0	ug/L
|	Cr	52	5135.715	0.007	**1.419459**	0.19	13.3	ug/L
|	Cr	53	14156.348	0.002	**-5.160790**	1.18	22.8	ug/L
|	Mn	55	12714291.796	41.335	**5194.531825**	178.60	3.4	ug/L
|	Fe	54	96137.423	0.278	**704.174794**	36.31	5.2	ug/L
⌊	Fe	57	36487.682	0.117	**724.753259**	28.28	3.9	ug/L
⌈	As	75	18852.170	0.042	**64.074113**	1.00	1.6	ug/L
|	Se	77	1966.252	0.001	**8.226991**	4.64	56.5	ug/L
|	Se	82	26.630	0.000	**2.455803**	0.19	7.9	ug/L
|	Sr	88	717758.716	1.581	**180.758470**	3.81	2.1	ug/L
| >	Y	89	453943.284	453943.284				ug/L
|	Mo	95	198.003	0.000	**0.929201**	0.03	3.7	ug/L
|	Mo	97	95.334	0.000	**1.063346**	0.06	6.0	ug/L
⌊	Mo	98	241.712	0.000	**1.077967**	0.01	1.3	ug/L
⌈	Ag	107	4.667	0.000	**0.199043**	0.00	1.1	ug/L
|	Ag	109	4.000	0.000	**0.248705**	0.00	0.8	ug/L
|	Cd	111	7100.777	0.049	**30.259007**	1.25	4.1	ug/L
|	Cd	114	16335.793	0.113	**30.950668**	1.01	3.2	ug/L

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|>	In	115	144629.197	144629.197				ug/L
|	Sn	120	372.591	-0.001	**0.587852**	0.04	7.4	ug/L
|	Sb	121	392.010	-0.000	**0.421694**	0.05	12.3	ug/L
|	Sb	123	309.834	-0.000	**0.747834**	0.10	13.8	ug/L
⌈	Ba	135	4231.831	0.027	**23.044820**	0.88	3.8	ug/L
|	Ba	137	7226.727	0.045	**22.517182**	0.87	3.9	ug/L
|	Tb	159	148795.576	-0.015				ug/L
|>	Ho	165	159186.304	159186.304				ug/L
|	Tl	203	302.006	0.002	**0.489849**	0.03	6.1	ug/L
|	Tl	205	669.363	0.004	**0.410419**	0.04	9.8	ug/L
⌊	Pb	208	10041.210	0.063	**4.853326**	0.23	4.8	ug/L
	Kr	83	21.733	1.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		86.079	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		102.063	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		76.198	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.243
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-28A
Sample Date/Time: Monday, February 15, 2010 19:40:35
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-28A.158
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35410.634	0.043				ug/L
|	Li	7	11521.290	0.030	**11.355601**	0.06	0.6	ug/L
|	Be	9	8.667	0.000	**1.444888**	0.02	1.4	ug/L
|	B	11	21849.661	0.071	**83.562070**	2.11	2.5	ug/L
|	Na	23	34908494.756	116.066	**63020.335879**	845.85	1.3	ug/L
|	Mg	24	175173.736	0.582	**442.201543**	10.98	2.5	ug/L
|	Al	27	111066.344	0.367	**100.101487**	2.37	2.4	ug/L
|	K	39	789333.269	2.460	**585.037294**	9.02	1.5	ug/L
|	Ca	43	6277.227	0.020	**1379.251725**	29.33	2.1	ug/L
| >	Sc	45	300711.427	300711.427				ug/L
|	Ti	49	862.049	0.002	**4.212238**	1.20	28.5	ug/L
|	Co	59	184.002	0.001	**0.027740**	0.01	27.5	ug/L
|	Ni	60	138.001	0.000	**0.032647**	0.08	243.7	ug/L
|	Ni	62	33.333	0.000	**0.834841**	0.19	22.4	ug/L
|	Cu	63	794.041	0.002	**0.402731**	0.05	13.0	ug/L
|	Cu	65	272.005	0.001	**0.338713**	0.11	32.6	ug/L
|	Zn	66	502.683	0.001	**1.512535**	0.17	11.0	ug/L
|	Zn	67	1616.170	0.002	**5.484240**	3.22	58.7	ug/L
|	Zn	68	446.680	0.001	**1.602534**	0.21	13.4	ug/L
|	V	51	3018.832	0.010	**2.072390**	0.22	10.4	ug/L
|	Cr	52	2991.248	0.000	**-0.045348**	0.02	38.2	ug/L
|	Cr	53	13191.302	-0.000	**-9.270705**	1.26	13.6	ug/L
|	Mn	55	56579.361	0.188	**23.773703**	0.71	3.0	ug/L
|	Fe	54	18288.151	0.026	**67.351378**	2.88	4.3	ug/L
⌊	Fe	57	3189.328	0.009	**54.406692**	2.52	4.6	ug/L
⌈	As	75	-350.831	-0.001	**-0.472169**	0.46	97.7	ug/L
|	Se	77	1476.809	0.000	**3.916946**	4.79	122.3	ug/L
|	Se	82	8.217	0.000	**1.906241**	0.11	5.7	ug/L
|	Sr	88	34179.861	0.095	**11.464825**	0.44	3.8	ug/L
| >	Y	89	358417.264	358417.264				ug/L
|	Mo	95	422.678	0.001	**1.621410**	0.09	5.7	ug/L
|	Mo	97	266.005	0.001	**1.866669**	0.05	2.9	ug/L
⌊	Mo	98	673.883	0.002	**1.877313**	0.10	5.1	ug/L
⌈	Ag	107	2.000	-0.000	**0.196523**	0.00	0.0	ug/L
|	Ag	109	2.000	0.000	**0.246717**	0.00	0.0	ug/L
|	Cd	111	6.333	0.000	**0.287650**	0.01	2.6	ug/L
|	Cd	114	18.007	0.000	**0.563153**	0.01	1.6	ug/L

|>	In	115	137406.391	137406.391				ug/L
|	Sn	120	348.641	-0.001	**0.582395**	0.01	1.4	ug/L
|	Sb	121	247.337	-0.001	**0.225245**	0.03	13.5	ug/L
|	Sb	123	215.667	-0.001	**0.585515**	0.02	4.2	ug/L
⌈	Ba	135	2012.930	0.013	**12.045395**	0.52	4.3	ug/L
|	Ba	137	3324.052	0.022	**11.209984**	0.37	3.3	ug/L
|	Tb	159	139579.679	-0.020				ug/L
|>	Ho	165	150128.382	150128.382				ug/L
|	Tl	203	4.000	-0.000	**0.008291**	0.01	72.3	ug/L
|	Tl	205	4.667	0.000	**-0.034145**	0.00	2.4	ug/L
⌊	Pb	208	1978.766	0.013	**0.943861**	0.07	7.2	ug/L
	Kr	83	14.867	-5.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		84.114	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		80.585	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		72.393	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.450
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-29A
Sample Date/Time: Monday, February 15, 2010 19:43:16
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-29A.159
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	33362.975	0.031				ug/L
	Li	7	67153.930	0.204	**70.491321**	6.48	9.2	ug/L
	Be	9	1180.758	0.004	**6.799400**	0.49	7.2	ug/L
	B	11	51957.005	0.163	**188.800195**	11.47	6.1	ug/L
	Na	23	99224680.980	313.681	**170308.831874**	20033.69	11.8	ug/L
	Mg	24	10776852.823	34.073	**25625.133440**	2900.60	11.3	ug/L
	Al	27	45485709.698	143.746	**33256.352124**	2899.36	8.7	ug/L
	K	39	5372692.656	16.820	**4030.011377**	429.23	10.7	ug/L
	Ca	43	237444.649	0.750	**50900.716546**	3622.87	7.1	ug/L
>	Sc	45	316944.250	316944.250				ug/L
	Ti	49	1023.402	0.002	**5.252370**	0.66	12.6	ug/L
	Co	59	86924.784	0.275	**52.154191**	3.29	6.3	ug/L
	Ni	60	29062.158	0.092	**89.763345**	4.95	5.5	ug/L
	Ni	62	4498.649	0.014	**91.660866**	1.79	1.9	ug/L
	Cu	63	79320.630	0.250	**102.168103**	6.93	6.8	ug/L
	Cu	65	37823.604	0.119	**103.229400**	8.36	8.1	ug/L
	Zn	66	96986.673	0.306	**412.917034**	24.78	6.0	ug/L
	Zn	67	16457.593	0.048	**404.841115**	22.58	5.6	ug/L
	Zn	68	68794.549	0.217	**409.544356**	27.13	6.6	ug/L
	V	51	3235.920	0.011	**2.101413**	0.44	21.1	ug/L
	Cr	52	21250.003	0.058	**12.357008**	0.93	7.5	ug/L
	Cr	53	15442.825	0.005	**0.147074**	4.86	3307.3	ug/L
	Mn	55	5537452.116	17.492	**2198.318663**	142.99	6.5	ug/L
	Fe	54	74040.262	0.199	**505.095403**	39.24	7.8	ug/L
	Fe	57	27205.425	0.084	**521.963139**	39.12	7.5	ug/L
	As	75	-356.357	-0.000	**0.199647**	0.20	97.8	ug/L
	Se	77	2092.951	-0.001	**-15.957519**	0.34	2.1	ug/L
	Se	82	73.170	0.000	**3.252829**	0.19	5.9	ug/L
	Sr	88	956800.457	1.445	**165.266349**	3.31	2.0	ug/L
>	Y	89	662024.881	662024.881				ug/L
	Mo	95	27.333	0.000	**0.562279**	0.00	0.7	ug/L
	Mo	97	20.667	0.000	**0.793116**	0.02	2.0	ug/L
	Mo	98	37.854	0.000	**0.796561**	0.00	0.6	ug/L
	Ag	107	13.333	0.000	**0.208688**	0.00	1.4	ug/L
	Ag	109	4.667	0.000	**0.249737**	0.00	1.4	ug/L
	Cd	111	36529.420	0.271	**165.577049**	11.70	7.1	ug/L
	Cd	114	82170.111	0.609	**164.475387**	11.66	7.1	ug/L

|>	In	115	135194.129	135194.129				ug/L
|	Sn	120	362.616	-0.001	**0.606043**	0.06	9.8	ug/L
|	Sb	121	962.060	0.004	**1.371192**	0.04	3.1	ug/L
L	Sb	123	732.781	0.003	**1.670611**	0.08	5.0	ug/L
⌈	Ba	135	3632.192	0.023	**19.980599**	1.54	7.7	ug/L
|	Ba	137	6221.851	0.039	**19.520382**	1.21	6.2	ug/L
|	Tb	159	147954.123	-0.017				ug/L
|>	Ho	165	158660.463	158660.463				ug/L
|	Tl	203	227.337	0.001	**0.371069**	0.02	6.0	ug/L
|	Tl	205	587.356	0.004	**0.356534**	0.03	7.4	ug/L
L	Pb	208	347419.593	2.193	**171.603805**	13.45	7.8	ug/L
	Kr	83	38.000	17.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		88.654	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		148.848	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		71.227	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	83.965
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-30A
Sample Date/Time: Monday, February 15, 2010 19:45:57
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-30A.160
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33213.676	0.034				ug/L
|	Li	7	69146.828	0.218	**75.273079**	3.10	4.1	ug/L
|	Be	9	2234.992	0.007	**11.972165**	0.07	0.6	ug/L
|	B	11	34404.779	0.111	**129.498840**	4.27	3.3	ug/L
|	Na	23	98570657.659	322.798	**175258.590592**	11896.25	6.8	ug/L
|	Mg	24	11033117.272	36.140	**27179.273975**	2018.56	7.4	ug/L
|	Al	27	21777541.915	71.312	**16506.018875**	1045.12	6.3	ug/L
|	K	39	4890361.925	15.849	**3797.096866**	259.71	6.8	ug/L
|	Ca	43	56004.505	0.183	**12409.528068**	514.84	4.1	ug/L
| >	Sc	45	305801.957	305801.957				ug/L
|	Ti	49	772.706	0.001	**3.282033**	0.72	21.9	ug/L
|	Co	59	95809.480	0.314	**59.577767**	3.15	5.3	ug/L
|	Ni	60	24238.813	0.079	**77.528963**	3.59	4.6	ug/L
|	Ni	62	3748.920	0.012	**79.186093**	8.28	10.5	ug/L
|	Cu	63	7805.962	0.025	**9.806301**	0.57	5.8	ug/L
|	Cu	65	3527.476	0.011	**9.578888**	0.80	8.4	ug/L
|	Zn	66	52030.107	0.170	**229.250158**	11.58	5.1	ug/L
|	Zn	67	9536.578	0.027	**226.750463**	5.38	2.4	ug/L
|	Zn	68	37278.222	0.122	**229.507289**	15.57	6.8	ug/L
|	V	51	5478.219	0.018	**3.507298**	0.24	7.0	ug/L
|	Cr	52	8449.977	0.018	**3.800549**	0.43	11.3	ug/L
|	Cr	53	14833.630	0.005	**-0.288371**	4.00	1386.9	ug/L
|	Mn	55	1768829.297	5.792	**727.981765**	47.14	6.5	ug/L
|	Fe	54	2152010.815	7.012	**17737.362958**	1142.05	6.4	ug/L
⌊	Fe	57	842027.206	2.756	**17099.379420**	1138.37	6.7	ug/L
⌈	As	75	-440.280	-0.000	**-0.215930**	0.25	115.1	ug/L
|	Se	77	1887.566	-0.000	**-9.217563**	3.77	40.9	ug/L
|	Se	82	32.741	0.000	**2.484843**	0.13	5.2	ug/L
|	Sr	88	407801.210	0.754	**86.515177**	2.74	3.2	ug/L
| >	Y	89	540847.950	540847.950				ug/L
|	Mo	95	18.000	0.000	**0.555100**	0.02	4.0	ug/L
|	Mo	97	8.667	-0.000	**0.770136**	0.02	2.3	ug/L
⌊	Mo	98	25.187	-0.000	**0.790117**	0.01	1.9	ug/L
⌈	Ag	107	14.000	0.000	**0.209470**	0.00	2.2	ug/L
|	Ag	109	13.333	0.000	**0.259778**	0.01	3.5	ug/L
|	Cd	111	18964.858	0.141	**86.512982**	3.39	3.9	ug/L
|	Cd	114	42671.575	0.318	**86.107071**	4.09	4.7	ug/L

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|>	In	115	134354.089	134354.089				ug/L
|	Sn	120	335.931	-0.001	**0.577318**	0.03	5.4	ug/L
|	Sb	121	282.005	-0.001	**0.289999**	0.02	5.6	ug/L
\L	Sb	123	215.914	-0.001	**0.596576**	0.08	12.6	ug/L
|	Ba	135	1734.196	0.011	**10.295767**	0.52	5.1	ug/L
|	Ba	137	3064.611	0.020	**10.157069**	0.42	4.1	ug/L
|	Tb	159	143202.488	-0.017				ug/L
|>	Ho	165	153429.985	153429.985				ug/L
|	Tl	203	236.670	0.002	**0.399413**	0.05	13.6	ug/L
|	Tl	205	564.688	0.004	**0.354391**	0.05	15.1	ug/L
\L	Pb	208	5187.340	0.034	**2.559267**	0.15	5.8	ug/L
	Kr	83	24.533	4.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.538	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		121.603	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		70.785	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.197
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 19:48:39
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.161
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32029.241	0.030				ug/L
|	Li	7	129993.761	0.416	**142.694892**	3.28	2.3	ug/L
|	Be	9	27402.740	0.089	**130.855841**	2.39	1.8	ug/L
|	B	11	33564.412	0.108	**126.096326**	0.17	0.1	ug/L
|	Na	23	3336540.848	10.865	**5904.658705**	61.58	1.0	ug/L
|	Mg	24	2491754.473	8.140	**6124.889209**	147.73	2.4	ug/L
|	Al	27	7844055.139	25.621	**5940.124309**	66.81	1.1	ug/L
|	K	39	8432001.339	27.384	**6564.227379**	426.83	6.5	ug/L
|	Ca	43	22766.991	0.074	**5012.786842**	182.73	3.6	ug/L
| >	Sc	45	306156.173	306156.173				ug/L
|	Ti	49	10726.147	0.034	**94.767739**	5.00	5.3	ug/L
|	Co	59	148150.811	0.484	**91.995570**	2.44	2.7	ug/L
|	Ni	60	28566.955	0.093	**91.275831**	2.35	2.6	ug/L
|	Ni	62	4397.257	0.014	**92.721946**	1.69	1.8	ug/L
|	Cu	63	68529.450	0.224	**91.214389**	3.67	4.0	ug/L
|	Cu	65	32542.092	0.106	**91.793927**	4.53	4.9	ug/L
|	Zn	66	20711.883	0.067	**90.621688**	4.39	4.8	ug/L
|	Zn	67	4864.206	0.012	**95.577955**	5.97	6.2	ug/L
|	Zn	68	15082.781	0.049	**91.921414**	3.17	3.4	ug/L
|	V	51	162931.649	0.533	**97.168657**	4.79	4.9	ug/L
|	Cr	52	136830.169	0.437	**94.762433**	3.52	3.7	ug/L
|	Cr	53	28325.398	0.049	**84.263561**	4.08	4.8	ug/L
|	Mn	55	224052.127	0.731	**92.107820**	3.05	3.3	ug/L
|	Fe	54	569108.059	1.824	**4616.012942**	167.73	3.6	ug/L
⌊	Fe	57	227853.654	0.743	**4607.797693**	149.60	3.2	ug/L
⌈	As	75	25428.461	0.070	**106.562831**	6.16	5.8	ug/L
|	Se	77	10195.421	0.024	**494.538841**	14.64	3.0	ug/L
|	Se	82	12317.022	0.034	**518.792266**	19.29	3.7	ug/L
|	Sr	88	320679.157	0.876	**100.476462**	4.17	4.1	ug/L
| >	Y	89	365866.072	365866.072				ug/L
|	Mo	95	39209.721	0.107	**100.143209**	2.94	2.9	ug/L
|	Mo	97	24034.159	0.066	**99.998261**	1.66	1.7	ug/L
⌊	Mo	98	60887.648	0.166	**99.317053**	2.11	2.1	ug/L
⌈	Ag	107	102478.188	0.712	**102.701554**	1.89	1.8	ug/L
|	Ag	109	95874.540	0.667	**101.825239**	2.40	2.4	ug/L
|	Cd	111	24026.646	0.167	**102.277554**	3.23	3.2	ug/L
|	Cd	114	53618.251	0.373	**100.896649**	2.79	2.8	ug/L

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|>	In	115	143856.904	143856.904				ug/L
|	Sn	120	93363.490	0.646	**99.864419**	3.40	3.4	ug/L
|	Sb	121	65172.520	0.450	**97.408717**	4.08	4.2	ug/L
|	Sb	123	49780.619	0.344	**97.502566**	2.80	2.9	ug/L
⌈	Ba	135	17092.992	0.112	**93.990994**	4.65	4.9	ug/L
|	Ba	137	29457.667	0.192	**93.940968**	3.59	3.8	ug/L
|	Tb	159	143413.181	-0.013				ug/L
|>	Ho	165	153081.277	153081.277				ug/L
|	Tl	203	64521.146	0.422	**108.690583**	6.01	5.5	ug/L
|	Tl	205	156029.616	1.020	**108.424527**	5.77	5.3	ug/L
⌊	Pb	208	217148.177	1.419	**110.990657**	3.62	3.3	ug/L
	Kr	83	17.000	-3.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	142.695		
Be	9	130.856		
B	11	126.096		
Na	23	118.093		
Mg	24	122.498		
Al	27	116.473		
K	39	131.285		
Ca	43	100.256		
Sc	45		85.637	
Ti	49	94.768		
Co	59	91.996		
Ni	60	91.276		
Ni	62	92.722		
Cu	63	91.214		
Cu	65	91.794		
Zn	66	90.622		
Zn	67	95.578		
Zn	68	91.921		
V	51	97.169		
Cr	52	94.762		
Cr	53	84.264		
Mn	55	92.108		
Fe	54	92.320		
Fe	57	92.156		
As	75	106.563		
Se	77	98.908		
Se	82	103.758		
Sr	88	100.476		
Y	89		82.260	
Mo	95	100.143		
Mo	97	99.998		
Mo	98	99.317		
Ag	107	102.702		
Ag	109	101.825		
Cd	111	102.278		
Cd	114	100.897		
In	115		75.791	
Sn	120	99.864		
Sb	121	97.409		

Sb	123	97.503	
Ba	135	93.991	
Ba	137	93.941	
Tb	159		
Ho	165		81.012
Tl	203	108.691	
Tl	205	108.425	
Pb	208	110.991	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 19:51:19
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.162
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	36045.098	0.043				ug/L
|	Li	7	3900.323	0.004	**2.660900**	0.15	5.8	ug/L
|	Be	9	10.000	0.000	**1.450645**	0.01	0.7	ug/L
|	B	11	1746.199	0.004	**6.498381**	0.63	9.7	ug/L
|	Na	23	20394.278	0.033	**23.567308**	6.40	27.2	ug/L
|	Mg	24	1300.112	0.004	**7.440830**	0.51	6.8	ug/L
|	Al	27	4252.851	0.012	**17.891338**	0.36	2.0	ug/L
|	K	39	58925.255	0.028	**1.511738**	2.10	139.1	ug/L
|	Ca	43	169.335	0.000	**-0.963486**	9.82	1019.5	ug/L
| >	Sc	45	306090.714	306090.714				ug/L
|	Ti	49	352.675	-0.000	**-0.602258**	0.29	48.6	ug/L
|	Co	59	42.667	0.000	**-0.062096**	0.00	2.3	ug/L
|	Ni	60	14.000	0.000	**-0.373354**	0.00	0.1	ug/L
|	Ni	62	12.000	-0.000	**0.371783**	0.09	23.2	ug/L
|	Cu	63	351.341	0.001	**-0.209966**	0.04	18.5	ug/L
|	Cu	65	145.335	0.000	**-0.035228**	0.10	284.1	ug/L
|	Zn	66	129.334	0.000	**-0.172797**	0.09	51.1	ug/L
|	Zn	67	1561.493	0.001	**3.129837**	3.40	108.6	ug/L
|	Zn	68	116.001	-0.000	**-0.489553**	0.11	22.1	ug/L
|	V	51	1245.100	0.004	**0.983865**	0.27	27.1	ug/L
|	Cr	52	2807.846	-0.000	**-0.213287**	0.04	20.9	ug/L
|	Cr	53	14072.864	0.002	**-5.226315**	1.51	28.8	ug/L
|	Mn	55	584.689	0.001	**0.363721**	0.02	4.8	ug/L
|	Fe	54	9622.861	-0.003	**-6.981008**	0.28	4.0	ug/L
⌊	Fe	57	590.689	0.000	**0.543976**	0.71	131.3	ug/L
⌜	As	75	-347.463	-0.001	**-0.429396**	0.30	69.4	ug/L
|	Se	77	1436.134	0.000	**0.015260**	3.77	24688.9	ug/L
|	Se	82	4.020	0.000	**1.725182**	0.14	8.4	ug/L
|	Sr	88	136.668	0.000	**0.640770**	0.00	0.3	ug/L
| >	Y	89	364920.098	364920.098				ug/L
|	Mo	95	66.000	0.000	**0.692011**	0.02	2.2	ug/L
|	Mo	97	40.667	0.000	**0.914328**	0.00	0.3	ug/L
⌊	Mo	98	95.261	0.000	**0.917207**	0.02	2.0	ug/L
⌜	Ag	107	14.000	0.000	**0.208625**	0.00	0.1	ug/L
|	Ag	109	6.000	0.000	**0.250922**	0.00	1.7	ug/L
|	Cd	111	4.167	0.000	**0.277375**	0.01	4.2	ug/L
|	Cd	114	13.007	0.000	**0.552541**	0.00	0.6	ug/L

|>	In	115	141899.067	141899.067				ug/L
|	Sn	120	475.280	0.000	**0.707141**	0.04	5.0	ug/L
|	Sb	121	1334.116	0.006	**1.862245**	0.20	10.7	ug/L
\L	Sb	123	996.060	0.005	**2.118457**	0.15	7.0	ug/L
|	Ba	135	9.333	0.000	**0.919042**	0.03	3.0	ug/L
|	Ba	137	16.000	0.000	**0.504920**	0.03	5.0	ug/L
|	Tb	159	139321.076	-0.020				ug/L
|>	Ho	165	149836.892	149836.892				ug/L
|	Tl	203	36.667	0.000	**0.064741**	0.02	38.3	ug/L
|	Tl	205	89.334	0.001	**0.026009**	0.00	15.9	ug/L
\L	Pb	208	104.667	0.001	**-0.033983**	0.00	12.5	ug/L
	Kr	83	14.533	-6.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.618	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		82.047	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		74.760	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.295
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-31A
Sample Date/Time: Monday, February 15, 2010 19:54:02
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-31A.163
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	23669.793	-0.004				ug/L
|	Li	7	220602.814	0.653	**223.283961**	6.03	2.7	ug/L
|	Be	9	4790.159	0.014	**22.180287**	0.65	2.9	ug/L
|	B	11	82749.518	0.247	**285.570325**	3.37	1.2	ug/L
|	Na	23	210910842.022	632.609	**343460.737617**	5599.44	1.6	ug/L
|	Mg	24	31633047.878	94.895	**71358.714664**	992.40	1.4	ug/L
|	Al	27	165759389.696	497.263	**115007.172051**	3900.21	3.4	ug/L
|	K	39	9043123.162	26.958	**6462.013260**	144.90	2.2	ug/L
|	Ca	43	352986.314	1.058	**71866.499101**	2421.99	3.4	ug/L
| >	Sc	45	333369.320	333369.320				ug/L
|	Ti	49	4898.897	0.013	**37.510675**	2.84	7.6	ug/L
|	Co	59	227217.740	0.682	**129.591460**	2.91	2.2	ug/L
|	Ni	60	51112.632	0.153	**150.224022**	2.87	1.9	ug/L
|	Ni	62	8183.018	0.024	**158.419908**	5.04	3.2	ug/L
|	Cu	63	3099.291	0.009	**3.134387**	0.05	1.6	ug/L
|	Cu	65	1752.200	0.005	**4.111105**	0.21	5.2	ug/L
|	Zn	66	54093.643	0.162	**218.394519**	7.55	3.5	ug/L
|	Zn	67	9941.087	0.026	**215.029735**	6.67	3.1	ug/L
|	Zn	68	37567.551	0.112	**211.814381**	6.43	3.0	ug/L
|	V	51	149620.857	0.449	**81.953063**	2.64	3.2	ug/L
|	Cr	52	64658.727	0.184	**39.870258**	1.15	2.9	ug/L
|	Cr	53	18490.206	0.011	**13.011252**	2.36	18.1	ug/L
|	Mn	55	9471245.960	28.410	**3570.328713**	108.35	3.0	ug/L
|	Fe	54	19811785.832	59.394	**150226.483661**	3983.89	2.7	ug/L
⌞	Fe	57	8145939.043	24.433	**151618.854699**	3789.91	2.5	ug/L
⌜	As	75	7650.883	0.005	**7.587431**	0.11	1.4	ug/L
|	Se	77	2238.993	-0.002	**-55.092670**	1.24	2.2	ug/L
|	Se	82	80.451	0.000	**2.254618**	0.02	1.0	ug/L
|	Sr	88	2934891.192	1.660	**189.746089**	2.47	1.3	ug/L
| >	Y	89	1767615.389	1767615.389				ug/L
|	Mo	95	505.350	0.000	**0.789553**	0.01	1.4	ug/L
|	Mo	97	325.340	0.000	**1.024460**	0.03	2.9	ug/L
⌞	Mo	98	823.825	0.000	**1.038828**	0.01	0.8	ug/L
⌜	Ag	107	88.667	0.001	**0.272085**	0.02	5.9	ug/L
|	Ag	109	24.000	0.000	**0.266628**	0.00	1.2	ug/L
|	Cd	111	842.713	0.005	**3.383467**	0.15	4.4	ug/L
|	Cd	114	1914.661	0.012	**3.655832**	0.09	2.4	ug/L

|>	In	115	164877.236	164877.236				ug/L
|	Sn	120	517.198	-0.000	**0.674928**	0.03	4.1	ug/L
|	Sb	121	658.028	0.001	**0.697815**	0.04	5.1	ug/L
L	Sb	123	547.176	0.001	**1.078349**	0.06	5.3	ug/L
⌈	Ba	135	3013.924	0.013	**11.608530**	0.57	4.9	ug/L
|	Ba	137	5215.104	0.022	**11.278063**	0.57	5.1	ug/L
|	Tb	159	226963.841	0.020				ug/L
|>	Ho	165	234033.259	234033.259				ug/L
|	Tl	203	84.000	0.000	**0.093826**	0.01	9.7	ug/L
|	Tl	205	192.002	0.001	**0.049956**	0.01	23.8	ug/L
L	Pb	208	15275.220	0.065	**5.021686**	0.21	4.1	ug/L
	Kr	83	95.867	75.334				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.249	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		397.425	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		86.866	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	123.853
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-32A
Sample Date/Time: Monday, February 15, 2010 19:56:42
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-32A.164
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33545.624	0.035				ug/L
|	Li	7	34540.055	0.104	**36.671394**	1.76	4.8	ug/L
|	Be	9	11.333	0.000	**1.457625**	0.05	3.4	ug/L
|	B	11	14300.635	0.045	**53.683189**	3.98	7.4	ug/L
|	Na	23	112795664.890	368.122	**199866.031275**	6807.68	3.4	ug/L
|	Mg	24	34636742.134	113.064	**85020.534309**	3173.97	3.7	ug/L
|	Al	27	57628.550	0.186	**58.203291**	5.37	9.2	ug/L
|	K	39	1870134.566	5.942	**1420.360738**	80.27	5.7	ug/L
|	Ca	43	486301.573	1.587	**107763.438926**	4451.28	4.1	ug/L
| >	Sc	45	306553.009	306553.009				ug/L
|	Ti	49	567.354	0.000	**1.365385**	0.12	9.0	ug/L
|	Co	59	1177.424	0.004	**0.642717**	0.04	6.8	ug/L
|	Ni	60	562.687	0.002	**1.386640**	0.09	6.2	ug/L
|	Ni	62	41.333	0.000	**0.987074**	0.19	18.8	ug/L
|	Cu	63	1060.074	0.003	**0.741428**	0.19	25.2	ug/L
|	Cu	65	222.670	0.001	**0.184518**	0.11	56.9	ug/L
|	Zn	66	937.391	0.003	**3.387141**	0.24	7.1	ug/L
|	Zn	67	2263.000	0.004	**22.732790**	3.32	14.6	ug/L
|	Zn	68	2112.291	0.006	**11.830841**	1.04	8.8	ug/L
|	V	51	2491.211	0.008	**1.728487**	0.48	27.8	ug/L
|	Cr	52	2939.895	0.000	**-0.122060**	0.05	43.8	ug/L
|	Cr	53	13714.884	0.001	**-7.578713**	1.48	19.5	ug/L
|	Mn	55	185433.735	0.605	**76.217912**	4.37	5.7	ug/L
|	Fe	54	19474.570	0.029	**74.424990**	13.52	18.2	ug/L
⌊	Fe	57	8677.567	0.027	**164.469628**	13.56	8.2	ug/L
⌈	As	75	50.526	0.001	**1.241207**	0.67	53.7	ug/L
|	Se	77	2447.056	0.003	**56.500345**	8.71	15.4	ug/L
|	Se	82	157.100	0.000	**8.134603**	0.66	8.1	ug/L
|	Sr	88	3429306.191	9.348	**1065.743713**	76.72	7.2	ug/L
| >	Y	89	367486.155	367486.155				ug/L
|	Mo	95	538.019	0.001	**1.887192**	0.10	5.4	ug/L
|	Mo	97	342.674	0.001	**2.158266**	0.14	6.4	ug/L
⌊	Mo	98	791.082	0.002	**2.039042**	0.06	3.1	ug/L
⌈	Ag	107	10.667	0.000	**0.205373**	0.01	3.7	ug/L
|	Ag	109	8.000	0.000	**0.253113**	0.00	1.0	ug/L
|	Cd	111	164.668	0.001	**0.965848**	0.07	7.2	ug/L
|	Cd	114	345.693	0.002	**1.181369**	0.06	4.7	ug/L

|>	In	115	142791.761	142791.761				ug/L
|	Sn	120	383.925	-0.001	**0.605419**	0.02	3.3	ug/L
|	Sb	121	1260.103	0.006	**1.742922**	0.16	9.2	ug/L
\L	Sb	123	946.553	0.004	**2.012314**	0.14	7.0	ug/L
\[	Ba	135	114768.862	0.737	**615.290498**	32.44	5.3	ug/L
|	Ba	137	197653.456	1.269	**616.942659**	35.62	5.8	ug/L
|	Tb	159	147595.303	-0.003				ug/L
|>	Ho	165	155877.039	155877.039				ug/L
|	Tl	203	22.667	0.000	**0.038836**	0.01	20.7	ug/L
|	Tl	205	44.667	0.000	**-0.007090**	0.01	95.5	ug/L
\L	Pb	208	36629.326	0.235	**18.327615**	0.99	5.4	ug/L
	Kr	83	21.533	1.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.748	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		82.624	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.230	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	82.492
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-33A
Sample Date/Time: Monday, February 15, 2010 19:59:23
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-33A.165
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32699.157	0.035				ug/L
|	Li	7	89154.636	0.290	**99.842871**	3.29	3.3	ug/L
|	Be	9	2473.064	0.008	**13.381214**	0.21	1.6	ug/L
|	B	11	10359.639	0.033	**39.859500**	1.06	2.7	ug/L
|	Na	23	44800597.486	149.991	**81438.607525**	1907.78	2.3	ug/L
|	Mg	24	13053777.176	43.711	**32871.811122**	722.60	2.2	ug/L
|	Al	27	9965098.051	33.369	**7731.779737**	122.87	1.6	ug/L
|	K	39	3124975.953	10.300	**2465.754769**	30.76	1.2	ug/L
|	Ca	43	244389.262	0.818	**55546.222440**	1830.36	3.3	ug/L
| >	Sc	45	298652.133	298652.133				ug/L
|	Ti	49	907.387	0.002	**4.709439**	0.69	14.7	ug/L
|	Co	59	53509.536	0.179	**34.011322**	1.22	3.6	ug/L
|	Ni	60	10045.890	0.034	**32.637592**	0.88	2.7	ug/L
|	Ni	62	1608.168	0.005	**34.853002**	2.07	5.9	ug/L
|	Cu	63	656.695	0.002	**0.221799**	0.06	27.7	ug/L
|	Cu	65	342.674	0.001	**0.548338**	0.13	23.7	ug/L
|	Zn	66	17127.050	0.057	**76.711972**	2.28	3.0	ug/L
|	Zn	67	4326.551	0.011	**83.633122**	6.47	7.7	ug/L
|	Zn	68	12024.060	0.040	**74.911845**	2.64	3.5	ug/L
|	V	51	43479.897	0.146	**26.762191**	1.60	6.0	ug/L
|	Cr	52	33684.303	0.103	**22.270605**	1.08	4.9	ug/L
|	Cr	53	17383.624	0.014	**18.306455**	3.10	16.9	ug/L
|	Mn	55	3397351.333	11.379	**1430.150191**	59.79	4.2	ug/L
|	Fe	54	2237475.891	7.460	**18870.193014**	856.41	4.5	ug/L
⌊	Fe	57	876700.490	2.935	**18211.757070**	745.88	4.1	ug/L
⌈	As	75	-216.164	-0.000	**0.373720**	0.69	185.8	ug/L
|	Se	77	1994.259	0.000	**-0.837173**	3.71	443.2	ug/L
|	Se	82	20.041	0.000	**2.155947**	0.10	4.8	ug/L
|	Sr	88	1216579.275	2.375	**271.209760**	3.67	1.4	ug/L
| >	Y	89	512218.098	512218.098				ug/L
|	Mo	95	26.000	0.000	**0.571129**	0.01	2.2	ug/L
|	Mo	97	11.333	0.000	**0.779419**	0.01	0.9	ug/L
⌊	Mo	98	29.708	0.000	**0.797061**	0.01	1.0	ug/L
⌈	Ag	107	15.333	0.000	**0.210636**	0.01	3.2	ug/L
|	Ag	109	4.667	0.000	**0.249736**	0.01	2.3	ug/L
|	Cd	111	583.189	0.004	**2.876820**	0.06	2.0	ug/L
|	Cd	114	1322.503	0.010	**3.144822**	0.05	1.4	ug/L

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|>	In	115	136068.404	136068.404				ug/L
|	Sn	120	345.316	-0.001	**0.582653**	0.04	7.2	ug/L
|	Sb	121	284.005	-0.001	**0.287095**	0.04	15.1	ug/L
|	Sb	123	258.419	-0.001	**0.678151**	0.11	15.7	ug/L
⌈	Ba	135	2056.942	0.013	**12.003496**	0.59	4.9	ug/L
|	Ba	137	3444.105	0.022	**11.316257**	0.52	4.6	ug/L
|	Tb	159	143879.378	-0.016				ug/L
|>	Ho	165	154062.527	154062.527				ug/L
|	Tl	203	22.667	0.000	**0.039352**	0.01	18.9	ug/L
|	Tl	205	44.667	0.000	**-0.006610**	0.00	52.8	ug/L
⌊	Pb	208	2879.541	0.019	**1.374625**	0.04	2.5	ug/L
	Kr	83	28.800	8.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		83.538	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		115.165	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		71.688	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	81.532
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-34A
Sample Date/Time: Monday, February 15, 2010 20:02:04
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-34A.166
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34634.971	0.046				ug/L
|	Li	7	45893.889	0.152	**52.900928**	2.52	4.8	ug/L
|	Be	9	12.667	0.000	**1.467441**	0.01	0.4	ug/L
|	B	11	19238.029	0.066	**77.341352**	2.51	3.2	ug/L
|	Na	23	45653163.601	159.608	**86659.686349**	3276.95	3.8	ug/L
|	Mg	24	9811884.624	34.305	**25799.363508**	906.57	3.5	ug/L
|	Al	27	88721.104	0.308	**86.449517**	4.85	5.6	ug/L
|	K	39	3349955.724	11.555	**2766.779607**	180.11	6.5	ug/L
|	Ca	43	175827.370	0.614	**41702.263189**	1195.08	2.9	ug/L
| >	Sc	45	286138.853	286138.853				ug/L
|	Ti	49	580.689	0.001	**1.864076**	0.23	12.5	ug/L
|	Co	59	169.335	0.001	**0.024217**	0.03	111.8	ug/L
|	Ni	60	180.002	0.001	**0.200700**	0.11	52.8	ug/L
|	Ni	62	28.000	0.000	**0.751549**	0.19	25.1	ug/L
|	Cu	63	637.360	0.002	**0.233264**	0.04	16.7	ug/L
|	Cu	65	170.669	0.000	**0.070915**	0.08	109.1	ug/L
|	Zn	66	412.011	0.001	**1.203596**	0.21	17.3	ug/L
|	Zn	67	2029.601	0.003	**20.213082**	1.51	7.5	ug/L
|	Zn	68	1465.473	0.005	**8.478723**	0.61	7.2	ug/L
|	V	51	5324.548	0.019	**3.636227**	0.54	14.7	ug/L
|	Cr	52	2995.250	0.001	**0.068045**	0.08	124.0	ug/L
|	Cr	53	13763.638	0.004	**-1.095126**	3.20	292.0	ug/L
|	Mn	55	3619.521	0.012	**1.714188**	0.13	7.6	ug/L
|	Fe	54	17329.822	0.026	**66.806074**	7.65	11.5	ug/L
⌊	Fe	57	4632.728	0.014	**89.061014**	1.56	1.8	ug/L
⌈	As	75	-375.605	-0.001	**-0.678464**	0.09	12.7	ug/L
|	Se	77	1886.899	0.002	**34.954516**	16.09	46.0	ug/L
|	Se	82	17.613	0.000	**2.361260**	0.09	4.0	ug/L
|	Sr	88	929840.054	2.766	**315.796204**	23.27	7.4	ug/L
| >	Y	89	336899.903	336899.903				ug/L
|	Mo	95	998.065	0.003	**3.284744**	0.24	7.2	ug/L
|	Mo	97	618.025	0.002	**3.523977**	0.20	5.8	ug/L
⌊	Mo	98	1461.472	0.004	**3.340138**	0.27	8.2	ug/L
⌈	Ag	107	2.667	-0.000	**0.197275**	0.00	1.6	ug/L
|	Ag	109	4.667	0.000	**0.249792**	0.01	2.0	ug/L
|	Cd	111	7.000	0.000	**0.292138**	0.01	2.8	ug/L
|	Cd	114	11.878	0.000	**0.552074**	0.01	1.7	ug/L

|>	In	115	130989.301	130989.301				ug/L
|	Sn	120	344.615	-0.001	**0.596417**	0.02	2.9	ug/L
|	Sb	121	301.339	-0.001	**0.334351**	0.04	13.2	ug/L
|	Sb	123	261.417	-0.000	**0.706581**	0.06	8.3	ug/L
|	Ba	135	70205.891	0.483	**403.532937**	23.18	5.7	ug/L
|	Ba	137	121856.931	0.838	**407.584262**	21.01	5.2	ug/L
|	Tb	159	135725.750	-0.017				ug/L
|>	Ho	165	145464.880	145464.880				ug/L
|	Tl	203	4.000	-0.000	**0.008521**	0.01	74.0	ug/L
|	Tl	205	9.333	0.000	**-0.030706**	0.01	18.7	ug/L
|	Pb	208	724.014	0.005	**0.301577**	0.05	17.0	ug/L
	Kr	83	15.333	-5.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		80.038	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		75.747	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		69.012	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	76.982
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-35A
Sample Date/Time: Monday, February 15, 2010 20:04:44
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\10020428-35A.167
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35429.271	0.052				ug/L
|	Li	7	12543.553	0.036	**13.576991**	0.19	1.4	ug/L
|	Be	9	9.333	0.000	**1.451623**	0.01	0.4	ug/L
|	B	11	24047.547	0.085	**98.859345**	1.59	1.6	ug/L
|	Na	23	38493944.034	137.642	**74734.171275**	2918.92	3.9	ug/L
|	Mg	24	190464.732	0.681	**516.585687**	29.17	5.6	ug/L
|	Al	27	111590.931	0.397	**106.952736**	3.86	3.6	ug/L
|	K	39	853839.469	2.889	**687.929996**	26.51	3.9	ug/L
|	Ca	43	6661.555	0.023	**1578.255654**	61.72	3.9	ug/L
| >	Sc	45	279731.905	279731.905				ug/L
|	Ti	49	748.036	0.001	**3.684327**	0.40	10.8	ug/L
|	Co	59	130.668	0.000	**0.000101**	0.01	13212.4	ug/L
|	Ni	60	133.335	0.000	**0.049360**	0.10	199.3	ug/L
|	Ni	62	34.667	0.000	**0.917352**	0.30	32.4	ug/L
|	Cu	63	812.710	0.003	**0.511331**	0.02	3.2	ug/L
|	Cu	65	312.006	0.001	**0.520757**	0.03	5.3	ug/L
|	Zn	66	273.338	0.001	**0.575127**	0.07	13.0	ug/L
|	Zn	67	1661.513	0.002	**10.312699**	1.46	14.2	ug/L
|	Zn	68	357.342	0.001	**1.212483**	0.28	23.5	ug/L
|	V	51	3250.301	0.012	**2.353751**	0.61	26.1	ug/L
|	Cr	52	3050.605	0.001	**0.162743**	0.03	19.9	ug/L
|	Cr	53	13735.589	0.005	**0.790192**	1.47	186.3	ug/L
|	Mn	55	57441.697	0.205	**25.931195**	0.32	1.2	ug/L
|	Fe	54	18212.974	0.030	**78.244763**	5.91	7.6	ug/L
⌊	Fe	57	3189.328	0.010	**59.310300**	1.20	2.0	ug/L
⌈	As	75	-247.541	-0.000	**-0.100187**	0.54	544.0	ug/L
|	Se	77	1660.846	0.001	**20.172648**	2.32	11.5	ug/L
|	Se	82	8.829	0.000	**1.956675**	0.17	8.9	ug/L
|	Sr	88	35918.384	0.106	**12.695645**	0.32	2.5	ug/L
| >	Y	89	338295.306	338295.306				ug/L
|	Mo	95	453.347	0.001	**1.768612**	0.08	4.8	ug/L
|	Mo	97	273.338	0.001	**1.966703**	0.10	5.3	ug/L
⌊	Mo	98	704.480	0.002	**1.996230**	0.05	2.3	ug/L
⌈	Ag	107	4.000	0.000	**0.198943**	0.00	1.1	ug/L
|	Ag	109	3.333	0.000	**0.248497**	0.00	1.1	ug/L
|	Cd	111	7.333	0.000	**0.294676**	0.00	1.0	ug/L
|	Cd	114	12.139	0.000	**0.553420**	0.01	2.4	ug/L

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|>	In	115	127489.621	127489.621				ug/L
|	Sn	120	336.632	-0.001	**0.598394**	0.02	3.0	ug/L
|	Sb	121	246.004	-0.001	**0.253516**	0.05	19.7	ug/L
|	Sb	123	176.916	-0.001	**0.534552**	0.05	10.3	ug/L
|	Ba	135	2032.936	0.014	**12.857754**	0.59	4.6	ug/L
|	Ba	137	3581.500	0.025	**12.760382**	0.38	3.0	ug/L
|	Tb	159	130311.206	-0.028				ug/L
|>	Ho	165	141383.679	141383.679				ug/L
|	Tl	203	6.000	0.000	**0.012345**	0.00	30.9	ug/L
|	Tl	205	9.333	0.000	**-0.030441**	0.00	7.4	ug/L
|	Pb	208	2086.776	0.015	**1.066696**	0.03	2.5	ug/L
	Kr	83	13.333	-7.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		78.245	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		76.061	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		67.168	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	74.822
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Monday, February 15, 2010 20:07:26
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 4.168
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30656.437	0.031				ug/L
|	Li	7	126886.915	0.429	**146.950529**	5.12	3.5	ug/L
|	Be	9	26279.504	0.091	**132.370176**	6.33	4.8	ug/L
|	B	11	32340.509	0.110	**128.126047**	2.70	2.1	ug/L
|	Na	23	3240736.651	11.133	**6049.912142**	390.75	6.5	ug/L
|	Mg	24	2367647.859	8.157	**6138.014874**	329.87	5.4	ug/L
|	Al	27	7507277.782	25.857	**5994.647325**	239.99	4.0	ug/L
|	K	39	7723072.277	26.449	**6340.132135**	449.99	7.1	ug/L
|	Ca	43	21582.245	0.074	**5011.636462**	230.40	4.6	ug/L
| >	Sc	45	290428.415	290428.415				ug/L
|	Ti	49	10419.053	0.035	**97.110029**	2.02	2.1	ug/L
|	Co	59	139892.585	0.482	**91.599168**	2.42	2.6	ug/L
|	Ni	60	27145.819	0.093	**91.454249**	2.63	2.9	ug/L
|	Ni	62	4095.757	0.014	**91.127011**	4.95	5.4	ug/L
|	Cu	63	64396.429	0.222	**90.362984**	2.16	2.4	ug/L
|	Cu	65	30367.830	0.105	**90.312868**	3.14	3.5	ug/L
|	Zn	66	19449.897	0.067	**89.704584**	1.50	1.7	ug/L
|	Zn	67	4465.297	0.012	**91.184239**	3.26	3.6	ug/L
|	Zn	68	14126.294	0.048	**90.785242**	3.49	3.8	ug/L
|	V	51	155995.577	0.538	**98.086598**	3.40	3.5	ug/L
|	Cr	52	130149.298	0.439	**95.051940**	3.39	3.6	ug/L
|	Cr	53	27038.107	0.049	**85.437271**	5.64	6.6	ug/L
|	Mn	55	210503.435	0.725	**91.254921**	2.86	3.1	ug/L
|	Fe	54	538251.477	1.820	**4604.189912**	184.71	4.0	ug/L
⌊	Fe	57	214108.234	0.736	**4565.779958**	137.56	3.0	ug/L
⌈	As	75	24665.866	0.072	**109.328366**	0.53	0.5	ug/L
|	Se	77	9571.290	0.024	**490.576389**	17.49	3.6	ug/L
|	Se	82	11896.761	0.034	**530.076132**	3.56	0.7	ug/L
|	Sr	88	305672.141	0.884	**101.312287**	3.36	3.3	ug/L
| >	Y	89	345800.290	345800.290				ug/L
|	Mo	95	37323.766	0.108	**100.849481**	4.13	4.1	ug/L
|	Mo	97	22662.696	0.066	**99.762229**	3.41	3.4	ug/L
⌊	Mo	98	57644.191	0.167	**99.484739**	3.71	3.7	ug/L
⌈	Ag	107	96722.233	0.706	**101.728175**	5.10	5.0	ug/L
|	Ag	109	90183.854	0.658	**100.526232**	4.64	4.6	ug/L
|	Cd	111	23038.135	0.168	**102.917401**	4.77	4.6	ug/L
|	Cd	114	51496.697	0.376	**101.673219**	3.06	3.0	ug/L

|>	In	115	137131.541	137131.541				ug/L
|	Sn	120	88266.932	0.641	**99.077454**	3.52	3.5	ug/L
|	Sb	121	63130.126	0.458	**99.023739**	4.28	4.3	ug/L
_	Sb	123	47459.739	0.344	**97.546907**	3.39	3.5	ug/L
⌈	Ba	135	16261.840	0.109	**91.541254**	3.75	4.1	ug/L
|	Ba	137	27955.389	0.187	**91.268858**	4.31	4.7	ug/L
|	Tb	159	138552.504	-0.024				ug/L
|>	Ho	165	149639.715	149639.715				ug/L
|	Tl	203	64115.448	0.429	**110.504225**	3.46	3.1	ug/L
|	Tl	205	154364.323	1.033	**109.792226**	6.04	5.5	ug/L
_	Pb	208	210329.534	1.407	**110.085100**	7.18	6.5	ug/L
	Kr	83	15.933	-4.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	146.951		
Be	9	132.370		
B	11	128.126		
Na	23	120.998		
Mg	24	122.760		
Al	27	117.542		
K	39	126.803		
Ca	43	100.233		
Sc	45		81.237	
Ti	49	97.110		
Co	59	91.599		
Ni	60	91.454		
Ni	62	91.127		
Cu	63	90.363		
Cu	65	90.313		
Zn	66	89.705		
Zn	67	91.184		
Zn	68	90.785		
V	51	98.087		
Cr	52	95.052		
Cr	53	85.437		
Mn	55	91.255		
Fe	54	92.084		
Fe	57	91.316		
As	75	109.328		
Se	77	98.115		
Se	82	106.015		
Sr	88	101.312		
Y	89		77.749	
Mo	95	100.849		
Mo	97	99.762		
Mo	98	99.485		
Ag	107	101.728		
Ag	109	100.526		
Cd	111	102.917		
Cd	114	101.673		
In	115		72.248	
Sn	120	99.077		
Sb	121	99.024		

Sb	123	97.547	
Ba	135	91.541	
Ba	137	91.269	
Tb	159		
Ho	165		79.191
Tl	203	110.504	
Tl	205	109.792	
Pb	208	110.085	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Monday, February 15, 2010 20:10:08
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 5.169
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35768.799	0.047				ug/L
|	Li	7	6340.616	0.013	**5.661598**	0.46	8.0	ug/L
|	Be	9	539.352	0.002	**4.056165**	0.17	4.2	ug/L
|	B	11	7983.477	0.026	**31.176696**	1.55	5.0	ug/L
|	Na	23	78094.449	0.232	**131.582587**	3.39	2.6	ug/L
|	Mg	24	23603.133	0.080	**64.647917**	7.65	11.8	ug/L
|	Al	27	73868.459	0.249	**72.778057**	3.45	4.7	ug/L
|	K	39	166723.506	0.403	**91.383184**	8.48	9.3	ug/L
|	Ca	43	1102.746	0.003	**216.126278**	8.21	3.8	ug/L
| >	Sc	45	294179.055	294179.055				ug/L
|	Ti	49	847.380	0.002	**4.263214**	0.31	7.2	ug/L
|	Co	59	2896.546	0.010	**1.784462**	0.04	2.2	ug/L
|	Ni	60	590.023	0.002	**1.552836**	0.10	6.7	ug/L
|	Ni	62	97.334	0.000	**2.252192**	0.14	6.3	ug/L
|	Cu	63	1436.801	0.005	**1.324281**	0.09	7.1	ug/L
|	Cu	65	676.030	0.002	**1.546523**	0.06	3.7	ug/L
|	Zn	66	1329.449	0.004	**5.357360**	0.34	6.4	ug/L
|	Zn	67	1564.159	0.001	**4.993732**	0.16	3.1	ug/L
|	Zn	68	1068.074	0.003	**5.660233**	0.50	8.8	ug/L
|	V	51	17524.458	0.060	**11.092672**	0.68	6.1	ug/L
|	Cr	52	7820.641	0.017	**3.564718**	0.16	4.4	ug/L
|	Cr	53	13337.553	0.001	**-6.435699**	1.80	27.9	ug/L
|	Mn	55	4732.122	0.016	**2.145793**	0.07	3.1	ug/L
|	Fe	54	19838.043	0.033	**84.097409**	3.87	4.6	ug/L
⌊	Fe	57	4895.557	0.015	**91.845948**	0.83	0.9	ug/L
⌈	As	75	454.536	0.002	**2.993022**	0.17	5.6	ug/L
|	Se	77	1392.126	0.000	**1.118582**	2.74	245.4	ug/L
|	Se	82	121.423	0.000	**6.899202**	0.32	4.7	ug/L
|	Sr	88	3349.397	0.009	**1.691389**	0.06	3.8	ug/L
| >	Y	89	349131.329	349131.329				ug/L
|	Mo	95	837.379	0.002	**2.753553**	0.10	3.6	ug/L
|	Mo	97	502.683	0.001	**2.921263**	0.13	4.5	ug/L
⌊	Mo	98	1292.703	0.004	**2.955846**	0.17	5.8	ug/L
⌈	Ag	107	990.064	0.007	**1.230019**	0.06	4.8	ug/L
|	Ag	109	963.394	0.007	**1.311808**	0.02	1.6	ug/L
|	Cd	111	487.849	0.004	**2.426846**	0.06	2.5	ug/L
|	Cd	114	1048.862	0.008	**2.582543**	0.10	3.8	ug/L

|>	In	115	137516.177	137516.177				ug/L
|	Sn	120	4512.614	0.030	**5.232294**	0.04	0.8	ug/L
|	Sb	121	4618.720	0.031	**7.070554**	0.09	1.2	ug/L
\L	Sb	123	3537.061	0.023	**7.384527**	0.37	5.0	ug/L
|	Ba	135	844.713	0.006	**5.581003**	0.15	2.7	ug/L
|	Ba	137	1448.803	0.010	**5.163252**	0.11	2.1	ug/L
|	Tb	159	138563.885	-0.023				ug/L
|>	Ho	165	149439.958	149439.958				ug/L
|	Tl	203	1359.454	0.009	**2.346712**	0.10	4.5	ug/L
|	Tl	205	3262.025	0.022	**2.284168**	0.06	2.7	ug/L
\L	Pb	208	2239.459	0.015	**1.085291**	0.08	6.9	ug/L
	Kr	83	14.200	-6.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	283.080		
Be	9	202.808		
B	11	155.883		
Na	23	131.583		
Mg	24	129.296		
Al	27	145.556		
K	39	121.844		
Ca	43	108.063		
Sc	45		82.287	
Ti	49	85.264		
Co	59	89.223		
Ni	60	77.642		
Ni	62	112.610		
Cu	63	66.214		
Cu	65	77.326		
Zn	66	89.289		
Zn	67	83.229		
Zn	68	94.337		
V	51	110.927		
Cr	52	89.118		
Cr	53	-160.892		
Mn	55	107.290		
Fe	54	84.097		
Fe	57	91.846		
As	75	74.826		
Se	77	22.372		
Se	82	137.984		
Sr	88	169.139		
Y	89		78.498	
Mo	95	137.678		
Mo	97	146.063		
Mo	98	147.792		
Ag	107	123.002		
Ag	109	131.181		
Cd	111	121.342		
Cd	114	129.127		
In	115		72.451	
Sn	120	130.807		
Sb	121	141.411		

Sb	123	147.691	
Ba	135	111.620	
Ba	137	103.265	
Tb	159		
Ho	165		79.085
Tl	203	117.336	
Tl	205	114.208	
Pb	208	108.529	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Monday, February 15, 2010 20:12:49
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\QC Std 6.170
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35609.191	0.047				ug/L
|	Li	7	3872.975	0.005	**2.823453**	0.08	2.7	ug/L
|	Be	9	8.667	0.000	**1.446428**	0.04	2.4	ug/L
|	B	11	1292.109	0.003	**5.008054**	0.37	7.3	ug/L
|	Na	23	16617.942	0.023	**18.220348**	0.55	3.0	ug/L
|	Mg	24	700.033	0.002	**6.044436**	0.46	7.6	ug/L
|	Al	27	1643.510	0.003	**15.976372**	0.14	0.9	ug/L
|	K	39	56540.383	0.029	**1.646204**	0.50	30.3	ug/L
|	Ca	43	144.001	-0.000	**-5.129359**	1.45	28.3	ug/L
| >	Sc	45	292934.443	292934.443				ug/L
|	Ti	49	332.674	-0.000	**-0.648805**	0.12	17.8	ug/L
|	Co	59	22.667	0.000	**-0.073901**	0.00	5.4	ug/L
|	Ni	60	12.000	-0.000	**-0.378145**	0.01	2.9	ug/L
|	Ni	62	28.000	0.000	**0.736282**	0.16	21.7	ug/L
|	Cu	63	342.008	0.001	**-0.202080**	0.03	14.1	ug/L
|	Cu	65	170.669	0.000	**0.059077**	0.06	94.0	ug/L
|	Zn	66	113.334	0.000	**-0.221233**	0.10	47.1	ug/L
|	Zn	67	1456.138	0.001	**2.031913**	0.79	38.9	ug/L
|	Zn	68	149.335	0.000	**-0.242607**	0.09	37.3	ug/L
|	V	51	1635.730	0.006	**1.263348**	0.57	44.7	ug/L
|	Cr	52	2610.443	-0.001	**-0.270133**	0.07	26.4	ug/L
|	Cr	53	13163.256	0.001	**-7.229355**	0.74	10.3	ug/L
|	Mn	55	318.673	0.001	**0.260462**	0.00	1.7	ug/L
|	Fe	54	9249.299	-0.003	**-6.622585**	2.24	33.9	ug/L
⌊	Fe	57	491.349	-0.000	**-1.021672**	0.23	22.4	ug/L
⌈	As	75	-341.610	-0.001	**-0.442230**	0.19	43.3	ug/L
|	Se	77	1348.785	0.000	**-2.850372**	4.83	169.3	ug/L
|	Se	82	2.212	0.000	**1.651599**	0.25	15.3	ug/L
|	Sr	88	100.001	0.000	**0.630177**	0.01	1.0	ug/L
| >	Y	89	355421.326	355421.326				ug/L
|	Mo	95	14.667	0.000	**0.562242**	0.01	1.0	ug/L
|	Mo	97	11.333	0.000	**0.794332**	0.03	4.1	ug/L
⌊	Mo	98	26.594	0.000	**0.806868**	0.02	2.0	ug/L
⌈	Ag	107	3.333	-0.000	**0.197864**	0.00	1.2	ug/L
|	Ag	109	4.667	0.000	**0.249572**	0.00	1.3	ug/L
|	Cd	111	1.667	0.000	**0.266812**	0.00	1.3	ug/L
|	Cd	114	3.067	0.000	**0.533803**	0.00	0.7	ug/L

|>	In	115	140223.193	140223.193				ug/L
|	Sn	120	363.316	-0.001	**0.590683**	0.02	3.1	ug/L
|	Sb	121	425.345	0.000	**0.491273**	0.07	13.2	ug/L
|	Sb	123	309.088	-0.000	**0.763942**	0.01	1.1	ug/L
⌈	Ba	135	8.667	0.000	**0.915741**	0.01	0.8	ug/L
|	Ba	137	18.667	0.000	**0.514306**	0.00	0.9	ug/L
|	Tb	159	138470.697	-0.019				ug/L
|>	Ho	165	148811.070	148811.070				ug/L
|	Tl	203	18.000	0.000	**0.032640**	0.01	39.5	ug/L
|	Tl	205	25.333	0.000	**-0.019309**	0.01	37.2	ug/L
⌊	Pb	208	77.333	0.000	**-0.048018**	0.00	9.8	ug/L
	Kr	83	15.533	-5.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.938	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		79.912	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		73.877	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	78.752
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Monday, February 15, 2010 20:15:30
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSA.171
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32162.938	0.035				ug/L
|	Li	7	3466.781	0.003	**2.364777**	0.05	2.1	ug/L
|	Be	9	9.333	0.000	**1.449503**	0.00	0.3	ug/L
|	B	11	1337.450	0.003	**5.203664**	0.40	7.6	ug/L
|	Na	23	61314686.340	210.028	**114033.827259**	4079.62	3.6	ug/L
|	Mg	24	44288780.581	151.704	**114074.279429**	3721.47	3.3	ug/L
|	Al	27	137672581.607	471.499	**109049.143531**	2110.92	1.9	ug/L
|	K	39	132725578.753	454.560	**109045.614838**	3833.74	3.5	ug/L
|	Ca	43	442469.229	1.515	**102869.874527**	2030.48	2.0	ug/L
| >	Sc	45	292098.652	292098.652				ug/L
|	Ti	49	215168.547	0.736	**2069.967866**	61.82	3.0	ug/L
|	Co	59	2691.137	0.009	**1.665283**	0.05	2.8	ug/L
|	Ni	60	790.707	0.003	**2.242632**	0.06	2.7	ug/L
|	Ni	62	566.688	0.002	**12.625168**	0.41	3.3	ug/L
|	Cu	63	1529.485	0.005	**1.468349**	0.02	1.5	ug/L
|	Cu	65	793.374	0.003	**1.912864**	0.16	8.4	ug/L
|	Zn	66	726.701	0.002	**2.625528**	0.46	17.4	ug/L
|	Zn	67	1456.138	0.001	**2.179915**	1.87	85.7	ug/L
|	Zn	68	277.338	0.000	**0.592105**	0.22	37.5	ug/L
|	V	51	1049.896	0.004	**0.899661**	0.29	32.5	ug/L
|	Cr	52	4903.563	0.007	**1.440574**	0.13	9.0	ug/L
|	Cr	53	10740.162	-0.007	**-22.905574**	0.79	3.5	ug/L
|	Mn	55	16919.923	0.057	**7.409389**	0.30	4.1	ug/L
|	Fe	54	11005250.687	37.669	**95278.230714**	3224.12	3.4	ug/L
⌊	Fe	57	4481310.420	15.354	**95282.687860**	4123.59	4.3	ug/L
⌈	As	75	-405.875	-0.001	**-0.668249**	1.05	156.6	ug/L
|	Se	77	1733.529	0.001	**16.067334**	2.24	13.9	ug/L
|	Se	82	-14.568	-0.000	**0.947865**	0.08	7.9	ug/L
|	Sr	88	8169.003	0.022	**3.128383**	0.09	2.7	ug/L
| >	Y	89	368022.209	368022.209				ug/L
|	Mo	95	839429.096	2.282	**2121.315647**	78.07	3.7	ug/L
|	Mo	97	513194.941	1.395	**2108.377191**	52.64	2.5	ug/L
⌊	Mo	98	1304756.550	3.547	**2101.234992**	59.69	2.8	ug/L
⌈	Ag	107	126.001	0.001	**0.311638**	0.01	2.5	ug/L
|	Ag	109	108.001	0.001	**0.351111**	0.02	5.9	ug/L
|	Cd	111	561.354	0.004	**2.476293**	0.13	5.2	ug/L
|	Cd	114	970.143	0.006	**2.215775**	0.04	1.6	ug/L

|>	In	115	154751.125	154751.125				ug/L
|	Sn	120	496.657	-0.000	**0.685548**	0.01	0.9	ug/L
|	Sb	121	396.010	-0.000	**0.389179**	0.03	8.9	ug/L
|	Sb	123	312.421	-0.000	**0.711538**	0.06	8.9	ug/L
|	Ba	135	329.340	0.002	**2.477178**	0.21	8.6	ug/L
|	Ba	137	580.022	0.003	**2.101224**	0.07	3.4	ug/L
|	Tb	159	163483.005	0.006				ug/L
|>	Ho	165	171027.731	171027.731				ug/L
|	Tl	203	109.334	0.001	**0.166249**	0.03	15.1	ug/L
|	Tl	205	231.337	0.001	**0.106502**	0.01	6.7	ug/L
|	Pb	208	584.676	0.003	**0.179227**	0.02	10.3	ug/L
	Kr	83	38.400	17.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		81.705	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		82.745	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		81.531	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.510
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Monday, February 15, 2010 20:18:11
Sample Type: Spike - 2 of 119
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002150930MS\ICSAB.172
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32086.733	0.031				ug/L
|	Li	7	3624.187	0.003	**2.403393**	0.02	1.0	ug/L
|	Be	9	6.000	-0.000	**1.432002**	0.01	0.6	ug/L
|	B	11	1258.103	0.003	**4.716594**	0.31	6.5	ug/L
|	Na	23	62517622.091	206.761	**112259.851043**	4970.74	4.4	ug/L
|	Mg	24	44615542.299	147.571	**110967.151956**	4322.79	3.9	ug/L
|	Al	27	137803297.502	455.802	**105419.317796**	4253.57	4.0	ug/L
|	K	39	132311227.520	437.486	**104949.545582**	4710.49	4.5	ug/L
|	Ca	43	442202.346	1.462	**99264.637871**	1443.94	1.5	ug/L
| >	Sc	45	302429.787	302429.787				ug/L
|	Ti	49	215485.441	0.711	**2001.343421**	68.52	3.4	ug/L
|	Co	59	121884.933	0.403	**76.610423**	2.35	3.1	ug/L
|	Ni	60	22873.964	0.076	**73.908163**	2.04	2.8	ug/L
|	Ni	62	3919.667	0.013	**83.706858**	4.70	5.6	ug/L
|	Cu	63	52548.219	0.174	**70.647884**	1.59	2.2	ug/L
|	Cu	65	25110.262	0.083	**71.593927**	2.08	2.9	ug/L
|	Zn	66	8425.946	0.028	**36.881972**	0.85	2.3	ug/L
|	Zn	67	2640.454	0.005	**34.287056**	4.51	13.2	ug/L
|	Zn	68	5670.089	0.018	**34.234319**	0.54	1.6	ug/L
|	V	51	134473.335	0.445	**81.216763**	2.94	3.6	ug/L
|	Cr	52	112868.392	0.364	**78.773246**	3.16	4.0	ug/L
|	Cr	53	23357.419	0.033	**54.892510**	4.99	9.1	ug/L
|	Mn	55	196544.336	0.650	**81.816697**	3.14	3.8	ug/L
|	Fe	54	11095547.896	36.665	**92738.925464**	3756.86	4.1	ug/L
⌊	Fe	57	4500876.870	14.884	**92366.126922**	2888.72	3.1	ug/L
⌈	As	75	8166.815	0.022	**33.697782**	1.14	3.4	ug/L
|	Se	77	2451.724	0.003	**52.246217**	2.11	4.0	ug/L
|	Se	82	959.889	0.003	**40.424837**	0.86	2.1	ug/L
|	Sr	88	8305.815	0.022	**3.093074**	0.05	1.6	ug/L
| >	Y	89	379369.146	379369.146				ug/L
|	Mo	95	842146.358	2.220	**2063.729384**	14.97	0.7	ug/L
|	Mo	97	510046.215	1.344	**2031.938860**	11.27	0.6	ug/L
⌊	Mo	98	1315411.434	3.467	**2053.951932**	15.25	0.7	ug/L
⌈	Ag	107	20445.145	0.131	**19.026772**	0.60	3.1	ug/L
|	Ag	109	19487.320	0.125	**19.256602**	0.40	2.1	ug/L
|	Cd	111	10615.820	0.068	**41.765265**	0.99	2.4	ug/L
|	Cd	114	23492.509	0.150	**41.014310**	0.31	0.8	ug/L

|>	In	115	156240.071	156240.071				ug/L
|	Sn	120	514.684	0.000	**0.698721**	0.02	2.6	ug/L
|	Sb	121	308.006	-0.001	**0.262269**	0.02	7.6	ug/L
_	Sb	123	253.338	-0.001	**0.599971**	0.02	3.9	ug/L
⌈	Ba	135	326.007	0.002	**2.437280**	0.12	4.8	ug/L
|	Ba	137	574.021	0.003	**2.064321**	0.10	4.8	ug/L
|	Tb	159	164901.227	0.003				ug/L
|>	Ho	165	173008.112	173008.112				ug/L
|	Tl	203	119.334	0.001	**0.179288**	0.02	10.3	ug/L
|	Tl	205	245.337	0.001	**0.113369**	0.02	17.7	ug/L
_	Pb	208	578.676	0.003	**0.173226**	0.01	4.9	ug/L
	Kr	83	39.467	18.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		84.594	
Ti	49			
Co	59			93.681
Ni	60			89.582
Ni	62			88.852
Cu	63			86.474
Cu	65			87.101
Zn	66			85.641
Zn	67			80.268
Zn	68			84.106
V	51			100.396
Cr	52			96.666
Cr	53			97.248
Mn	55			93.009
Fe	54			
Fe	57			
As	75			85.915
Se	77			90.447
Se	82			98.692
Sr	88			
Y	89		85.296	
Mo	95			
Mo	97			
Mo	98			
Ag	107			93.576
Ag	109			94.527
Cd	111			98.222
Cd	114			96.996
In	115		82.315	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	91.558
Tl	203	
Tl	205	
Pb	208	
Kr	83	

100216090.ms
2-16-10
RD

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

00575

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
145	10020461-02D As,Se 6020_W-ALL Batch # 87101 (North Carolina)	4	Sample
319	MBLK-87103 6020-D	5	Sample
320	LCS-87103	6	Sample
321	10020428-20B Pb,Mn,Ni,TL	7	Sample
322	10020428-20BSD	8	Sample
323	10020428-20BMS	9	Sample
324	10020428-20BMSD	10	Sample
325	10020428-20BPDS ICPMS_100216A	11	Sample
7	QC Std 4		QC Std
1	QC Std 5 BVL 2-17-10		QC Std
8	QC Std 6		QC Std
326	10020428-20BPDSD	12	Sample
327	10020428-27B As,Pb,Mn,Ni,TL	13	Sample
328	10020461-01E Mn	14	Sample
329	10020461-02E	15	Sample
330	10020461-03E	16	Sample
331	10020461-04E	17	Sample
XS 332	10020428-20B As	18	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	19	Sample
10	ICSAB	20	Spike - 2 of 19

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Run List

Sample File Name: 11.18.08.sam

	AS Loc.	Sample ID	Batch Index	Sample Type
XS	146	10020428-02A Pb,TL 6020-W-ALL Batch # 87095	21	Sample
XAS	147	10020428-02A As	22	Sample
	148	10020428-13A As	23	Sample
	149	10020428-20A N/R	24	Sample
	235	10020428-21A As,Pb,TL 6020-W-ALL Batch #87096	25	Sample
	236	10020428-22A Pb,TL	26	Sample
XS	150	10020428-22A As	27	Sample
	237	10020428-23A N/R	28	Sample
	7	QC Std 4		QC Std
	8	QC Std 6		QC Std
XS	151	10020428-23A Pb,TL	29	Sample
XLS	152	10020428-23A As	30	Sample
	238	10020428-24A As,Pb,TL	31	Sample
	239	10020428-25A	32	Sample
	240	10020428-26A	33	Sample
	241	10020428-27A	34	Sample
	242	10020428-28A	35	Sample
	243	10020428-29A Pb,TL	36	Sample
XS	153	10020428-29A As	37	Sample
	244	10020428-30A Pb,TL	38	Sample
	7	QC Std 4		QC Std
	8	QC Std 6		QC Std
XS	154	10020428-30A As	39	Sample
	245	10020428-31A N/R	40	Sample
XS	155	10020428-31A ~~As~~ Pb,TL	41	Sample
XAS	156	10020428-31A As	42	Sample
	246	10020428-32A As,Pb,TL	43	Sample
	247	10020428-33A Pb,TL ØAS	44	Sample
	248	10020428-34A As,Pb,TL	45	Sample
	249	10020428-35A	46	Sample
	7	QC Std 4		QC Std
	8	QC Std 6		QC Std
	9	ICSA	47	Sample
	10	ICSAB	48	Spike - 2 of 47

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Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

00578

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
145	10020461-02D	4	Sample
319	MBLK-87103	5	Sample
320	LCS-87103	6	Sample
321	10020428-20B	7	Sample
322	10020428-20BSD	8	Sample
323	10020428-20BMS	9	Sample
324	10020428-20BMSD	10	Sample
325	10020428-20BPDS	11	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
326	10020428-20BPDSD	12	Sample
327	10020428-27B	13	Sample
328	10020461-01E	14	Sample
329	10020461-02E	15	Sample
330	10020461-03E	16	Sample
331	10020461-04E	17	Sample
332	10020428-20B	18	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	19	Sample
10	ICSAB	20	Spike - 2 of 19

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Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
146	10020428-02A	21	Sample
147	10020428-02A	22	Sample
148	10020428-13A	23	Sample
149	10020428-20A	24	Sample
235	10020428-21A	25	Sample
236	10020428-22A	26	Sample
150	10020428-22A	27	Sample
237	10020428-23A	28	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
151	10020428-23A	29	Sample
152	10020428-23A	30	Sample
238	10020428-24A	31	Sample
239	10020428-25A	32	Sample
240	10020428-26A	33	Sample
241	10020428-27A	34	Sample
242	10020428-28A	35	Sample
243	10020428-29A	36	Sample
153	10020428-29A	37	Sample
244	10020428-30A	38	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
154	10020428-30A	39	Sample
245	10020428-31A	40	Sample
155	10020428-31A	41	Sample
156	10020428-31A	42	Sample
246	10020428-32A	43	Sample
247	10020428-33A	44	Sample
248	10020428-34A	45	Sample
249	10020428-35A	46	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	47	Sample
10	ICSAB	48	Spike - 2 of 47

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Instrument Tuning Report

File Name: default.tun
File Path: C:\elandata\Tuning\default.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.026	2037	2095	0.592	
C	12.000	12.028	2762	2105	0.575	
Mg	23.985	24.029	5671	2100	0.569	
Co	58.933	58.929	14155	2135	0.583	
In	114.904	114.928	27763	2215	0.604	
Ce	139.905	139.879	33836	2240	0.624	
Pb	207.977	207.979	50399	2340	0.621	
U	238.050	238.028	57703	2380	0.619	

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, February 16, 2010 08:52:25
Sample Description:
Method File: C:\Elandata\Method\Daily.mth
Dataset File: C:\Elandata\DataSet\Daily Performance\Sample.1476
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 65
Current Dead Time (ns): 65

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	3986.7	3986.700	67.672	1.7
	C	12.0	730173.2	730173.177	4735.881	0.6
	Mg	24.0	38587.7	38587.747	241.467	0.6
	Co	58.9	63701.2	63701.209	244.286	0.4
	In	114.9	173358.6	173358.608	999.826	0.6
	Pb	208.0	111890.8	111890.767	330.891	0.3
	U	238.1	235664.4	235664.389	843.353	0.4
⌈>	Ce	139.9	183870.2	183870.219	852.859	0.5
⌊	CeO	155.9	1861.4	0.010	0.000	1.5
⌈>	Ba	137.9	152062.5	152062.471	805.633	0.5
⌊	Ba++	69.0	1987.2	0.013	0.000	2.1
	220	220.0	0.8	0.833	0.333	40.0

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
7.60	Lens Voltage
1450.00	ICP RF Power
-1725.00	Analog Stage Voltage
900.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-17.00	Cell Rod Offset Std [CRO]
20.00	Discriminator Threshold
-9.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
1.00	DRC Mode NEB
-6.00	DRC Mode QRO
-1.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A
0.00	Cell Gas B

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	36	5.6	8559.2
Co	59	36	6.2	76387.4

In	115	36	7.4	176065.3

Quantitative Analysis - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Tuesday, February 16, 2010 09:18:04
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\Cal Blank.001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26876.454					ug/L
|	Li	7	2923.889					ug/L
|	Be	9	4.667					ug/L
|	B	11	520.684					ug/L
|	Na	23	21463.720					ug/L
|	Mg	24	4768.290					ug/L
|	Al	27	17687.603					ug/L
|	K	39	67899.777					ug/L
|	Ca	43	190.669					ug/L
| >	Sc	45	366795.410					ug/L
|	Ti	49	456.014					ug/L
|	Co	59	62.667					ug/L
|	Ni	60	14.000					ug/L
|	Ni	62	50.667					ug/L
|	Cu	63	106.001					ug/L
|	Cu	65	52.000					ug/L
|	Zn	66	153.335					ug/L
|	Zn	67	980.063					ug/L
|	Zn	68	161.335					ug/L
|	V	51	-290.059					ug/L
|	Cr	52	3096.623					ug/L
|	Cr	53	13283.474					ug/L
|	Mn	55	336.007					ug/L
|	Fe	54	15112.266					ug/L
⌊	Fe	57	1570.162					ug/L
⌈	As	75	-347.496					ug/L
|	Se	77	2006.929					ug/L
|	Se	82	6.105					ug/L
|	Sr	88	132.668					ug/L
| >	Y	89	538251.806					ug/L
|	Mo	95	225.337					ug/L
|	Mo	97	144.001					ug/L
⌊	Mo	98	337.861					ug/L
⌈	Ag	107	7.333					ug/L
|	Ag	109	7.333					ug/L
|	Cd	111	4.833					ug/L
|	Cd	114	2.274					ug/L

|>	In	115	256586.125	ug/L
|	Sn	120	887.941	ug/L
|	Sb	121	486.682	ug/L
L	Sb	123	412.253	ug/L
⌈	Ba	135	23.333	ug/L
|	Ba	137	28.667	ug/L
|	Tb	159	386941.704	ug/L
|>	Ho	165	419884.314	ug/L
|	Tl	203	13.333	ug/L
|	Tl	205	41.333	ug/L
L	Pb	208	87.334	ug/L
	Kr	83	20.667	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 1
Sample Date/Time: Tuesday, February 16, 2010 09:20:44
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\Std 1.002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26951.414	0.001				ug/L
|	Li	7	4019.718	0.003				ug/L
|	Be	9	232.004	0.001				ug/L
|	B	11	848.714	0.001				ug/L
|	Na	23	21663.864	0.002				ug/L
|	Mg	24	7036.654	0.007				ug/L
|	Al	27	22293.978	0.014				ug/L
|	K	39	67864.985	0.003				ug/L
|	Ca	43	206.669	0.000				ug/L
| >	Sc	45	361453.079	361453.079				ug/L
|	Ti	49	580.022	0.000				ug/L
|	Co	59	2321.684	0.006				ug/L
|	Ni	60	455.347	0.001				ug/L
|	Ni	62	92.001	0.000				ug/L
|	Cu	63	1242.767	0.003				ug/L
|	Cu	65	588.023	0.001				ug/L
|	Zn	66	516.017	0.001				ug/L
|	Zn	67	1228.098	0.001				ug/L
|	Zn	68	422.678	0.001				ug/L
|	V	51	2029.110	0.006				ug/L
|	Cr	52	4948.925	0.005				ug/L
|	Cr	53	14727.428	0.005				ug/L
|	Mn	55	3698.223	0.009				ug/L
|	Fe	54	15943.803	0.003				ug/L
⌞	Fe	57	1730.195	0.001				ug/L
⌜	As	75	-36.271	0.001				ug/L
|	Se	77	2244.995	0.001				ug/L
|	Se	82	190.781	0.000				ug/L
|	Sr	88	5125.041	0.010				ug/L
| >	Y	89	522544.693	522544.693				ug/L
|	Mo	95	709.366	0.001				ug/L
|	Mo	97	416.678	0.001				ug/L
⌞	Mo	98	1130.604	0.002				ug/L
⌜	Ag	107	1793.542	0.007				ug/L
|	Ag	109	1754.867	0.007				ug/L
|	Cd	111	432.179	0.002				ug/L
|	Cd	114	1017.157	0.004				ug/L

|>	In	115	246985.360	246985.360	ug/L
|	Sn	120	3037.882	0.009	ug/L
|	Sb	121	1808.213	0.005	ug/L
|	Sb	123	1431.630	0.004	ug/L
⌈	Ba	135	411.344	0.001	ug/L
|	Ba	137	754.704	0.002	ug/L
|	Tb	159	380038.709	0.004	ug/L
|>	Ho	165	410904.186	410904.186	ug/L
|	Tl	203	2129.628	0.005	ug/L
|	Tl	205	4976.943	0.012	ug/L
⌊	Pb	208	6858.530	0.017	ug/L
	Kr	83	19.867	-0.800	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 2
Sample Date/Time: Tuesday, February 16, 2010 09:23:25
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\Std 2.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26629.654	0.001				ug/L
|	Li	7	7606.429	0.013	**5.000000**	0.18	3.7	ug/L
|	Be	9	1130.083	0.003	**5.000000**	0.22	4.5	ug/L
|	B	11	1972.920	0.004	**5.000000**	0.03	0.6	ug/L
|	Na	23	42316.208	0.059	**50.000000**	3.17	6.3	ug/L
|	Mg	24	21429.894	0.047	**50.000000**	3.73	7.5	ug/L
|	Al	27	78547.339	0.170	**55.000000**	1.40	2.5	ug/L
|	K	39	108122.308	0.116	**50.000000**	4.67	9.3	ug/L
|	Ca	43	501.350	0.001	**50.000000**	3.16	6.3	ug/L
| >	Sc	45	359248.056	359248.056				ug/L
|	Ti	49	1119.415	0.002	**5.000000**	0.69	13.8	ug/L
|	Co	59	10572.608	0.029	**5.000000**	0.20	4.0	ug/L
|	Ni	60	2172.974	0.006	**5.000000**	0.09	1.9	ug/L
|	Ni	62	373.342	0.001	**5.000000**	0.46	9.1	ug/L
|	Cu	63	5179.745	0.014	**5.000000**	0.15	2.9	ug/L
|	Cu	65	2576.433	0.007	**5.000000**	0.27	5.4	ug/L
|	Zn	66	1709.524	0.004	**5.000000**	0.60	11.9	ug/L
|	Zn	67	1505.481	0.002	**5.000000**	0.60	11.9	ug/L
|	Zn	68	1356.120	0.003	**5.000000**	0.31	6.1	ug/L
|	V	51	10419.040	0.030	**5.000000**	0.21	4.2	ug/L
|	Cr	52	11901.868	0.025	**5.000000**	0.21	4.2	ug/L
|	Cr	53	16043.384	0.008	**5.000000**	0.97	19.4	ug/L
|	Mn	55	16055.409	0.044	**5.000000**	0.18	3.7	ug/L
|	Fe	54	21348.587	0.018	**50.000000**	5.35	10.7	ug/L
⌞	Fe	57	4134.444	0.007	**50.000000**	0.73	1.5	ug/L
⌜	As	75	1426.423	0.003	**5.000000**	0.92	18.4	ug/L
|	Se	77	2835.190	0.002	**25.000000**	6.19	24.8	ug/L
|	Se	82	855.544	0.002	**25.000000**	0.25	1.0	ug/L
|	Sr	88	23608.856	0.044	**5.000000**	0.03	0.6	ug/L
| >	Y	89	530242.420	530242.420				ug/L
|	Mo	95	2916.553	0.005	**5.000000**	0.05	1.1	ug/L
|	Mo	97	1786.874	0.003	**5.000000**	0.36	7.2	ug/L
⌞	Mo	98	4461.148	0.008	**5.000000**	0.17	3.4	ug/L
⌜	Ag	107	8320.498	0.033	**5.000000**	0.19	3.8	ug/L
|	Ag	109	8050.878	0.032	**5.000000**	0.13	2.6	ug/L
|	Cd	111	1979.255	0.008	**5.000000**	0.24	4.8	ug/L
|	Cd	114	4566.468	0.018	**5.000000**	0.25	5.0	ug/L

|>	In	115	250154.416	250154.416				ug/L
|	Sn	120	9441.751	0.034	**5.000000**	0.04	0.9	ug/L
|	Sb	121	6941.133	0.026	**5.000000**	0.12	2.4	ug/L
|	Sb	123	5263.382	0.019	**5.000000**	0.26	5.2	ug/L
|	Ba	135	2145.633	0.005	**5.000000**	0.26	5.2	ug/L
|	Ba	137	3859.635	0.009	**5.000000**	0.13	2.7	ug/L
|	Tb	159	382452.047	-0.011				ug/L
|>	Ho	165	420240.498	420240.498				ug/L
|	Tl	203	9775.544	0.023	**5.000000**	0.11	2.3	ug/L
|	Tl	205	23450.375	0.056	**5.000000**	0.10	2.0	ug/L
|	Pb	208	31888.966	0.076	**5.000000**	0.14	2.7	ug/L
	Kr	83	22.067	1.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 3
Sample Date/Time: Tuesday, February 16, 2010 09:26:06
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\Std 3.004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23890.475	-0.006				ug/L
|	Li	7	48126.830	0.127	**50.001451**	2.50	5.0	ug/L
|	Be	9	10575.940	0.030	**49.990238**	2.87	5.7	ug/L
|	B	11	12876.789	0.035	**49.975544**	3.79	7.6	ug/L
|	Na	23	67764.001	0.132	**100.014082**	6.23	6.2	ug/L
|	Mg	24	39702.540	0.098	**100.189577**	5.81	5.8	ug/L
|	Al	27	198882.473	0.510	**150.008338**	6.62	4.4	ug/L
|	K	39	157361.370	0.256	**99.959918**	5.70	5.7	ug/L
|	Ca	43	740.036	0.002	**97.257993**	9.86	10.1	ug/L
| >	Sc	45	356621.173	356621.173				ug/L
|	Ti	49	6831.032	0.018	**49.990189**	1.34	2.7	ug/L
|	Co	59	102686.479	0.288	**49.999969**	1.35	2.7	ug/L
|	Ni	60	20358.912	0.057	**49.991098**	1.60	3.2	ug/L
|	Ni	62	3109.962	0.009	**49.976121**	1.46	2.9	ug/L
|	Cu	63	50012.828	0.140	**50.003149**	2.27	4.5	ug/L
|	Cu	65	24429.426	0.068	**49.997345**	2.21	4.4	ug/L
|	Zn	66	15679.966	0.044	**50.007070**	1.45	2.9	ug/L
|	Zn	67	3735.575	0.008	**49.933626**	5.38	10.8	ug/L
|	Zn	68	11290.948	0.031	**49.991841**	1.58	3.2	ug/L
|	V	51	100699.607	0.283	**49.994234**	0.88	1.8	ug/L
|	Cr	52	89028.966	0.241	**49.998424**	1.68	3.4	ug/L
|	Cr	53	25363.083	0.035	**49.895991**	3.01	6.0	ug/L
|	Mn	55	155734.234	0.436	**50.001852**	1.62	3.2	ug/L
|	Fe	54	29482.152	0.041	**101.272494**	6.05	6.0	ug/L
⌊	Fe	57	7244.747	0.016	**100.318652**	5.24	5.2	ug/L
⌈	As	75	17277.854	0.034	**49.997471**	1.09	2.2	ug/L
|	Se	77	8651.531	0.013	**249.956785**	4.59	1.8	ug/L
|	Se	82	8592.449	0.016	**250.046089**	6.58	2.6	ug/L
|	Sr	88	235272.539	0.452	**50.006690**	0.88	1.8	ug/L
| >	Y	89	520885.238	520885.238				ug/L
|	Mo	95	27952.697	0.053	**50.005348**	1.48	3.0	ug/L
|	Mo	97	17336.181	0.033	**50.005139**	1.43	2.9	ug/L
⌊	Mo	98	43826.172	0.084	**50.011734**	2.52	5.0	ug/L
⌈	Ag	107	82509.499	0.337	**50.006238**	1.77	3.5	ug/L
|	Ag	109	78823.815	0.322	**50.004523**	1.81	3.6	ug/L
|	Cd	111	19319.565	0.079	**50.003962**	1.39	2.8	ug/L
|	Cd	114	44733.371	0.183	**50.005526**	0.56	1.1	ug/L

|>	In	115	244664.284	244664.284				ug/L
|	Sn	120	86155.455	0.349	**50.014690**	0.34	0.7	ug/L
|	Sb	121	62697.832	0.255	**49.999342**	1.31	2.6	ug/L
|	Sb	123	48632.841	0.197	**50.005779**	1.45	2.9	ug/L
|	Ba	135	19024.165	0.046	**49.978657**	2.19	4.4	ug/L
|	Ba	137	33638.058	0.081	**49.976081**	2.11	4.2	ug/L
|	Tb	159	377419.063	-0.012				ug/L
|>	Ho	165	415301.038	415301.038				ug/L
|	Tl	203	95786.159	0.231	**50.003357**	1.47	2.9	ug/L
|	Tl	205	230405.289	0.555	**50.002576**	1.06	2.1	ug/L
|	Pb	208	313755.226	0.756	**50.003574**	1.95	3.9	ug/L
	Kr	83	22.067	1.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 4
Sample Date/Time: Tuesday, February 16, 2010 09:28:46
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\Std 4.005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	22173.336	-0.011				ug/L
|	Li	7	96401.668	0.263	**100.653791**	2.71	2.7	ug/L
|	Be	9	21943.925	0.062	**100.708245**	1.15	1.1	ug/L
|	B	11	26028.666	0.072	**100.680463**	3.39	3.4	ug/L
|	Na	23	575743.730	1.563	**1000.371824**	43.55	4.4	ug/L
|	Mg	24	412869.557	1.150	**1000.521600**	59.53	6.0	ug/L
|	Al	27	1453824.988	4.046	**1100.368009**	52.05	4.7	ug/L
|	K	39	1092588.062	2.893	**1000.161254**	92.63	9.3	ug/L
|	Ca	43	5523.318	0.015	**999.550997**	48.36	4.8	ug/L
| >	Sc	45	355258.586	355258.586				ug/L
|	Ti	49	13256.080	0.036	**100.133714**	2.40	2.4	ug/L
|	Co	59	208686.710	0.587	**100.357231**	0.28	0.3	ug/L
|	Ni	60	41728.882	0.117	**100.513481**	2.20	2.2	ug/L
|	Ni	62	6424.015	0.018	**100.734401**	1.18	1.2	ug/L
|	Cu	63	101344.155	0.285	**100.317249**	2.20	2.2	ug/L
|	Cu	65	47857.831	0.135	**99.735249**	1.72	1.7	ug/L
|	Zn	66	31470.936	0.088	**100.220748**	2.35	2.3	ug/L
|	Zn	67	6429.354	0.015	**100.557740**	3.79	3.8	ug/L
|	Zn	68	23146.776	0.065	**100.647175**	1.92	1.9	ug/L
|	V	51	201507.492	0.568	**100.084500**	3.28	3.3	ug/L
|	Cr	52	174951.657	0.484	**100.073091**	2.99	3.0	ug/L
|	Cr	53	35797.100	0.065	**99.779477**	3.13	3.1	ug/L
|	Mn	55	310536.246	0.873	**100.040736**	3.02	3.0	ug/L
|	Fe	54	165691.169	0.425	**999.977552**	36.93	3.7	ug/L
⌞	Fe	57	64278.117	0.177	**1000.133735**	15.95	1.6	ug/L
⌜	As	75	34048.731	0.067	**99.816601**	2.29	2.3	ug/L
|	Se	77	15562.393	0.027	**503.816377**	18.23	3.6	ug/L
|	Se	82	16861.608	0.033	**499.615025**	20.64	4.1	ug/L
|	Sr	88	461870.852	0.900	**99.935405**	4.66	4.7	ug/L
| >	Y	89	513544.613	513544.613				ug/L
|	Mo	95	55682.143	0.108	**100.208629**	2.42	2.4	ug/L
|	Mo	97	34734.919	0.067	**100.297200**	2.78	2.8	ug/L
⌞	Mo	98	88260.832	0.171	**100.379223**	1.88	1.9	ug/L
⌜	Ag	107	167180.540	0.680	**100.135927**	4.30	4.3	ug/L
|	Ag	109	158626.438	0.645	**100.028115**	4.99	5.0	ug/L
|	Cd	111	38759.780	0.158	**99.985604**	6.25	6.3	ug/L
|	Cd	114	90022.832	0.366	**100.037496**	3.91	3.9	ug/L

|>	In	115	246057.046	246057.046				ug/L
|	Sn	120	173042.404	0.701	**100.105730**	4.83	4.8	ug/L
|	Sb	121	125160.380	0.507	**99.953581**	4.34	4.3	ug/L
\L	Sb	123	96787.008	0.392	**99.895881**	4.50	4.5	ug/L
⌈	Ba	135	38703.805	0.095	**100.615894**	2.26	2.2	ug/L
|	Ba	137	68020.928	0.167	**100.525440**	3.43	3.4	ug/L
|	Tb	159	372938.735	-0.008				ug/L
|>	Ho	165	408309.938	408309.938				ug/L
|	Tl	203	193846.955	0.475	**100.498848**	2.88	2.9	ug/L
|	Tl	205	453596.908	1.111	**100.028431**	1.43	1.4	ug/L
\L	Pb	208	623211.513	1.526	**100.174775**	2.44	2.4	ug/L
	Kr	83	21.533	0.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 5
Sample Date/Time: Tuesday, February 16, 2010 09:31:27
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\Std 5.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17419.210	-0.023				ug/L
|	Li	7	184599.898	0.529	**200.356229**	5.24	2.6	ug/L
|	Be	9	42649.280	0.124	**200.371868**	4.57	2.3	ug/L
|	B	11	51420.844	0.148	**201.421832**	8.46	4.2	ug/L
|	Na	23	5555047.256	16.103	**10001.320172**	233.59	2.3	ug/L
|	Mg	24	4000387.464	11.626	**10000.196006**	323.13	3.2	ug/L
|	Al	27	13206772.889	38.375	**10201.248920**	193.36	1.9	ug/L
|	K	39	10046391.956	29.042	**9999.596422**	144.48	1.4	ug/L
|	Ca	43	51619.404	0.150	**9999.764913**	302.84	3.0	ug/L
| >	Sc	45	343723.390	343723.390				ug/L
|	Ti	49	25674.787	0.073	**200.725309**	4.15	2.1	ug/L
|	Co	59	407120.042	1.184	**200.415634**	2.44	1.2	ug/L
|	Ni	60	79840.911	0.232	**199.726508**	1.81	0.9	ug/L
|	Ni	62	12189.655	0.035	**199.566695**	4.42	2.2	ug/L
|	Cu	63	194568.469	0.566	**199.812561**	2.87	1.4	ug/L
|	Cu	65	92347.145	0.269	**199.871452**	3.05	1.5	ug/L
|	Zn	66	61733.400	0.179	**200.668711**	1.82	0.9	ug/L
|	Zn	67	10831.628	0.029	**198.362729**	7.91	4.0	ug/L
|	Zn	68	44501.708	0.129	**200.084502**	2.54	1.3	ug/L
|	V	51	393814.523	1.147	**200.403232**	4.18	2.1	ug/L
|	Cr	52	332424.699	0.959	**199.660103**	2.49	1.2	ug/L
|	Cr	53	52195.911	0.116	**196.928071**	8.49	4.3	ug/L
|	Mn	55	595580.128	1.732	**199.687672**	1.05	0.5	ug/L
|	Fe	54	1478995.164	4.262	**9999.850406**	184.09	1.8	ug/L
⌊	Fe	57	616326.950	1.789	**10000.319159**	109.12	1.1	ug/L
⌈	As	75	66146.802	0.133	**199.544112**	3.40	1.7	ug/L
|	Se	77	27990.835	0.052	**998.393066**	35.66	3.6	ug/L
|	Se	82	32984.010	0.066	**1000.221034**	26.18	2.6	ug/L
|	Sr	88	908436.382	1.812	**200.244755**	3.46	1.7	ug/L
| >	Y	89	501315.015	501315.015				ug/L
|	Mo	95	107523.966	0.214	**199.667179**	5.68	2.8	ug/L
|	Mo	97	66989.782	0.133	**199.632879**	4.90	2.5	ug/L
⌊	Mo	98	171090.737	0.341	**199.864421**	7.45	3.7	ug/L
⌈	Ag	107	316146.404	1.333	**199.254810**	8.16	4.1	ug/L
|	Ag	109	301257.619	1.270	**199.395663**	8.22	4.1	ug/L
|	Cd	111	74749.098	0.315	**199.952016**	4.69	2.3	ug/L
|	Cd	114	173370.505	0.731	**199.923636**	1.12	0.6	ug/L

|>	In	115	237306.204	237306.204				ug/L
|	Sn	120	333921.067	1.404	**200.117615**	3.62	1.8	ug/L
|	Sb	121	244472.229	1.029	**200.524653**	5.49	2.7	ug/L
|	Sb	123	189601.047	0.798	**200.607192**	5.23	2.6	ug/L
|	Ba	135	76181.570	0.191	**200.421787**	4.48	2.2	ug/L
|	Ba	137	134731.964	0.337	**200.649909**	2.77	1.4	ug/L
|	Tb	159	361112.551	-0.018				ug/L
|>	Ho	165	399546.687	399546.687				ug/L
|	Tl	203	365568.429	0.915	**198.714489**	3.48	1.7	ug/L
|	Tl	205	870185.984	2.178	**199.254473**	2.56	1.3	ug/L
|	Pb	208	1180641.724	2.955	**198.802694**	3.93	2.0	ug/L
	Kr	83	26.600	5.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

File Name: 02-16.cal
File Path: C:\Elandata\System\02-16.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Simple Linear	0.000000000	0.000000000	0.000000
Li	7.016	Simple Linear	0.002646982	-0.001274052	0.999943
Be	9.012	Simple Linear	0.000621009	-0.000364464	0.999934
B	11.009	Simple Linear	0.000738911	-0.000660454	0.999755
Na	22.990	Simple Linear	0.001612952	-0.028394771	0.999998
Mg	23.985	Simple Linear	0.001163813	-0.012104053	1.000000
Al	26.982	Simple Linear	0.003766968	-0.053199638	0.999999
K	38.964	Simple Linear	0.002906930	-0.026208013	1.000000
Ca	42.959	Simple Linear	0.000014961	0.000039921	0.999999
Sc	44.956	Simple Linear	0.000000000	0.000000000	0.000000
Ti	48.948	Simple Linear	0.000366854	-0.000182934	0.999947
Co	58.933	Simple Linear	0.005922480	-0.002717039	0.999970
Ni	59.933	Simple Linear	0.001162739	0.000011581	0.999964
Ni	61.928	Simple Linear	0.000177224	-0.000044108	0.999920
Cu	62.930	Simple Linear	0.002831319	0.000020712	0.999986
Cu	64.928	Simple Linear	0.001340784	0.000530223	0.999991
Zn	65.926	Simple Linear	0.000895432	-0.000498071	0.999951
Zn	66.927	Simple Linear	0.000141354	0.000800151	0.999681
Zn	67.925	Simple Linear	0.000645666	-0.000160479	0.999954
V	50.944	Simple Linear	0.005725418	-0.000819846	0.999983
Cr	51.941	Simple Linear	0.004794394	0.001463091	0.999988
Cr	52.941	Simple Linear	0.000556949	0.005971311	0.999014
Mn	54.938	Simple Linear	0.008661756	0.002154936	0.999990
Fe	53.940	Simple Linear	0.000426348	-0.001634069	1.000000
Fe	56.935	Simple Linear	0.000179050	-0.001794164	1.000000
As	74.922	Simple Linear	0.000663378	0.000221646	0.999976
Se	76.920	Simple Linear	0.000051962	0.000264504	0.999926
Se	81.917	Simple Linear	0.000065805	-0.000003759	0.999999
Sr	87.906	Simple Linear	0.009057731	-0.001357502	0.999994
Y	88.905	Simple Linear	0.000000000	0.000000000	0.000000
Mo	94.906	Simple Linear	0.001072920	-0.000092491	0.999984
Mo	96.906	Simple Linear	0.000669012	-0.000133667	0.999977
Mo	97.906	Simple Linear	0.001708853	-0.000646549	0.999982
Ag	106.905	Simple Linear	0.006674487	0.002993121	0.999944
Ag	108.905	Simple Linear	0.006355041	0.002976873	0.999964
Cd	110.904	Simple Linear	0.001574940	0.000155266	1.000000
Cd	113.904	Simple Linear	0.003652502	0.000350129	0.999999
In	114.904	Simple Linear	0.000000000	0.000000000	0.000000
Sn	119.902	Simple Linear	0.007017269	-0.000356306	0.999996
Sb	120.904	Simple Linear	0.005136851	-0.001395245	0.999973
Sb	122.904	Simple Linear	0.003983453	-0.001469988	0.999963
Ba	134.906	Simple Linear	0.000953164	-0.000435849	0.999941
Ba	136.905	Simple Linear	0.001684148	-0.000796338	0.999928
Tb	158.925	Simple Linear	0.000000000	0.000000000	0.000000
Ho	164.930	Simple Linear	0.000000000	0.000000000	0.000000
Tl	202.972	Simple Linear	0.004589316	0.003023192	0.999811
Tl	204.975	Simple Linear	0.010898698	0.006296087	0.999946
Pb	207.977	Simple Linear	0.014804124	0.011832196	0.999857

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Kr	82.914	Simple Linear	0.000000000	0.000000000	0.000000

Quantitative Analysis - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Tuesday, February 16, 2010 09:34:07
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 1.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	23526.206	-0.008				ug/L
|	Li	7	97376.213	0.263	**99.945162**	4.39	4.4	ug/L
|	Be	9	21974.020	0.061	**99.106517**	2.32	2.3	ug/L
|	B	11	27588.057	0.075	**102.958553**	2.32	2.3	ug/L
|	Na	23	2856996.151	7.900	**4915.440877**	195.02	4.0	ug/L
|	Mg	24	2102014.993	5.843	**5031.378725**	317.08	6.3	ug/L
|	Al	27	6999071.547	19.446	**5176.315789**	121.64	2.3	ug/L
|	K	39	5587623.403	15.385	**5301.666840**	456.29	8.6	ug/L
|	Ca	43	26413.272	0.073	**4879.388644**	79.82	1.6	ug/L
| >	Sc	45	359102.299	359102.299				ug/L
|	Ti	49	13165.260	0.035	**97.038217**	0.91	0.9	ug/L
|	Co	59	203728.037	0.567	**96.223599**	2.61	2.7	ug/L
|	Ni	60	39895.205	0.111	**95.505769**	1.02	1.1	ug/L
|	Ni	62	6106.425	0.017	**95.408079**	2.72	2.8	ug/L
|	Cu	63	98435.237	0.274	**96.718066**	2.05	2.1	ug/L
|	Cu	65	47678.045	0.133	**98.541569**	3.42	3.5	ug/L
|	Zn	66	31112.140	0.086	**96.870807**	3.10	3.2	ug/L
|	Zn	67	6206.503	0.015	**97.708355**	1.43	1.5	ug/L
|	Zn	68	22622.551	0.063	**97.148273**	1.46	1.5	ug/L
|	V	51	199585.641	0.557	**97.355172**	0.44	0.5	ug/L
|	Cr	52	171312.732	0.469	**97.441106**	0.76	0.8	ug/L
|	Cr	53	33285.198	0.056	**90.689517**	2.14	2.4	ug/L
|	Mn	55	302492.662	0.842	**96.910421**	1.97	2.0	ug/L
|	Fe	54	752870.625	2.056	**4825.641134**	132.47	2.7	ug/L
⌞	Fe	57	308892.981	0.856	**4790.874021**	88.82	1.9	ug/L
⌜	As	75	34363.917	0.067	**100.745753**	2.53	2.5	ug/L
|	Se	77	15273.151	0.026	**491.212001**	15.68	3.2	ug/L
|	Se	82	17254.203	0.033	**506.678717**	15.35	3.0	ug/L
|	Sr	88	464193.042	0.897	**99.183208**	3.48	3.5	ug/L
| >	Y	89	517558.165	517558.165				ug/L
|	Mo	95	54707.270	0.105	**98.263847**	4.25	4.3	ug/L
|	Mo	97	33768.637	0.065	**97.358032**	2.91	3.0	ug/L
⌞	Mo	98	87804.394	0.169	**99.335668**	3.89	3.9	ug/L
⌜	Ag	107	161293.402	0.661	**98.534171**	2.21	2.2	ug/L
|	Ag	109	153560.154	0.629	**98.504603**	2.18	2.2	ug/L
|	Cd	111	38411.181	0.157	**99.794437**	1.78	1.8	ug/L
|	Cd	114	90504.130	0.371	**101.404141**	2.16	2.1	ug/L

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|>	In	115	244126.241	244126.241				ug/L
|	Sn	120	170032.659	0.693	**98.810930**	0.53	0.5	ug/L
|	Sb	121	125589.610	0.513	**100.051727**	0.74	0.7	ug/L
\L	Sb	123	97138.439	0.396	**99.855305**	0.97	1.0	ug/L
|	Ba	135	38729.264	0.094	**99.102161**	2.88	2.9	ug/L
|	Ba	137	68156.619	0.165	**98.724957**	1.48	1.5	ug/L
|	Tb	159	370777.147	-0.021				ug/L
|>	Ho	165	411793.692	411793.692				ug/L
|	Tl	203	189791.723	0.461	**99.767011**	0.51	0.5	ug/L
|	Tl	205	451490.066	1.096	**100.026130**	1.67	1.7	ug/L
\L	Pb	208	613347.439	1.489	**99.813968**	1.80	1.8	ug/L
	Kr	83	23.000	2.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	99.945		
Be	9	99.107		
B	11	102.959		
Na	23	98.309		
Mg	24	100.628		
Al	27	101.496		
K	39	106.033		
Ca	43	97.588		
Sc	45		97.903	
Ti	49	97.038		
Co	59	96.224		
Ni	60	95.506		
Ni	62	95.408		
Cu	63	96.718		
Cu	65	98.542		
Zn	66	96.871		
Zn	67	97.708		
Zn	68	97.148		
V	51	97.355		
Cr	52	97.441		
Cr	53	90.690		
Mn	55	96.910		
Fe	54	96.513		
Fe	57	95.817		
As	75	100.746		
Se	77	98.242		
Se	82	101.336		
Sr	88	99.183		
Y	89		96.155	
Mo	95	98.264		
Mo	97	97.358		
Mo	98	99.336		
Ag	107	98.534		
Ag	109	98.505		
Cd	111	99.794		
Cd	114	101.404		
In	115		95.144	
Sn	120	98.811		
Sb	121	100.052		

Sb	123	99.855	
Ba	135	99.102	
Ba	137	98.725	
Tb	159		
Ho	165		98.073
Tl	203	99.767	
Tl	205	100.026	
Pb	208	99.814	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Tuesday, February 16, 2010 09:42:24
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 2.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27218.073	0.001				ug/L
|	Li	7	4950.927	0.006	**2.583993**	0.14	5.4	ug/L
|	Be	9	476.681	0.001	**2.665741**	0.08	2.9	ug/L
|	B	11	6263.883	0.016	**22.152554**	0.14	0.6	ug/L
|	Na	23	70555.447	0.134	**100.973721**	3.13	3.1	ug/L
|	Mg	24	21195.849	0.045	**49.050850**	2.20	4.5	ug/L
|	Al	27	71243.841	0.147	**53.064941**	3.01	5.7	ug/L
|	K	39	128736.905	0.167	**66.507981**	8.00	12.0	ug/L
|	Ca	43	1266.771	0.003	**194.077597**	15.74	8.1	ug/L
| >	Sc	45	365708.478	365708.478				ug/L
|	Ti	49	1129.416	0.002	**5.527196**	0.09	1.7	ug/L
|	Co	59	4407.930	0.012	**2.465872**	0.08	3.3	ug/L
|	Ni	60	880.050	0.002	**2.028068**	0.11	5.5	ug/L
|	Ni	62	165.335	0.000	**2.021474**	0.46	22.7	ug/L
|	Cu	63	2208.985	0.006	**2.022952**	0.12	5.8	ug/L
|	Cu	65	1048.072	0.003	**1.635426**	0.07	4.3	ug/L
|	Zn	66	2153.635	0.005	**6.665061**	0.17	2.5	ug/L
|	Zn	67	1274.773	0.001	**0.088879**	2.73	3076.1	ug/L
|	Zn	68	1529.486	0.004	**6.043879**	0.21	3.5	ug/L
|	V	51	20861.899	0.058	**10.244439**	0.21	2.0	ug/L
|	Cr	52	9930.410	0.019	**3.599659**	0.24	6.6	ug/L
|	Cr	53	13865.827	0.002	**-7.652597**	2.53	33.0	ug/L
|	Mn	55	6689.575	0.017	**1.757997**	0.08	4.3	ug/L
|	Fe	54	28052.487	0.036	**87.215646**	8.82	10.1	ug/L
⌊	Fe	57	7362.856	0.016	**98.575545**	1.85	1.9	ug/L
⌈	As	75	850.420	0.002	**3.050380**	0.16	5.1	ug/L
|	Se	77	2071.613	0.000	**-1.860730**	4.01	215.3	ug/L
|	Se	82	193.512	0.000	**5.419199**	0.25	4.6	ug/L
|	Sr	88	4977.611	0.009	**1.156486**	0.02	1.9	ug/L
| >	Y	89	531494.079	531494.079				ug/L
|	Mo	95	1313.446	0.002	**1.998514**	0.13	6.4	ug/L
|	Mo	97	816.710	0.001	**2.096580**	0.08	3.9	ug/L
⌊	Mo	98	2053.462	0.003	**2.271468**	0.12	5.1	ug/L
⌈	Ag	107	1752.200	0.007	**0.584303**	0.03	5.1	ug/L
|	Ag	109	1742.197	0.007	**0.610104**	0.04	5.7	ug/L
|	Cd	111	827.545	0.003	**1.964945**	0.05	2.5	ug/L
|	Cd	114	1883.116	0.007	**1.938072**	0.08	4.2	ug/L

|>	In	115	253142.947	253142.947				ug/L
|	Sn	120	8423.203	0.030	**4.299034**	0.13	3.1	ug/L
|	Sb	121	8515.379	0.032	**6.450696**	0.14	2.2	ug/L
L	Sb	123	6696.159	0.025	**6.606134**	0.01	0.2	ug/L
⌈	Ba	135	1944.913	0.005	**5.267216**	0.02	0.4	ug/L
|	Ba	137	3420.094	0.008	**5.275861**	0.13	2.5	ug/L
|	Tb	159	384685.564	-0.004				ug/L
|>	Ho	165	419151.947	419151.947				ug/L
|	Tl	203	4222.492	0.010	**1.529310**	0.04	2.5	ug/L
|	Tl	205	9962.451	0.024	**1.594597**	0.08	4.8	ug/L
L	Pb	208	6396.381	0.015	**0.217629**	0.03	12.9	ug/L
	Kr	83	20.067	-0.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	129.200		
Be	9	133.287		
B	11	110.763		
Na	23	100.974		
Mg	24	98.102		
Al	27	106.130		
K	39	88.677		
Ca	43	97.039		
Sc	45		99.704	
Ti	49	110.544		
Co	59	123.294		
Ni	60	101.403		
Ni	62	101.074		
Cu	63	101.148		
Cu	65	81.771		
Zn	66	111.084		
Zn	67	1.481		
Zn	68	100.731		
V	51	102.444		
Cr	52	89.991		
Cr	53	-191.315		
Mn	55	87.900		
Fe	54	87.216		
Fe	57	98.576		
As	75	76.260		
Se	77	-37.215		
Se	82	108.384		
Sr	88	115.649		
Y	89		98.745	
Mo	95	99.926		
Mo	97	104.829		
Mo	98	113.573		
Ag	107	58.430		
Ag	109	61.010		
Cd	111	98.247		
Cd	114	96.904		
In	115		98.658	
Sn	120	107.476		
Sb	121	129.014		

Sb	123	132.123	
Ba	135	105.344	
Ba	137	105.517	
Tb	159		
Ho	165		99.826
Tl	203	76.465	
Tl	205	79.730	
Pb	208	21.763	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Tuesday, February 16, 2010 09:45:29
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 3.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27148.269	0.002				ug/L
|	Li	7	3055.942	0.000	**0.667773**	0.19	28.1	ug/L
|	Be	9	5.333	0.000	**0.590187**	0.01	2.3	ug/L
|	B	11	734.035	0.001	**1.724747**	0.19	10.9	ug/L
|	Na	23	11775.740	-0.026	**1.552437**	2.17	139.8	ug/L
|	Mg	24	333.342	-0.012	**0.023061**	0.49	2142.0	ug/L
|	Al	27	1316.780	-0.045	**2.289887**	0.07	3.1	ug/L
|	K	39	47580.881	-0.053	**-9.327474**	4.11	44.1	ug/L
|	Ca	43	153.335	-0.000	**-9.026320**	3.66	40.5	ug/L
| >	Sc	45	360971.049	360971.049				ug/L
|	Ti	49	392.010	-0.000	**0.069994**	0.05	74.7	ug/L
|	Co	59	69.334	0.000	**0.462360**	0.01	1.7	ug/L
|	Ni	60	18.667	0.000	**0.001675**	0.01	586.8	ug/L
|	Ni	62	24.000	-0.000	**-0.155293**	0.06	40.8	ug/L
|	Cu	63	178.002	0.000	**0.064812**	0.02	28.3	ug/L
|	Cu	65	80.000	0.000	**-0.335862**	0.03	9.0	ug/L
|	Zn	66	74.667	-0.000	**0.320373**	0.03	9.7	ug/L
|	Zn	67	1185.425	0.001	**-1.330155**	2.21	166.2	ug/L
|	Zn	68	117.334	-0.000	**0.070678**	0.15	209.2	ug/L
|	V	51	1119.294	0.004	**0.823209**	0.21	25.6	ug/L
|	Cr	52	3035.933	-0.000	**-0.311738**	0.05	17.2	ug/L
|	Cr	53	13608.028	0.001	**-8.055772**	1.29	16.0	ug/L
|	Mn	55	292.672	-0.000	**-0.260929**	0.01	2.7	ug/L
|	Fe	54	12601.434	-0.006	**-10.918964**	2.42	22.2	ug/L
⌞	Fe	57	822.044	-0.002	**-1.170293**	0.80	68.1	ug/L
⌜	As	75	-312.890	0.000	**-0.275294**	0.60	216.5	ug/L
|	Se	77	1931.576	-0.000	**-5.104626**	2.86	56.0	ug/L
|	Se	82	4.235	-0.000	**0.009457**	0.07	791.2	ug/L
|	Sr	88	104.001	-0.000	**0.144774**	0.01	4.0	ug/L
| >	Y	89	518312.788	518312.788				ug/L
|	Mo	95	24.000	-0.000	**-0.260803**	0.01	5.6	ug/L
|	Mo	97	24.000	-0.000	**-0.130897**	0.01	8.8	ug/L
⌞	Mo	98	48.082	-0.001	**0.065328**	0.01	20.2	ug/L
⌜	Ag	107	18.000	0.000	**-0.441930**	0.00	0.6	ug/L
|	Ag	109	18.667	0.000	**-0.461194**	0.00	0.3	ug/L
|	Cd	111	4.167	-0.000	**-0.100033**	0.00	3.6	ug/L
|	Cd	114	6.932	0.000	**-0.090742**	0.01	10.0	ug/L

|>	In	115	250175.671	250175.671				ug/L
|	Sn	120	769.287	-0.000	**-0.004032**	0.02	468.6	ug/L
|	Sb	121	1080.743	0.002	**0.743724**	0.02	2.6	ug/L
|	Sb	123	837.207	0.002	**0.806457**	0.05	6.7	ug/L
|	Ba	135	16.667	-0.000	**0.440291**	0.01	1.8	ug/L
|	Ba	137	29.333	0.000	**0.473341**	0.01	2.0	ug/L
|	Tb	159	383544.715	-0.016				ug/L
|>	Ho	165	423502.677	423502.677				ug/L
|	Tl	203	52.000	0.000	**-0.638902**	0.01	1.3	ug/L
|	Tl	205	133.334	0.000	**-0.557822**	0.00	0.3	ug/L
|	Pb	208	148.001	0.000	**-0.789679**	0.00	0.2	ug/L
	Kr	83	21.067	0.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.412	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.296	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		97.502	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	100.862
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Tuesday, February 16, 2010 09:48:48
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 4.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21896.334	-0.010				ug/L
|	Li	7	93931.144	0.262	**99.510186**	5.04	5.1	ug/L
|	Be	9	21226.605	0.061	**98.850025**	4.82	4.9	ug/L
|	B	11	25413.912	0.072	**97.837088**	1.21	1.2	ug/L
|	Na	23	2848419.323	8.130	**5058.151077**	223.56	4.4	ug/L
|	Mg	24	2027042.902	5.815	**5007.094387**	327.55	6.5	ug/L
|	Al	27	6670502.192	19.129	**5092.247753**	246.67	4.8	ug/L
|	K	39	5364025.976	15.239	**5251.261592**	255.97	4.9	ug/L
|	Ca	43	25910.231	0.074	**4940.923151**	92.39	1.9	ug/L
| >	Sc	45	347928.509	347928.509				ug/L
|	Ti	49	12908.823	0.036	**98.255782**	1.32	1.3	ug/L
|	Co	59	202470.405	0.582	**98.727965**	4.45	4.5	ug/L
|	Ni	60	39372.522	0.113	**97.305557**	2.73	2.8	ug/L
|	Ni	62	6185.155	0.018	**99.807539**	5.02	5.0	ug/L
|	Cu	63	96583.466	0.277	**97.966037**	3.61	3.7	ug/L
|	Cu	65	46120.581	0.132	**98.377374**	2.97	3.0	ug/L
|	Zn	66	31438.784	0.090	**101.018683**	1.91	1.9	ug/L
|	Zn	67	6149.124	0.015	**100.496014**	3.65	3.6	ug/L
|	Zn	68	22654.668	0.065	**100.429846**	3.69	3.7	ug/L
|	V	51	193076.577	0.556	**97.211973**	1.04	1.1	ug/L
|	Cr	52	167341.343	0.473	**98.272341**	2.14	2.2	ug/L
|	Cr	53	32501.195	0.057	**92.015143**	4.50	4.9	ug/L
|	Mn	55	296702.477	0.852	**98.135676**	4.07	4.1	ug/L
|	Fe	54	737867.987	2.080	**4882.904303**	162.49	3.3	ug/L
⌊	Fe	57	304312.791	0.871	**4872.842146**	199.91	4.1	ug/L
⌈	As	75	33709.149	0.068	**102.604640**	2.04	2.0	ug/L
|	Se	77	14995.275	0.026	**502.121352**	9.59	1.9	ug/L
|	Se	82	16857.993	0.034	**513.944309**	11.51	2.2	ug/L
|	Sr	88	452737.489	0.908	**100.418638**	1.98	2.0	ug/L
| >	Y	89	498395.975	498395.975				ug/L
|	Mo	95	54019.023	0.108	**100.717340**	0.44	0.4	ug/L
|	Mo	97	33107.778	0.066	**99.090936**	1.16	1.2	ug/L
⌊	Mo	98	83924.511	0.168	**98.550143**	0.24	0.2	ug/L
⌈	Ag	107	157147.982	0.655	**97.623998**	3.27	3.4	ug/L
|	Ag	109	147981.927	0.616	**96.522100**	2.65	2.7	ug/L
|	Cd	111	37218.031	0.155	**98.347015**	4.52	4.6	ug/L
|	Cd	114	87077.494	0.363	**99.218103**	3.57	3.6	ug/L

|>	In	115	240153.381	240153.381				ug/L
|	Sn	120	163056.957	0.676	**96.339140**	2.55	2.7	ug/L
|	Sb	121	117476.451	0.487	**95.140548**	1.68	1.8	ug/L
|	Sb	123	90855.926	0.377	**94.964721**	2.53	2.7	ug/L
|	Ba	135	37114.668	0.092	**96.795612**	1.87	1.9	ug/L
|	Ba	137	65058.679	0.161	**96.064448**	1.92	2.0	ug/L
|	Tb	159	368763.295	-0.009				ug/L
|>	Ho	165	403993.523	403993.523				ug/L
|	Tl	203	183208.645	0.453	**98.152721**	1.60	1.6	ug/L
|	Tl	205	433263.783	1.072	**97.828498**	1.42	1.5	ug/L
|	Pb	208	583536.659	1.445	**96.787552**	3.10	3.2	ug/L
	Kr	83	23.133	2.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	99.510		
Be	9	98.850		
B	11	97.837		
Na	23	101.163		
Mg	24	100.142		
Al	27	99.848		
K	39	105.025		
Ca	43	98.818		
Sc	45		94.856	
Ti	49	98.256		
Co	59	98.728		
Ni	60	97.306		
Ni	62	99.808		
Cu	63	97.966		
Cu	65	98.377		
Zn	66	101.019		
Zn	67	100.496		
Zn	68	100.430		
V	51	97.212		
Cr	52	98.272		
Cr	53	92.015		
Mn	55	98.136		
Fe	54	97.658		
Fe	57	97.457		
As	75	102.605		
Se	77	100.424		
Se	82	102.789		
Sr	88	100.419		
Y	89		92.595	
Mo	95	100.717		
Mo	97	99.091		
Mo	98	98.550		
Ag	107	97.624		
Ag	109	96.522		
Cd	111	98.347		
Cd	114	99.218		
In	115		93.596	
Sn	120	96.339		
Sb	121	95.141		

Sb	123	94.965	
Ba	135	96.796	
Ba	137	96.064	
Tb	159		
Ho	165		96.215
Tl	203	98.153	
Tl	205	97.828	
Pb	208	96.788	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Tuesday, February 16, 2010 09:51:49
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 5.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27115.155	0.003				ug/L
	Li	7	4974.944	0.006	**2.773832**	0.17	6.0	ug/L
	Be	9	474.681	0.001	**2.722718**	0.08	2.8	ug/L
	B	11	6168.472	0.016	**22.539610**	0.36	1.6	ug/L
	Na	23	69177.736	0.137	**102.348611**	9.05	8.8	ug/L
	Mg	24	19224.164	0.041	**45.829245**	4.36	9.5	ug/L
	Al	27	69085.597	0.147	**53.105512**	1.77	3.3	ug/L
	K	39	125516.720	0.169	**67.175518**	2.22	3.3	ug/L
	Ca	43	1238.766	0.003	**196.296784**	4.36	2.2	ug/L
>	Sc	45	354303.836	354303.836				ug/L
	Ti	49	1104.080	0.002	**5.599349**	0.51	9.2	ug/L
	Co	59	4338.558	0.012	**2.497027**	0.03	1.4	ug/L
	Ni	60	874.716	0.002	**2.079916**	0.06	3.1	ug/L
	Ni	62	173.335	0.000	**2.228251**	0.58	26.1	ug/L
	Cu	63	2192.979	0.006	**2.077823**	0.09	4.1	ug/L
	Cu	65	1042.737	0.003	**1.693902**	0.08	4.6	ug/L
	Zn	66	1986.924	0.005	**6.357479**	0.50	7.9	ug/L
	Zn	67	1472.142	0.001	**4.840887**	2.50	51.7	ug/L
	Zn	68	1573.495	0.004	**6.457082**	0.81	12.5	ug/L
	V	51	21144.141	0.060	**10.706664**	0.41	3.8	ug/L
	Cr	52	9987.815	0.020	**3.816994**	0.24	6.2	ug/L
	Cr	53	14619.216	0.005	**-1.645813**	1.71	104.1	ug/L
	Mn	55	6554.125	0.018	**1.781164**	0.02	1.0	ug/L
	Fe	54	27445.969	0.036	**88.947423**	4.16	4.7	ug/L
	Fe	57	7002.521	0.015	**96.508797**	2.84	2.9	ug/L
	As	75	881.296	0.002	**3.184876**	0.49	15.3	ug/L
	Se	77	1978.254	0.000	**-3.884372**	0.73	18.7	ug/L
	Se	82	187.842	0.000	**5.357229**	0.49	9.2	ug/L
	Sr	88	4822.846	0.009	**1.143281**	0.04	3.6	ug/L
>	Y	89	521766.576	521766.576				ug/L
	Mo	95	1180.091	0.002	**1.804290**	0.06	3.5	ug/L
	Mo	97	766.038	0.001	**1.994565**	0.18	8.8	ug/L
	Mo	98	1932.097	0.003	**2.178101**	0.05	2.2	ug/L
	Ag	107	1663.513	0.007	**0.568683**	0.01	1.5	ug/L
	Ag	109	1602.834	0.007	**0.560665**	0.05	9.3	ug/L
	Cd	111	804.542	0.003	**1.983111**	0.05	2.7	ug/L
	Cd	114	1833.434	0.008	**1.958905**	0.02	0.9	ug/L

|>	In	115	244002.980	244002.980				ug/L
|	Sn	120	8279.719	0.030	**4.393410**	0.05	1.2	ug/L
|	Sb	121	8351.869	0.032	**6.566828**	0.29	4.5	ug/L
_	Sb	123	6434.024	0.025	**6.586621**	0.38	5.8	ug/L
⌈	Ba	135	1978.254	0.005	**5.479035**	0.05	1.0	ug/L
|	Ba	137	3394.749	0.008	**5.367254**	0.11	2.0	ug/L
|	Tb	159	372182.620	-0.010				ug/L
|>	Ho	165	408510.011	408510.011				ug/L
|	Tl	203	4137.780	0.010	**1.541850**	0.08	5.1	ug/L
|	Tl	205	9770.203	0.024	**1.608254**	0.07	4.5	ug/L
_	Pb	208	6468.400	0.016	**0.256162**	0.01	4.8	ug/L
	Kr	83	20.533	-0.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	138.692		
Be	9	136.136		
B	11	112.698		
Na	23	102.349		
Mg	24	91.658		
Al	27	106.211		
K	39	89.567		
Ca	43	98.148		
Sc	45		96.594	
Ti	49	111.987		
Co	59	124.851		
Ni	60	103.996		
Ni	62	111.413		
Cu	63	103.891		
Cu	65	84.695		
Zn	66	105.958		
Zn	67	80.681		
Zn	68	107.618		
V	51	107.067		
Cr	52	95.425		
Cr	53	-41.145		
Mn	55	89.058		
Fe	54	88.947		
Fe	57	96.509		
As	75	79.622		
Se	77	-77.687		
Se	82	107.145		
Sr	88	114.328		
Y	89		96.937	
Mo	95	90.214		
Mo	97	99.728		
Mo	98	108.905		
Ag	107	56.868		
Ag	109	56.067		
Cd	111	99.156		
Cd	114	97.945		
In	115		95.096	
Sn	120	109.835		
Sb	121	131.337		

Sb	123	131.732	
Ba	135	109.581	
Ba	137	107.345	
Tb	159		
Ho	165		97.291
Tl	203	77.092	
Tl	205	80.413	
Pb	208	25.616	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Tuesday, February 16, 2010 09:55:39
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 6.012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28074.566	0.002				ug/L
|	Li	7	3135.306	0.000	**0.661662**	0.06	9.5	ug/L
|	Be	9	6.000	0.000	**0.592397**	0.01	1.5	ug/L
|	B	11	712.033	0.000	**1.569626**	0.08	5.4	ug/L
|	Na	23	11742.303	-0.027	**0.948082**	1.16	122.6	ug/L
|	Mg	24	333.341	-0.012	**0.004344**	0.15	3540.6	ug/L
|	Al	27	743.369	-0.046	**1.853211**	0.01	0.7	ug/L
|	K	39	48150.278	-0.055	**-10.038657**	0.46	4.6	ug/L
|	Ca	43	146.668	-0.000	**-11.040891**	3.98	36.0	ug/L
| >	Sc	45	371249.444	371249.444				ug/L
|	Ti	49	424.012	-0.000	**0.222257**	0.05	20.3	ug/L
|	Co	59	50.667	-0.000	**0.453048**	0.00	1.0	ug/L
|	Ni	60	14.000	-0.000	**-0.010453**	0.01	71.2	ug/L
|	Ni	62	33.333	-0.000	**-0.020979**	0.26	1240.2	ug/L
|	Cu	63	184.669	0.000	**0.066212**	0.01	12.9	ug/L
|	Cu	65	60.000	0.000	**-0.380948**	0.02	4.8	ug/L
|	Zn	66	94.667	-0.000	**0.373972**	0.07	18.3	ug/L
|	Zn	67	1238.767	0.001	**-0.932663**	1.48	159.2	ug/L
|	Zn	68	145.335	-0.000	**0.174657**	0.10	58.1	ug/L
|	V	51	-122.998	0.000	**0.227899**	0.21	91.2	ug/L
|	Cr	52	3020.593	-0.000	**-0.368414**	0.03	7.5	ug/L
|	Cr	53	14470.939	0.003	**-5.719766**	2.58	45.2	ug/L
|	Mn	55	241.337	-0.000	**-0.279321**	0.01	3.0	ug/L
|	Fe	54	13304.389	-0.005	**-8.645735**	4.79	55.5	ug/L
⌊	Fe	57	740.703	-0.002	**-2.719589**	1.30	48.0	ug/L
⌈	As	75	-402.684	-0.000	**-0.503800**	0.50	98.8	ug/L
|	Se	77	2058.942	0.000	**-2.189340**	1.78	81.5	ug/L
|	Se	82	1.693	-0.000	**-0.067158**	0.08	116.5	ug/L
|	Sr	88	83.334	-0.000	**0.140009**	0.00	1.9	ug/L
| >	Y	89	530618.095	530618.095				ug/L
|	Mo	95	27.333	-0.000	**-0.256111**	0.01	5.2	ug/L
|	Mo	97	14.000	-0.000	**-0.160675**	0.01	9.3	ug/L
⌊	Mo	98	31.114	-0.001	**0.045358**	0.00	7.9	ug/L
⌈	Ag	107	10.667	0.000	**-0.446371**	0.00	0.1	ug/L
|	Ag	109	10.000	0.000	**-0.466665**	0.00	1.0	ug/L
|	Cd	111	3.833	-0.000	**-0.100874**	0.01	6.2	ug/L
|	Cd	114	11.067	0.000	**-0.086232**	0.00	4.8	ug/L

|>	In	115	251501.905	251501.905				ug/L
|	Sn	120	713.307	-0.001	**-0.038251**	0.02	58.4	ug/L
|	Sb	121	902.720	0.002	**0.601148**	0.05	8.7	ug/L
L	Sb	123	712.112	0.001	**0.676513**	0.05	8.1	ug/L
⌈	Ba	135	11.333	-0.000	**0.427085**	0.01	1.9	ug/L
|	Ba	137	22.667	-0.000	**0.464201**	0.01	2.3	ug/L
|	Tb	159	387399.832	-0.007				ug/L
|>	Ho	165	423735.777	423735.777				ug/L
|	Tl	203	34.667	0.000	**-0.647802**	0.00	0.5	ug/L
|	Tl	205	73.334	0.000	**-0.570846**	0.00	0.0	ug/L
L	Pb	208	100.667	0.000	**-0.797217**	0.00	0.2	ug/L
	Kr	83	22.133	1.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.214	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		98.582	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		98.019	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	100.917
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Tuesday, February 16, 2010 09:59:34
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\ICSA.013
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24666.990	0.002				ug/L
|	Li	7	2698.474	0.000	**0.557792**	0.06	11.3	ug/L
|	Be	9	7.333	0.000	**0.602067**	0.02	3.3	ug/L
|	B	11	1046.738	0.002	**3.273140**	0.33	10.1	ug/L
|	Na	23	52988008.333	160.720	**99660.810592**	5870.58	5.9	ug/L
|	Mg	24	37163876.431	112.740	**96881.855466**	4654.29	4.8	ug/L
|	Al	27	122341618.313	371.030	**98509.656702**	3761.13	3.8	ug/L
|	K	39	88007207.454	266.848	**91806.229853**	5920.10	6.4	ug/L
|	Ca	43	493182.993	1.496	**100006.619533**	6288.48	6.3	ug/L
| >	Sc	45	329977.099	329977.099				ug/L
|	Ti	49	255073.509	0.773	**2107.000111**	124.82	5.9	ug/L
|	Co	59	3379.410	0.010	**2.162226**	0.14	6.3	ug/L
|	Ni	60	1136.084	0.003	**2.924932**	0.30	10.2	ug/L
|	Ni	62	660.028	0.002	**10.767832**	0.74	6.9	ug/L
|	Cu	63	2071.614	0.006	**2.114325**	0.27	12.8	ug/L
|	Cu	65	1190.759	0.003	**2.190186**	0.14	6.5	ug/L
|	Zn	66	1038.737	0.003	**3.611222**	0.31	8.6	ug/L
|	Zn	67	1164.088	0.001	**0.397355**	0.25	61.9	ug/L
|	Zn	68	322.673	0.001	**1.085592**	0.16	14.8	ug/L
|	V	51	257.557	0.002	**0.419641**	0.09	20.6	ug/L
|	Cr	52	5833.549	0.009	**1.629411**	0.35	21.4	ug/L
|	Cr	53	11550.669	-0.001	**-12.873529**	1.16	9.0	ug/L
|	Mn	55	21274.056	0.064	**7.099267**	0.45	6.4	ug/L
|	Fe	54	14125588.070	42.833	**100468.276205**	6700.36	6.7	ug/L
⌊	Fe	57	5936926.002	18.014	**100620.761490**	6364.66	6.3	ug/L
⌈	As	75	-325.295	-0.000	**-0.383045**	0.42	109.6	ug/L
|	Se	77	2262.333	0.001	**14.182518**	3.43	24.2	ug/L
|	Se	82	-16.030	-0.000	**-0.621513**	0.16	26.1	ug/L
|	Sr	88	10461.109	0.022	**2.536446**	0.04	1.5	ug/L
| >	Y	89	478597.419	478597.419				ug/L
|	Mo	95	1067643.748	2.231	**2079.537617**	47.37	2.3	ug/L
|	Mo	97	652922.251	1.365	**2039.950447**	60.14	2.9	ug/L
⌊	Mo	98	1684482.422	3.522	**2061.144138**	88.38	4.3	ug/L
⌈	Ag	107	146.001	0.001	**-0.355111**	0.01	1.9	ug/L
|	Ag	109	160.002	0.001	**-0.360505**	0.01	3.0	ug/L
|	Cd	111	921.222	0.004	**2.497471**	0.08	3.0	ug/L
|	Cd	114	1604.316	0.007	**1.860414**	0.08	4.1	ug/L

|>	In	115	224410.768	224410.768				ug/L
|	Sn	120	738.677	-0.000	**0.026792**	0.01	45.0	ug/L
|	Sb	121	704.032	0.001	**0.513201**	0.03	5.9	ug/L
|	Sb	123	557.102	0.001	**0.590594**	0.08	13.9	ug/L
⌈	Ba	135	592.023	0.002	**2.072903**	0.06	2.9	ug/L
|	Ba	137	969.394	0.003	**1.983216**	0.04	2.2	ug/L
|	Tb	159	333129.830	-0.024				ug/L
|>	Ho	165	371145.030	371145.030				ug/L
|	Tl	203	267.338	0.001	**-0.508401**	0.02	3.7	ug/L
|	Tl	205	639.360	0.002	**-0.428412**	0.01	2.5	ug/L
⌊	Pb	208	1384.048	0.004	**-0.560942**	0.02	3.6	ug/L
	Kr	83	46.333	25.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.962	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.917	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.460	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	88.392
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Tuesday, February 16, 2010 10:02:14
Sample Type: Spike - 2 of 19
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\ICSAB.014
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26205.700	0.004				ug/L
|	Li	7	2945.897	0.001	**0.747103**	0.07	8.8	ug/L
|	Be	9	4.000	-0.000	**0.585381**	0.01	1.6	ug/L
|	B	11	1036.737	0.002	**3.104466**	0.07	2.1	ug/L
|	Na	23	55335504.404	162.886	**101003.636482**	5608.67	5.6	ug/L
|	Mg	24	39953994.986	117.639	**101090.701310**	3494.55	3.5	ug/L
|	Al	27	127449023.469	375.253	**99630.818210**	2129.63	2.1	ug/L
|	K	39	92727957.274	272.870	**93877.757282**	3612.47	3.8	ug/L
|	Ca	43	511307.241	1.505	**100603.474914**	3812.49	3.8	ug/L
| >	Sc	45	339583.400	339583.400				ug/L
|	Ti	49	262121.596	0.771	**2101.208162**	27.16	1.3	ug/L
|	Co	59	164189.836	0.483	**82.069226**	0.65	0.8	ug/L
|	Ni	60	31406.013	0.092	**79.498236**	2.22	2.8	ug/L
|	Ni	62	5227.109	0.015	**86.323451**	1.90	2.2	ug/L
|	Cu	63	72733.005	0.214	**75.539818**	1.69	2.2	ug/L
|	Cu	65	35280.726	0.104	**76.987129**	0.78	1.0	ug/L
|	Zn	66	11950.619	0.035	**39.392158**	1.61	4.1	ug/L
|	Zn	67	3095.290	0.006	**39.922953**	2.64	6.6	ug/L
|	Zn	68	7910.736	0.023	**35.646042**	1.25	3.5	ug/L
|	V	51	163935.910	0.484	**84.599646**	1.03	1.2	ug/L
|	Cr	52	140494.820	0.405	**84.227332**	0.73	0.9	ug/L
|	Cr	53	27762.016	0.046	**71.040185**	2.11	3.0	ug/L
|	Mn	55	260144.571	0.765	**88.087812**	0.57	0.6	ug/L
|	Fe	54	14277421.373	42.002	**98520.500291**	833.73	0.8	ug/L
⌊	Fe	57	6008161.089	17.688	**98800.673337**	778.53	0.8	ug/L
⌈	As	75	11317.165	0.024	**35.459328**	1.29	3.6	ug/L
|	Se	77	3350.730	0.003	**54.727930**	3.48	6.4	ug/L
|	Se	82	1244.861	0.003	**38.514588**	2.04	5.3	ug/L
|	Sr	88	10684.758	0.022	**2.531119**	0.15	6.0	ug/L
| >	Y	89	490486.534	490486.534				ug/L
|	Mo	95	1078889.463	2.201	**2051.525777**	58.96	2.9	ug/L
|	Mo	97	664734.028	1.356	**2027.709318**	77.19	3.8	ug/L
⌊	Mo	98	1706574.953	3.483	**2038.354069**	84.01	4.1	ug/L
⌈	Ag	107	29419.508	0.128	**18.787840**	1.01	5.4	ug/L
|	Ag	109	27905.867	0.122	**18.693648**	0.88	4.7	ug/L
|	Cd	111	14688.346	0.064	**40.595506**	1.85	4.6	ug/L
|	Cd	114	33677.895	0.147	**40.128163**	1.05	2.6	ug/L

|>	In	115	229329.341	229329.341				ug/L
|	Sn	120	811.334	0.000	**0.062166**	0.05	73.6	ug/L
|	Sb	121	470.014	0.000	**0.302068**	0.03	11.5	ug/L
\L	Sb	123	391.590	0.000	**0.395659**	0.06	16.4	ug/L
|	Ba	135	596.023	0.002	**2.038942**	0.18	8.9	ug/L
|	Ba	137	1041.404	0.003	**2.053677**	0.03	1.5	ug/L
|	Tb	159	338976.683	-0.033				ug/L
|>	Ho	165	381369.162	381369.162				ug/L
|	Tl	203	274.005	0.001	**-0.509101**	0.02	3.1	ug/L
|	Tl	205	640.027	0.002	**-0.432764**	0.01	2.8	ug/L
\L	Pb	208	1483.389	0.004	**-0.550560**	0.00	0.5	ug/L
	Kr	83	48.600	27.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		92.581	
Ti	49			
Co	59			99.884
Ni	60			95.717
Ni	62			94.445
Cu	63			91.782
Cu	65			93.496
Zn	66			89.452
Zn	67			98.814
Zn	68			86.401
V	51			105.225
Cr	52			103.247
Cr	53			104.892
Mn	55			101.236
Fe	54			
Fe	57			
As	75			89.606
Se	77			101.364
Se	82			97.840
Sr	88			
Y	89		91.126	
Mo	95			
Mo	97			
Mo	98			
Ag	107			95.715
Ag	109			95.271
Cd	111			95.245
Cd	114			95.669
In	115		89.377	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.827
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020461-02D
Sample Date/Time: Tuesday, February 16, 2010 10:19:37
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020461-02D.016
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29464.377	0.004				ug/L
|	Li	7	6407.337	0.009	**18.923015**	1.61	8.5	ug/L
|	Be	9	82.667	0.000	**4.567475**	0.06	1.2	ug/L
|	B	11	816.043	0.001	**9.270503**	1.00	10.8	ug/L
|	Na	23	1450481.422	3.725	**11633.675403**	391.68	3.4	ug/L
|	Mg	24	758475.460	1.965	**8493.497313**	357.97	4.2	ug/L
|	Al	27	11338086.143	29.527	**39262.648533**	1546.72	3.9	ug/L
|	K	39	2717159.636	6.902	**11917.331961**	678.88	5.7	ug/L
|	Ca	43	2953.902	0.007	**2386.027050**	122.50	5.1	ug/L
| >	Sc	45	383555.595	383555.595				ug/L
|	Ti	49	50758.300	0.131	**1789.306652**	12.60	0.7	ug/L
|	Co	59	13180.626	0.034	**31.189387**	1.77	5.7	ug/L
|	Ni	60	1245.434	0.003	**13.754662**	0.64	4.6	ug/L
|	Ni	62	336.007	0.001	**22.022598**	2.56	11.6	ug/L
|	Cu	63	3498.129	0.009	**15.561701**	0.42	2.7	ug/L
|	Cu	65	1689.519	0.004	**13.915359**	0.47	3.4	ug/L
|	Zn	66	3722.234	0.009	**54.681746**	2.88	5.3	ug/L
|	Zn	67	2233.659	0.003	**83.035103**	8.89	10.7	ug/L
|	Zn	68	4570.691	0.011	**90.166008**	3.28	3.6	ug/L
|	V	51	20343.976	0.054	**47.716587**	0.92	1.9	ug/L
|	Cr	52	19144.461	0.041	**41.741761**	1.19	2.9	ug/L
|	Cr	53	16938.632	0.008	**17.811163**	5.90	33.1	ug/L
|	Mn	55	1784904.382	4.655	**2686.069649**	99.53	3.7	ug/L
|	Fe	54	841478.230	2.154	**25279.740702**	957.66	3.8	ug/L
⌊	Fe	57	343661.820	0.892	**24971.466908**	1364.31	5.5	ug/L
⌈	As	75	-423.449	0.000	**-1.666199**	1.10	65.7	ug/L
|	Se	77	2210.985	-0.000	**-61.096940**	15.14	24.8	ug/L
|	Se	82	12.098	0.000	**0.830981**	0.92	110.5	ug/L
|	Sr	88	41804.054	0.063	**35.674184**	0.78	2.2	ug/L
| >	Y	89	658057.019	658057.019				ug/L
|	Mo	95	114.001	-0.000	**-0.713596**	0.09	12.5	ug/L
|	Mo	97	82.667	-0.000	**-0.061223**	0.06	104.4	ug/L
⌊	Mo	98	202.523	-0.000	**0.955741**	0.10	10.3	ug/L
⌈	Ag	107	25.333	0.000	**-2.186477**	0.02	0.7	ug/L
|	Ag	109	14.000	0.000	**-2.319930**	0.01	0.3	ug/L
|	Cd	111	16.167	0.000	**-0.344611**	0.03	8.1	ug/L
|	Cd	114	33.787	0.000	**-0.303233**	0.07	22.0	ug/L

|>	In	115	246388.903	246388.903				ug/L
|	Sn	120	1201.360	0.001	**1.260287**	0.21	16.4	ug/L
|	Sb	121	363.342	-0.000	**0.947173**	0.07	7.5	ug/L
|	Sb	123	277.334	-0.000	**1.242371**	0.12	9.4	ug/L
|	Ba	135	140022.644	0.331	**1739.160522**	34.69	2.0	ug/L
|	Ba	137	247588.778	0.586	**1741.164523**	51.95	3.0	ug/L
|	Tb	159	383400.434	-0.015				ug/L
|>	Ho	165	422930.099	422930.099				ug/L
|	Tl	203	182.002	0.000	**-2.859786**	0.07	2.4	ug/L
|	Tl	205	522.018	0.001	**-2.367392**	0.02	1.0	ug/L
|	Pb	208	14605.488	0.034	**7.601444**	0.36	4.7	ug/L
	Kr	83	30.067	9.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		104.569	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		122.258	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.026	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	100.725
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: MBLK-87103
Sample Date/Time: Tuesday, February 16, 2010 10:33:00
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\MBLK-87103.017
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30988.714	0.009				ug/L
|	Li	7	3394.083	0.001	**0.865074**	0.04	4.3	ug/L
|	Be	9	7.333	0.000	**0.597387**	0.01	2.0	ug/L
|	B	11	1593.499	0.003	**4.685334**	0.14	3.0	ug/L
|	Na	23	19257.575	-0.008	**12.902071**	2.04	15.8	ug/L
|	Mg	24	9072.113	0.011	**20.001160**	4.44	22.2	ug/L
|	Al	27	50248.951	0.085	**36.754525**	3.64	9.9	ug/L
|	K	39	54258.495	-0.041	**-5.096086**	6.19	121.5	ug/L
|	Ca	43	460.014	0.001	**44.476386**	15.63	35.2	ug/L
| >	Sc	45	377592.434	377592.434				ug/L
|	Ti	49	710.033	0.001	**2.269034**	1.13	49.9	ug/L
|	Co	59	70.667	0.000	**0.461546**	0.00	0.5	ug/L
|	Ni	60	3861.636	0.010	**8.766805**	0.47	5.4	ug/L
|	Ni	62	632.026	0.002	**8.936289**	0.90	10.1	ug/L
|	Cu	63	150.668	0.000	**0.031886**	0.01	41.7	ug/L
|	Cu	65	78.667	0.000	**-0.345254**	0.04	10.9	ug/L
|	Zn	66	8260.433	0.021	**24.559137**	1.31	5.3	ug/L
|	Zn	67	2375.038	0.004	**20.171636**	8.31	41.2	ug/L
|	Zn	68	6090.412	0.016	**24.607858**	1.98	8.0	ug/L
|	V	51	-126.294	0.000	**0.224255**	0.17	76.7	ug/L
|	Cr	52	8420.613	0.014	**2.587949**	0.19	7.3	ug/L
|	Cr	53	15810.241	0.006	**-0.394050**	5.72	1451.0	ug/L
|	Mn	55	1871.562	0.004	**0.219709**	0.07	30.8	ug/L
|	Fe	54	30094.057	0.039	**94.530310**	14.32	15.1	ug/L
⌊	Fe	57	4709.441	0.008	**55.871981**	3.52	6.3	ug/L
⌈	As	75	-330.373	0.000	**-0.286233**	0.23	79.6	ug/L
|	Se	77	2260.999	0.001	**4.689095**	6.06	129.2	ug/L
|	Se	82	2.183	-0.000	**-0.057887**	0.18	304.8	ug/L
|	Sr	88	2082.282	0.004	**0.553303**	0.02	4.4	ug/L
| >	Y	89	534839.959	534839.959				ug/L
|	Mo	95	408.011	0.000	**0.407442**	0.06	14.4	ug/L
|	Mo	97	283.339	0.000	**0.596310**	0.14	23.9	ug/L
⌊	Mo	98	734.629	0.001	**0.816046**	0.04	4.6	ug/L
⌈	Ag	107	7.333	0.000	**-0.448358**	0.00	0.2	ug/L
|	Ag	109	9.333	0.000	**-0.467097**	0.00	0.2	ug/L
|	Cd	111	3.333	-0.000	**-0.102147**	0.00	1.0	ug/L
|	Cd	114	4.720	0.000	**-0.093125**	0.00	2.4	ug/L

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|>	In	115	252793.926	252793.926				ug/L
|	Sn	120	699.297	-0.001	**-0.048448**	0.01	21.8	ug/L
|	Sb	121	445.346	-0.000	**0.246946**	0.06	24.0	ug/L
\L	Sb	123	362.004	-0.000	**0.325968**	0.03	8.5	ug/L
|	Ba	135	288.672	0.001	**1.112871**	0.07	5.9	ug/L
|	Ba	137	533.352	0.001	**1.178539**	0.07	6.0	ug/L
|	Tb	159	384308.954	-0.015				ug/L
|>	Ho	165	423885.905	423885.905				ug/L
|	Tl	203	8.667	-0.000	**-0.661205**	0.00	0.2	ug/L
|	Tl	205	18.667	-0.000	**-0.582678**	0.00	0.1	ug/L
\L	Pb	208	292.002	0.000	**-0.766665**	0.01	1.1	ug/L
	Kr	83	19.133	-1.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		102.944	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		99.366	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		98.522	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	100.953
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: LCS-87103
Sample Date/Time: Tuesday, February 16, 2010 10:35:40
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\LCS-87103.018
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	26330.511	-0.003				ug/L
	Li	7	114682.711	0.301	**114.048685**	12.81	11.2	ug/L
	Be	9	23604.928	0.064	**102.844630**	10.17	9.9	ug/L
	B	11	30004.488	0.079	**108.192346**	8.92	8.2	ug/L
	Na	23	3195872.100	8.539	**5311.863932**	501.39	9.4	ug/L
	Mg	24	2307032.150	6.189	**5328.223474**	408.66	7.7	ug/L
	Al	27	7619767.898	20.437	**5439.502368**	329.53	6.1	ug/L
	K	39	6203614.661	16.501	**5685.548546**	600.89	10.6	ug/L
	Ca	43	27998.883	0.075	**4993.608966**	296.89	5.9	ug/L
>	Sc	45	372473.227	372473.227				ug/L
	Ti	49	14331.343	0.037	**102.116063**	5.73	5.6	ug/L
	Co	59	219208.847	0.590	**99.997635**	9.06	9.1	ug/L
	Ni	60	42978.573	0.116	**99.367718**	7.96	8.0	ug/L
	Ni	62	6538.783	0.017	**98.719417**	8.70	8.8	ug/L
	Cu	63	101521.765	0.273	**96.332428**	7.73	8.0	ug/L
	Cu	65	48598.437	0.131	**96.946925**	5.96	6.2	ug/L
	Zn	66	31578.074	0.084	**94.918066**	6.63	7.0	ug/L
	Zn	67	6461.384	0.015	**98.350781**	9.53	9.7	ug/L
	Zn	68	23205.637	0.062	**96.194317**	6.06	6.3	ug/L
	V	51	209314.850	0.564	**98.579766**	6.87	7.0	ug/L
	Cr	52	185402.905	0.490	**101.941215**	8.33	8.2	ug/L
	Cr	53	38296.523	0.067	**109.172168**	13.64	12.5	ug/L
	Mn	55	328240.976	0.882	**101.576930**	8.46	8.3	ug/L
	Fe	54	826870.545	2.183	**5124.204702**	444.77	8.7	ug/L
	Fe	57	338352.364	0.906	**5070.169461**	474.17	9.4	ug/L
	As	75	31640.227	0.061	**91.429558**	5.40	5.9	ug/L
	Se	77	14214.470	0.023	**444.610333**	46.29	10.4	ug/L
	Se	82	15234.891	0.029	**440.774936**	29.01	6.6	ug/L
	Sr	88	509009.437	0.969	**107.115550**	6.29	5.9	ug/L
>	Y	89	526058.930	526058.930				ug/L
	Mo	95	56819.901	0.108	**100.590478**	7.60	7.6	ug/L
	Mo	97	35495.107	0.067	**100.909158**	8.23	8.2	ug/L
	Mo	98	91336.853	0.173	**101.889109**	8.70	8.5	ug/L
	Ag	107	168014.247	0.686	**102.404717**	7.08	6.9	ug/L
	Ag	109	159715.003	0.652	**102.185899**	5.44	5.3	ug/L
	Cd	111	37483.129	0.153	**97.084143**	4.37	4.5	ug/L
	Cd	114	86113.396	0.352	**96.178659**	4.57	4.8	ug/L

|>	In	115	245065.645	245065.645				ug/L
|	Sn	120	177545.884	0.722	**102.916664**	5.90	5.7	ug/L
|	Sb	121	130375.176	0.531	**103.590134**	6.55	6.3	ug/L
|	Sb	123	101379.837	0.413	**103.960343**	7.60	7.3	ug/L
|	Ba	135	41147.849	0.097	**102.222345**	7.59	7.4	ug/L
|	Ba	137	71266.379	0.168	**100.259944**	8.34	8.3	ug/L
|	Tb	159	385758.993	-0.013				ug/L
|>	Ho	165	424795.521	424795.521				ug/L
|	Tl	203	194332.216	0.458	**99.116634**	4.42	4.5	ug/L
|	Tl	205	459845.078	1.084	**98.847546**	4.52	4.6	ug/L
|	Pb	208	625676.279	1.475	**98.838296**	6.21	6.3	ug/L
	Kr	83	21.267	0.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		101.548	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		97.735	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		95.510	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	101.170
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20B
Sample Date/Time: Tuesday, February 16, 2010 10:39:49
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20B.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24115.579	-0.003				ug/L
|	Li	7	85992.743	0.241	**91.548325**	2.56	2.8	ug/L
|	Be	9	1357.453	0.004	**6.895661**	0.07	1.0	ug/L
|	B	11	17851.367	0.050	**68.928347**	2.20	3.2	ug/L
|	Na	23	143372446.615	415.086	**257362.947572**	3364.95	1.3	ug/L
|	Mg	24	41072556.028	118.917	**102189.432881**	1735.04	1.7	ug/L
|	Al	27	577305.695	1.624	**445.121616**	10.96	2.5	ug/L
|	K	39	3707277.716	10.549	**3638.078387**	53.51	1.5	ug/L
|	Ca	43	704953.470	2.041	**136389.999664**	1121.93	0.8	ug/L
| >	Sc	45	345384.870	345384.870				ug/L
|	Ti	49	1343.451	0.003	**7.712565**	0.28	3.6	ug/L
|	Co	59	101551.353	0.294	**50.080636**	1.02	2.0	ug/L
|	Ni	60	21959.969	0.064	**54.642340**	0.52	0.9	ug/L
|	Ni	62	3311.379	0.009	**53.579267**	1.67	3.1	ug/L
|	Cu	63	2082.282	0.006	**2.020301**	0.06	3.0	ug/L
|	Cu	65	832.046	0.002	**1.297819**	0.32	25.0	ug/L
|	Zn	66	18212.201	0.052	**58.980423**	0.43	0.7	ug/L
|	Zn	67	4085.086	0.009	**59.130997**	4.30	7.3	ug/L
|	Zn	68	12642.381	0.036	**56.261837**	0.45	0.8	ug/L
|	V	51	-1141.984	-0.003	**-0.294373**	0.60	204.3	ug/L
|	Cr	52	3876.977	0.003	**0.275129**	0.03	9.2	ug/L
|	Cr	53	14958.541	0.007	**2.014723**	2.42	120.3	ug/L
|	Mn	55	4747415.125	13.745	**1586.580330**	9.12	0.6	ug/L
|	Fe	54	1390510.224	3.985	**9349.731182**	61.31	0.7	ug/L
⌊	Fe	57	571424.743	1.650	**9227.137537**	161.15	1.7	ug/L
⌈	As	75	-556.060	-0.000	**-0.456997**	0.66	144.4	ug/L
|	Se	77	3530.144	0.001	**11.747856**	4.03	34.3	ug/L
|	Se	82	40.823	0.000	**0.693577**	0.04	5.6	ug/L
|	Sr	88	6136639.569	8.000	**883.418856**	9.21	1.0	ug/L
| >	Y	89	767000.359	767000.359				ug/L
|	Mo	95	344.008	0.000	**0.114231**	0.04	31.4	ug/L
|	Mo	97	231.337	0.000	**0.250606**	0.02	9.8	ug/L
⌊	Mo	98	517.433	0.000	**0.405774**	0.02	5.7	ug/L
⌈	Ag	107	24.667	0.000	**-0.436023**	0.00	1.1	ug/L
|	Ag	109	20.000	0.000	**-0.458649**	0.01	1.9	ug/L
|	Cd	111	42.333	0.000	**0.011071**	0.01	97.2	ug/L
|	Cd	114	82.344	0.000	**0.003719**	0.00	94.8	ug/L

|>	In	115	221014.387	221014.387				ug/L
|	Sn	120	715.736	-0.000	**0.019095**	0.01	36.9	ug/L
|	Sb	121	569.355	0.001	**0.404127**	0.07	17.2	ug/L
\L	Sb	123	538.415	0.001	**0.577530**	0.06	10.3	ug/L
\[	Ba	135	12753.902	0.033	**35.492906**	0.62	1.7	ug/L
|	Ba	137	22397.229	0.059	**35.315416**	0.41	1.2	ug/L
|	Tb	159	341055.046	-0.027				ug/L
|>	Ho	165	381245.560	381245.560				ug/L
|	Tl	203	392.010	0.001	**-0.441631**	0.00	0.7	ug/L
|	Tl	205	990.731	0.002	**-0.348315**	0.03	7.7	ug/L
\L	Pb	208	522.674	0.001	**-0.720658**	0.01	0.9	ug/L
	Kr	83	39.667	19.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.163	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		142.498	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		86.137	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.798
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20BSD
Sample Date/Time: Tuesday, February 16, 2010 10:42:29
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20BSD.020
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27603.652	0.006				ug/L
	Li	7	21008.680	0.052	**100.724850**	5.90	5.9	ug/L
	Be	9	301.339	0.001	**9.762147**	0.19	1.9	ug/L
	B	11	4540.006	0.012	**82.590825**	0.63	0.8	ug/L
	Na	23	30459053.500	86.932	**269567.920421**	16455.28	6.1	ug/L
	Mg	24	8967733.245	25.597	**110020.580261**	3656.53	3.3	ug/L
	Al	27	126761.322	0.314	**487.239187**	17.55	3.6	ug/L
	K	39	884369.270	2.341	**4071.828622**	232.69	5.7	ug/L
	Ca	43	148346.558	0.423	**141407.068608**	3760.23	2.7	ug/L
>	Sc	45	350171.325	350171.325				ug/L
	Ti	49	578.689	0.000	**8.077896**	1.97	24.3	ug/L
	Co	59	22428.661	0.064	**56.238527**	1.86	3.3	ug/L
	Ni	60	5119.704	0.015	**62.673277**	2.35	3.8	ug/L
	Ni	62	770.705	0.002	**59.466134**	3.51	5.9	ug/L
	Cu	63	476.015	0.001	**1.854226**	0.22	11.7	ug/L
	Cu	65	224.003	0.000	**-0.121466**	0.17	141.4	ug/L
	Zn	66	4798.830	0.013	**76.975814**	2.15	2.8	ug/L
	Zn	67	2014.931	0.003	**80.818946**	13.46	16.6	ug/L
	Zn	68	3356.733	0.009	**72.048695**	2.59	3.6	ug/L
	V	51	-498.789	-0.001	**0.158921**	1.81	1136.7	ug/L
	Cr	52	3044.603	0.000	**-1.264239**	0.18	14.2	ug/L
	Cr	53	14750.797	0.006	**-0.519796**	4.75	914.6	ug/L
	Mn	55	1019075.911	2.910	**1678.491324**	41.70	2.5	ug/L
	Fe	54	310157.062	0.845	**9925.225080**	226.09	2.3	ug/L
	Fe	57	126309.523	0.357	**10005.983620**	325.10	3.2	ug/L
	As	75	-469.556	-0.000	**-3.178583**	1.03	32.3	ug/L
	Se	77	2427.050	0.001	**36.901301**	3.83	10.4	ug/L
	Se	82	15.428	0.000	**1.531425**	0.77	50.2	ug/L
	Sr	88	1250260.987	2.254	**1244.846980**	28.31	2.3	ug/L
>	Y	89	554583.943	554583.943				ug/L
	Mo	95	73.334	-0.000	**-0.902960**	0.09	10.4	ug/L
	Mo	97	46.667	-0.000	**-0.371565**	0.18	48.2	ug/L
	Mo	98	122.375	-0.000	**0.700737**	0.04	5.6	ug/L
	Ag	107	10.000	0.000	**-2.231486**	0.02	0.9	ug/L
	Ag	109	6.667	-0.000	**-2.342203**	0.02	0.7	ug/L
	Cd	111	9.167	0.000	**-0.428280**	0.01	2.7	ug/L
	Cd	114	24.700	0.000	**-0.346838**	0.02	5.6	ug/L

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|>	In	115	233960.540	233960.540				ug/L
|	Sn	120	656.559	-0.001	**-0.211712**	0.11	53.4	ug/L
|	Sb	121	274.005	-0.001	**0.651788**	0.10	15.3	ug/L
L	Sb	123	260.662	-0.000	**1.227918**	0.17	13.7	ug/L
⌜	Ba	135	2699.141	0.007	**36.910140**	1.46	3.9	ug/L
|	Ba	137	4798.166	0.012	**37.295352**	2.27	6.1	ug/L
|	Tb	159	366322.492	-0.018				ug/L
|>	Ho	165	405603.343	405603.343				ug/L
|	Tl	203	63.334	0.000	**-3.157928**	0.05	1.5	ug/L
|	Tl	205	107.334	0.000	**-2.812240**	0.00	0.2	ug/L
L	Pb	208	158.667	0.000	**-3.934327**	0.01	0.3	ug/L
	Kr	83	22.000	1.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.468	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		103.034	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.182	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.599
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20BMS
Sample Date/Time: Tuesday, February 16, 2010 10:45:10
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20BMS.021
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20702.759	-0.015				ug/L
|	Li	7	192974.368	0.534	**202.123114**	4.77	2.4	ug/L
|	Be	9	21375.665	0.060	**97.185265**	1.86	1.9	ug/L
|	B	11	44827.019	0.124	**169.232011**	5.01	3.0	ug/L
|	Na	23	149503966.203	419.672	**260206.491937**	7388.97	2.8	ug/L
|	Mg	24	43259405.707	121.429	**104347.253703**	2047.94	2.0	ug/L
|	Al	27	7061498.334	19.777	**5264.122673**	167.66	3.2	ug/L
|	K	39	8484909.612	23.630	**8137.785216**	26.42	0.3	ug/L
|	Ca	43	754021.186	2.116	**141430.780662**	4404.35	3.1	ug/L
| >	Sc	45	356282.192	356282.192				ug/L
|	Ti	49	13457.766	0.037	**100.088750**	2.79	2.8	ug/L
|	Co	59	277377.922	0.778	**131.893957**	2.91	2.2	ug/L
|	Ni	60	54437.330	0.153	**131.374408**	2.73	2.1	ug/L
|	Ni	62	8315.161	0.023	**131.197621**	5.03	3.8	ug/L
|	Cu	63	80399.384	0.225	**79.607626**	1.97	2.5	ug/L
|	Cu	65	39006.696	0.109	**81.161758**	2.29	2.8	ug/L
|	Zn	66	40787.853	0.114	**127.963260**	2.41	1.9	ug/L
|	Zn	67	7785.278	0.019	**130.040168**	7.88	6.1	ug/L
|	Zn	68	29839.152	0.083	**129.326292**	6.22	4.8	ug/L
|	V	51	184947.972	0.520	**90.975852**	3.31	3.6	ug/L
|	Cr	52	157188.458	0.433	**89.986414**	3.46	3.9	ug/L
|	Cr	53	33744.528	0.059	**94.349882**	4.31	4.6	ug/L
|	Mn	55	5041821.708	14.154	**1633.809352**	52.83	3.2	ug/L
|	Fe	54	2106252.760	5.872	**13777.225492**	471.34	3.4	ug/L
⌊	Fe	57	854912.764	2.396	**13390.306790**	376.12	2.8	ug/L
⌈	As	75	27740.689	0.036	**53.963380**	1.47	2.7	ug/L
|	Se	77	13897.214	0.014	**264.186959**	5.30	2.0	ug/L
|	Se	82	13612.016	0.017	**263.666450**	3.37	1.3	ug/L
|	Sr	88	6766307.965	8.628	**952.657222**	21.60	2.3	ug/L
| >	Y	89	784158.171	784158.171				ug/L
|	Mo	95	52236.212	0.066	**61.776291**	1.54	2.5	ug/L
|	Mo	97	31971.672	0.041	**60.737004**	1.20	2.0	ug/L
⌊	Mo	98	82372.866	0.104	**61.478110**	0.93	1.5	ug/L
⌈	Ag	107	131100.202	0.595	**88.701844**	2.36	2.7	ug/L
|	Ag	109	124971.251	0.567	**88.785563**	1.93	2.2	ug/L
|	Cd	111	30036.541	0.136	**86.453602**	1.61	1.9	ug/L
|	Cd	114	69351.551	0.315	**86.083325**	1.89	2.2	ug/L

|>	In	115	220318.380	220318.380				ug/L
|	Sn	120	147461.212	0.666	**94.937619**	1.73	1.8	ug/L
|	Sb	121	108579.720	0.491	**95.842824**	1.38	1.4	ug/L
|	Sb	123	83640.660	0.378	**95.270350**	1.33	1.4	ug/L
|	Ba	135	47996.640	0.122	**128.481338**	2.06	1.6	ug/L
|	Ba	137	84232.787	0.214	**127.649638**	2.19	1.7	ug/L
|	Tb	159	351597.771	-0.027				ug/L
|>	Ho	165	393137.242	393137.242				ug/L
|	Tl	203	156838.889	0.399	**86.262449**	3.25	3.8	ug/L
|	Tl	205	371665.645	0.945	**86.155785**	2.98	3.5	ug/L
|	Pb	208	511943.164	1.302	**87.148090**	2.71	3.1	ug/L
	Kr	83	47.333	26.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.134	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		145.686	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.865	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	93.630
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20BMSD
Sample Date/Time: Tuesday, February 16, 2010 10:47:51
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20BMSD.022
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20509.527	-0.015				ug/L
|	Li	7	210889.162	0.591	**223.781877**	11.54	5.2	ug/L
|	Be	9	22599.166	0.064	**103.939414**	4.58	4.4	ug/L
|	B	11	49223.056	0.138	**188.172523**	6.95	3.7	ug/L
|	Na	23	162969951.129	462.982	**287057.930013**	18177.15	6.3	ug/L
|	Mg	24	47582832.657	135.159	**116145.042493**	5590.71	4.8	ug/L
|	Al	27	7501683.107	21.258	**5657.262063**	156.10	2.8	ug/L
|	K	39	9247036.934	26.066	**8975.934174**	132.38	1.5	ug/L
|	Ca	43	804633.869	2.285	**152721.521417**	5487.34	3.6	ug/L
| >	Sc	45	352205.513	352205.513				ug/L
|	Ti	49	14159.023	0.039	**106.739466**	4.09	3.8	ug/L
|	Co	59	290420.786	0.825	**139.711994**	4.90	3.5	ug/L
|	Ni	60	56254.991	0.160	**137.362922**	4.00	2.9	ug/L
|	Ni	62	8604.812	0.024	**137.380823**	5.21	3.8	ug/L
|	Cu	63	82385.611	0.234	**82.537865**	2.88	3.5	ug/L
|	Cu	65	39727.692	0.113	**83.661809**	3.23	3.9	ug/L
|	Zn	66	39593.668	0.112	**125.682271**	4.60	3.7	ug/L
|	Zn	67	8086.921	0.020	**137.951240**	9.39	6.8	ug/L
|	Zn	68	29484.475	0.083	**129.310148**	7.90	6.1	ug/L
|	V	51	193511.149	0.551	**96.298811**	4.82	5.0	ug/L
|	Cr	52	161110.370	0.449	**93.389320**	3.98	4.3	ug/L
|	Cr	53	34668.640	0.062	**101.065981**	6.75	6.7	ug/L
|	Mn	55	5316460.700	15.100	**1743.035556**	63.62	3.7	ug/L
|	Fe	54	2202593.708	6.215	**14582.074174**	631.01	4.3	ug/L
⌊	Fe	57	900683.011	2.554	**14273.276914**	450.62	3.2	ug/L
⌈	As	75	28624.057	0.036	**54.657593**	1.01	1.9	ug/L
|	Se	77	14484.296	0.014	**272.224994**	14.10	5.2	ug/L
|	Se	82	14158.892	0.018	**269.279914**	6.23	2.3	ug/L
|	Sr	88	7178203.162	8.986	**992.198940**	28.91	2.9	ug/L
| >	Y	89	798869.189	798869.189				ug/L
|	Mo	95	54477.634	0.068	**63.272162**	2.17	3.4	ug/L
|	Mo	97	33686.950	0.042	**62.850177**	2.01	3.2	ug/L
⌊	Mo	98	86697.884	0.108	**63.532731**	1.36	2.1	ug/L
⌈	Ag	107	136331.640	0.620	**92.501863**	3.20	3.5	ug/L
|	Ag	109	128897.686	0.587	**91.825529**	2.76	3.0	ug/L
|	Cd	111	31028.470	0.141	**89.558181**	3.75	4.2	ug/L
|	Cd	114	71624.650	0.326	**89.158266**	4.09	4.6	ug/L

|>	In	115	219850.299	219850.299				ug/L
|	Sn	120	155033.886	0.702	**100.102778**	3.63	3.6	ug/L
|	Sb	121	112738.172	0.511	**99.774967**	3.06	3.1	ug/L
|	Sb	123	87065.929	0.395	**99.431053**	3.23	3.2	ug/L
|	Ba	135	50516.029	0.128	**135.075307**	4.25	3.1	ug/L
|	Ba	137	88478.610	0.225	**133.916981**	2.32	1.7	ug/L
|	Tb	159	351358.488	-0.029				ug/L
|>	Ho	165	393639.927	393639.927				ug/L
|	Tl	203	164387.565	0.418	**90.348143**	3.17	3.5	ug/L
|	Tl	205	392593.417	0.997	**90.940603**	3.37	3.7	ug/L
|	Pb	208	537365.204	1.365	**91.418259**	2.30	2.5	ug/L
	Kr	83	43.733	23.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.022	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		148.419	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.683	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	93.750
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20BPDS
Sample Date/Time: Tuesday, February 16, 2010 10:50:31
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20BPDS.023
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	25137.331	-0.004				ug/L
	Li	7	130049.638	0.353	**669.283570**	14.91	2.2	ug/L
	Be	9	23256.438	0.065	**522.610255**	7.63	1.5	ug/L
	B	11	35296.842	0.097	**657.898430**	22.38	3.4	ug/L
	Na	23	36088372.437	100.110	**310419.265214**	2768.12	0.9	ug/L
	Mg	24	11776114.822	32.677	**140439.371066**	4404.81	3.1	ug/L
	Al	27	7304372.541	20.228	**26920.196081**	645.60	2.4	ug/L
	K	39	6951868.306	19.115	**32923.294532**	2234.39	6.8	ug/L
	Ca	43	188652.816	0.523	**174827.316300**	4876.00	2.8	ug/L
>	Sc	45	360265.582	360265.582				ug/L
	Ti	49	13203.994	0.035	**485.105501**	13.40	2.8	ug/L
	Co	59	221107.677	0.614	**520.282039**	3.82	0.7	ug/L
	Ni	60	42638.544	0.118	**508.750584**	11.30	2.2	ug/L
	Ni	62	6546.785	0.018	**510.067121**	11.92	2.3	ug/L
	Cu	63	90351.585	0.251	**442.352430**	6.49	1.5	ug/L
	Cu	65	43103.104	0.120	**443.681686**	7.21	1.6	ug/L
	Zn	66	32467.053	0.090	**503.655607**	6.91	1.4	ug/L
	Zn	67	6418.677	0.015	**507.424535**	9.49	1.9	ug/L
	Zn	68	23709.835	0.065	**507.510915**	15.13	3.0	ug/L
	V	51	198008.702	0.550	**481.434729**	12.06	2.5	ug/L
	Cr	52	167271.908	0.456	**473.912802**	7.57	1.6	ug/L
	Cr	53	34430.885	0.059	**479.283635**	6.42	1.3	ug/L
	Mn	55	1372972.168	3.810	**2198.129152**	6.56	0.3	ug/L
	Fe	54	1061163.704	2.904	**34079.776587**	119.40	0.4	ug/L
	Fe	57	437651.585	1.211	**33855.000255**	481.74	1.4	ug/L
	As	75	32453.182	0.057	**426.568880**	5.48	1.3	ug/L
	Se	77	14585.149	0.022	**2044.968580**	33.18	1.6	ug/L
	Se	82	16032.076	0.028	**2108.323055**	53.79	2.6	ug/L
	Sr	88	1834569.711	3.175	**1753.557933**	29.27	1.7	ug/L
>	Y	89	577867.107	577867.107				ug/L
	Mo	95	53996.889	0.093	**434.084203**	11.33	2.6	ug/L
	Mo	97	33641.406	0.058	**434.234176**	8.87	2.0	ug/L
	Mo	98	85230.341	0.147	**431.818921**	12.96	3.0	ug/L
	Ag	107	148018.893	0.613	**457.108737**	10.76	2.4	ug/L
	Ag	109	140732.471	0.583	**456.339939**	7.27	1.6	ug/L
	Cd	111	35773.354	0.148	**469.956683**	13.27	2.8	ug/L
	Cd	114	82205.045	0.341	**465.707892**	9.93	2.1	ug/L

|>	In	115	241397.994	241397.994				ug/L
|	Sn	120	163253.157	0.673	**479.655096**	9.50	2.0	ug/L
|	Sb	121	116937.679	0.483	**471.031809**	9.35	2.0	ug/L
|	Sb	123	91092.729	0.376	**473.489769**	5.36	1.1	ug/L
|	Ba	135	40030.642	0.095	**500.716184**	15.43	3.1	ug/L
|	Ba	137	71325.863	0.169	**505.110536**	4.20	0.8	ug/L
|	Tb	159	379138.850	-0.021				ug/L
|>	Ho	165	421016.948	421016.948				ug/L
|	Tl	203	179808.579	0.427	**461.941162**	7.56	1.6	ug/L
|	Tl	205	423314.452	1.005	**458.345385**	4.40	1.0	ug/L
|	Pb	208	573733.186	1.363	**456.208601**	5.27	1.2	ug/L
	Kr	83	25.533	4.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.220	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		107.360	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		94.081	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	100.270
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Tuesday, February 16, 2010 10:58:29
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 4.024
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26342.558	0.000				ug/L
|	Li	7	110429.529	0.299	**113.619365**	6.05	5.3	ug/L
|	Be	9	23951.240	0.067	**107.927759**	4.38	4.1	ug/L
|	B	11	30861.791	0.084	**115.209271**	3.10	2.7	ug/L
|	Na	23	3050795.967	8.439	**5249.771417**	441.65	8.4	ug/L
|	Mg	24	2233194.553	6.204	**5340.932647**	306.65	5.7	ug/L
|	Al	27	7171916.115	19.918	**5301.691364**	250.60	4.7	ug/L
|	K	39	6238530.081	17.175	**5917.369479**	157.85	2.7	ug/L
|	Ca	43	26460.097	0.073	**4884.381935**	112.34	2.3	ug/L
| >	Sc	45	359451.859	359451.859				ug/L
|	Ti	49	13294.148	0.036	**97.940249**	2.17	2.2	ug/L
|	Co	59	206791.230	0.575	**97.629938**	5.50	5.6	ug/L
|	Ni	60	40574.745	0.113	**97.084273**	3.30	3.4	ug/L
|	Ni	62	6138.454	0.017	**95.889864**	6.76	7.1	ug/L
|	Cu	63	96924.216	0.269	**95.161903**	2.69	2.8	ug/L
|	Cu	65	46642.336	0.130	**96.306879**	2.47	2.6	ug/L
|	Zn	66	30939.444	0.086	**96.221979**	0.84	0.9	ug/L
|	Zn	67	6059.720	0.014	**94.749834**	4.71	5.0	ug/L
|	Zn	68	22438.026	0.062	**96.274707**	3.15	3.3	ug/L
|	V	51	202871.745	0.565	**98.893317**	2.54	2.6	ug/L
|	Cr	52	173686.837	0.475	**98.762593**	3.56	3.6	ug/L
|	Cr	53	33091.075	0.056	**89.662611**	8.53	9.5	ug/L
|	Mn	55	314518.196	0.875	**100.744632**	5.80	5.8	ug/L
|	Fe	54	784200.758	2.142	**5028.074784**	289.59	5.8	ug/L
⌊	Fe	57	319601.728	0.886	**4955.678846**	264.81	5.3	ug/L
⌈	As	75	34484.841	0.069	**103.577860**	2.40	2.3	ug/L
|	Se	77	15270.493	0.027	**505.430223**	36.34	7.2	ug/L
|	Se	82	17491.416	0.035	**526.273722**	14.20	2.7	ug/L
|	Sr	88	462181.112	0.915	**101.183709**	3.87	3.8	ug/L
| >	Y	89	505182.547	505182.547				ug/L
|	Mo	95	54498.476	0.108	**100.327896**	5.23	5.2	ug/L
|	Mo	97	33941.414	0.067	**100.306265**	4.91	4.9	ug/L
⌊	Mo	98	86764.941	0.171	**100.575224**	3.61	3.6	ug/L
⌈	Ag	107	158824.413	0.655	**97.655109**	3.80	3.9	ug/L
|	Ag	109	150846.018	0.622	**97.370846**	2.63	2.7	ug/L
|	Cd	111	37994.443	0.157	**99.316812**	1.97	2.0	ug/L
|	Cd	114	88056.980	0.363	**99.273610**	2.31	2.3	ug/L

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|>	In	115	242706.854	242706.854				ug/L
|	Sn	120	167503.860	0.687	**97.995557**	5.37	5.5	ug/L
|	Sb	121	119587.685	0.491	**95.902014**	5.08	5.3	ug/L
L	Sb	123	92667.557	0.381	**95.890991**	4.62	4.8	ug/L
⌈	Ba	135	37344.434	0.091	**95.901192**	1.60	1.7	ug/L
|	Ba	137	65987.189	0.161	**95.961229**	3.12	3.3	ug/L
|	Tb	159	372151.793	-0.015				ug/L
|>	Ho	165	410346.912	410346.912				ug/L
|	Tl	203	183794.633	0.448	**96.980312**	3.24	3.3	ug/L
|	Tl	205	436990.443	1.065	**97.174946**	3.25	3.3	ug/L
L	Pb	208	597111.799	1.456	**97.549161**	4.66	4.8	ug/L
	Kr	83	20.733	0.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	113.619		
Be	9	107.928		
B	11	115.209		
Na	23	104.995		
Mg	24	106.819		
Al	27	103.955		
K	39	118.347		
Ca	43	97.688		
Sc	45		97.998	
Ti	49	97.940		
Co	59	97.630		
Ni	60	97.084		
Ni	62	95.890		
Cu	63	95.162		
Cu	65	96.307		
Zn	66	96.222		
Zn	67	94.750		
Zn	68	96.275		
V	51	98.893		
Cr	52	98.763		
Cr	53	89.663		
Mn	55	100.745		
Fe	54	100.561		
Fe	57	99.114		
As	75	103.578		
Se	77	101.086		
Se	82	105.255		
Sr	88	101.184		
Y	89		93.856	
Mo	95	100.328		
Mo	97	100.306		
Mo	98	100.575		
Ag	107	97.655		
Ag	109	97.371		
Cd	111	99.317		
Cd	114	99.274		
In	115		94.591	
Sn	120	97.996		
Sb	121	95.902		

00653

Sb	123	95.891	
Ba	135	95.901	
Ba	137	95.961	
Tb	159		
Ho	165		97.729
Tl	203	96.980	
Tl	205	97.175	
Pb	208	97.549	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Tuesday, February 16, 2010 11:02:24
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 5.025
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30102.500	0.010				ug/L
|	Li	7	5601.373	0.008	**3.335324**	0.15	4.4	ug/L
|	Be	9	532.685	0.001	**2.943447**	0.28	9.6	ug/L
|	B	11	6752.296	0.017	**24.302305**	0.16	0.7	ug/L
|	Na	23	71195.446	0.139	**103.636651**	6.32	6.1	ug/L
|	Mg	24	21496.751	0.047	**50.458554**	3.98	7.9	ug/L
|	Al	27	72870.281	0.154	**54.952195**	1.44	2.6	ug/L
|	K	39	144139.268	0.214	**82.778247**	5.01	6.1	ug/L
|	Ca	43	1209.428	0.003	**186.682386**	6.50	3.5	ug/L
| >	Sc	45	360754.123	360754.123				ug/L
|	Ti	49	1050.739	0.002	**5.049690**	0.58	11.5	ug/L
|	Co	59	4319.879	0.012	**2.451864**	0.01	0.4	ug/L
|	Ni	60	820.044	0.002	**1.911823**	0.08	4.0	ug/L
|	Ni	62	142.668	0.000	**1.700499**	0.08	4.5	ug/L
|	Cu	63	2127.628	0.006	**1.973837**	0.04	2.0	ug/L
|	Cu	65	1016.067	0.003	**1.599961**	0.08	4.7	ug/L
|	Zn	66	1992.258	0.005	**6.258462**	0.33	5.2	ug/L
|	Zn	67	1434.802	0.001	**3.595830**	3.63	101.0	ug/L
|	Zn	68	1490.811	0.004	**5.968506**	0.12	2.0	ug/L
|	V	51	19883.648	0.056	**9.911222**	0.45	4.5	ug/L
|	Cr	52	9796.235	0.019	**3.598630**	0.14	4.0	ug/L
|	Cr	53	14507.673	0.004	**-3.526653**	2.27	64.3	ug/L
|	Mn	55	6824.359	0.018	**1.829569**	0.03	1.5	ug/L
|	Fe	54	28795.675	0.039	**94.448369**	5.45	5.8	ug/L
⌞	Fe	57	7270.768	0.016	**98.676582**	0.23	0.2	ug/L
⌜	As	75	791.141	0.002	**2.983983**	0.40	13.3	ug/L
|	Se	77	2062.277	0.000	**1.235790**	1.34	108.6	ug/L
|	Se	82	190.387	0.000	**5.577443**	0.20	3.6	ug/L
|	Sr	88	5109.030	0.010	**1.232423**	0.01	1.1	ug/L
| >	Y	89	508254.347	508254.347				ug/L
|	Mo	95	1242.767	0.002	**1.974971**	0.01	0.7	ug/L
|	Mo	97	792.041	0.001	**2.129152**	0.04	2.1	ug/L
⌞	Mo	98	1989.965	0.003	**2.302417**	0.09	3.7	ug/L
⌜	Ag	107	1658.846	0.007	**0.567465**	0.05	8.6	ug/L
|	Ag	109	1610.835	0.007	**0.567531**	0.02	3.9	ug/L
|	Cd	111	801.542	0.003	**1.978632**	0.06	3.0	ug/L
|	Cd	114	1886.886	0.008	**2.022752**	0.12	5.8	ug/L

00655

|>	In	115	243653.742	243653.742				ug/L
|	Sn	120	8556.565	0.032	**4.561299**	0.13	2.8	ug/L
|	Sb	121	7889.381	0.030	**6.207809**	0.30	4.8	ug/L
\L	Sb	123	6129.847	0.024	**6.282614**	0.19	3.0	ug/L
|	Ba	135	1870.227	0.004	**5.090178**	0.09	1.9	ug/L
|	Ba	137	3430.099	0.008	**5.302213**	0.22	4.1	ug/L
|	Tb	159	377995.609	-0.018				ug/L
|>	Ho	165	418305.874	418305.874				ug/L
|	Tl	203	4115.768	0.010	**1.478588**	0.05	3.3	ug/L
|	Tl	205	9651.387	0.023	**1.530089**	0.02	1.5	ug/L
\L	Pb	208	6417.725	0.015	**0.223559**	0.05	23.0	ug/L
	Kr	83	19.067	-1.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	166.766		
Be	9	147.172		
B	11	121.512		
Na	23	103.637		
Mg	24	100.917		
Al	27	109.904		
K	39	110.371		
Ca	43	93.341		
Sc	45		98.353	
Ti	49	100.994		
Co	59	122.593		
Ni	60	95.591		
Ni	62	85.025		
Cu	63	98.692		
Cu	65	79.998		
Zn	66	104.308		
Zn	67	59.931		
Zn	68	99.475		
V	51	99.112		
Cr	52	89.966		
Cr	53	-88.166		
Mn	55	91.478		
Fe	54	94.448		
Fe	57	98.677		
As	75	74.600		
Se	77	24.716		
Se	82	111.549		
Sr	88	123.242		
Y	89		94.427	
Mo	95	98.749		
Mo	97	106.458		
Mo	98	115.121		
Ag	107	56.747		
Ag	109	56.753		
Cd	111	98.932		
Cd	114	101.138		
In	115		94.960	
Sn	120	114.032		
Sb	121	124.156		

00656

Sb	123	125.652	
Ba	135	101.804	
Ba	137	106.044	
Tb	159		
Ho	165		99.624
Tl	203	73.929	
Tl	205	76.504	
Pb	208	22.356	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Tuesday, February 16, 2010 11:05:27
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 6.026
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29474.967	0.008				ug/L
|	Li	7	3246.686	0.001	**0.865073**	0.12	13.3	ug/L
|	Be	9	4.667	0.000	**0.587051**	0.01	1.7	ug/L
|	B	11	607.357	0.000	**1.248321**	0.12	9.8	ug/L
|	Na	23	12710.584	-0.023	**3.106593**	1.92	61.7	ug/L
|	Mg	24	133.335	-0.013	**-0.450198**	0.15	32.6	ug/L
|	Al	27	800.042	-0.046	**1.908057**	0.08	4.1	ug/L
|	K	39	50431.506	-0.045	**-6.635119**	0.18	2.8	ug/L
|	Ca	43	134.668	-0.000	**-12.570152**	4.44	35.3	ug/L
| >	Sc	45	361223.572	361223.572				ug/L
|	Ti	49	358.008	-0.000	**-0.190943**	0.15	76.9	ug/L
|	Co	59	17.333	-0.000	**0.438080**	0.00	1.1	ug/L
|	Ni	60	12.000	-0.000	**-0.014164**	0.01	35.9	ug/L
|	Ni	62	32.000	-0.000	**-0.032930**	0.25	747.0	ug/L
|	Cu	63	163.335	0.000	**0.050086**	0.01	28.0	ug/L
|	Cu	65	89.334	0.000	**-0.316398**	0.04	12.3	ug/L
|	Zn	66	90.667	-0.000	**0.368801**	0.05	14.9	ug/L
|	Zn	67	1181.424	0.001	**-1.412829**	2.05	145.4	ug/L
|	Zn	68	101.334	-0.000	**0.002537**	0.08	2992.5	ug/L
|	V	51	187.684	0.001	**0.359114**	0.75	207.8	ug/L
|	Cr	52	3075.281	0.000	**-0.290031**	0.02	7.5	ug/L
|	Cr	53	14365.404	0.004	**-4.297157**	2.67	62.0	ug/L
|	Mn	55	301.339	-0.000	**-0.258068**	0.01	3.9	ug/L
|	Fe	54	13018.355	-0.005	**-8.196683**	4.27	52.1	ug/L
⌞	Fe	57	725.368	-0.002	**-2.667271**	0.31	11.6	ug/L
⌜	As	75	-361.673	-0.000	**-0.438290**	0.12	27.0	ug/L
|	Se	77	1994.259	0.000	**-0.878782**	1.68	191.6	ug/L
|	Se	82	4.714	-0.000	**0.027006**	0.07	247.7	ug/L
|	Sr	88	172.669	0.000	**0.160493**	0.00	2.6	ug/L
| >	Y	89	505100.117	505100.117				ug/L
|	Mo	95	17.333	-0.000	**-0.271697**	0.02	7.3	ug/L
|	Mo	97	12.000	-0.000	**-0.164248**	0.02	13.5	ug/L
⌞	Mo	98	35.114	-0.001	**0.051575**	0.01	12.7	ug/L
⌜	Ag	107	16.000	0.000	**-0.443087**	0.00	0.5	ug/L
|	Ag	109	8.667	0.000	**-0.467466**	0.00	0.4	ug/L
|	Cd	111	2.833	-0.000	**-0.103301**	0.00	2.0	ug/L
|	Cd	114	6.180	0.000	**-0.091452**	0.00	3.5	ug/L

|>	In	115	248932.134	248932.134				ug/L
|	Sn	120	666.551	-0.001	**-0.060529**	0.02	39.1	ug/L
|	Sb	121	596.690	0.001	**0.369720**	0.06	16.8	ug/L
\L	Sb	123	488.589	0.000	**0.458655**	0.04	7.8	ug/L
|	Ba	135	11.333	-0.000	**0.426803**	0.01	2.7	ug/L
|	Ba	137	20.667	-0.000	**0.461037**	0.00	0.7	ug/L
|	Tb	159	391390.520	-0.005				ug/L
|>	Ho	165	427352.710	427352.710				ug/L
|	Tl	203	26.667	0.000	**-0.652162**	0.01	0.8	ug/L
|	Tl	205	70.000	0.000	**-0.571707**	0.00	0.1	ug/L
\L	Pb	208	105.334	0.000	**-0.796628**	0.00	0.2	ug/L
	Kr	83	19.533	-1.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.481	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		93.841	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		97.017	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	101.779
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20BPDSD
Sample Date/Time: Tuesday, February 16, 2010 11:08:31
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20BPDSD.027
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24034.794	-0.004				ug/L
|	Li	7	133609.272	0.375	**711.114073**	33.80	4.8	ug/L
|	Be	9	23763.323	0.068	**551.451075**	23.44	4.3	ug/L
|	B	11	34777.787	0.098	**669.557548**	24.66	3.7	ug/L
|	Na	23	35516097.276	101.724	**315421.652117**	3704.56	1.2	ug/L
|	Mg	24	11790253.937	33.797	**145252.002457**	6531.15	4.5	ug/L
|	Al	27	7446516.989	21.300	**28342.858514**	1023.19	3.6	ug/L
|	K	39	6863308.001	19.506	**33595.591821**	2393.11	7.1	ug/L
|	Ca	43	187964.949	0.538	**179856.955710**	3211.80	1.8	ug/L
| >	Sc	45	349012.278	349012.278				ug/L
|	Ti	49	13606.691	0.038	**517.239351**	17.95	3.5	ug/L
|	Co	59	224862.108	0.645	**546.445742**	19.83	3.6	ug/L
|	Ni	60	43264.705	0.124	**533.166168**	20.86	3.9	ug/L
|	Ni	62	6713.599	0.019	**540.380625**	30.73	5.7	ug/L
|	Cu	63	92961.055	0.266	**470.123023**	16.57	3.5	ug/L
|	Cu	65	43886.177	0.126	**466.670614**	14.67	3.1	ug/L
|	Zn	66	33617.306	0.096	**538.624655**	18.80	3.5	ug/L
|	Zn	67	6621.515	0.016	**548.579109**	16.53	3.0	ug/L
|	Zn	68	23648.296	0.067	**522.804001**	13.91	2.7	ug/L
|	V	51	206041.508	0.592	**517.334694**	19.72	3.8	ug/L
|	Cr	52	173399.526	0.489	**508.326496**	28.09	5.5	ug/L
|	Cr	53	34611.707	0.063	**512.306859**	39.33	7.7	ug/L
|	Mn	55	1391285.703	3.989	**2301.422221**	110.42	4.8	ug/L
|	Fe	54	1100269.571	3.114	**36540.668732**	1778.22	4.9	ug/L
⌞	Fe	57	448396.249	1.282	**35839.113560**	1719.54	4.8	ug/L
⌜	As	75	33588.183	0.060	**449.529375**	13.53	3.0	ug/L
|	Se	77	14577.136	0.022	**2088.096965**	26.81	1.3	ug/L
|	Se	82	16495.399	0.029	**2209.040885**	47.70	2.2	ug/L
|	Sr	88	1828300.417	3.223	**1779.637784**	9.66	0.5	ug/L
| >	Y	89	567311.039	567311.039				ug/L
|	Mo	95	55604.988	0.098	**455.209512**	6.02	1.3	ug/L
|	Mo	97	34181.801	0.060	**449.285016**	6.54	1.5	ug/L
⌞	Mo	98	87742.747	0.154	**452.547179**	8.33	1.8	ug/L
⌜	Ag	107	150560.000	0.639	**476.326898**	6.74	1.4	ug/L
|	Ag	109	144059.940	0.611	**478.566176**	4.72	1.0	ug/L
|	Cd	111	36555.154	0.155	**491.896428**	4.39	0.9	ug/L
|	Cd	114	85030.669	0.361	**493.429969**	2.94	0.6	ug/L

|>	In	115	235671.158	235671.158				ug/L
|	Sn	120	168318.353	0.711	**506.757132**	18.16	3.6	ug/L
|	Sb	121	121869.482	0.515	**502.906254**	14.53	2.9	ug/L
|	Sb	123	95364.862	0.403	**507.793250**	11.38	2.2	ug/L
|	Ba	135	41464.129	0.100	**528.351126**	14.72	2.8	ug/L
|	Ba	137	73074.179	0.177	**527.142267**	14.99	2.8	ug/L
|	Tb	159	370801.207	-0.025				ug/L
|>	Ho	165	413360.328	413360.328				ug/L
|	Tl	203	181368.413	0.439	**474.805905**	13.05	2.7	ug/L
|	Tl	205	432566.934	1.047	**477.285265**	11.85	2.5	ug/L
|	Pb	208	589096.849	1.426	**477.471364**	18.90	4.0	ug/L
	Kr	83	24.133	3.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.152	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		105.399	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.849	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.446
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-27B
Sample Date/Time: Tuesday, February 16, 2010 11:11:12
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-27B.028
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30533.784	0.011				ug/L
|	Li	7	22182.669	0.053	**20.543058**	2.06	10.0	ug/L
|	Be	9	694.698	0.002	**3.643907**	0.34	9.3	ug/L
|	B	11	12185.676	0.032	**44.392237**	4.78	10.8	ug/L
|	Na	23	38412510.339	105.719	**65561.525594**	6402.09	9.8	ug/L
|	Mg	24	3325441.133	9.145	**7867.976647**	790.75	10.1	ug/L
|	Al	27	6019041.560	16.523	**4400.312617**	388.95	8.8	ug/L
|	K	39	1137160.814	2.944	**1021.904407**	75.95	7.4	ug/L
|	Ca	43	275325.479	0.757	**50610.553116**	3723.11	7.4	ug/L
| >	Sc	45	363949.531	363949.531				ug/L
|	Ti	49	973.395	0.001	**4.421514**	0.99	22.4	ug/L
|	Co	59	166755.473	0.459	**77.927967**	5.92	7.6	ug/L
|	Ni	60	9308.969	0.026	**21.992565**	1.64	7.5	ug/L
|	Ni	62	1477.475	0.004	**22.414778**	1.70	7.6	ug/L
|	Cu	63	76776.205	0.211	**74.514966**	5.13	6.9	ug/L
|	Cu	65	37236.607	0.102	**75.906609**	4.36	5.7	ug/L
|	Zn	66	37495.221	0.103	**115.314344**	7.56	6.6	ug/L
|	Zn	67	7354.181	0.018	**118.531872**	6.77	5.7	ug/L
|	Zn	68	26963.187	0.074	**114.450570**	6.27	5.5	ug/L
|	V	51	1146.775	0.004	**0.831970**	0.03	3.2	ug/L
|	Cr	52	6636.862	0.010	**1.741093**	0.16	9.0	ug/L
|	Cr	53	16359.377	0.009	**5.024456**	2.75	54.7	ug/L
|	Mn	55	19548234.433	53.788	**6209.581065**	393.25	6.3	ug/L
|	Fe	54	70123.292	0.152	**359.676200**	24.75	6.9	ug/L
⌊	Fe	57	25544.387	0.066	**378.761817**	28.93	7.6	ug/L
⌈	As	75	980.524	0.002	**2.898144**	0.63	21.7	ug/L
|	Se	77	2830.521	0.001	**6.962380**	5.13	73.7	ug/L
|	Se	82	24.745	0.000	**0.461822**	0.11	23.3	ug/L
|	Sr	88	1135989.732	1.747	**193.044658**	8.23	4.3	ug/L
| >	Y	89	650666.983	650666.983				ug/L
|	Mo	95	305.339	0.000	**0.133375**	0.01	7.8	ug/L
|	Mo	97	168.669	-0.000	**0.188708**	0.08	41.0	ug/L
⌊	Mo	98	425.647	0.000	**0.394770**	0.06	14.7	ug/L
⌈	Ag	107	26.000	0.000	**-0.436209**	0.01	1.9	ug/L
|	Ag	109	20.667	0.000	**-0.459181**	0.01	1.2	ug/L
|	Cd	111	12025.736	0.051	**32.243658**	3.50	10.8	ug/L
|	Cd	114	28172.293	0.119	**32.540773**	2.55	7.8	ug/L

|>	In	115	237132.833	237132.833				ug/L
|	Sn	120	819.148	-0.000	**0.049369**	0.01	28.9	ug/L
|	Sb	121	1438.802	0.004	**1.088934**	0.15	13.7	ug/L
|	Sb	123	1121.816	0.003	**1.157995**	0.11	9.5	ug/L
⌈	Ba	135	10023.210	0.024	**25.408449**	2.84	11.2	ug/L
|	Ba	137	17650.962	0.042	**25.364973**	3.04	12.0	ug/L
|	Tb	159	382147.102	-0.016				ug/L
|>	Ho	165	422105.488	422105.488				ug/L
|	Tl	203	990.730	0.002	**-0.153116**	0.04	23.1	ug/L
|	Tl	205	2357.028	0.005	**-0.073381**	0.03	40.4	ug/L
⌊	Pb	208	22693.120	0.054	**2.828378**	0.31	10.8	ug/L
	Kr	83	32.600	11.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.224	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		120.885	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.418	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	100.529
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020461-01E
Sample Date/Time: Tuesday, February 16, 2010 11:13:52
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020461-01E.029
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30141.893	0.015				ug/L
|	Li	7	5543.332	0.008	**3.587026**	0.29	8.0	ug/L
|	Be	9	12.000	0.000	**0.622662**	0.02	2.4	ug/L
|	B	11	2517.746	0.006	**8.927012**	0.44	4.9	ug/L
|	Na	23	15077698.646	43.992	**27291.647226**	1183.11	4.3	ug/L
|	Mg	24	3099215.304	9.038	**7776.003854**	96.25	1.2	ug/L
|	Al	27	34108.375	0.052	**27.842637**	6.94	24.9	ug/L
|	K	39	2838323.082	8.106	**2797.427519**	110.21	3.9	ug/L
|	Ca	43	80926.735	0.236	**15763.698526**	879.77	5.6	ug/L
| >	Sc	45	342480.294	342480.294				ug/L
|	Ti	49	708.700	0.001	**2.753373**	0.58	21.2	ug/L
|	Co	59	342.676	0.001	**0.600177**	0.11	18.9	ug/L
|	Ni	60	829.378	0.002	**2.041272**	0.10	4.9	ug/L
|	Ni	62	160.002	0.000	**2.115162**	0.75	35.3	ug/L
|	Cu	63	2374.367	0.007	**2.341502**	0.17	7.1	ug/L
|	Cu	65	1161.421	0.003	**2.028621**	0.04	2.2	ug/L
|	Zn	66	33445.889	0.097	**109.170011**	1.35	1.2	ug/L
|	Zn	67	6633.526	0.017	**112.500500**	2.83	2.5	ug/L
|	Zn	68	24306.358	0.071	**109.485346**	1.48	1.4	ug/L
|	V	51	3717.242	0.012	**2.172940**	0.36	16.6	ug/L
|	Cr	52	14223.138	0.033	**6.597107**	0.08	1.1	ug/L
|	Cr	53	16879.834	0.013	**12.768546**	1.44	11.3	ug/L
|	Mn	55	83148.774	0.243	**27.777414**	8.46	30.4	ug/L
|	Fe	54	22578.844	0.025	**61.938841**	8.77	14.2	ug/L
⌊	Fe	57	2810.514	0.004	**31.984233**	2.92	9.1	ug/L
⌈	As	75	-485.983	-0.000	**-0.872486**	0.20	23.1	ug/L
|	Se	77	2402.375	0.001	**18.288174**	1.95	10.7	ug/L
|	Se	82	1.177	-0.000	**-0.078358**	0.07	87.1	ug/L
|	Sr	88	371710.878	0.765	**84.640518**	5.09	6.0	ug/L
| >	Y	89	486217.319	486217.319				ug/L
|	Mo	95	212.003	0.000	**0.101794**	0.03	28.0	ug/L
|	Mo	97	131.334	0.000	**0.204060**	0.03	16.5	ug/L
⌊	Mo	98	321.861	0.000	**0.398404**	0.03	8.4	ug/L
⌈	Ag	107	13.333	0.000	**-0.443988**	0.00	0.2	ug/L
|	Ag	109	5.333	-0.000	**-0.469244**	0.00	0.2	ug/L
|	Cd	111	15.333	0.000	**-0.067901**	0.03	48.9	ug/L
|	Cd	114	33.198	0.000	**-0.058565**	0.04	73.9	ug/L

|>	In	115	229272.389	229272.389				ug/L
|	Sn	120	607.179	-0.001	**-0.064770**	0.01	16.7	ug/L
|	Sb	121	438.012	0.000	**0.274733**	0.02	8.9	ug/L
_	Sb	123	350.912	-0.000	**0.350060**	0.01	2.2	ug/L
⌈	Ba	135	16885.858	0.043	**45.113001**	2.14	4.7	ug/L
|	Ba	137	29964.986	0.076	**45.331771**	2.29	5.1	ug/L
|	Tb	159	360181.150	-0.013				ug/L
|>	Ho	165	396602.711	396602.711				ug/L
|	Tl	203	36.000	0.000	**-0.645645**	0.01	1.5	ug/L
|	Tl	205	74.667	0.000	**-0.569400**	0.00	0.8	ug/L
_	Pb	208	490.006	0.001	**-0.729578**	0.01	1.4	ug/L
	Kr	83	20.000	-0.667				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.371	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.333	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		89.355	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.455
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020461-02E
Sample Date/Time: Tuesday, February 16, 2010 11:16:33
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020461-02E.030
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30289.903	0.013				ug/L
|	Li	7	7776.598	0.014	**5.885132**	0.24	4.0	ug/L
|	Be	9	202.669	0.001	**1.501636**	0.07	4.8	ug/L
|	B	11	1909.571	0.004	**6.377838**	0.54	8.5	ug/L
|	Na	23	7827176.732	22.364	**13882.687130**	117.41	0.8	ug/L
|	Mg	24	1760676.600	5.031	**4333.197517**	47.45	1.1	ug/L
|	Al	27	221092.532	0.585	**169.464214**	5.47	3.2	ug/L
|	K	39	6458890.317	18.317	**6310.004942**	133.23	2.1	ug/L
|	Ca	43	12869.437	0.036	**2426.958080**	114.43	4.7	ug/L
| >	Sc	45	349086.583	349086.583				ug/L
|	Ti	49	635.360	0.001	**2.072785**	0.67	32.3	ug/L
|	Co	59	33316.031	0.095	**16.546422**	0.54	3.3	ug/L
|	Ni	60	1416.131	0.004	**3.447395**	0.26	7.4	ug/L
|	Ni	62	265.338	0.001	**3.759421**	0.27	7.2	ug/L
|	Cu	63	925.389	0.002	**0.826961**	0.02	2.8	ug/L
|	Cu	65	461.347	0.001	**0.484619**	0.05	10.7	ug/L
|	Zn	66	7234.072	0.020	**23.234410**	1.18	5.1	ug/L
|	Zn	67	4454.623	0.010	**65.711585**	1.65	2.5	ug/L
|	Zn	68	11507.275	0.033	**50.626445**	1.98	3.9	ug/L
|	V	51	295.514	0.002	**0.430979**	0.45	105.4	ug/L
|	Cr	52	4142.449	0.003	**0.409132**	0.04	10.6	ug/L
|	Cr	53	15901.753	0.009	**6.049887**	1.20	19.9	ug/L
|	Mn	55	5766875.820	16.520	**1907.012210**	51.72	2.7	ug/L
|	Fe	54	20716.583	0.018	**46.397513**	1.37	3.0	ug/L
⌊	Fe	57	2091.618	0.002	**19.585452**	1.83	9.3	ug/L
⌈	As	75	-499.059	-0.000	**-0.679625**	0.19	28.5	ug/L
|	Se	77	2346.358	0.000	**2.311180**	2.03	87.9	ug/L
|	Se	82	6.823	0.000	**0.067514**	0.06	82.8	ug/L
|	Sr	88	195594.674	0.343	**38.002092**	2.04	5.4	ug/L
| >	Y	89	570661.947	570661.947				ug/L
|	Mo	95	31.333	-0.000	**-0.252852**	0.00	0.9	ug/L
|	Mo	97	17.333	-0.000	**-0.155117**	0.02	14.4	ug/L
⌊	Mo	98	42.968	-0.001	**0.055401**	0.02	30.5	ug/L
⌈	Ag	107	24.000	0.000	**-0.437246**	0.01	1.4	ug/L
|	Ag	109	18.667	0.000	**-0.460158**	0.01	2.3	ug/L
|	Cd	111	56.334	0.000	**0.043460**	0.02	53.0	ug/L
|	Cd	114	137.764	0.001	**0.063857**	0.04	55.6	ug/L

|>	In	115	233134.378	233134.378				ug/L
|	Sn	120	649.883	-0.001	**-0.045224**	0.01	24.0	ug/L
|	Sb	121	317.340	-0.001	**0.168091**	0.03	16.3	ug/L
|	Sb	123	282.579	-0.000	**0.270734**	0.03	10.8	ug/L
|	Ba	135	585021.005	1.437	**1508.555933**	97.62	6.5	ug/L
|	Ba	137	1043259.569	2.563	**1522.530484**	97.51	6.4	ug/L
|	Tb	159	367451.572	-0.019				ug/L
|>	Ho	165	407353.577	407353.577				ug/L
|	Tl	203	317.340	0.001	**-0.495627**	0.01	3.0	ug/L
|	Tl	205	801.375	0.002	**-0.406145**	0.01	2.7	ug/L
|	Pb	208	1542.728	0.004	**-0.557481**	0.01	1.6	ug/L
	Kr	83	22.600	1.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.172	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		106.021	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.860	
Sn	120			
Sb	121			

;b	123	
;a	135	
;a	137	
;b	159	
lo	165	97.016
;l	203	
;l	205	
;b	208	
;r	83	

Quantitative Analysis - Summary Report

Sample ID: 10020461-03E
Sample Date/Time: Tuesday, February 16, 2010 11:19:14
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020461-03E.031
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31655.893	0.015				ug/L
|	Li	7	5436.587	0.007	**3.225332**	0.12	3.8	ug/L
|	Be	9	10.000	0.000	**0.611538**	0.01	1.5	ug/L
|	B	11	2109.623	0.004	**6.970367**	0.42	6.0	ug/L
|	Na	23	3738402.092	10.418	**6476.274044**	105.69	1.6	ug/L
|	Mg	24	3097251.538	8.666	**7456.859581**	142.30	1.9	ug/L
|	Al	27	22280.559	0.014	**17.894569**	0.23	1.3	ug/L
|	K	39	2139783.446	5.811	**2007.891088**	79.98	4.0	ug/L
|	Ca	43	68264.312	0.191	**12747.673540**	276.74	2.2	ug/L
| >	Sc	45	356896.320	356896.320				ug/L
|	Ti	49	774.706	0.001	**3.029765**	0.62	20.6	ug/L
|	Co	59	2596.439	0.007	**1.657992**	0.05	3.3	ug/L
|	Ni	60	1152.086	0.003	**2.734016**	0.16	5.9	ug/L
|	Ni	62	186.669	0.000	**2.419259**	0.29	12.0	ug/L
|	Cu	63	4617.386	0.013	**4.459894**	0.03	0.6	ug/L
|	Cu	65	2230.991	0.006	**4.163053**	0.27	6.4	ug/L
|	Zn	66	5529.990	0.015	**17.389190**	0.60	3.4	ug/L
|	Zn	67	2457.726	0.004	**24.163301**	1.22	5.1	ug/L
|	Zn	68	4082.417	0.011	**17.285287**	0.71	4.1	ug/L
|	V	51	1865.234	0.006	**1.193806**	0.14	11.9	ug/L
|	Cr	52	10403.031	0.021	**4.013852**	0.08	1.9	ug/L
|	Cr	53	18164.095	0.015	**15.659513**	3.17	20.2	ug/L
|	Mn	55	1472881.544	4.126	**476.140022**	7.41	1.6	ug/L
|	Fe	54	28577.124	0.039	**95.049602**	6.15	6.5	ug/L
⌊	Fe	57	5279.146	0.011	**68.711359**	2.06	3.0	ug/L
⌜	As	75	-633.330	-0.001	**-1.277588**	0.38	30.1	ug/L
|	Se	77	2649.123	0.002	**25.641126**	1.91	7.4	ug/L
|	Se	82	6.651	0.000	**0.087764**	0.15	175.1	ug/L
|	Sr	88	219638.285	0.441	**48.868477**	0.45	0.9	ug/L
| >	Y	89	497491.335	497491.335				ug/L
|	Mo	95	110.001	-0.000	**-0.098106**	0.02	22.2	ug/L
|	Mo	97	62.000	-0.000	**-0.014166**	0.05	350.7	ug/L
⌊	Mo	98	145.928	-0.000	**0.182639**	0.00	2.7	ug/L
⌜	Ag	107	10.000	0.000	**-0.446500**	0.00	0.3	ug/L
|	Ag	109	4.667	-0.000	**-0.469864**	0.00	0.2	ug/L
|	Cd	111	39.000	0.000	**-0.007386**	0.02	238.5	ug/L
|	Cd	114	94.521	0.000	**0.009246**	0.00	44.4	ug/L

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| >	In	115	240713.940	240713.940				ug/L
|	Sn	120	687.904	-0.001	**-0.034796**	0.03	87.3	ug/L
|	Sb	121	314.673	-0.001	**0.157413**	0.03	20.0	ug/L
|	Sb	123	277.413	-0.000	**0.255022**	0.02	9.2	ug/L
⌈	Ba	135	14058.173	0.033	**35.550357**	1.56	4.4	ug/L
|	Ba	137	24674.853	0.059	**35.347482**	1.33	3.8	ug/L
|	Tb	159	380695.446	-0.015				ug/L
| >	Ho	165	419850.805	419850.805				ug/L
|	Tl	203	28.000	0.000	**-0.651108**	0.00	0.5	ug/L
|	Tl	205	62.667	0.000	**-0.572987**	0.01	0.9	ug/L
⌊	Pb	208	1452.055	0.003	**-0.579598**	0.01	1.1	ug/L
	Kr	83	19.067	-1.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
Si	39			
Ca	43			
Sc	45		97.301	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		92.427	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		93.814	
Sn	120			
Sb	121			

00674

;b	123	
}a	135	
}a	137	
`b	159	
Ho	165	99.992
`l	203	
`l	205	
²b	208	
{r	83	

Quantitative Analysis - Summary Report

Sample ID: 10020461-04E
Sample Date/Time: Tuesday, February 16, 2010 11:21:55
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020461-04E.032
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31933.309	0.016				ug/L
|	Li	7	4756.807	0.005	**2.503154**	0.20	8.0	ug/L
|	Be	9	10.667	0.000	**0.613950**	0.02	3.0	ug/L
|	B	11	2444.390	0.005	**8.266808**	1.00	12.1	ug/L
|	Na	23	2249136.278	6.249	**3892.130507**	174.93	4.5	ug/L
|	Mg	24	3224307.190	9.033	**7771.597514**	459.68	5.9	ug/L
|	Al	27	38424.155	0.060	**29.961182**	2.34	7.8	ug/L
|	K	39	1442386.274	3.860	**1336.963854**	65.79	4.9	ug/L
|	Ca	43	50171.346	0.140	**9381.207889**	870.38	9.3	ug/L
| >	Sc	45	357049.229	357049.229				ug/L
|	Ti	49	883.384	0.001	**3.872964**	0.63	16.2	ug/L
|	Co	59	274.672	0.001	**0.559908**	0.01	1.8	ug/L
|	Ni	60	754.037	0.002	**1.778915**	0.19	10.5	ug/L
|	Ni	62	160.002	0.000	**2.010446**	0.53	26.3	ug/L
|	Cu	63	6181.151	0.017	**6.019562**	0.48	8.0	ug/L
|	Cu	65	2988.584	0.008	**5.767189**	0.88	15.3	ug/L
|	Zn	66	6211.842	0.017	**19.548969**	1.11	5.7	ug/L
|	Zn	67	2885.876	0.005	**32.803922**	6.08	18.5	ug/L
|	Zn	68	4761.477	0.013	**20.290933**	2.25	11.1	ug/L
|	V	51	1737.211	0.006	**1.121585**	0.35	31.3	ug/L
|	Cr	52	12881.444	0.028	**5.470393**	0.38	6.9	ug/L
|	Cr	53	18958.690	0.017	**19.802144**	7.27	36.7	ug/L
|	Mn	55	29004.626	0.080	**9.043646**	0.69	7.6	ug/L
|	Fe	54	26546.063	0.033	**81.822305**	7.91	9.7	ug/L
⌊	Fe	57	2283.673	0.002	**21.913114**	2.82	12.9	ug/L
⌈	As	75	-520.491	-0.000	**-0.996800**	0.69	68.8	ug/L
|	Se	77	2668.464	0.002	**28.267503**	11.69	41.3	ug/L
|	Se	82	7.259	0.000	**0.106046**	0.19	181.6	ug/L
|	Sr	88	98970.711	0.203	**22.521344**	2.77	12.3	ug/L
| >	Y	89	491422.742	491422.742				ug/L
|	Mo	95	23.333	-0.000	**-0.260328**	0.01	3.8	ug/L
|	Mo	97	12.667	-0.000	**-0.161337**	0.01	6.5	ug/L
⌊	Mo	98	47.416	-0.001	**0.067510**	0.00	2.8	ug/L
⌈	Ag	107	6.667	0.000	**-0.448403**	0.00	0.5	ug/L
|	Ag	109	2.667	-0.000	**-0.471167**	0.00	0.1	ug/L
|	Cd	111	16.667	0.000	**-0.065060**	0.01	18.3	ug/L
|	Cd	114	30.326	0.000	**-0.063134**	0.01	10.8	ug/L

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|>	In	115	235128.420	235128.420				ug/L
|	Sn	120	685.980	-0.001	**-0.027455**	0.03	105.9	ug/L
|	Sb	121	341.341	-0.000	**0.186977**	0.05	26.8	ug/L
L	Sb	123	312.170	-0.000	**0.299922**	0.03	11.4	ug/L
Γ	Ba	135	18780.931	0.045	**48.155918**	3.81	7.9	ug/L
|	Ba	137	33593.991	0.081	**48.784973**	4.10	8.4	ug/L
|	Tb	159	372416.434	-0.021				ug/L
|>	Ho	165	413363.112	413363.112				ug/L
|	Tl	203	22.000	0.000	**-0.654037**	0.00	0.2	ug/L
|	Tl	205	44.000	0.000	**-0.576895**	0.00	0.6	ug/L
L	Pb	208	1498.724	0.003	**-0.568253**	0.01	1.7	ug/L
	Kr	83	18.067	-2.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.343	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.300	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.637	
Sn	120			
Sb	121			

00677

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.447
Tl	203	
Tl	205	
Pb	208	
Cr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20B
Sample Date/Time: Tuesday, February 16, 2010 11:27:56
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20B.033
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28834.781	0.010				ug/L
|	Li	7	24157.875	0.061	**118.403119**	1.70	1.4	ug/L
|	Be	9	366.009	0.001	**11.292911**	0.34	3.0	ug/L
|	B	11	4984.282	0.013	**91.719427**	2.90	3.2	ug/L
|	Na	23	35060612.963	100.622	**312007.192133**	10843.57	3.5	ug/L
|	Mg	24	10097487.753	28.986	**124580.805781**	2115.25	1.7	ug/L
|	Al	27	143714.421	0.364	**554.397629**	17.83	3.2	ug/L
|	K	39	1026767.968	2.765	**4800.177534**	368.55	7.7	ug/L
|	Ca	43	167934.489	0.482	**160974.397905**	4564.21	2.8	ug/L
| >	Sc	45	348227.400	348227.400				ug/L
|	Ti	49	626.025	0.001	**10.054097**	0.50	4.9	ug/L
|	Co	59	24948.407	0.071	**62.643194**	1.79	2.9	ug/L
|	Ni	60	5439.259	0.016	**66.978962**	3.80	5.7	ug/L
|	Ni	62	865.382	0.002	**67.462332**	2.49	3.7	ug/L
|	Cu	63	560.687	0.001	**2.296138**	0.24	10.7	ug/L
|	Cu	65	272.005	0.001	**0.406212**	0.29	71.2	ug/L
|	Zn	66	5271.141	0.015	**84.997439**	4.15	4.9	ug/L
|	Zn	67	1997.594	0.003	**80.025511**	13.73	17.2	ug/L
|	Zn	68	3716.898	0.010	**80.510697**	2.94	3.7	ug/L
|	V	51	-8.780	0.001	**1.374257**	2.44	177.4	ug/L
|	Cr	52	3233.346	0.001	**-0.645895**	0.16	24.1	ug/L
|	Cr	53	14294.611	0.005	**-10.170086**	12.42	122.1	ug/L
|	Mn	55	1132264.921	3.251	**1875.614239**	71.38	3.8	ug/L
|	Fe	54	341982.877	0.941	**11054.652767**	252.25	2.3	ug/L
⌊	Fe	57	141056.430	0.401	**11244.504237**	444.43	4.0	ug/L
⌈	As	75	-397.063	-0.000	**-2.081028**	0.80	38.5	ug/L
|	Se	77	2273.670	0.000	**0.855328**	14.58	1704.7	ug/L
|	Se	82	7.603	0.000	**0.441226**	0.26	58.1	ug/L
|	Sr	88	1413198.571	2.487	**1373.769312**	13.89	1.0	ug/L
| >	Y	89	568179.816	568179.816				ug/L
|	Mo	95	60.000	-0.000	**-1.028487**	0.11	10.6	ug/L
|	Mo	97	50.667	-0.000	**-0.336856**	0.25	74.5	ug/L
⌊	Mo	98	122.823	-0.000	**0.687487**	0.01	2.1	ug/L
⌈	Ag	107	11.333	0.000	**-2.227777**	0.03	1.1	ug/L
|	Ag	109	2.000	-0.000	**-2.357887**	0.01	0.3	ug/L
|	Cd	111	12.667	0.000	**-0.382204**	0.04	10.9	ug/L
|	Cd	114	19.999	0.000	**-0.375408**	0.01	3.8	ug/L

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|>	In	115	236194.645	236194.645				ug/L
|	Sn	120	611.957	-0.001	**-0.366008**	0.12	33.4	ug/L
|	Sb	121	283.339	-0.001	**0.680869**	0.13	19.2	ug/L
L	Sb	123	241.999	-0.001	**1.113176**	0.14	12.9	ug/L
⌈	Ba	135	3105.294	0.008	**42.039490**	1.16	2.8	ug/L
|	Ba	137	5642.069	0.014	**43.367895**	0.73	1.7	ug/L
|	Tb	159	370615.946	-0.010				ug/L
|>	Ho	165	406625.834	406625.834				ug/L
|	Tl	203	13.333	0.000	**-3.292438**	0.01	0.3	ug/L
|	Tl	205	29.333	-0.000	**-2.900434**	0.01	0.2	ug/L
L	Pb	208	172.667	0.000	**-3.923115**	0.03	0.7	ug/L
	Kr	83	25.133	4.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.938	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		105.560	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.053	
Sn	120			
Sb	121			

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Sample ID: 10020428-20B
Report Date/Time: Tuesday, February 16, 2010 11:29:54

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.842
Tl	203	
Tl	205	
Pb	208	
Cr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Tuesday, February 16, 2010 11:30:55
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 4.034
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24597.621	-0.002				ug/L
|	Li	7	107163.577	0.302	**114.717024**	3.27	2.9	ug/L
|	Be	9	23206.291	0.067	**108.786077**	2.20	2.0	ug/L
|	B	11	28364.296	0.081	**110.146497**	6.23	5.7	ug/L
|	Na	23	3022145.712	8.693	**5406.978853**	99.79	1.8	ug/L
|	Mg	24	2201577.922	6.362	**5477.230734**	225.19	4.1	ug/L
|	Al	27	6972039.187	20.141	**5360.859770**	69.31	1.3	ug/L
|	K	39	6029962.471	17.276	**5951.988623**	249.27	4.2	ug/L
|	Ca	43	25622.656	0.074	**4922.610129**	236.36	4.8	ug/L
| >	Sc	45	345324.128	345324.128				ug/L
|	Ti	49	12453.410	0.035	**95.410991**	2.21	2.3	ug/L
|	Co	59	196016.032	0.567	**96.273983**	1.96	2.0	ug/L
|	Ni	60	38153.732	0.110	**94.979086**	1.07	1.1	ug/L
|	Ni	62	5907.602	0.017	**95.994580**	1.41	1.5	ug/L
|	Cu	63	92671.650	0.268	**94.676462**	1.75	1.8	ug/L
|	Cu	65	44334.079	0.128	**95.255193**	1.77	1.9	ug/L
|	Zn	66	29302.376	0.084	**94.852379**	0.76	0.8	ug/L
|	Zn	67	6034.367	0.015	**99.051200**	3.14	3.2	ug/L
|	Zn	68	21608.983	0.062	**96.485864**	1.90	2.0	ug/L
|	V	51	193033.221	0.560	**97.913630**	3.73	3.8	ug/L
|	Cr	52	165034.698	0.469	**97.615969**	1.95	2.0	ug/L
|	Cr	53	32392.059	0.058	**92.680520**	1.65	1.8	ug/L
|	Mn	55	295524.477	0.855	**98.443418**	0.92	0.9	ug/L
|	Fe	54	733046.632	2.082	**4886.253186**	34.41	0.7	ug/L
⌊	Fe	57	302488.829	0.872	**4878.219944**	42.92	0.9	ug/L
⌈	As	75	32533.239	0.066	**99.143521**	0.96	1.0	ug/L
|	Se	77	14556.427	0.026	**485.918894**	11.58	2.4	ug/L
|	Se	82	16694.510	0.034	**509.555727**	12.87	2.5	ug/L
|	Sr	88	443103.248	0.890	**98.410538**	3.09	3.1	ug/L
| >	Y	89	497929.077	497929.077				ug/L
|	Mo	95	52219.323	0.104	**97.474558**	2.46	2.5	ug/L
|	Mo	97	32282.267	0.065	**96.742657**	2.45	2.5	ug/L
⌊	Mo	98	82910.148	0.166	**97.482592**	2.20	2.3	ug/L
⌈	Ag	107	151745.684	0.641	**95.572836**	2.64	2.8	ug/L
|	Ag	109	147600.070	0.623	**97.619425**	2.19	2.2	ug/L
|	Cd	111	37189.705	0.157	**99.622118**	2.84	2.9	ug/L
|	Cd	114	86858.578	0.367	**100.340650**	3.03	3.0	ug/L

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|>	In	115	236816.635	236816.635				ug/L
|	Sn	120	162956.744	0.685	**97.620421**	1.12	1.2	ug/L
|	Sb	121	118126.791	0.497	**97.022897**	1.88	1.9	ug/L
_	Sb	123	91610.910	0.385	**97.097007**	2.17	2.2	ug/L
⌈	Ba	135	36811.893	0.091	**95.569382**	1.84	1.9	ug/L
|	Ba	137	65151.711	0.160	**95.750916**	3.48	3.6	ug/L
|	Tb	159	367982.664	-0.015				ug/L
|>	Ho	165	405814.395	405814.395				ug/L
|	Tl	203	181076.812	0.446	**96.558876**	1.06	1.1	ug/L
|	Tl	205	429799.522	1.059	**96.589979**	0.44	0.5	ug/L
_	Pb	208	582509.386	1.435	**96.148751**	1.04	1.1	ug/L
	Kr	83	21.467	0.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	114.717		
Be	9	108.786		
B	11	110.146		
Na	23	108.140		
Mg	24	109.545		
Al	27	105.115		
K	39	119.040		
Ca	43	98.452		
Sc	45		94.146	
Ti	49	95.411		
Co	59	96.274		
Ni	60	94.979		
Ni	62	95.995		
Cu	63	94.676		
Cu	65	95.255		
Zn	66	94.852		
Zn	67	99.051		
Zn	68	96.486		
V	51	97.914		
Cr	52	97.616		
Cr	53	92.681		
Mn	55	98.443		
Fe	54	97.725		
Fe	57	97.564		
As	75	99.144		
Se	77	97.184		
Se	82	101.911		
Sr	88	98.411		
Y	89		92.509	
Mo	95	97.475		
Mo	97	96.743		
Mo	98	97.483		
Ag	107	95.573		
Ag	109	97.619		
Cd	111	99.622		
Cd	114	100.341		
In	115		92.295	
Sn	120	97.620		
Sb	121	97.023		

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Sb	123	97.097	
Ba	135	95.569	
Ba	137	95.751	
Tb	159		
Ho	165		96.649
Tl	203	96.559	
Tl	205	96.590	
Pb	208	96.149	
Cr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Tuesday, February 16, 2010 11:34:17
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 5.035
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28954.617	0.010				ug/L
|	Li	7	5293.822	0.007	**3.235860**	0.23	7.1	ug/L
|	Be	9	447.346	0.001	**2.645208**	0.19	7.2	ug/L
|	B	11	6433.357	0.017	**24.072381**	0.86	3.6	ug/L
|	Na	23	69142.826	0.141	**104.949126**	5.46	5.2	ug/L
|	Mg	24	24104.426	0.056	**58.947593**	3.15	5.3	ug/L
|	Al	27	69010.440	0.151	**54.169660**	3.76	6.9	ug/L
|	K	39	136976.873	0.210	**81.167767**	5.82	7.2	ug/L
|	Ca	43	1224.098	0.003	**198.582940**	15.02	7.6	ug/L
| >	Sc	45	346987.481	346987.481				ug/L
|	Ti	49	960.060	0.002	**4.655675**	0.22	4.7	ug/L
|	Co	59	4074.412	0.012	**2.412813**	0.01	0.6	ug/L
|	Ni	60	843.380	0.002	**2.047713**	0.01	0.5	ug/L
|	Ni	62	170.669	0.000	**2.238633**	0.40	17.7	ug/L
|	Cu	63	1996.926	0.005	**1.923874**	0.10	5.1	ug/L
|	Cu	65	961.394	0.003	**1.565974**	0.12	7.4	ug/L
|	Zn	66	1968.252	0.005	**6.422871**	0.11	1.7	ug/L
|	Zn	67	1494.812	0.002	**5.932814**	1.11	18.8	ug/L
|	Zn	68	1540.154	0.004	**6.442543**	0.04	0.7	ug/L
|	V	51	20757.296	0.061	**10.737101**	0.45	4.2	ug/L
|	Cr	52	9858.314	0.020	**3.862042**	0.16	4.0	ug/L
|	Cr	53	14860.345	0.007	**1.193894**	3.03	254.0	ug/L
|	Mn	55	6872.403	0.019	**1.933743**	0.10	5.0	ug/L
|	Fe	54	27150.566	0.037	**90.754363**	2.41	2.7	ug/L
⌊	Fe	57	6997.849	0.016	**98.776572**	2.51	2.5	ug/L
⌈	As	75	861.920	0.002	**3.245137**	0.31	9.7	ug/L
|	Se	77	1984.256	0.000	**0.007607**	4.94	64993.9	ug/L
|	Se	82	187.517	0.000	**5.615763**	0.25	4.5	ug/L
|	Sr	88	4889.555	0.010	**1.209045**	0.07	5.5	ug/L
| >	Y	89	497440.033	497440.033				ug/L
|	Mo	95	1125.416	0.002	**1.805236**	0.05	2.8	ug/L
|	Mo	97	768.038	0.001	**2.110810**	0.18	8.6	ug/L
⌊	Mo	98	1874.977	0.003	**2.218476**	0.10	4.6	ug/L
⌈	Ag	107	1606.835	0.007	**0.551605**	0.04	7.0	ug/L
|	Ag	109	1535.487	0.006	**0.535160**	0.06	10.8	ug/L
|	Cd	111	763.705	0.003	**1.911116**	0.01	0.7	ug/L
|	Cd	114	1777.843	0.007	**1.929537**	0.11	5.5	ug/L

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|>	In	115	239845.048	239845.048				ug/L
|	Sn	120	8241.612	0.031	**4.457888**	0.22	4.9	ug/L
|	Sb	121	7637.123	0.030	**6.103964**	0.21	3.5	ug/L
L	Sb	123	6035.692	0.024	**6.285532**	0.16	2.5	ug/L
⌈	Ba	135	1834.219	0.004	**5.166539**	0.29	5.6	ug/L
|	Ba	137	3327.387	0.008	**5.327856**	0.28	5.3	ug/L
|	Tb	159	368682.334	-0.009				ug/L
|>	Ho	165	404002.004	404002.004				ug/L
|	Tl	203	3992.370	0.010	**1.488835**	0.09	6.3	ug/L
|	Tl	205	9478.504	0.023	**1.568270**	0.10	6.4	ug/L
L	Pb	208	6304.355	0.015	**0.242272**	0.06	25.8	ug/L
	Kr	83	19.400	-1.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	161.793		
Be	9	132.260		
B	11	120.362		
Na	23	104.949		
Mg	24	117.895		
Al	27	108.339		
K	39	108.224		
Ca	43	99.291		
Sc	45		94.600	
Ti	49	93.113		
Co	59	120.641		
Ni	60	102.386		
Ni	62	111.932		
Cu	63	96.194		
Cu	65	78.299		
Zn	66	107.048		
Zn	67	98.880		
Zn	68	107.376		
V	51	107.371		
Cr	52	96.551		
Cr	53	29.847		
Mn	55	96.687		
Fe	54	90.754		
Fe	57	98.777		
As	75	81.128		
Se	77	0.152		
Se	82	112.315		
Sr	88	120.905		
Y	89		92.418	
Mo	95	90.262		
Mo	97	105.541		
Mo	98	110.924		
Ag	107	55.161		
Ag	109	53.516		
Cd	111	95.556		
Cd	114	96.477		
In	115		93.475	
Sn	120	111.447		
Sb	121	122.079		

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;b	123	125.711	
}a	135	103.331	
}a	137	106.557	
'b	159		
ło	165		96.217
'l	203	74.442	
'l	205	78.414	
'b	208	24.227	
;r	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Tuesday, February 16, 2010 11:40:14
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 6.036
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28271.547	0.009				ug/L
|	Li	7	3015.258	0.001	**0.776482**	0.09	12.1	ug/L
|	Be	9	4.000	-0.000	**0.585193**	0.01	1.7	ug/L
|	B	11	555.353	0.000	**1.155639**	0.08	6.7	ug/L
|	Na	23	11274.931	-0.026	**1.628354**	0.92	56.3	ug/L
|	Mg	24	300.006	-0.012	**-0.023795**	0.24	1001.6	ug/L
|	Al	27	738.369	-0.046	**1.890441**	0.06	3.1	ug/L
|	K	39	45266.663	-0.054	**-9.467420**	3.09	32.7	ug/L
|	Ca	43	144.001	-0.000	**-9.470654**	1.10	11.6	ug/L
| >	Sc	45	344408.033	344408.033				ug/L
|	Ti	49	392.677	-0.000	**0.217749**	0.01	5.1	ug/L
|	Co	59	42.667	-0.000	**0.450938**	0.01	2.3	ug/L
|	Ni	60	8.667	-0.000	**-0.021224**	0.01	52.9	ug/L
|	Ni	62	37.333	-0.000	**0.081537**	0.08	98.1	ug/L
|	Cu	63	161.335	0.000	**0.056132**	0.02	28.6	ug/L
|	Cu	65	78.667	0.000	**-0.330829**	0.02	5.4	ug/L
|	Zn	66	58.667	-0.000	**0.280053**	0.07	23.3	ug/L
|	Zn	67	1078.742	0.000	**-2.393088**	1.05	43.9	ug/L
|	Zn	68	117.334	-0.000	**0.096058**	0.10	102.6	ug/L
|	V	51	330.621	0.002	**0.448987**	0.03	6.1	ug/L
|	Cr	52	2944.564	0.000	**-0.282508**	0.03	10.9	ug/L
|	Cr	53	13790.353	0.004	**-3.823181**	2.57	67.2	ug/L
|	Mn	55	494.683	0.001	**-0.188632**	0.01	4.5	ug/L
|	Fe	54	12563.946	-0.005	**-7.240664**	1.74	24.1	ug/L
⌞	Fe	57	680.030	-0.002	**-2.866159**	0.64	22.3	ug/L
⌜	As	75	-345.795	-0.000	**-0.403019**	0.13	32.4	ug/L
|	Se	77	1887.565	0.000	**-4.120355**	3.60	87.3	ug/L
|	Se	82	2.315	-0.000	**-0.045096**	0.05	107.4	ug/L
|	Sr	88	138.668	0.000	**0.153277**	0.00	3.0	ug/L
| >	Y	89	499634.346	499634.346				ug/L
|	Mo	95	22.000	-0.000	**-0.263001**	0.01	5.0	ug/L
|	Mo	97	14.667	-0.000	**-0.156027**	0.02	13.9	ug/L
⌞	Mo	98	27.854	-0.001	**0.043725**	0.01	20.7	ug/L
⌜	Ag	107	12.667	0.000	**-0.444756**	0.00	0.6	ug/L
|	Ag	109	8.667	0.000	**-0.467186**	0.00	0.2	ug/L
|	Cd	111	4.167	-0.000	**-0.099422**	0.00	2.0	ug/L
|	Cd	114	6.175	0.000	**-0.091171**	0.00	1.2	ug/L

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| >	In	115	237650.015	237650.015				ug/L
|	Sn	120	677.971	-0.001	**-0.036103**	0.03	85.4	ug/L
|	Sb	121	654.695	0.001	**0.439298**	0.07	16.9	ug/L
|	Sb	123	498.095	0.000	**0.492231**	0.06	11.2	ug/L
|	Ba	135	10.667	-0.000	**0.426869**	0.01	1.9	ug/L
|	Ba	137	23.333	-0.000	**0.466844**	0.01	1.3	ug/L
|	Tb	159	371284.439	0.004				ug/L
| >	Ho	165	400997.238	400997.238				ug/L
|	Tl	203	26.667	0.000	**-0.651171**	0.00	0.5	ug/L
|	Tl	205	73.334	0.000	**-0.569945**	0.00	0.7	ug/L
|	Pb	208	82.000	-0.000	**-0.799497**	0.00	0.6	ug/L
	Kr	83	19.400	-1.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.896	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		92.825	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.620	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.502
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Tuesday, February 16, 2010 12:11:51
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\ICSA.037
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26740.801	0.004				ug/L
|	Li	7	3030.597	0.001	**0.766888**	0.11	14.3	ug/L
|	Be	9	7.333	0.000	**0.600503**	0.04	5.9	ug/L
|	B	11	843.380	0.001	**2.259630**	0.13	5.7	ug/L
|	Na	23	55265429.894	159.119	**98668.491223**	3381.09	3.4	ug/L
|	Mg	24	39463839.023	113.649	**97663.084558**	2328.52	2.4	ug/L
|	Al	27	125813394.590	362.307	**96194.049574**	2160.81	2.2	ug/L
|	K	39	91085313.920	262.146	**90188.672144**	1156.07	1.3	ug/L
|	Ca	43	507531.565	1.461	**97655.825265**	1723.84	1.8	ug/L
| >	Sc	45	347223.792	347223.792				ug/L
|	Ti	49	265041.588	0.762	**2077.877149**	24.64	1.2	ug/L
|	Co	59	3638.194	0.010	**2.199074**	0.01	0.7	ug/L
|	Ni	60	1172.756	0.003	**2.861727**	0.13	4.5	ug/L
|	Ni	62	736.035	0.002	**11.430798**	0.69	6.0	ug/L
|	Cu	63	2162.304	0.006	**2.090012**	0.04	1.7	ug/L
|	Cu	65	1325.448	0.004	**2.345712**	0.14	6.2	ug/L
|	Zn	66	1237.433	0.003	**4.068894**	0.21	5.2	ug/L
|	Zn	67	816.043	-0.000	**-7.935781**	0.94	11.8	ug/L
|	Zn	68	333.341	0.001	**1.053627**	0.22	20.6	ug/L
|	V	51	324.874	0.002	**0.443741**	0.43	96.2	ug/L
|	Cr	52	6433.409	0.010	**1.797384**	0.65	36.4	ug/L
|	Cr	53	9976.467	-0.007	**-24.153636**	1.34	5.5	ug/L
|	Mn	55	22338.398	0.063	**7.073116**	0.17	2.4	ug/L
|	Fe	54	14634876.428	42.110	**98772.523730**	2596.42	2.6	ug/L
⌊	Fe	57	6203672.889	17.863	**99774.466515**	1620.57	1.6	ug/L
⌈	As	75	-401.980	-0.000	**-0.605493**	0.60	99.9	ug/L
|	Se	77	2089.617	0.001	**5.175971**	3.01	58.2	ug/L
|	Se	82	-9.976	-0.000	**-0.424235**	0.16	37.1	ug/L
|	Sr	88	10867.676	0.022	**2.568447**	0.03	1.2	ug/L
| >	Y	89	490559.384	490559.384				ug/L
|	Mo	95	1099214.266	2.241	**2088.677981**	32.18	1.5	ug/L
|	Mo	97	669785.104	1.365	**2041.217980**	34.95	1.7	ug/L
⌊	Mo	98	1740624.621	3.548	**2076.854167**	29.82	1.4	ug/L
⌈	Ag	107	150.001	0.001	**-0.355930**	0.02	4.5	ug/L
|	Ag	109	123.334	0.001	**-0.389061**	0.01	3.8	ug/L
|	Cd	111	1000.565	0.004	**2.627809**	0.10	3.8	ug/L
|	Cd	114	1733.491	0.007	**1.947433**	0.08	4.1	ug/L

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|>	In	115	232027.842	232027.842				ug/L
|	Sn	120	803.983	0.000	**0.051674**	0.02	35.9	ug/L
|	Sb	121	567.354	0.001	**0.378415**	0.03	7.5	ug/L
|	Sb	123	492.095	0.001	**0.497484**	0.07	14.2	ug/L
|	Ba	135	599.357	0.002	**2.044763**	0.03	1.6	ug/L
|	Ba	137	1043.404	0.003	**2.053860**	0.05	2.4	ug/L
|	Tb	159	340774.092	-0.030				ug/L
|>	Ho	165	382059.494	382059.494				ug/L
|	Tl	203	261.338	0.001	**-0.516620**	0.02	4.6	ug/L
|	Tl	205	634.026	0.002	**-0.434462**	0.00	0.9	ug/L
|	Pb	208	1531.393	0.004	**-0.542547**	0.00	0.7	ug/L
	Kr	83	39.533	18.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.664	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.139	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.429	
Sn	120			
Sb	121			

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›b	123	
›a	135	
›a	137	
›b	159	
‡o	165	90.992
›l	203	
›l	205	
›b	208	
‹r	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Tuesday, February 16, 2010 12:14:32
Sample Type: Spike - 2 of 19
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\ICSAB.038
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26187.341	0.006				ug/L
|	Li	7	2933.227	0.001	**0.815898**	0.10	12.2	ug/L
|	Be	9	4.667	0.000	**0.589367**	0.02	2.7	ug/L
|	B	11	812.043	0.001	**2.291626**	0.04	1.6	ug/L
|	Na	23	55522369.763	167.850	**104081.741038**	8983.43	8.6	ug/L
|	Mg	24	39602088.141	119.718	**102877.765676**	7604.30	7.4	ug/L
|	Al	27	123990250.099	374.650	**99470.673250**	3976.25	4.0	ug/L
|	K	39	92535575.620	279.466	**96146.828308**	3846.11	4.0	ug/L
|	Ca	43	485440.670	1.466	**97970.693942**	1467.74	1.5	ug/L
| >	Sc	45	331131.511	331131.511				ug/L
|	Ti	49	254803.368	0.769	**2096.046584**	82.06	3.9	ug/L
|	Co	59	161880.271	0.489	**83.014051**	2.19	2.6	ug/L
|	Ni	60	30638.239	0.093	**79.567097**	2.29	2.9	ug/L
|	Ni	62	5139.053	0.015	**87.102845**	6.04	6.9	ug/L
|	Cu	63	71095.745	0.214	**75.751435**	1.84	2.4	ug/L
|	Cu	65	34329.809	0.104	**76.820161**	0.13	0.2	ug/L
|	Zn	66	11541.988	0.034	**39.023440**	0.43	1.1	ug/L
|	Zn	67	2755.161	0.006	**34.375491**	4.49	13.1	ug/L
|	Zn	68	7737.225	0.023	**35.756300**	0.65	1.8	ug/L
|	V	51	159388.627	0.482	**84.413428**	3.81	4.5	ug/L
|	Cr	52	137954.532	0.408	**84.893315**	3.94	4.6	ug/L
|	Cr	53	26069.448	0.043	**65.730079**	6.82	10.4	ug/L
|	Mn	55	256787.138	0.775	**89.225542**	2.84	3.2	ug/L
|	Fe	54	14097031.122	42.563	**99834.577052**	4309.21	4.3	ug/L
⌊	Fe	57	5861411.581	17.705	**98893.716289**	2592.99	2.6	ug/L
⌈	As	75	11314.388	0.025	**36.855283**	0.98	2.7	ug/L
|	Se	77	3095.957	0.003	**49.638505**	1.40	2.8	ug/L
|	Se	82	1229.062	0.003	**39.551218**	1.24	3.1	ug/L
|	Sr	88	10489.822	0.022	**2.582836**	0.13	5.1	ug/L
| >	Y	89	471014.469	471014.469				ug/L
|	Mo	95	1067658.740	2.267	**2113.128915**	81.23	3.8	ug/L
|	Mo	97	649433.885	1.379	**2061.508978**	79.13	3.8	ug/L
⌊	Mo	98	1673352.371	3.553	**2079.775224**	62.89	3.0	ug/L
⌈	Ag	107	28958.411	0.132	**19.356382**	0.46	2.4	ug/L
|	Ag	109	27232.795	0.124	**19.099807**	0.83	4.4	ug/L
|	Cd	111	14385.607	0.066	**41.603733**	1.51	3.6	ug/L
|	Cd	114	33159.642	0.151	**41.373135**	2.01	4.9	ug/L

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|>	In	115	219122.088	219122.088				ug/L
|	Sn	120	766.654	0.000	**0.056546**	0.03	48.7	ug/L
|	Sb	121	435.346	0.000	**0.289847**	0.04	12.3	ug/L
|	Sb	123	316.836	-0.000	**0.328331**	0.02	5.7	ug/L
|	Ba	135	551.353	0.001	**1.982264**	0.12	6.1	ug/L
|	Ba	137	961.394	0.003	**1.996999**	0.13	6.7	ug/L
|	Tb	159	325544.008	-0.031				ug/L
|>	Ho	165	365427.102	365427.102				ug/L
|	Tl	203	267.338	0.001	**-0.506125**	0.01	1.3	ug/L
|	Tl	205	637.360	0.002	**-0.426568**	0.01	1.4	ug/L
|	Pb	208	1466.056	0.004	**-0.541960**	0.02	3.3	ug/L
	Kr	83	39.533	18.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.277	
Ti	49			
Co	59			101.019
Ni	60			95.882
Ni	62			94.590
Cu	63			92.077
Cu	65			93.093
Zn	66			87.386
Zn	67			105.778
Zn	68			86.757
V	51			104.962
Cr	52			103.870
Cr	53			112.355
Mn	55			102.691
Fe	54			
Fe	57			
As	75			93.652
Se	77			111.156
Se	82			99.939
Sr	88			
Y	89		87.508	
Mo	95			
Mo	97			
Mo	98			
Ag	107			98.562
Ag	109			97.444
Cd	111			97.440
Cd	114			98.564
In	115		85.399	
Sn	120			
Sb	121			

00695

;b	123	
3a	135	
3a	137	
'b	159	
4o	165	87.030
'l	203	
'l	205	
>b	208	
(r	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-02A
Sample Date/Time: Tuesday, February 16, 2010 12:22:11
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-02A.039
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29518.264	0.006				ug/L
|	Li	7	46526.979	0.116	**221.826240**	3.65	1.6	ug/L
|	Be	9	1113.414	0.003	**26.730837**	2.13	8.0	ug/L
|	B	11	15461.564	0.040	**273.879045**	14.34	5.2	ug/L
|	Na	23	35761358.059	95.370	**295726.795647**	9223.26	3.1	ug/L
|	Mg	24	6809161.795	18.153	**78043.466647**	2244.21	2.9	ug/L
|	Al	27	55599747.697	148.321	**196941.609698**	7008.87	3.6	ug/L
|	K	39	1441543.800	3.661	**6342.381565**	189.32	3.0	ug/L
|	Ca	43	83710.637	0.223	**74451.255472**	2293.42	3.1	ug/L
|>	Sc	45	374851.465	374851.465				ug/L
|	Ti	49	1184.091	0.002	**28.628076**	2.40	8.4	ug/L
|	Co	59	70965.854	0.189	**162.008064**	2.70	1.7	ug/L
|	Ni	60	18049.828	0.048	**206.888286**	6.37	3.1	ug/L
|	Ni	62	2843.193	0.007	**211.367662**	11.19	5.3	ug/L
|	Cu	63	612.691	0.001	**2.340276**	0.11	4.9	ug/L
|	Cu	65	556.020	0.001	**3.023973**	0.17	5.5	ug/L
|	Zn	66	18827.017	0.050	**280.974674**	8.42	3.0	ug/L
|	Zn	67	4166.463	0.008	**270.596141**	22.15	8.2	ug/L
|	Zn	68	14991.936	0.040	**307.623275**	10.77	3.5	ug/L
|	V	51	50275.123	0.135	**118.555139**	2.70	2.3	ug/L
|	Cr	52	30037.199	0.072	**73.259359**	1.96	2.7	ug/L
|	Cr	53	15651.918	0.006	**-3.675245**	17.92	487.5	ug/L
|	Mn	55	2772623.824	7.398	**4269.119948**	118.76	2.8	ug/L
|	Fe	54	5876029.659	15.639	**183427.609232**	4867.85	2.7	ug/L
⌊	Fe	57	2433307.278	6.488	**181239.905233**	4442.89	2.5	ug/L
⌜	As	75	389.432	0.001	**6.429614**	0.56	8.8	ug/L
|	Se	77	2083.616	-0.001	**-162.765081**	16.65	10.2	ug/L
|	Se	82	25.691	0.000	**1.577724**	0.57	36.3	ug/L
|	Sr	88	776050.164	0.857	**473.568633**	10.05	2.1	ug/L
|>	Y	89	905972.721	905972.721				ug/L
|	Mo	95	686.699	0.000	**2.011510**	1.01	50.2	ug/L
|	Mo	97	418.679	0.000	**2.452489**	1.04	42.5	ug/L
⌊	Mo	98	1089.267	0.001	**3.574672**	0.86	24.1	ug/L
⌜	Ag	107	24.667	0.000	**-2.187338**	0.01	0.2	ug/L
|	Ag	109	7.333	0.000	**-2.341064**	0.01	0.6	ug/L
|	Cd	111	49.833	0.000	**0.102949**	0.08	78.9	ug/L
|	Cd	114	117.437	0.000	**0.171075**	0.13	78.3	ug/L

00697

|>	In	115	241955.478	241955.478				ug/L
|	Sn	120	712.606	-0.001	**-0.113061**	0.05	46.0	ug/L
|	Sb	121	336.674	-0.001	**0.867110**	0.05	6.3	ug/L
|	Sb	123	270.415	-0.000	**1.232959**	0.08	6.6	ug/L
|	Ba	135	1192.093	0.003	**16.375233**	0.96	5.8	ug/L
|	Ba	137	2130.296	0.005	**16.705884**	1.03	6.2	ug/L
|	Tb	159	389089.987	-0.026				ug/L
|>	Ho	165	434678.597	434678.597				ug/L
|	Tl	203	17.333	0.000	**-3.284838**	0.01	0.3	ug/L
|	Tl	205	42.667	-0.000	**-2.888559**	0.01	0.2	ug/L
|	Pb	208	2185.457	0.005	**-2.368593**	0.06	2.3	ug/L
	Kr	83	39.467	18.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		102.196	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		168.318	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		94.298	
Sn	120			
Sb	121			

00698

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	103.523
Tl	203	
Tl	205	
Pb	208	
Cr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-02A
Sample Date/Time: Tuesday, February 16, 2010 12:25:05
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-02A.040
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29317.426	0.011				ug/L
|	Li	7	11432.495	0.025	**245.431893**	5.99	2.4	ug/L
|	Be	9	212.670	0.001	**38.634111**	1.63	4.2	ug/L
|	B	11	3238.682	0.008	**287.542514**	5.36	1.9	ug/L
|	Na	23	6621858.670	18.873	**292963.655142**	772.93	0.3	ug/L
|	Mg	24	1250816.663	3.564	**76819.111612**	1574.40	2.0	ug/L
|	Al	27	10819285.108	30.888	**205347.892996**	5527.50	2.7	ug/L
|	K	39	326198.303	0.747	**6651.258094**	535.31	8.0	ug/L
|	Ca	43	15927.138	0.045	**75171.722499**	1429.93	1.9	ug/L
| >	Sc	45	349768.979	349768.979				ug/L
|	Ti	49	522.018	0.000	**29.536225**	6.84	23.2	ug/L
|	Co	59	13745.606	0.039	**176.697992**	5.25	3.0	ug/L
|	Ni	60	3491.459	0.010	**213.576208**	2.03	1.0	ug/L
|	Ni	62	606.691	0.002	**231.646714**	19.81	8.6	ug/L
|	Cu	63	143.335	0.000	**0.881708**	0.74	83.9	ug/L
|	Cu	65	138.668	0.000	**-5.116785**	1.70	33.2	ug/L
|	Zn	66	4345.227	0.012	**349.222133**	11.65	3.3	ug/L
|	Zn	67	1772.204	0.002	**282.584672**	43.76	15.5	ug/L
|	Zn	68	2932.559	0.008	**313.837534**	4.97	1.6	ug/L
|	V	51	9062.363	0.027	**120.268018**	8.15	6.8	ug/L
|	Cr	52	7924.750	0.014	**66.515048**	4.37	6.6	ug/L
|	Cr	53	12830.024	0.000	**-246.559265**	42.87	17.4	ug/L
|	Mn	55	512836.596	1.466	**4223.816835**	75.35	1.8	ug/L
|	Fe	54	1110160.220	3.134	**183855.184672**	4844.31	2.6	ug/L
⌞	Fe	57	456010.326	1.300	**181731.472533**	3858.00	2.1	ug/L
⌜	As	75	-208.408	0.000	**2.352240**	10.74	456.6	ug/L
|	Se	77	1821.549	-0.001	**-400.728385**	58.91	14.7	ug/L
|	Se	82	5.094	-0.000	**0.482589**	4.24	877.9	ug/L
|	Sr	88	145234.802	0.252	**698.473317**	25.68	3.7	ug/L
| >	Y	89	576433.354	576433.354				ug/L
|	Mo	95	111.334	-0.000	**-3.098883**	0.38	12.3	ug/L
|	Mo	97	65.334	-0.000	**-0.768505**	1.00	129.9	ug/L
⌞	Mo	98	166.303	-0.000	**4.497345**	0.42	9.4	ug/L
⌜	Ag	107	12.000	0.000	**-11.130370**	0.06	0.6	ug/L
|	Ag	109	4.667	-0.000	**-11.746565**	0.05	0.4	ug/L
|	Cd	111	9.167	0.000	**-2.155277**	0.05	2.1	ug/L
|	Cd	114	20.513	0.000	**-1.870927**	0.14	7.7	ug/L

00700

| >	In	115	239100.034	239100.034				ug/L
|	Sn	120	643.993	-0.001	**-1.466764**	0.39	26.9	ug/L
|	Sb	121	252.004	-0.001	**2.688940**	0.18	6.6	ug/L
|	Sb	123	242.335	-0.001	**5.502129**	0.11	1.9	ug/L
|	Ba	135	228.003	0.001	**24.593437**	0.27	1.1	ug/L
|	Ba	137	394.677	0.001	**25.134046**	0.49	1.9	ug/L
|	Tb	159	370550.445	-0.016				ug/L
| >	Ho	165	409018.409	409018.409				ug/L
|	Tl	203	6.667	-0.000	**-16.552541**	0.06	0.4	ug/L
|	Tl	205	8.667	-0.000	**-14.619398**	0.04	0.3	ug/L
|	Pb	208	454.672	0.001	**-18.454912**	0.09	0.5	ug/L
	Kr	83	22.067	1.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.358	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		107.094	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		93.185	
Sn	120			
Sb	121			

00701

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.412
Tl	203	
Tl	205	
Pb	208	
Cr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-13A
Sample Date/Time: Tuesday, February 16, 2010 12:32:01
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-13A.041
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30528.149	0.011				ug/L
|	Li	7	6329.273	0.009	**20.170962**	1.79	8.9	ug/L
|	Be	9	236.004	0.001	**8.045362**	0.17	2.1	ug/L
|	B	11	1305.445	0.002	**19.105253**	1.78	9.3	ug/L
|	Na	23	3028350.226	8.250	**25663.675723**	803.12	3.1	ug/L
|	Mg	24	969326.283	2.647	**11424.936880**	60.16	0.5	ug/L
|	Al	27	4271626.173	11.678	**15570.708292**	479.05	3.1	ug/L
|	K	39	171729.739	0.286	**537.544812**	28.61	5.3	ug/L
|	Ca	43	27303.065	0.074	**24854.964274**	761.48	3.1	ug/L
| >	Sc	45	364383.958	364383.958				ug/L
|	Ti	49	541.353	0.000	**5.803234**	2.15	37.0	ug/L
|	Co	59	32856.708	0.090	**78.296583**	2.50	3.2	ug/L
|	Ni	60	2050.273	0.006	**23.987184**	1.01	4.2	ug/L
|	Ni	62	317.340	0.001	**21.916633**	1.72	7.9	ug/L
|	Cu	63	2623.781	0.007	**12.173545**	0.69	5.7	ug/L
|	Cu	65	1285.441	0.003	**10.643131**	0.76	7.1	ug/L
|	Zn	66	4869.541	0.013	**75.082867**	1.65	2.2	ug/L
|	Zn	67	1845.556	0.002	**56.384919**	18.03	32.0	ug/L
|	Zn	68	3560.826	0.009	**73.534282**	4.50	6.1	ug/L
|	V	51	552.147	0.002	**2.734938**	0.83	30.4	ug/L
|	Cr	52	3071.280	-0.000	**-1.540445**	0.27	17.4	ug/L
|	Cr	53	13239.389	0.000	**-52.483542**	11.03	21.0	ug/L
|	Mn	55	1748416.993	4.798	**2768.649530**	71.53	2.6	ug/L
|	Fe	54	17352.390	0.006	**94.470494**	1.48	1.6	ug/L
⌊	Fe	57	2271.002	0.002	**104.602550**	4.08	3.9	ug/L
⌈	As	75	-323.603	0.000	**-1.118950**	3.16	282.0	ug/L
|	Se	77	1928.242	-0.000	**-60.730175**	21.26	35.0	ug/L
|	Se	82	11.547	0.000	**0.951839**	0.34	35.6	ug/L
|	Sr	88	160168.325	0.279	**154.731475**	8.43	5.4	ug/L
| >	Y	89	574424.158	574424.158				ug/L
|	Mo	95	43.333	-0.000	**-1.168067**	0.11	9.5	ug/L
|	Mo	97	37.333	-0.000	**-0.511304**	0.15	28.9	ug/L
⌊	Mo	98	77.261	-0.000	**0.449108**	0.03	6.0	ug/L
⌈	Ag	107	4.000	-0.000	**-2.251497**	0.01	0.3	ug/L
|	Ag	109	4.667	-0.000	**-2.349925**	0.01	0.4	ug/L
|	Cd	111	3049.438	0.012	**38.484585**	1.94	5.0	ug/L
|	Cd	114	7152.256	0.029	**38.961569**	0.76	1.9	ug/L

00703

|>	In	115	248257.965	248257.965				ug/L
|	Sn	120	690.604	-0.001	**-0.228106**	0.20	86.4	ug/L
|	Sb	121	325.340	-0.001	**0.792307**	0.23	29.0	ug/L
L	Sb	123	245.747	-0.001	**1.069847**	0.07	6.6	ug/L
Γ	Ba	135	1598.166	0.004	**22.037535**	1.05	4.7	ug/L
|	Ba	137	2863.866	0.007	**22.484962**	0.54	2.4	ug/L
|	Tb	159	379110.116	-0.015				ug/L
|>	Ho	165	418451.260	418451.260				ug/L
|	Tl	203	29.333	0.000	**-3.251779**	0.02	0.8	ug/L
|	Tl	205	75.334	0.000	**-2.851103**	0.01	0.3	ug/L
L	Pb	208	791.349	0.002	**-3.427654**	0.01	0.4	ug/L
	Kr	83	23.733	3.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.343	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		106.720	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.754	
Sn	120			
Sb	121			

00704

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	99.659
Tl	203	
Tl	205	
Pb	208	
Cr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20A
Sample Date/Time: Tuesday, February 16, 2010 12:34:41
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-20A.042
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29892.880	0.011				ug/L
|	Li	7	22478.798	0.055	**106.931447**	1.36	1.3	ug/L
|	Be	9	539.352	0.002	**15.060167**	0.40	2.7	ug/L
|	B	11	4654.075	0.012	**83.572683**	3.91	4.7	ug/L
|	Na	23	32701437.807	92.032	**285379.317369**	4565.84	1.6	ug/L
|	Mg	24	9008383.198	25.354	**108978.890044**	3370.63	3.1	ug/L
|	Al	27	340123.023	0.910	**1278.125290**	29.40	2.3	ug/L
|	K	39	942789.036	2.469	**4292.641099**	249.93	5.8	ug/L
|	Ca	43	152647.123	0.429	**143496.260840**	4862.34	3.4	ug/L
| >	Sc	45	355090.533	355090.533				ug/L
|	Ti	49	650.027	0.001	**10.500363**	0.34	3.3	ug/L
|	Co	59	22760.312	0.064	**56.273723**	2.14	3.8	ug/L
|	Ni	60	4898.227	0.014	**59.115237**	2.18	3.7	ug/L
|	Ni	62	773.372	0.002	**58.795245**	2.04	3.5	ug/L
|	Cu	63	592.690	0.001	**2.400987**	0.18	7.4	ug/L
|	Cu	65	289.339	0.001	**0.532554**	0.05	9.4	ug/L
|	Zn	66	5053.660	0.014	**79.923802**	1.47	1.8	ug/L
|	Zn	67	1920.241	0.003	**68.511978**	14.88	21.7	ug/L
|	Zn	68	3555.488	0.010	**75.380978**	1.30	1.7	ug/L
|	V	51	930.834	0.003	**3.703483**	1.51	40.8	ug/L
|	Cr	52	3282.701	0.001	**-0.690330**	0.24	34.8	ug/L
|	Cr	53	13449.083	0.002	**-38.719207**	5.10	13.2	ug/L
|	Mn	55	1040927.750	2.931	**1690.548042**	28.82	1.7	ug/L
|	Fe	54	1126338.521	3.131	**36737.786207**	502.38	1.4	ug/L
⌊	Fe	57	464745.543	1.305	**36482.305286**	590.83	1.6	ug/L
⌈	As	75	-242.482	0.000	**0.570352**	1.58	276.2	ug/L
|	Se	77	2303.011	-0.000	**-66.207116**	4.96	7.5	ug/L
|	Se	82	21.704	0.000	**1.790995**	0.24	13.3	ug/L
|	Sr	88	1290332.579	1.852	**1022.980584**	17.21	1.7	ug/L
| >	Y	89	696767.444	696767.444				ug/L
|	Mo	95	186.669	-0.000	**-0.271248**	0.08	29.6	ug/L
|	Mo	97	138.001	-0.000	**0.479962**	0.12	24.4	ug/L
⌊	Mo	98	313.267	-0.000	**1.369881**	0.13	9.7	ug/L
⌈	Ag	107	13.333	0.000	**-2.221622**	0.00	0.2	ug/L
|	Ag	109	3.333	-0.000	**-2.353648**	0.01	0.6	ug/L
|	Cd	111	13.333	0.000	**-0.374540**	0.05	14.0	ug/L
|	Cd	114	21.368	0.000	**-0.368355**	0.04	10.0	ug/L

00706

|>	In	115	237729.071	237729.071				ug/L
|	Sn	120	633.941	-0.001	**-0.312235**	0.09	30.2	ug/L
|	Sb	121	313.340	-0.001	**0.794902**	0.03	3.5	ug/L
L	Sb	123	238.498	-0.001	**1.087810**	0.03	3.1	ug/L
⌈	Ba	135	3129.970	0.007	**41.277990**	0.98	2.4	ug/L
|	Ba	137	5541.996	0.013	**41.527168**	0.39	0.9	ug/L
|	Tb	159	376933.443	-0.020				ug/L
|>	Ho	165	417942.256	417942.256				ug/L
|	Tl	203	7.333	-0.000	**-3.309149**	0.01	0.3	ug/L
|	Tl	205	22.000	-0.000	**-2.909479**	0.00	0.1	ug/L
L	Pb	208	1482.056	0.003	**-2.869165**	0.07	2.3	ug/L
	Kr	83	29.267	8.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.809	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		129.450	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.651	
Sn	120			
Sb	121			

00707

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	99.537
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-21A
Sample Date/Time: Tuesday, February 16, 2010 12:37:23
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-21A.043
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31072.859	0.009				ug/L
|	Li	7	25530.350	0.060	**22.961169**	1.85	8.0	ug/L
|	Be	9	456.014	0.001	**2.508482**	0.23	9.1	ug/L
|	B	11	11268.916	0.028	**39.258019**	1.77	4.5	ug/L
|	Na	23	8073349.944	21.308	**13228.437360**	1776.76	13.4	ug/L
|	Mg	24	2524224.656	6.665	**5737.692354**	779.11	13.6	ug/L
|	Al	27	8725314.436	23.019	**6124.753889**	455.75	7.4	ug/L
|	K	39	1989918.367	5.078	**1755.709206**	219.44	12.5	ug/L
|	Ca	43	73142.139	0.193	**12869.865451**	291.37	2.3	ug/L
| >	Sc	45	378969.932	378969.932				ug/L
|	Ti	49	1004.066	0.001	**4.336331**	0.78	18.0	ug/L
|	Co	59	19264.094	0.051	**9.020947**	0.34	3.7	ug/L
|	Ni	60	6730.276	0.018	**15.244335**	0.53	3.5	ug/L
|	Ni	62	1058.740	0.003	**15.253735**	0.82	5.4	ug/L
|	Cu	63	35827.242	0.094	**33.317236**	1.45	4.4	ug/L
|	Cu	65	17296.771	0.046	**33.596934**	2.29	6.8	ug/L
|	Zn	66	17593.434	0.046	**51.995071**	2.53	4.9	ug/L
|	Zn	67	4294.532	0.009	**55.664501**	2.50	4.5	ug/L
|	Zn	68	13151.240	0.034	**53.404509**	3.61	6.8	ug/L
|	V	51	5896.957	0.016	**2.994702**	0.65	21.7	ug/L
|	Cr	52	7282.114	0.011	**1.947671**	0.25	13.0	ug/L
|	Cr	53	15702.011	0.005	**-1.290926**	2.55	197.7	ug/L
|	Mn	55	968097.066	2.557	**294.987551**	17.69	6.0	ug/L
|	Fe	54	437587.634	1.115	**2619.183227**	149.58	5.7	ug/L
⌞	Fe	57	177103.062	0.464	**2599.780706**	151.48	5.8	ug/L
⌜	As	75	492.725	0.001	**1.802552**	0.25	13.6	ug/L
|	Se	77	2216.321	-0.000	**-9.781952**	5.63	57.6	ug/L
|	Se	82	22.327	0.000	**0.419211**	0.08	19.6	ug/L
|	Sr	88	312950.391	0.492	**54.470209**	2.82	5.2	ug/L
| >	Y	89	636261.945	636261.945				ug/L
|	Mo	95	68.667	-0.000	**-0.203462**	0.01	3.4	ug/L
|	Mo	97	30.667	-0.000	**-0.127940**	0.02	12.3	ug/L
⌞	Mo	98	89.708	-0.000	**0.093867**	0.02	22.2	ug/L
⌜	Ag	107	12.667	0.000	**-0.444985**	0.00	0.9	ug/L
|	Ag	109	8.667	0.000	**-0.467403**	0.00	0.4	ug/L
|	Cd	111	3730.905	0.015	**9.488109**	0.47	4.9	ug/L
|	Cd	114	8772.000	0.036	**9.636104**	0.63	6.5	ug/L

00709

|>	In	115	247080.801	247080.801				ug/L
|	Sn	120	727.899	-0.001	**-0.022529**	0.02	79.1	ug/L
|	Sb	121	41979.639	0.168	**33.026639**	2.10	6.4	ug/L
|	Sb	123	32538.010	0.130	**33.060128**	1.52	4.6	ug/L
|	Ba	135	24761.801	0.056	**59.526716**	3.02	5.1	ug/L
|	Ba	137	44196.607	0.100	**60.145977**	2.31	3.8	ug/L
|	Tb	159	395469.826	-0.022				ug/L
|>	Ho	165	439868.973	439868.973				ug/L
|	Tl	203	101.334	0.000	**-0.615381**	0.01	0.9	ug/L
|	Tl	205	209.336	0.000	**-0.543067**	0.00	0.6	ug/L
|	Pb	208	1434231.845	3.265	**219.740538**	13.53	6.2	ug/L
	Kr	83	26.400	5.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		103.319	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		118.209	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.295	
Sn	120			
Sb	121			

00710

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	104.760
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-22A
Sample Date/Time: Tuesday, February 16, 2010 12:40:04
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-22A.044
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28262.081	0.004				ug/L
|	Li	7	84183.722	0.222	**84.179000**	2.28	2.7	ug/L
|	Be	9	2248.329	0.006	**10.438403**	0.31	2.9	ug/L
|	B	11	9722.149	0.025	**34.854856**	1.95	5.6	ug/L
|	Na	23	46821451.489	127.613	**79135.304480**	2794.73	3.5	ug/L
|	Mg	24	13484591.134	36.757	**31593.981797**	1528.90	4.8	ug/L
|	Al	27	10339610.420	28.144	**7485.299795**	82.20	1.1	ug/L
|	K	39	2665595.803	7.082	**2445.375008**	101.19	4.1	ug/L
|	Ca	43	329331.902	0.897	**59981.495870**	1407.73	2.3	ug/L
| >	Sc	45	366785.323	366785.323				ug/L
|	Ti	49	1328.781	0.002	**6.984851**	0.20	2.8	ug/L
|	Co	59	82226.642	0.224	**38.291671**	1.28	3.4	ug/L
|	Ni	60	15899.757	0.043	**37.250038**	1.44	3.9	ug/L
|	Ni	62	2615.112	0.007	**39.714682**	2.13	5.4	ug/L
|	Cu	63	973.395	0.002	**0.827826**	0.02	2.6	ug/L
|	Cu	65	597.357	0.001	**0.713722**	0.03	4.6	ug/L
|	Zn	66	25772.441	0.070	**78.572061**	1.75	2.2	ug/L
|	Zn	67	5868.906	0.013	**88.626297**	2.30	2.6	ug/L
|	Zn	68	19103.699	0.052	**80.249533**	2.37	2.9	ug/L
|	V	51	60556.423	0.166	**29.118298**	0.27	0.9	ug/L
|	Cr	52	47869.825	0.122	**25.159590**	0.50	2.0	ug/L
|	Cr	53	21413.775	0.022	**29.106168**	3.52	12.1	ug/L
|	Mn	55	5181330.684	14.127	**1630.729484**	25.69	1.6	ug/L
|	Fe	54	3305681.722	8.973	**21050.262370**	519.83	2.5	ug/L
⌞	Fe	57	1361361.597	3.708	**20718.821930**	423.41	2.0	ug/L
⌜	As	75	-62.603	0.001	**0.502502**	0.78	155.2	ug/L
|	Se	77	2951.900	0.000	**-1.308898**	2.38	181.8	ug/L
|	Se	82	21.354	0.000	**0.317307**	0.12	38.8	ug/L
|	Sr	88	1913580.089	2.543	**280.891867**	2.99	1.1	ug/L
| >	Y	89	752371.387	752371.387				ug/L
|	Mo	95	36.667	-0.000	**-0.258478**	0.01	2.7	ug/L
|	Mo	97	16.000	-0.000	**-0.168303**	0.00	2.4	ug/L
⌞	Mo	98	44.521	-0.001	**0.045592**	0.01	23.9	ug/L
⌜	Ag	107	14.667	0.000	**-0.443252**	0.00	0.4	ug/L
|	Ag	109	9.333	0.000	**-0.466560**	0.00	0.7	ug/L
|	Cd	111	1009.900	0.004	**2.657329**	0.02	0.6	ug/L
|	Cd	114	2361.814	0.010	**2.691757**	0.14	5.3	ug/L

00712

|>	In	115	231661.378	231661.378				ug/L
|	Sn	120	669.133	-0.001	**-0.030716**	0.01	30.4	ug/L
|	Sb	121	514.017	0.000	**0.334363**	0.02	7.2	ug/L
\L	Sb	123	454.414	0.000	**0.458586**	0.06	13.1	ug/L
|	Ba	135	4924.910	0.012	**12.563857**	0.32	2.6	ug/L
|	Ba	137	8447.305	0.020	**12.240374**	0.25	2.1	ug/L
|	Tb	159	378961.137	-0.029				ug/L
|>	Ho	165	424713.923	424713.923				ug/L
|	Tl	203	53.334	0.000	**-0.638293**	0.00	0.7	ug/L
|	Tl	205	120.001	0.000	**-0.560805**	0.00	0.2	ug/L
\L	Pb	208	9232.837	0.022	**0.655380**	0.04	5.4	ug/L
	Kr	83	39.933	19.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.997	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		139.781	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.286	
Sn	120			
Sb	121			

00713

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	101.150
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-22A
Sample Date/Time: Tuesday, February 16, 2010 12:42:46
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-22A.045
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30751.077	0.012				ug/L
|	Li	7	19173.874	0.045	**88.016614**	3.13	3.6	ug/L
|	Be	9	467.348	0.001	**13.286123**	0.17	1.3	ug/L
|	B	11	2290.341	0.005	**37.925915**	1.09	2.9	ug/L
|	Na	23	9321917.118	25.845	**80204.442996**	1358.67	1.7	ug/L
|	Mg	24	2711567.920	7.524	**32376.089804**	898.35	2.8	ug/L
|	Al	27	2183322.887	6.019	**8059.903699**	233.15	2.9	ug/L
|	K	39	554856.215	1.357	**2379.600669**	104.21	4.4	ug/L
|	Ca	43	65466.738	0.181	**60615.717433**	790.08	1.3	ug/L
| >	Sc	45	359875.753	359875.753				ug/L
|	Ti	49	576.688	0.000	**7.402887**	1.46	19.8	ug/L
|	Co	59	17267.360	0.048	**42.662184**	0.52	1.2	ug/L
|	Ni	60	3493.460	0.010	**41.537233**	0.72	1.7	ug/L
|	Ni	62	577.355	0.001	**42.593259**	5.22	12.3	ug/L
|	Cu	63	214.670	0.000	**0.506177**	0.03	5.9	ug/L
|	Cu	65	157.335	0.000	**-0.875911**	0.34	39.2	ug/L
|	Zn	66	6377.310	0.017	**99.426917**	3.64	3.7	ug/L
|	Zn	67	2413.712	0.004	**114.443941**	4.68	4.1	ug/L
|	Zn	68	4832.185	0.013	**101.824333**	3.52	3.5	ug/L
|	V	51	11941.137	0.034	**30.387546**	2.14	7.0	ug/L
|	Cr	52	12312.514	0.026	**25.351988**	0.33	1.3	ug/L
|	Cr	53	15739.421	0.008	**13.924503**	1.39	10.0	ug/L
|	Mn	55	1073564.641	2.983	**1720.614864**	34.42	2.0	ug/L
|	Fe	54	695636.644	1.892	**22209.482653**	465.67	2.1	ug/L
⌊	Fe	57	281174.373	0.777	**21752.446761**	426.01	2.0	ug/L
⌈	As	75	-276.957	0.000	**-0.522165**	2.08	397.4	ug/L
|	Se	77	1984.256	-0.000	**-43.790231**	6.21	14.2	ug/L
|	Se	82	7.025	0.000	**0.378964**	0.49	128.5	ug/L
|	Sr	88	383460.891	0.684	**378.175553**	6.94	1.8	ug/L
| >	Y	89	560725.681	560725.681				ug/L
|	Mo	95	13.333	-0.000	**-1.408863**	0.03	1.9	ug/L
|	Mo	97	11.333	-0.000	**-0.849018**	0.04	5.0	ug/L
⌊	Mo	98	21.187	-0.001	**0.165611**	0.02	9.2	ug/L
⌈	Ag	107	9.333	0.000	**-2.234562**	0.02	1.0	ug/L
|	Ag	109	3.333	-0.000	**-2.353740**	0.01	0.3	ug/L
|	Cd	111	227.670	0.001	**2.458686**	0.23	9.2	ug/L
|	Cd	114	548.813	0.002	**2.638168**	0.18	6.8	ug/L

00715

|>	In	115	240011.146	240011.146				ug/L
|	Sn	120	664.585	-0.001	**-0.238898**	0.02	6.6	ug/L
|	Sb	121	357.342	-0.000	**0.961139**	0.09	9.5	ug/L
L	Sb	123	276.247	-0.000	**1.273219**	0.02	1.6	ug/L
Γ	Ba	135	1006.066	0.002	**14.516013**	0.51	3.5	ug/L
|	Ba	137	1738.863	0.004	**14.399944**	0.33	2.3	ug/L
|	Tb	159	381407.989	-0.017				ug/L
|>	Ho	165	421735.951	421735.951				ug/L
|	Tl	203	17.333	0.000	**-3.283685**	0.01	0.4	ug/L
|	Tl	205	23.333	-0.000	**-2.908076**	0.01	0.4	ug/L
L	Pb	208	1972.101	0.004	**-2.486990**	0.03	1.2	ug/L
	Kr	83	22.400	1.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.113	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		104.175	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		93.540	
Sn	120			
Sb	121			

00716

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	100.441
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-23A
Sample Date/Time: Tuesday, February 16, 2010 12:45:28
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-23A.046
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	10831.143	-0.046				ug/L
|	Li	7	367012.051	0.927	**350.848316**	8.46	2.4	ug/L
|	Be	9	6742.287	0.017	**28.241101**	0.78	2.8	ug/L
|	B	11	256255.401	0.652	**882.924022**	18.58	2.1	ug/L
|	Na	23	192319491.561	490.198	**303931.078582**	11142.96	3.7	ug/L
|	Mg	24	45622208.807	116.270	**99914.843835**	1793.07	1.8	ug/L
|	Al	27	457349893.405	1165.561	**309430.350953**	3010.24	1.0	ug/L
|	K	39	2840404.133	7.054	**2435.512758**	47.86	2.0	ug/L
|	Ca	43	736174.316	1.876	**125381.802643**	2863.40	2.3	ug/L
| >	Sc	45	392391.022	392391.022				ug/L
|	Ti	49	6057.718	0.014	**39.199837**	1.06	2.7	ug/L
|	Co	59	708653.016	1.806	**305.393529**	3.42	1.1	ug/L
|	Ni	60	165148.656	0.421	**361.958849**	3.99	1.1	ug/L
|	Ni	62	26112.249	0.066	**375.029039**	8.54	2.3	ug/L
|	Cu	63	11933.920	0.030	**10.634778**	0.36	3.4	ug/L
|	Cu	65	7312.815	0.019	**13.405465**	0.93	6.9	ug/L
|	Zn	66	329786.332	0.840	**938.790650**	12.87	1.4	ug/L
|	Zn	67	51858.236	0.129	**910.384308**	3.55	0.4	ug/L
|	Zn	68	234405.920	0.597	**924.882278**	13.29	1.4	ug/L
|	V	51	344537.678	0.879	**153.648899**	1.09	0.7	ug/L
|	Cr	52	182466.077	0.457	**94.932442**	1.05	1.1	ug/L
|	Cr	53	33284.526	0.049	**76.575293**	2.61	3.4	ug/L
|	Mn	55	29628430.476	75.511	**8717.528762**	85.46	1.0	ug/L
|	Fe	54	28016052.866	71.362	**167384.054911**	1792.48	1.1	ug/L
⌊	Fe	57	11740538.905	29.919	**167111.201216**	2423.99	1.5	ug/L
⌈	As	75	7887.149	0.004	**5.550880**	0.10	1.8	ug/L
|	Se	77	3474.118	-0.002	**-49.222588**	0.28	0.6	ug/L
|	Se	82	152.074	0.000	**0.839735**	0.09	10.9	ug/L
|	Sr	88	3671891.826	1.517	**167.612445**	0.69	0.4	ug/L
| >	Y	89	2420396.249	2420396.249				ug/L
|	Mo	95	72.667	-0.000	**-0.276010**	0.00	0.5	ug/L
|	Mo	97	36.000	-0.000	**-0.177886**	0.01	2.9	ug/L
⌊	Mo	98	78.822	-0.001	**0.030077**	0.00	8.8	ug/L
⌈	Ag	107	214.003	0.001	**-0.297559**	0.02	7.8	ug/L
|	Ag	109	129.334	0.001	**-0.374278**	0.02	5.8	ug/L
|	Cd	111	4767.144	0.023	**14.541438**	0.44	3.0	ug/L
|	Cd	114	11175.254	0.054	**14.710856**	0.22	1.5	ug/L

00718

|>	In	115	206623.707	206623.707				ug/L
|	Sn	120	1090.422	0.002	**0.309750**	0.03	10.6	ug/L
|	Sb	121	1944.246	0.008	**1.734312**	0.05	2.8	ug/L
|	Sb	123	1565.638	0.006	**1.868051**	0.04	2.2	ug/L
|	Ba	135	4312.543	0.009	**10.188432**	0.27	2.7	ug/L
|	Ba	137	7422.913	0.016	**9.969494**	0.06	0.6	ug/L
|	Tb	159	419284.244	-0.014				ug/L
|>	Ho	165	462151.757	462151.757				ug/L
|	Tl	203	68.000	0.000	**-0.633623**	0.00	0.7	ug/L
|	Tl	205	158.668	0.000	**-0.555218**	0.00	0.4	ug/L
|	Pb	208	231361.978	0.500	**33.005337**	0.60	1.8	ug/L
	Kr	83	221.137	200.470				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		106.978	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		449.677	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.528	
Sn	120			
Sb	121			

00719

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	110.066
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Tuesday, February 16, 2010 12:48:10
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 4.047
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	25869.925	-0.001				ug/L
	Li	7	106091.848	0.289	**109.836306**	5.60	5.1	ug/L
	Be	9	23219.665	0.065	**105.393925**	1.48	1.4	ug/L
	B	11	31190.552	0.086	**117.305005**	5.67	4.8	ug/L
	Na	23	3113753.534	8.671	**5393.522120**	119.31	2.2	ug/L
	Mg	24	2231819.917	6.245	**5376.073431**	147.78	2.7	ug/L
	Al	27	7281168.340	20.366	**5420.467090**	66.05	1.2	ug/L
	K	39	5883132.723	16.309	**5619.455640**	184.15	3.3	ug/L
	Ca	43	26729.025	0.074	**4971.477536**	42.28	0.9	ug/L
>	Sc	45	356680.437	356680.437				ug/L
	Ti	49	12899.476	0.035	**95.690519**	1.54	1.6	ug/L
	Co	59	200320.463	0.561	**95.258378**	1.12	1.2	ug/L
	Ni	60	38697.765	0.108	**93.269743**	1.16	1.2	ug/L
	Ni	62	5991.666	0.017	**94.251488**	1.35	1.4	ug/L
	Cu	63	94769.608	0.265	**93.732084**	0.97	1.0	ug/L
	Cu	65	45392.205	0.127	**94.415333**	0.10	0.1	ug/L
	Zn	66	30152.353	0.084	**94.499881**	3.08	3.3	ug/L
	Zn	67	6174.477	0.015	**97.905474**	1.37	1.4	ug/L
	Zn	68	22189.309	0.062	**95.914421**	2.57	2.7	ug/L
	V	51	198996.493	0.559	**97.724809**	2.08	2.1	ug/L
	Cr	52	169751.727	0.467	**97.202044**	2.07	2.1	ug/L
	Cr	53	33838.955	0.059	**94.590961**	3.02	3.2	ug/L
	Mn	55	306128.395	0.857	**98.733142**	1.02	1.0	ug/L
	Fe	54	758205.895	2.085	**4893.082926**	36.76	0.8	ug/L
	Fe	57	311818.473	0.870	**4868.732550**	16.08	0.3	ug/L
	As	75	32761.767	0.066	**98.683024**	3.48	3.5	ug/L
	Se	77	15036.683	0.026	**497.727709**	9.71	2.0	ug/L
	Se	82	16294.315	0.032	**491.477854**	9.86	2.0	ug/L
	Sr	88	438312.432	0.870	**96.195778**	2.97	3.1	ug/L
>	Y	89	503691.731	503691.731				ug/L
	Mo	95	52573.061	0.104	**96.984410**	1.56	1.6	ug/L
	Mo	97	32466.383	0.064	**96.158775**	2.31	2.4	ug/L
	Mo	98	83572.442	0.165	**97.117955**	2.22	2.3	ug/L
	Ag	107	153304.612	0.652	**97.282154**	1.23	1.3	ug/L
	Ag	109	146494.815	0.623	**97.603675**	1.28	1.3	ug/L
	Cd	111	36910.696	0.157	**99.609894**	1.80	1.8	ug/L
	Cd	114	84928.864	0.361	**98.825810**	1.52	1.5	ug/L

00721

|>	In	115	235045.114	235045.114				ug/L
|	Sn	120	162286.698	0.687	**97.942378**	0.71	0.7	ug/L
|	Sb	121	116637.005	0.494	**96.514995**	0.93	1.0	ug/L
|	Sb	123	90524.102	0.384	**96.657589**	1.11	1.1	ug/L
|	Ba	135	36651.108	0.091	**95.877820**	1.52	1.6	ug/L
|	Ba	137	64227.077	0.159	**95.117725**	1.60	1.7	ug/L
|	Tb	159	364777.952	-0.016				ug/L
|>	Ho	165	402808.421	402808.421				ug/L
|	Tl	203	180816.881	0.449	**97.151429**	0.97	1.0	ug/L
|	Tl	205	427803.146	1.062	**96.875786**	1.20	1.2	ug/L
|	Pb	208	584690.756	1.452	**97.258215**	2.14	2.2	ug/L
	Kr	83	22.933	2.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	109.836		
Be	9	105.394		
B	11	117.305		
Na	23	107.870		
Mg	24	107.521		
Al	27	106.284		
K	39	112.389		
Ca	43	99.430		
Sc	45		97.242	
Ti	49	95.691		
Co	59	95.258		
Ni	60	93.270		
Ni	62	94.251		
Cu	63	93.732		
Cu	65	94.415		
Zn	66	94.500		
Zn	67	97.905		
Zn	68	95.914		
V	51	97.725		
Cr	52	97.202		
Cr	53	94.591		
Mn	55	98.733		
Fe	54	97.862		
Fe	57	97.375		
As	75	98.683		
Se	77	99.546		
Se	82	98.296		
Sr	88	96.196		
Y	89		93.579	
Mo	95	96.984		
Mo	97	96.159		
Mo	98	97.118		
Ag	107	97.282		
Ag	109	97.604		
Cd	111	99.610		
Cd	114	98.826		
In	115		91.605	
Sn	120	97.942		
Sb	121	96.515		

00722

Sb	123	96.658	
Ba	135	95.878	
Ba	137	95.118	
Tb	159		
Ho	165		95.933
Tl	203	97.151	
Tl	205	96.876	
Pb	208	97.258	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Tuesday, February 16, 2010 12:50:50
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 6.048
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	28989.690	0.010				ug/L
|	Li	7	3164.651	0.001	**0.887813**	0.13	14.8	ug/L
|	Be	9	8.000	0.000	**0.603251**	0.02	4.0	ug/L
|	B	11	2253.667	0.005	**7.691272**	1.11	14.4	ug/L
|	Na	23	15415.580	-0.014	**8.652296**	3.34	38.6	ug/L
|	Mg	24	1200.102	-0.010	**2.179496**	1.08	49.4	ug/L
|	Al	27	9883.062	-0.020	**8.822812**	0.84	9.5	ug/L
|	K	39	43154.130	-0.062	**-12.225782**	1.38	11.3	ug/L
|	Ca	43	182.669	0.000	**-2.507163**	4.93	196.6	ug/L
| >	Sc	45	349795.075	349795.075				ug/L
|	Ti	49	322.673	-0.000	**-0.375563**	0.12	32.5	ug/L
|	Co	59	93.334	0.000	**0.474955**	0.01	2.0	ug/L
|	Ni	60	19.333	0.000	**0.004732**	0.02	332.9	ug/L
|	Ni	62	28.000	-0.000	**-0.079161**	0.17	213.9	ug/L
|	Cu	63	181.335	0.000	**0.073706**	0.01	14.9	ug/L
|	Cu	65	98.667	0.000	**-0.290924**	0.06	20.4	ug/L
|	Zn	66	109.334	-0.000	**0.438330**	0.07	16.4	ug/L
|	Zn	67	1345.451	0.001	**2.651111**	1.96	74.0	ug/L
|	Zn	68	133.335	-0.000	**0.157715**	0.07	45.7	ug/L
|	V	51	250.695	0.002	**0.406382**	0.10	24.0	ug/L
|	Cr	52	3101.293	0.000	**-0.216620**	0.10	46.1	ug/L
|	Cr	53	14315.310	0.005	**-2.264491**	1.13	49.9	ug/L
|	Mn	55	920.056	0.002	**-0.050847**	0.04	76.9	ug/L
|	Fe	54	13045.004	-0.004	**-5.327562**	2.93	55.1	ug/L
⌞	Fe	57	912.054	-0.002	**0.674084**	1.09	162.3	ug/L
⌜	As	75	-242.064	0.000	**-0.107486**	0.26	245.7	ug/L
|	Se	77	1888.232	0.000	**-2.566719**	5.07	197.6	ug/L
|	Se	82	9.512	0.000	**0.181282**	0.22	120.1	ug/L
|	Sr	88	236.004	0.000	**0.175896**	0.00	2.6	ug/L
| >	Y	89	489290.929	489290.929				ug/L
|	Mo	95	99.334	-0.000	**-0.114851**	0.02	14.4	ug/L
|	Mo	97	67.334	-0.000	**0.005648**	0.02	392.5	ug/L
⌞	Mo	98	166.970	-0.000	**0.210626**	0.03	12.0	ug/L
⌜	Ag	107	14.667	0.000	**-0.443389**	0.00	1.0	ug/L
|	Ag	109	22.000	0.000	**-0.458226**	0.00	0.6	ug/L
|	Cd	111	7.833	0.000	**-0.089441**	0.01	6.0	ug/L
|	Cd	114	6.576	0.000	**-0.090624**	0.00	4.3	ug/L

00724

|>	In	115	235507.189	235507.189				ug/L
|	Sn	120	765.979	-0.000	**0.021225**	0.04	187.9	ug/L
|	Sb	121	2185.645	0.007	**1.709261**	0.13	7.6	ug/L
|	Sb	123	1682.264	0.006	**1.759017**	0.14	8.1	ug/L
|	Ba	135	15.333	-0.000	**0.439636**	0.01	1.4	ug/L
|	Ba	137	35.333	0.000	**0.485540**	0.01	2.6	ug/L
|	Tb	159	358569.423	-0.015				ug/L
|>	Ho	165	395503.962	395503.962				ug/L
|	Tl	203	162.668	0.000	**-0.576135**	0.01	2.0	ug/L
|	Tl	205	367.342	0.001	**-0.501383**	0.01	1.7	ug/L
|	Pb	208	184.668	0.000	**-0.781646**	0.01	1.1	ug/L
	Kr	83	19.800	-0.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.365	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.904	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.785	
Sn	120			
Sb	121			

00725

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.194
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-23A
Sample Date/Time: Tuesday, February 16, 2010 12:53:32
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-23A.049
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	25056.971	-0.003				ug/L
	Li	7	98090.947	0.265	**503.876147**	20.59	4.1	ug/L
	Be	9	1945.579	0.005	**46.503516**	1.78	3.8	ug/L
	B	11	76379.625	0.211	**1434.578607**	17.80	1.2	ug/L
	Na	23	53139836.437	148.088	**459147.750811**	18616.23	4.1	ug/L
	Mg	24	12425728.574	34.620	**148786.378473**	4389.80	3.0	ug/L
	Al	27	126594253.398	352.926	**468518.457619**	26262.69	5.6	ug/L
	K	39	967023.832	2.511	**4364.535515**	292.21	6.7	ug/L
	Ca	43	189899.633	0.529	**176663.506714**	2607.94	1.5	ug/L
>	Sc	45	358936.294	358936.294				ug/L
	Ti	49	1854.224	0.004	**55.969292**	4.60	8.2	ug/L
	Co	59	188622.005	0.526	**446.032634**	14.10	3.2	ug/L
	Ni	60	45421.714	0.127	**544.119906**	10.01	1.8	ug/L
	Ni	62	7224.732	0.020	**564.962823**	22.56	4.0	ug/L
	Cu	63	3293.372	0.009	**15.652462**	0.25	1.6	ug/L
	Cu	65	2104.289	0.006	**19.377604**	2.28	11.8	ug/L
	Zn	66	97234.775	0.271	**1513.373554**	16.13	1.1	ug/L
	Zn	67	16660.691	0.044	**1519.539591**	30.14	2.0	ug/L
	Zn	68	71016.985	0.197	**1530.654558**	39.20	2.6	ug/L
	V	51	91695.406	0.256	**224.608008**	9.51	4.2	ug/L
	Cr	52	49830.255	0.130	**134.525980**	5.36	4.0	ug/L
	Cr	53	19062.259	0.017	**98.146028**	6.22	6.3	ug/L
	Mn	55	7906787.283	22.038	**12720.395266**	397.65	3.1	ug/L
	Fe	54	7527970.227	20.940	**245591.030961**	7981.93	3.3	ug/L
	Fe	57	3108919.221	8.662	**241934.786564**	8196.96	3.4	ug/L
	As	75	1693.189	0.002	**16.246359**	0.66	4.1	ug/L
	Se	77	2315.015	-0.001	**-156.531305**	7.22	4.6	ug/L
	Se	82	47.998	0.000	**3.147765**	0.73	23.1	ug/L
	Sr	88	940937.191	0.962	**531.778497**	9.64	1.8	ug/L
>	Y	89	978061.495	978061.495				ug/L
	Mo	95	37.333	-0.000	**-1.341609**	0.09	6.8	ug/L
	Mo	97	18.000	-0.000	**-0.862370**	0.06	6.6	ug/L
	Mo	98	45.187	-0.001	**0.190540**	0.04	20.8	ug/L
	Ag	107	66.667	0.000	**-2.033323**	0.03	1.6	ug/L
	Ag	109	39.333	0.000	**-2.221248**	0.04	1.8	ug/L
	Cd	111	1417.631	0.007	**20.223667**	0.45	2.2	ug/L
	Cd	114	3309.264	0.015	**20.425749**	0.91	4.4	ug/L

00727

|>	In	115	216684.968	216684.968				ug/L
|	Sn	120	726.574	-0.000	**0.176508**	0.15	87.3	ug/L
|	Sb	121	1064.074	0.003	**4.290672**	0.10	2.2	ug/L
|	Sb	123	824.119	0.002	**4.604008**	0.12	2.7	ug/L
|	Ba	135	1067.408	0.003	**15.559601**	0.92	5.9	ug/L
|	Ba	137	1898.901	0.005	**15.830357**	0.22	1.4	ug/L
|	Tb	159	365785.853	-0.035				ug/L
|>	Ho	165	412513.994	412513.994				ug/L
|	Tl	203	34.667	0.000	**-3.236783**	0.00	0.0	ug/L
|	Tl	205	95.334	0.000	**-2.827690**	0.01	0.3	ug/L
|	Pb	208	61149.264	0.148	**46.008294**	1.45	3.1	ug/L
	Kr	83	59.934	39.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.857	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		181.711	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		84.449	
Sn	120			
Sb	121			

00728

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.245
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-23A
Sample Date/Time: Tuesday, February 16, 2010 12:56:13
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-23A.050
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29563.049	0.009				ug/L
|	Li	7	19606.326	0.047	**453.872534**	28.37	6.3	ug/L
|	Be	9	354.008	0.001	**53.952708**	2.81	5.2	ug/L
|	B	11	15530.339	0.042	**1441.585329**	57.74	4.0	ug/L
|	Na	23	8979756.426	25.016	**388179.788400**	13491.72	3.5	ug/L
|	Mg	24	2150912.763	5.993	**129005.746954**	7553.34	5.9	ug/L
|	Al	27	22168588.397	61.854	**410853.934219**	14605.47	3.6	ug/L
|	K	39	210343.023	0.402	**3684.339778**	297.84	8.1	ug/L
|	Ca	43	32762.974	0.091	**151912.177560**	2923.29	1.9	ug/L
| >	Sc	45	358177.798	358177.798				ug/L
|	Ti	49	570.021	0.000	**36.236052**	8.61	23.8	ug/L
|	Co	59	33017.388	0.092	**399.907157**	9.27	2.3	ug/L
|	Ni	60	8302.482	0.023	**497.414092**	20.74	4.2	ug/L
|	Ni	62	1312.112	0.004	**503.604365**	24.58	4.9	ug/L
|	Cu	63	622.692	0.001	**12.614034**	0.56	4.4	ug/L
|	Cu	65	353.341	0.001	**5.860307**	1.17	20.0	ug/L
|	Zn	66	18311.121	0.051	**1429.752098**	58.50	4.1	ug/L
|	Zn	67	4266.518	0.009	**1493.061462**	115.73	7.8	ug/L
|	Zn	68	12779.945	0.035	**1370.903430**	42.46	3.1	ug/L
|	V	51	15745.293	0.045	**198.942659**	12.28	6.2	ug/L
|	Cr	52	11007.206	0.022	**108.582610**	2.88	2.7	ug/L
|	Cr	53	15005.956	0.006	**-12.952650**	24.53	189.4	ug/L
|	Mn	55	1356950.000	3.788	**10926.598343**	328.00	3.0	ug/L
|	Fe	54	1304395.243	3.601	**211239.243320**	4799.22	2.3	ug/L
⌊	Fe	57	538958.863	1.501	**209781.376660**	7185.37	3.4	ug/L
⌈	As	75	12.826	0.001	**16.777539**	5.56	33.1	ug/L
|	Se	77	1930.242	-0.000	**-310.607207**	62.46	20.1	ug/L
|	Se	82	10.534	0.000	**4.053562**	1.02	25.2	ug/L
|	Sr	88	159378.085	0.276	**765.682285**	12.93	1.7	ug/L
| >	Y	89	576824.379	576824.379				ug/L
|	Mo	95	16.000	-0.000	**-6.953000**	0.22	3.1	ug/L
|	Mo	97	8.667	-0.000	**-4.440434**	0.27	6.1	ug/L
⌊	Mo	98	23.562	-0.001	**0.873469**	0.09	10.7	ug/L
⌈	Ag	107	16.667	0.000	**-11.045511**	0.05	0.4	ug/L
|	Ag	109	10.667	0.000	**-11.640042**	0.05	0.4	ug/L
|	Cd	111	265.838	0.001	**15.675161**	0.86	5.5	ug/L
|	Cd	114	588.785	0.003	**15.160112**	1.14	7.5	ug/L

00730

|>	In	115	228835.780	228835.780				ug/L
|	Sn	120	672.645	-0.001	**-0.587359**	0.38	64.4	ug/L
|	Sb	121	520.684	0.000	**8.633739**	0.28	3.2	ug/L
|	Sb	123	406.841	0.000	**10.300350**	0.55	5.3	ug/L
|	Ba	135	202.669	0.000	**23.329575**	1.82	7.8	ug/L
|	Ba	137	326.674	0.001	**23.003753**	2.07	9.0	ug/L
|	Tb	159	361379.029	-0.015				ug/L
|>	Ho	165	398599.761	398599.761				ug/L
|	Tl	203	18.000	0.000	**-16.394835**	0.05	0.3	ug/L
|	Tl	205	24.667	-0.000	**-14.525869**	0.02	0.1	ug/L
|	Pb	208	10854.315	0.027	**25.676789**	1.83	7.1	ug/L
	Kr	83	25.400	4.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.651	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		107.166	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		89.185	
Sn	120			
Sb	121			

00731

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.931
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-24A
Sample Date/Time: Tuesday, February 16, 2010 12:58:54
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-24A.051
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30919.760	0.014				ug/L
|	Li	7	11977.997	0.026	**10.224250**	0.79	7.7	ug/L
|	Be	9	8.667	0.000	**0.605653**	0.00	0.7	ug/L
|	B	11	26939.208	0.075	**101.733673**	7.70	7.6	ug/L
|	Na	23	31977334.541	90.052	**55848.199440**	2408.41	4.3	ug/L
|	Mg	24	853507.123	2.393	**2066.766507**	168.16	8.1	ug/L
|	Al	27	38544.928	0.060	**30.174151**	2.45	8.1	ug/L
|	K	39	1091112.144	2.890	**1003.189513**	113.42	11.3	ug/L
|	Ca	43	20179.804	0.056	**3764.823558**	251.50	6.7	ug/L
| >	Sc	45	355068.948	355068.948				ug/L
|	Ti	49	519.351	0.000	**1.094787**	0.15	14.1	ug/L
|	Co	59	136.001	0.000	**0.494406**	0.01	2.8	ug/L
|	Ni	60	291.339	0.001	**0.662877**	0.03	4.1	ug/L
|	Ni	62	65.334	0.000	**0.509924**	0.21	40.7	ug/L
|	Cu	63	3512.136	0.010	**3.387015**	0.20	6.0	ug/L
|	Cu	65	1505.481	0.004	**2.664465**	0.25	9.2	ug/L
|	Zn	66	1716.192	0.004	**5.494206**	0.58	10.5	ug/L
|	Zn	67	1952.248	0.003	**14.364253**	2.15	14.9	ug/L
|	Zn	68	1389.459	0.003	**5.626964**	0.29	5.2	ug/L
|	V	51	699.778	0.003	**0.629679**	0.32	51.2	ug/L
|	Cr	52	3741.577	0.002	**0.132281**	0.08	58.5	ug/L
|	Cr	53	16750.224	0.011	**8.986009**	2.89	32.2	ug/L
|	Mn	55	34724.964	0.097	**10.946524**	0.72	6.6	ug/L
|	Fe	54	53457.663	0.109	**260.571922**	17.44	6.7	ug/L
⌊	Fe	57	15235.114	0.039	**226.043960**	20.46	9.1	ug/L
⌈	As	75	36.955	0.001	**0.732170**	0.91	124.6	ug/L
|	Se	77	2424.382	0.001	**18.007176**	6.03	33.5	ug/L
|	Se	82	12.658	0.000	**0.279397**	0.30	108.2	ug/L
|	Sr	88	131056.583	0.266	**29.537370**	1.47	5.0	ug/L
| >	Y	89	492434.952	492434.952				ug/L
|	Mo	95	1214.763	0.002	**1.999460**	0.20	9.8	ug/L
|	Mo	97	744.037	0.001	**2.065775**	0.43	20.9	ug/L
⌊	Mo	98	1877.417	0.003	**2.245338**	0.15	6.8	ug/L
⌈	Ag	107	8.667	0.000	**-0.447113**	0.00	0.4	ug/L
|	Ag	109	10.000	0.000	**-0.466133**	0.01	1.2	ug/L
|	Cd	111	7.167	0.000	**-0.090938**	0.00	4.9	ug/L
|	Cd	114	30.823	0.000	**-0.061812**	0.00	6.6	ug/L

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|>	In	115	231510.549	231510.549				ug/L
|	Sn	120	651.960	-0.001	**-0.041057**	0.00	10.9	ug/L
|	Sb	121	477.348	0.000	**0.304254**	0.04	14.4	ug/L
\L	Sb	123	372.004	0.000	**0.369416**	0.04	10.5	ug/L
\[	Ba	135	8116.282	0.020	**21.633372**	1.41	6.5	ug/L
|	Ba	137	14601.188	0.036	**22.056935**	1.60	7.2	ug/L
|	Tb	159	363877.022	-0.016				ug/L
|>	Ho	165	401746.637	401746.637				ug/L
|	Tl	203	8.667	-0.000	**-0.660982**	0.00	0.2	ug/L
|	Tl	205	14.667	-0.000	**-0.583384**	0.00	0.2	ug/L
\L	Pb	208	2370.809	0.006	**-0.413796**	0.03	7.7	ug/L
	Kr	83	18.133	-2.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.803	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.488	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.227	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.680
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-25A
Sample Date/Time: Tuesday, February 16, 2010 13:01:35
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-25A.052
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21726.387	-0.004				ug/L
|	Li	7	83047.927	0.258	**97.961834**	1.61	1.6	ug/L
|	Be	9	262.004	0.001	**1.916946**	0.08	4.0	ug/L
|	B	11	19051.566	0.060	**81.552144**	1.18	1.5	ug/L
|	Na	23	374688402.761	1199.765	**743849.522418**	18221.33	2.4	ug/L
|	Mg	24	79480674.517	254.549	**218730.074844**	4525.13	2.1	ug/L
|	Al	27	50423.093	0.113	**44.194815**	0.93	2.1	ug/L
|	K	39	1062672.379	3.221	**1116.966813**	66.51	6.0	ug/L
|	Ca	43	1353798.666	4.335	**289760.895731**	3901.11	1.3	ug/L
| >	Sc	45	312292.684	312292.684				ug/L
|	Ti	49	2119.626	0.006	**15.611962**	0.67	4.3	ug/L
|	Co	59	196626.870	0.630	**106.770924**	1.94	1.8	ug/L
|	Ni	60	21580.901	0.069	**59.402183**	0.81	1.4	ug/L
|	Ni	62	3627.522	0.011	**65.031682**	1.92	2.9	ug/L
|	Cu	63	4630.728	0.015	**5.127544**	0.07	1.3	ug/L
|	Cu	65	1765.537	0.006	**3.712072**	0.27	7.4	ug/L
|	Zn	66	2887.209	0.009	**10.411994**	0.35	3.3	ug/L
|	Zn	67	1500.147	0.002	**9.459426**	2.50	26.5	ug/L
|	Zn	68	1126.749	0.003	**5.161255**	0.37	7.2	ug/L
|	V	51	431.252	0.002	**0.523606**	0.10	18.5	ug/L
|	Cr	52	2967.239	0.001	**-0.083778**	0.06	68.6	ug/L
|	Cr	53	11417.135	0.000	**-10.079030**	1.90	18.9	ug/L
|	Mn	55	43565857.407	139.544	**16110.148034**	320.98	2.0	ug/L
|	Fe	54	2640140.152	8.415	**19741.316115**	402.76	2.0	ug/L
⌊	Fe	57	1089230.418	3.484	**19470.226543**	307.62	1.6	ug/L
⌈	As	75	-430.595	-0.000	**-0.480536**	0.30	63.1	ug/L
|	Se	77	4042.396	0.003	**57.599164**	1.87	3.2	ug/L
|	Se	82	81.657	0.000	**2.029107**	0.18	9.0	ug/L
|	Sr	88	9714478.541	16.798	**1854.683545**	72.72	3.9	ug/L
| >	Y	89	578819.951	578819.951				ug/L
|	Mo	95	524.018	0.000	**0.540324**	0.04	8.3	ug/L
|	Mo	97	314.006	0.000	**0.611641**	0.06	9.4	ug/L
⌊	Mo	98	729.222	0.001	**0.748138**	0.01	1.5	ug/L
⌈	Ag	107	20.000	0.000	**-0.437238**	0.00	0.2	ug/L
|	Ag	109	9.333	0.000	**-0.465315**	0.00	0.8	ug/L
|	Cd	111	13.000	0.000	**-0.067939**	0.01	8.4	ug/L
|	Cd	114	6.711	0.000	**-0.088747**	0.00	4.9	ug/L

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|>	In	115	193194.231	193194.231				ug/L
|	Sn	120	533.620	-0.001	**-0.048167**	0.04	81.9	ug/L
|	Sb	121	362.675	-0.000	**0.267647**	0.01	2.8	ug/L
L	Sb	123	334.730	0.000	**0.400919**	0.03	6.9	ug/L
⌈	Ba	135	7685.839	0.023	**24.734327**	1.10	4.4	ug/L
|	Ba	137	13760.299	0.041	**25.101180**	1.39	5.5	ug/L
|	Tb	159	294004.620	-0.035				ug/L
|>	Ho	165	331724.865	331724.865				ug/L
|	Tl	203	16.000	0.000	**-0.655030**	0.00	0.7	ug/L
|	Tl	205	40.667	0.000	**-0.575374**	0.00	0.6	ug/L
L	Pb	208	759.348	0.002	**-0.658496**	0.01	1.4	ug/L
	Kr	83	52.467	31.800				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		85.141	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		107.537	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		75.294	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	79.004
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-26A
Sample Date/Time: Tuesday, February 16, 2010 13:04:16
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-26A.053
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28799.509	0.007				ug/L
|	Li	7	41517.777	0.108	**41.377615**	1.46	3.5	ug/L
|	Be	9	9.333	0.000	**0.608611**	0.03	4.4	ug/L
|	B	11	18978.054	0.052	**70.868402**	2.07	2.9	ug/L
|	Na	23	46424362.601	129.894	**80549.378392**	2684.72	3.3	ug/L
|	Mg	24	9683525.906	27.100	**23295.930074**	1197.58	5.1	ug/L
|	Al	27	105208.180	0.246	**79.510475**	2.90	3.6	ug/L
|	K	39	2808263.448	7.678	**2650.420575**	149.82	5.7	ug/L
|	Ca	43	227614.495	0.637	**42546.658329**	832.29	2.0	ug/L
| >	Sc	45	357325.769	357325.769				ug/L
|	Ti	49	704.699	0.001	**2.486824**	0.12	5.0	ug/L
|	Co	59	284.005	0.001	**0.564143**	0.00	0.8	ug/L
|	Ni	60	304.673	0.001	**0.691148**	0.10	14.7	ug/L
|	Ni	62	65.334	0.000	**0.502058**	0.11	21.7	ug/L
|	Cu	63	1084.077	0.003	**0.962928**	0.08	8.8	ug/L
|	Cu	65	329.340	0.001	**0.185631**	0.06	31.9	ug/L
|	Zn	66	1374.790	0.003	**4.385323**	0.23	5.2	ug/L
|	Zn	67	2285.673	0.004	**20.690800**	0.17	0.8	ug/L
|	Zn	68	2787.172	0.007	**11.644620**	0.49	4.2	ug/L
|	V	51	6169.186	0.018	**3.296649**	0.28	8.4	ug/L
|	Cr	52	3622.187	0.002	**0.049449**	0.12	241.5	ug/L
|	Cr	53	15984.597	0.009	**4.606102**	3.15	68.4	ug/L
|	Mn	55	15220.988	0.042	**4.572940**	1.27	27.8	ug/L
|	Fe	54	27887.940	0.037	**90.312578**	6.25	6.9	ug/L
⌊	Fe	57	8306.483	0.019	**115.967325**	2.94	2.5	ug/L
⌈	As	75	-385.508	-0.000	**-0.553913**	0.83	149.6	ug/L
|	Se	77	2790.506	0.002	**32.269774**	4.68	14.5	ug/L
|	Se	82	18.076	0.000	**0.439892**	0.16	36.3	ug/L
|	Sr	88	1457617.566	2.962	**327.170305**	12.25	3.7	ug/L
| >	Y	89	492372.134	492372.134				ug/L
|	Mo	95	1430.800	0.002	**2.405747**	0.08	3.2	ug/L
|	Mo	97	886.718	0.002	**2.493723**	0.25	10.0	ug/L
⌊	Mo	98	2310.347	0.004	**2.760366**	0.19	7.1	ug/L
⌈	Ag	107	10.667	0.000	**-0.445739**	0.00	0.7	ug/L
|	Ag	109	5.333	-0.000	**-0.469265**	0.00	0.6	ug/L
|	Cd	111	15.500	0.000	**-0.067274**	0.01	12.8	ug/L
|	Cd	114	35.065	0.000	**-0.056218**	0.01	10.3	ug/L

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|>	In	115	228022.014	228022.014				ug/L
|	Sn	120	643.866	-0.001	**-0.039973**	0.00	11.9	ug/L
|	Sb	121	458.014	0.000	**0.293389**	0.00	1.0	ug/L
|	Sb	123	446.419	0.000	**0.457234**	0.01	1.3	ug/L
⌈	Ba	135	173335.310	0.436	**458.345766**	15.37	3.4	ug/L
|	Ba	137	304337.417	0.766	**455.515143**	16.36	3.6	ug/L
|	Tb	159	357480.944	-0.022				ug/L
|>	Ho	165	397319.935	397319.935				ug/L
|	Tl	203	7.333	-0.000	**-0.661615**	0.00	0.3	ug/L
|	Tl	205	25.333	-0.000	**-0.580868**	0.00	0.2	ug/L
⌊	Pb	208	2860.210	0.007	**-0.326957**	0.01	3.7	ug/L
	Kr	83	24.400	3.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.418	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.476	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.868	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.626
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-27A
Sample Date/Time: Tuesday, February 16, 2010 13:06:57
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-27A.054
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30210.656	0.013				ug/L
|	Li	7	19744.643	0.048	**18.741923**	0.14	0.8	ug/L
|	Be	9	671.363	0.002	**3.648791**	0.23	6.3	ug/L
|	B	11	11231.541	0.031	**42.314540**	2.05	4.9	ug/L
|	Na	23	33916062.640	96.670	**59951.407128**	1483.03	2.5	ug/L
|	Mg	24	3013595.112	8.582	**7384.515310**	272.41	3.7	ug/L
|	Al	27	9396300.815	26.750	**7115.390244**	218.36	3.1	ug/L
|	K	39	1043049.543	2.790	**968.756852**	53.67	5.5	ug/L
|	Ca	43	256852.082	0.732	**48917.274705**	1600.76	3.3	ug/L
| >	Sc	45	350655.684	350655.684				ug/L
|	Ti	49	932.057	0.001	**4.355391**	0.40	9.1	ug/L
|	Co	59	138153.826	0.394	**66.951921**	0.93	1.4	ug/L
|	Ni	60	7849.337	0.022	**19.209478**	0.34	1.8	ug/L
|	Ni	62	1258.770	0.003	**19.721736**	1.11	5.6	ug/L
|	Cu	63	62985.675	0.179	**63.330367**	2.05	3.2	ug/L
|	Cu	65	30259.410	0.086	**63.862057**	1.24	1.9	ug/L
|	Zn	66	31927.504	0.091	**101.770252**	3.24	3.2	ug/L
|	Zn	67	6318.594	0.015	**102.911533**	1.08	1.1	ug/L
|	Zn	68	22844.551	0.065	**100.472664**	2.66	2.6	ug/L
|	V	51	1641.048	0.005	**1.098070**	0.30	27.5	ug/L
|	Cr	52	5748.147	0.008	**1.353087**	0.02	1.7	ug/L
|	Cr	53	15189.651	0.007	**2.031486**	1.01	49.7	ug/L
|	Mn	55	16606689.370	47.360	**5467.440264**	71.99	1.3	ug/L
|	Fe	54	123134.167	0.310	**730.875365**	15.76	2.2	ug/L
⌊	Fe	57	48974.747	0.135	**766.150256**	2.02	0.3	ug/L
⌈	As	75	25769.798	0.043	**64.834300**	0.48	0.7	ug/L
|	Se	77	2437.053	0.000	**0.654016**	0.54	82.8	ug/L
|	Se	82	23.298	0.000	**0.470952**	0.27	58.0	ug/L
|	Sr	88	959548.973	1.585	**175.166028**	3.07	1.8	ug/L
| >	Y	89	605148.721	605148.721				ug/L
|	Mo	95	267.338	0.000	**0.107461**	0.06	51.5	ug/L
|	Mo	97	170.669	0.000	**0.221572**	0.04	16.5	ug/L
⌊	Mo	98	359.935	-0.000	**0.359296**	0.04	10.9	ug/L
⌈	Ag	107	14.667	0.000	**-0.443073**	0.00	0.2	ug/L
|	Ag	109	4.000	-0.000	**-0.470165**	0.00	0.3	ug/L
|	Cd	111	10778.715	0.047	**29.931994**	0.73	2.4	ug/L
|	Cd	114	24957.745	0.110	**29.893611**	0.14	0.5	ug/L

00742

|>	In	115	227837.858	227837.858				ug/L
|	Sn	120	646.448	-0.001	**-0.038016**	0.01	16.4	ug/L
|	Sb	121	552.687	0.001	**0.374684**	0.04	11.5	ug/L
L	Sb	123	496.249	0.001	**0.512112**	0.04	8.8	ug/L
⌈	Ba	135	8825.727	0.022	**23.316797**	0.17	0.7	ug/L
|	Ba	137	15932.507	0.039	**23.838406**	0.74	3.1	ug/L
|	Tb	159	364439.769	-0.020				ug/L
|>	Ho	165	404048.233	404048.233				ug/L
|	Tl	203	762.705	0.002	**-0.254569**	0.02	8.4	ug/L
|	Tl	205	1752.200	0.004	**-0.188861**	0.01	4.2	ug/L
L	Pb	208	26222.738	0.065	**3.571393**	0.08	2.3	ug/L
	Kr	83	30.067	9.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.600	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		112.429	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.796	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	96.228
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-28A
Sample Date/Time: Tuesday, February 16, 2010 13:09:38
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-28A.055
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31231.666	0.017				ug/L
|	Li	7	10027.882	0.021	**8.485408**	0.92	10.8	ug/L
|	Be	9	7.333	0.000	**0.601032**	0.02	4.1	ug/L
|	B	11	19913.755	0.056	**77.303896**	3.99	5.2	ug/L
|	Na	23	32946698.591	95.740	**59374.813311**	4286.93	7.2	ug/L
|	Mg	24	160571.881	0.454	**400.896703**	55.93	14.0	ug/L
|	Al	27	106097.762	0.261	**83.294155**	10.18	12.2	ug/L
|	K	39	606398.589	1.579	**552.166564**	59.23	10.7	ug/L
|	Ca	43	7316.819	0.021	**1384.693813**	115.05	8.3	ug/L
| >	Sc	45	344347.067	344347.067				ug/L
|	Ti	49	828.045	0.001	**3.673944**	0.60	16.3	ug/L
|	Co	59	236.004	0.001	**0.546025**	0.02	4.2	ug/L
|	Ni	60	188.669	0.001	**0.428778**	0.02	4.9	ug/L
|	Ni	62	41.333	-0.000	**0.145522**	0.14	96.4	ug/L
|	Cu	63	1162.088	0.003	**1.083645**	0.07	6.0	ug/L
|	Cu	65	389.343	0.001	**0.342518**	0.05	13.2	ug/L
|	Zn	66	693.365	0.002	**2.337185**	0.09	4.1	ug/L
|	Zn	67	1453.471	0.002	**5.303590**	1.07	20.2	ug/L
|	Zn	68	662.695	0.001	**2.552415**	0.26	10.1	ug/L
|	V	51	1553.198	0.005	**1.069633**	0.25	23.5	ug/L
|	Cr	52	3218.006	0.001	**-0.115774**	0.06	52.3	ug/L
|	Cr	53	13652.105	0.003	**-4.528294**	1.99	44.0	ug/L
|	Mn	55	76068.352	0.220	**25.168626**	1.13	4.5	ug/L
|	Fe	54	23824.293	0.028	**69.588167**	6.62	9.5	ug/L
⌊	Fe	57	4350.564	0.008	**56.721921**	2.91	5.1	ug/L
⌈	As	75	-204.485	0.000	**-0.011108**	0.09	810.4	ug/L
|	Se	77	1943.579	0.000	**2.001706**	1.70	84.7	ug/L
|	Se	82	7.187	0.000	**0.113512**	0.21	184.0	ug/L
|	Sr	88	47733.038	0.100	**11.231419**	0.14	1.2	ug/L
| >	Y	89	474346.664	474346.664				ug/L
|	Mo	95	562.021	0.001	**0.800456**	0.02	2.7	ug/L
|	Mo	97	398.677	0.001	**1.056901**	0.10	9.4	ug/L
⌊	Mo	98	969.102	0.001	**1.206027**	0.06	4.9	ug/L
⌈	Ag	107	8.000	0.000	**-0.447435**	0.00	0.3	ug/L
|	Ag	109	6.000	-0.000	**-0.468772**	0.00	0.5	ug/L
|	Cd	111	15.333	0.000	**-0.067516**	0.00	5.8	ug/L
|	Cd	114	23.221	0.000	**-0.070057**	0.01	14.0	ug/L

00745

|>	In	115	226059.066	226059.066				ug/L
|	Sn	120	656.601	-0.001	**-0.028543**	0.01	43.7	ug/L
|	Sb	121	364.675	-0.000	**0.216562**	0.02	7.0	ug/L
L	Sb	123	305.750	-0.000	**0.305363**	0.01	4.5	ug/L
⌈	Ba	135	4266.517	0.011	**11.583399**	0.50	4.3	ug/L
|	Ba	137	7541.029	0.019	**11.619377**	0.41	3.5	ug/L
|	Tb	159	358744.709	-0.026				ug/L
|>	Ho	165	400429.445	400429.445				ug/L
|	Tl	203	10.000	-0.000	**-0.660170**	0.00	0.7	ug/L
|	Tl	205	24.000	-0.000	**-0.581209**	0.00	0.3	ug/L
L	Pb	208	5252.706	0.013	**0.073186**	0.05	71.1	ug/L
	Kr	83	18.667	-2.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.880	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		88.127	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.103	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.367
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-29A
Sample Date/Time: Tuesday, February 16, 2010 13:12:19
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-29A.056
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29396.088	0.005				ug/L
|	Li	7	59311.115	0.150	**57.291668**	2.04	3.6	ug/L
|	Be	9	1087.410	0.003	**5.240789**	0.19	3.7	ug/L
|	B	11	46879.807	0.124	**168.384915**	8.12	4.8	ug/L
|	Na	23	93456037.619	249.239	**154541.112325**	2071.12	1.3	ug/L
|	Mg	24	9914268.396	26.432	**22721.843215**	308.70	1.4	ug/L
|	Al	27	41334189.548	110.281	**29289.792687**	1028.22	3.5	ug/L
|	K	39	3960934.777	10.377	**3578.633484**	99.26	2.8	ug/L
|	Ca	43	271882.670	0.725	**48482.941652**	2569.04	5.3	ug/L
| >	Sc	45	374830.772	374830.772				ug/L
|	Ti	49	1236.766	0.002	**6.102165**	0.08	1.4	ug/L
|	Co	59	114544.007	0.306	**52.063897**	1.93	3.7	ug/L
|	Ni	60	37758.482	0.101	**86.673527**	4.29	5.0	ug/L
|	Ni	62	6163.808	0.016	**92.238114**	4.03	4.4	ug/L
|	Cu	63	105858.686	0.282	**99.734599**	5.67	5.7	ug/L
|	Cu	65	50414.169	0.134	**99.905494**	5.89	5.9	ug/L
|	Zn	66	135924.151	0.363	**405.403710**	18.58	4.6	ug/L
|	Zn	67	21808.208	0.056	**387.366532**	16.64	4.3	ug/L
|	Zn	68	97298.417	0.259	**402.039558**	21.80	5.4	ug/L
|	V	51	2495.545	0.007	**1.443812**	0.44	30.4	ug/L
|	Cr	52	24983.199	0.058	**11.845760**	0.65	5.5	ug/L
|	Cr	53	16488.992	0.008	**3.266511**	1.76	53.9	ug/L
|	Mn	55	7204420.068	19.232	**2220.128561**	83.29	3.8	ug/L
|	Fe	54	94367.501	0.211	**498.039303**	18.62	3.7	ug/L
⌊	Fe	57	36588.840	0.093	**531.590398**	18.65	3.5	ug/L
⌈	As	75	-173.024	0.000	**0.348352**	0.12	35.1	ug/L
|	Se	77	2686.469	-0.001	**-18.846333**	1.68	8.9	ug/L
|	Se	82	79.992	0.000	**1.248700**	0.06	4.4	ug/L
|	Sr	88	1298129.562	1.457	**160.965713**	4.57	2.8	ug/L
| >	Y	89	891426.052	891426.052				ug/L
|	Mo	95	47.333	-0.000	**-0.254517**	0.01	3.4	ug/L
|	Mo	97	22.667	-0.000	**-0.161960**	0.01	5.7	ug/L
⌊	Mo	98	61.562	-0.001	**0.051477**	0.00	4.2	ug/L
⌈	Ag	107	16.000	0.000	**-0.441921**	0.00	0.7	ug/L
|	Ag	109	12.000	0.000	**-0.464463**	0.00	1.0	ug/L
|	Cd	111	54227.328	0.246	**156.268880**	6.97	4.5	ug/L
|	Cd	114	127864.069	0.581	**158.852621**	5.14	3.2	ug/L

00748

|>	In	115	220399.571	220399.571				ug/L
|	Sn	120	592.545	-0.001	**-0.059834**	0.02	41.7	ug/L
|	Sb	121	1468.140	0.005	**1.199035**	0.02	1.3	ug/L
|	Sb	123	1181.331	0.004	**1.312636**	0.11	8.3	ug/L
⌈	Ba	135	7364.190	0.018	**19.094236**	0.47	2.5	ug/L
|	Ba	137	12958.246	0.031	**19.054134**	0.88	4.6	ug/L
|	Tb	159	376818.676	-0.010				ug/L
|>	Ho	165	413438.134	413438.134				ug/L
|	Tl	203	667.362	0.002	**-0.313617**	0.02	7.7	ug/L
|	Tl	205	1660.847	0.004	**-0.218417**	0.02	11.4	ug/L
⌊	Pb	208	897543.479	2.171	**145.858027**	1.68	1.1	ug/L
	Kr	83	52.267	31.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		102.191	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		165.615	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.897	
Sn	120			
Sb	121			

00749

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.465
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-29A
Sample Date/Time: Tuesday, February 16, 2010 13:15:01
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-29A.057
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33325.183	0.018				ug/L
|	Li	7	18409.336	0.043	**82.698010**	2.46	3.0	ug/L
|	Be	9	294.006	0.001	**9.324258**	0.91	9.8	ug/L
|	B	11	14486.296	0.038	**263.590346**	4.64	1.8	ug/L
|	Na	23	25331935.216	69.416	**215272.550078**	9454.68	4.4	ug/L
|	Mg	24	2661884.644	7.288	**31363.676963**	1631.46	5.2	ug/L
|	Al	27	10908295.142	29.860	**39704.307863**	940.78	2.4	ug/L
|	K	39	1138488.090	2.937	**5097.492248**	299.09	5.9	ug/L
|	Ca	43	71251.345	0.195	**65082.827312**	1691.92	2.6	ug/L
| >	Sc	45	364825.265	364825.265				ug/L
|	Ti	49	603.357	0.000	**8.067756**	2.22	27.6	ug/L
|	Co	59	30363.830	0.083	**72.423740**	1.64	2.3	ug/L
|	Ni	60	10389.681	0.028	**122.258013**	2.79	2.3	ug/L
|	Ni	62	1688.185	0.004	**127.870401**	3.72	2.9	ug/L
|	Cu	63	29404.786	0.080	**141.796504**	3.04	2.1	ug/L
|	Cu	65	13896.552	0.038	**139.552291**	5.01	3.6	ug/L
|	Zn	66	39835.020	0.109	**610.058877**	21.86	3.6	ug/L
|	Zn	67	7380.873	0.018	**593.008356**	16.95	2.9	ug/L
|	Zn	68	28238.444	0.077	**597.245961**	17.81	3.0	ug/L
|	V	51	-87.462	0.001	**1.205567**	0.94	77.7	ug/L
|	Cr	52	8716.273	0.015	**14.580457**	0.47	3.3	ug/L
|	Cr	53	16227.104	0.008	**20.559455**	2.26	11.0	ug/L
|	Mn	55	1888827.717	5.177	**2987.265055**	61.19	2.0	ug/L
|	Fe	54	34189.551	0.053	**635.180216**	12.82	2.0	ug/L
⌊	Fe	57	10247.489	0.024	**715.064564**	14.09	2.0	ug/L
⌈	As	75	-378.220	0.000	**-1.598937**	1.42	88.7	ug/L
|	Se	77	2270.335	0.000	**-18.390983**	5.26	28.6	ug/L
|	Se	82	28.798	0.000	**3.094021**	0.61	19.7	ug/L
|	Sr	88	327814.457	0.549	**303.698692**	7.48	2.5	ug/L
| >	Y	89	597285.262	597285.262				ug/L
|	Mo	95	18.000	-0.000	**-1.378533**	0.06	4.3	ug/L
|	Mo	97	7.333	-0.000	**-0.907965**	0.05	6.0	ug/L
⌊	Mo	98	23.489	-0.001	**0.169866**	0.03	15.0	ug/L
⌈	Ag	107	7.333	0.000	**-2.240559**	0.01	0.4	ug/L
|	Ag	109	5.333	-0.000	**-2.347004**	0.01	0.3	ug/L
|	Cd	111	15592.792	0.066	**209.134490**	5.52	2.6	ug/L
|	Cd	114	36266.867	0.154	**209.809267**	5.01	2.4	ug/L

00751

|>	In	115	236194.639	236194.639				ug/L
|	Sn	120	645.874	-0.001	**-0.261417**	0.09	34.1	ug/L
|	Sb	121	638.027	0.001	**2.144621**	0.21	9.7	ug/L
|	Sb	123	491.172	0.000	**2.440315**	0.07	3.0	ug/L
⌈	Ba	135	1949.581	0.005	**26.614183**	2.50	9.4	ug/L
|	Ba	137	3331.388	0.008	**25.928104**	0.42	1.6	ug/L
|	Tb	159	375946.710	-0.018				ug/L
|>	Ho	165	416262.004	416262.004				ug/L
|	Tl	203	182.002	0.000	**-2.851620**	0.03	1.0	ug/L
|	Tl	205	427.345	0.001	**-2.462141**	0.03	1.0	ug/L
⌊	Pb	208	249075.177	0.599	**198.162612**	7.32	3.7	ug/L
	Kr	83	25.800	5.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		99.463	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		110.968	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		92.053	
Sn	120			
Sb	121			

00752

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	99.137
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-30A
Sample Date/Time: Tuesday, February 16, 2010 13:17:42
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-30A.058
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29236.626	0.007				ug/L
	Li	7	61739.477	0.163	**61.900570**	0.62	1.0	ug/L
	Be	9	2008.930	0.006	**9.498584**	0.68	7.1	ug/L
	B	11	31639.607	0.086	**117.278068**	2.82	2.4	ug/L
	Na	23	92183017.361	254.646	**157893.237070**	7411.48	4.7	ug/L
	Mg	24	10060176.201	27.786	**23885.182453**	1007.96	4.2	ug/L
	Al	27	20416617.715	56.359	**14975.437695**	588.54	3.9	ug/L
	K	39	3836302.912	10.411	**3590.459619**	70.75	2.0	ug/L
	Ca	43	66289.927	0.183	**12206.264110**	542.53	4.4	ug/L
>	Sc	45	362013.924	362013.924				ug/L
	Ti	49	921.389	0.001	**4.050814**	0.39	9.6	ug/L
	Co	59	128549.364	0.355	**60.399307**	1.53	2.5	ug/L
	Ni	60	32448.977	0.090	**77.064774**	2.24	2.9	ug/L
	Ni	62	5215.103	0.014	**80.787650**	4.49	5.6	ug/L
	Cu	63	10957.805	0.030	**10.585653**	0.50	4.7	ug/L
	Cu	65	4918.909	0.013	**9.638708**	0.70	7.3	ug/L
	Zn	66	73643.253	0.203	**227.368532**	12.29	5.4	ug/L
	Zn	67	13008.339	0.033	**229.776451**	15.36	6.7	ug/L
	Zn	68	53572.890	0.148	**228.877853**	14.33	6.3	ug/L
	V	51	4831.632	0.014	**2.613313**	0.30	11.4	ug/L
	Cr	52	9852.308	0.019	**3.612061**	0.20	5.6	ug/L
	Cr	53	15887.727	0.008	**3.074567**	2.42	78.6	ug/L
	Mn	55	2438293.483	6.736	**777.478709**	28.41	3.7	ug/L
	Fe	54	2820912.618	7.754	**18190.605769**	784.82	4.3	ug/L
	Fe	57	1142684.367	3.153	**17619.089299**	481.80	2.7	ug/L
	As	75	-355.026	0.000	**-0.095135**	0.20	213.0	ug/L
	Se	77	2505.741	-0.000	**-10.673280**	0.80	7.5	ug/L
	Se	82	39.583	0.000	**0.709635**	0.04	6.1	ug/L
	Sr	88	554471.119	0.760	**84.087238**	2.75	3.3	ug/L
>	Y	89	728797.752	728797.752				ug/L
	Mo	95	23.333	-0.000	**-0.274198**	0.00	1.8	ug/L
	Mo	97	20.667	-0.000	**-0.157660**	0.01	3.4	ug/L
	Mo	98	45.187	-0.001	**0.047240**	0.02	37.2	ug/L
	Ag	107	26.000	0.000	**-0.434888**	0.00	0.8	ug/L
	Ag	109	12.667	0.000	**-0.463771**	0.00	0.7	ug/L
	Cd	111	28791.314	0.132	**83.689822**	3.47	4.1	ug/L
	Cd	114	66792.977	0.306	**83.724575**	2.92	3.5	ug/L

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|>	In	115	218214.435	218214.435				ug/L
|	Sn	120	553.277	-0.001	**-0.081204**	0.02	26.4	ug/L
|	Sb	121	423.345	0.000	**0.280233**	0.03	11.7	ug/L
|	Sb	123	319.918	-0.000	**0.333902**	0.02	7.4	ug/L
⌈	Ba	135	3722.902	0.009	**10.134611**	0.53	5.3	ug/L
|	Ba	137	6504.749	0.016	**10.057632**	0.18	1.8	ug/L
|	Tb	159	364033.522	-0.014				ug/L
|>	Ho	165	401296.456	401296.456				ug/L
|	Tl	203	638.027	0.002	**-0.319132**	0.03	10.1	ug/L
|	Tl	205	1529.486	0.004	**-0.237014**	0.02	9.7	ug/L
⌊	Pb	208	13765.464	0.034	**1.504065**	0.06	3.7	ug/L
	Kr	83	36.267	15.600				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.696	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		135.401	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		85.045	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.573
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Tuesday, February 16, 2010 13:20:25
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 4.059
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27013.903	0.006				ug/L
|	Li	7	113448.813	0.323	**122.616384**	9.53	7.8	ug/L
|	Be	9	23957.292	0.070	**113.194297**	7.16	6.3	ug/L
|	B	11	30525.170	0.088	**119.540152**	6.38	5.3	ug/L
|	Na	23	3230909.355	9.373	**5828.541594**	369.47	6.3	ug/L
|	Mg	24	2293285.789	6.681	**5751.122538**	400.39	7.0	ug/L
|	Al	27	7407796.982	21.571	**5740.394751**	223.71	3.9	ug/L
|	K	39	6204770.800	17.918	**6172.893727**	175.91	2.8	ug/L
|	Ca	43	26805.303	0.078	**5191.598918**	224.36	4.3	ug/L
| >	Sc	45	342852.108	342852.108				ug/L
|	Ti	49	12869.424	0.036	**99.458681**	2.41	2.4	ug/L
|	Co	59	196598.190	0.574	**97.294286**	3.06	3.1	ug/L
|	Ni	60	37907.882	0.111	**95.108363**	4.27	4.5	ug/L
|	Ni	62	5731.469	0.017	**93.860212**	4.65	5.0	ug/L
|	Cu	63	92418.012	0.269	**95.146586**	3.72	3.9	ug/L
|	Cu	65	44052.494	0.128	**95.383630**	4.01	4.2	ug/L
|	Zn	66	29558.027	0.086	**96.401353**	2.84	2.9	ug/L
|	Zn	67	6101.087	0.015	**101.422384**	6.37	6.3	ug/L
|	Zn	68	21370.994	0.062	**96.164796**	4.38	4.6	ug/L
|	V	51	197287.621	0.576	**100.810691**	2.92	2.9	ug/L
|	Cr	52	167274.000	0.480	**99.731253**	2.61	2.6	ug/L
|	Cr	53	32805.137	0.059	**96.098930**	3.05	3.2	ug/L
|	Mn	55	298535.373	0.870	**100.219034**	3.26	3.3	ug/L
|	Fe	54	743677.577	2.129	**4996.973451**	152.62	3.1	ug/L
⌊	Fe	57	302988.284	0.880	**4924.394344**	182.72	3.7	ug/L
⌈	As	75	31441.019	0.066	**98.739375**	2.70	2.7	ug/L
|	Se	77	14648.610	0.027	**506.733059**	26.19	5.2	ug/L
|	Se	82	15991.018	0.033	**502.884232**	15.22	3.0	ug/L
|	Sr	88	438218.115	0.907	**100.247263**	2.26	2.3	ug/L
| >	Y	89	483299.538	483299.538				ug/L
|	Mo	95	52421.358	0.108	**100.826097**	2.88	2.9	ug/L
|	Mo	97	32219.343	0.066	**99.489375**	3.30	3.3	ug/L
⌊	Mo	98	82947.091	0.171	**100.502106**	4.50	4.5	ug/L
⌈	Ag	107	150424.795	0.652	**97.198522**	3.30	3.4	ug/L
|	Ag	109	143883.894	0.623	**97.619876**	2.58	2.6	ug/L
|	Cd	111	36274.501	0.157	**99.665563**	1.96	2.0	ug/L
|	Cd	114	84759.933	0.367	**100.422495**	1.16	1.2	ug/L

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|>	In	115	230893.941	230893.941				ug/L
|	Sn	120	160940.268	0.694	**98.923148**	2.91	2.9	ug/L
|	Sb	121	116888.779	0.505	**98.494080**	2.94	3.0	ug/L
L	Sb	123	90608.889	0.391	**98.508508**	2.25	2.3	ug/L
⌈	Ba	135	36278.699	0.092	**97.331673**	4.07	4.2	ug/L
|	Ba	137	64301.666	0.164	**97.660371**	3.57	3.7	ug/L
|	Tb	159	357348.843	-0.012				ug/L
|>	Ho	165	392922.268	392922.268				ug/L
|	Tl	203	178337.982	0.454	**98.282974**	3.48	3.5	ug/L
|	Tl	205	424476.527	1.081	**98.575146**	2.61	2.6	ug/L
L	Pb	208	575904.951	1.466	**98.246168**	3.31	3.4	ug/L
	Kr	83	21.067	0.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	122.616		
Be	9	113.194		
B	11	119.540		
Na	23	116.571		
Mg	24	115.022		
Al	27	112.557		
K	39	123.458		
Ca	43	103.832		
Sc	45		93.472	
Ti	49	99.459		
Co	59	97.294		
Ni	60	95.108		
Ni	62	93.860		
Cu	63	95.147		
Cu	65	95.384		
Zn	66	96.401		
Zn	67	101.422		
Zn	68	96.165		
V	51	100.811		
Cr	52	99.731		
Cr	53	96.099		
Mn	55	100.219		
Fe	54	99.939		
Fe	57	98.488		
As	75	98.739		
Se	77	101.347		
Se	82	100.577		
Sr	88	100.247		
Y	89		89.791	
Mo	95	100.826		
Mo	97	99.489		
Mo	98	100.502		
Ag	107	97.199		
Ag	109	97.620		
Cd	111	99.666		
Cd	114	100.422		
In	115		89.987	
Sn	120	98.923		
Sb	121	98.494		

Sb	123	98.509	
Ba	135	97.332	
Ba	137	97.660	
Tb	159		
Ho	165		93.579
Tl	203	98.283	
Tl	205	98.575	
Pb	208	98.246	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Tuesday, February 16, 2010 13:23:06
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 6.060
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30596.874	0.015				ug/L
|	Li	7	3354.065	0.002	**1.106848**	0.06	5.8	ug/L
|	Be	9	8.000	0.000	**0.603662**	0.02	4.1	ug/L
|	B	11	1318.113	0.002	**4.092062**	0.18	4.4	ug/L
|	Na	23	19825.601	-0.002	**16.613103**	2.41	14.5	ug/L
|	Mg	24	1566.833	-0.008	**3.097553**	1.00	32.2	ug/L
|	Al	27	6706.289	-0.029	**6.433354**	0.67	10.4	ug/L
|	K	39	48284.415	-0.046	**-6.961047**	1.51	21.7	ug/L
|	Ca	43	164.002	-0.000	**-5.982382**	5.97	99.8	ug/L
| >	Sc	45	348332.128	348332.128				ug/L
|	Ti	49	375.342	-0.000	**0.046807**	0.09	185.5	ug/L
|	Co	59	69.334	0.000	**0.463669**	0.01	2.8	ug/L
|	Ni	60	22.000	0.000	**0.011579**	0.01	76.9	ug/L
|	Ni	62	22.667	-0.000	**-0.165020**	0.16	96.3	ug/L
|	Cu	63	199.336	0.000	**0.092836**	0.01	8.7	ug/L
|	Cu	65	94.667	0.000	**-0.298810**	0.02	8.0	ug/L
|	Zn	66	85.334	-0.000	**0.362596**	0.04	9.7	ug/L
|	Zn	67	1406.796	0.001	**4.039315**	2.51	62.2	ug/L
|	Zn	68	88.001	-0.000	**-0.041307**	0.01	19.0	ug/L
|	V	51	-33.810	0.001	**0.260068**	0.55	210.5	ug/L
|	Cr	52	3006.588	0.000	**-0.264475**	0.10	36.8	ug/L
|	Cr	53	14405.483	0.005	**-1.460279**	3.00	205.3	ug/L
|	Mn	55	1239.433	0.003	**0.056299**	0.02	28.5	ug/L
|	Fe	54	12391.919	-0.006	**-9.313907**	3.95	42.4	ug/L
⌊	Fe	57	922.722	-0.002	**0.910591**	0.48	52.6	ug/L
⌈	As	75	-393.707	-0.000	**-0.580994**	0.13	21.7	ug/L
|	Se	77	1825.550	0.000	**-4.643391**	3.22	69.4	ug/L
|	Se	82	3.502	-0.000	**-0.006505**	0.09	1357.9	ug/L
|	Sr	88	267.338	0.000	**0.183281**	0.00	2.0	ug/L
| >	Y	89	486614.896	486614.896				ug/L
|	Mo	95	101.334	-0.000	**-0.110105**	0.06	51.4	ug/L
|	Mo	97	64.667	-0.000	**-0.001668**	0.02	1327.0	ug/L
⌊	Mo	98	143.262	-0.000	**0.183178**	0.02	10.8	ug/L
⌈	Ag	107	28.667	0.000	**-0.434344**	0.00	0.3	ug/L
|	Ag	109	20.000	0.000	**-0.459430**	0.00	0.4	ug/L
|	Cd	111	7.333	0.000	**-0.090559**	0.00	4.2	ug/L
|	Cd	114	17.951	0.000	**-0.077065**	0.02	23.1	ug/L

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|>	In	115	233621.852	233621.852				ug/L
|	Sn	120	801.256	-0.000	**0.046073**	0.02	44.5	ug/L
|	Sb	121	2052.942	0.007	**1.612767**	0.11	7.1	ug/L
_	Sb	123	1645.002	0.005	**1.732934**	0.10	6.0	ug/L
⌈	Ba	135	14.000	-0.000	**0.436340**	0.01	1.4	ug/L
|	Ba	137	32.000	0.000	**0.480690**	0.01	2.1	ug/L
|	Tb	159	363137.646	0.000				ug/L
|>	Ho	165	393917.303	393917.303				ug/L
|	Tl	203	146.668	0.000	**-0.584751**	0.02	3.1	ug/L
|	Tl	205	352.675	0.001	**-0.504700**	0.01	1.7	ug/L
_	Pb	208	186.001	0.000	**-0.781410**	0.01	0.9	ug/L
	Kr	83	21.000	0.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.966	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		90.407	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.050	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	93.816
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-30A
Sample Date/Time: Tuesday, February 16, 2010 13:25:48
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-30A.061
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	31198.831	0.016				ug/L
|	Li	7	17308.790	0.042	**80.959111**	1.50	1.8	ug/L
|	Be	9	508.017	0.001	**14.545516**	0.68	4.7	ug/L
|	B	11	8736.293	0.024	**164.130752**	3.91	2.4	ug/L
|	Na	23	23147946.334	66.223	**205373.527743**	6301.31	3.1	ug/L
|	Mg	24	2478272.534	7.083	**30482.166022**	1102.63	3.6	ug/L
|	Al	27	4980134.922	14.211	**18933.419727**	261.72	1.4	ug/L
|	K	39	961747.950	2.569	**4463.123379**	206.25	4.6	ug/L
|	Ca	43	16160.975	0.046	**15278.105579**	637.31	4.2	ug/L
| >	Sc	45	349260.338	349260.338				ug/L
|	Ti	49	540.686	0.000	**6.645201**	1.22	18.3	ug/L
|	Co	59	32248.818	0.092	**80.101473**	1.81	2.3	ug/L
|	Ni	60	8236.410	0.024	**101.200521**	3.43	3.4	ug/L
|	Ni	62	1260.103	0.003	**99.123031**	4.32	4.4	ug/L
|	Cu	63	2786.505	0.008	**13.543202**	0.36	2.7	ug/L
|	Cu	65	1252.102	0.003	**10.863747**	0.24	2.2	ug/L
|	Zn	66	20774.723	0.059	**332.627689**	16.65	5.0	ug/L
|	Zn	67	4672.087	0.011	**350.344308**	18.37	5.2	ug/L
|	Zn	68	14969.221	0.042	**329.724656**	4.67	1.4	ug/L
|	V	51	1976.473	0.006	**6.344443**	1.53	24.0	ug/L
|	Cr	52	4660.079	0.005	**3.583986**	0.38	10.5	ug/L
|	Cr	53	15076.766	0.007	**8.816828**	9.63	109.2	ug/L
|	Mn	55	588546.033	1.684	**970.953429**	23.33	2.4	ug/L
|	Fe	54	695269.298	1.949	**22880.917946**	505.86	2.2	ug/L
⌊	Fe	57	283108.998	0.806	**22566.804007**	456.38	2.0	ug/L
⌜	As	75	-449.225	-0.000	**-2.966644**	2.74	92.5	ug/L
|	Se	77	2088.950	0.000	**-19.098285**	11.99	62.8	ug/L
|	Se	82	11.889	0.000	**1.057287**	0.61	57.2	ug/L
|	Sr	88	136526.344	0.248	**137.512439**	4.18	3.0	ug/L
| >	Y	89	550726.131	550726.131				ug/L
|	Mo	95	30.000	-0.000	**-1.265437**	0.06	5.1	ug/L
|	Mo	97	15.333	-0.000	**-0.792425**	0.10	13.0	ug/L
⌊	Mo	98	42.521	-0.001	**0.281365**	0.03	10.3	ug/L
⌜	Ag	107	18.667	0.000	**-2.202263**	0.02	1.0	ug/L
|	Ag	109	9.333	0.000	**-2.332466**	0.01	0.5	ug/L
|	Cd	111	7673.827	0.034	**106.164354**	3.95	3.7	ug/L
|	Cd	114	17916.608	0.078	**106.937207**	3.00	2.8	ug/L

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|>	In	115	228377.043	228377.043				ug/L
|	Sn	120	635.941	-0.001	**-0.226423**	0.12	53.0	ug/L
|	Sb	121	622.692	0.001	**2.163749**	0.19	8.7	ug/L
|	Sb	123	515.845	0.001	**2.664444**	0.09	3.2	ug/L
|	Ba	135	934.724	0.002	**14.201093**	0.52	3.7	ug/L
|	Ba	137	1513.482	0.004	**13.343182**	0.26	2.0	ug/L
|	Tb	159	363800.995	-0.016				ug/L
|>	Ho	165	401784.143	401784.143				ug/L
|	Tl	203	192.002	0.000	**-2.807851**	0.06	2.2	ug/L
|	Tl	205	454.680	0.001	**-2.414421**	0.02	1.0	ug/L
|	Pb	208	3696.347	0.009	**-0.958854**	0.07	6.8	ug/L
	Kr	83	22.733	2.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.219	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		102.318	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		89.006	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.689
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-31A
Sample Date/Time: Tuesday, February 16, 2010 13:28:30
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-31A.062
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20281.426	-0.017				ug/L
	Li	7	200920.438	0.549	**207.841075**	5.88	2.8	ug/L
	Be	9	4354.566	0.012	**19.999795**	0.22	1.1	ug/L
	B	11	80344.368	0.221	**300.292317**	9.24	3.1	ug/L
	Na	23	196897692.854	545.594	**338275.795659**	3055.93	0.9	ug/L
	Mg	24	29095155.204	80.616	**69279.704370**	836.05	1.2	ug/L
	Al	27	149717528.944	414.917	**110160.367138**	3044.72	2.8	ug/L
	K	39	6665839.332	18.286	**6299.565648**	143.50	2.3	ug/L
	Ca	43	387296.152	1.073	**71701.165023**	568.88	0.8	ug/L
>	Sc	45	360854.603	360854.603				ug/L
	Ti	49	5749.481	0.015	**40.546566**	0.82	2.0	ug/L
	Co	59	276208.824	0.765	**129.679392**	1.23	0.9	ug/L
	Ni	60	62265.661	0.173	**148.365547**	1.44	1.0	ug/L
	Ni	62	10273.529	0.028	**160.118761**	6.30	3.9	ug/L
	Cu	63	3955.684	0.011	**3.762566**	0.06	1.6	ug/L
	Cu	65	2429.718	0.007	**4.520428**	0.27	6.1	ug/L
	Zn	66	69227.447	0.191	**214.352867**	2.53	1.2	ug/L
	Zn	67	12196.332	0.031	**214.579676**	7.64	3.6	ug/L
	Zn	68	48304.546	0.133	**206.897227**	2.98	1.4	ug/L
	V	51	168103.619	0.467	**81.651871**	1.29	1.6	ug/L
	Cr	52	73354.105	0.195	**40.338051**	0.72	1.8	ug/L
	Cr	53	20284.711	0.020	**25.189401**	0.68	2.7	ug/L
	Mn	55	11306489.108	31.334	**3617.299467**	46.47	1.3	ug/L
	Fe	54	23557724.094	65.249	**153046.244291**	2543.14	1.7	ug/L
	Fe	57	9850651.848	27.295	**152456.209503**	1337.73	0.9	ug/L
	As	75	10069.636	0.005	**7.671323**	0.14	1.9	ug/L
	Se	77	2903.214	-0.002	**-50.961697**	0.36	0.7	ug/L
	Se	82	100.625	0.000	**0.593513**	0.06	9.3	ug/L
	Sr	88	3510953.264	1.626	**179.690223**	1.87	1.0	ug/L
>	Y	89	2158591.543	2158591.543				ug/L
	Mo	95	644.694	-0.000	**-0.025546**	0.01	48.8	ug/L
	Mo	97	378.009	-0.000	**0.061677**	0.01	12.6	ug/L
	Mo	98	937.619	-0.000	**0.265257**	0.02	5.7	ug/L
	Ag	107	89.334	0.000	**-0.387854**	0.02	4.7	ug/L
	Ag	109	24.000	0.000	**-0.454798**	0.01	1.6	ug/L
	Cd	111	1036.903	0.005	**3.068816**	0.12	4.0	ug/L
	Cd	114	2430.592	0.012	**3.112747**	0.03	0.9	ug/L

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|>	In	115	207218.493	207218.493				ug/L
|	Sn	120	676.467	-0.000	**0.023158**	0.03	127.7	ug/L
|	Sb	121	614.691	0.001	**0.479807**	0.01	1.7	ug/L
\L	Sb	123	539.087	0.001	**0.618752**	0.04	6.2	ug/L
\[	Ba	135	4565.356	0.010	**11.037525**	0.37	3.3	ug/L
|	Ba	137	7940.098	0.018	**10.905737**	0.34	3.1	ug/L
|	Tb	159	397847.586	-0.038				ug/L
|>	Ho	165	450268.968	450268.968				ug/L
|	Tl	203	227.337	0.000	**-0.555548**	0.01	1.5	ug/L
|	Tl	205	492.016	0.001	**-0.486530**	0.00	1.0	ug/L
\L	Pb	208	36426.392	0.081	**4.654346**	0.22	4.7	ug/L
	Kr	83	124.801	104.134				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.380	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		401.037	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.760	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	107.236
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-31A
Sample Date/Time: Tuesday, February 16, 2010 13:31:12
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-31A.063
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29242.836	0.008				ug/L
|	Li	7	55133.213	0.145	**277.171666**	22.06	8.0	ug/L
|	Be	9	1286.108	0.004	**31.639981**	2.19	6.9	ug/L
|	B	11	24613.317	0.067	**458.025103**	15.43	3.4	ug/L
|	Na	23	53805544.278	149.693	**464122.575188**	39995.43	8.6	ug/L
|	Mg	24	7727615.095	21.498	**92412.259423**	8405.00	9.1	ug/L
|	Al	27	40083857.346	111.438	**147984.875808**	6270.78	4.2	ug/L
|	K	39	2133498.761	5.755	**9944.354497**	1078.48	10.8	ug/L
|	Ca	43	101473.347	0.282	**94153.289990**	5318.11	5.6	ug/L
| >	Sc	45	359803.000	359803.000				ug/L
|	Ti	49	1857.558	0.004	**55.974028**	3.52	6.3	ug/L
|	Co	59	71961.728	0.200	**171.105161**	6.11	3.6	ug/L
|	Ni	60	16837.747	0.047	**201.146313**	8.20	4.1	ug/L
|	Ni	62	2797.842	0.008	**216.865313**	7.77	3.6	ug/L
|	Cu	63	1086.744	0.003	**4.786708**	0.17	3.5	ug/L
|	Cu	65	637.360	0.002	**4.104687**	0.33	8.0	ug/L
|	Zn	66	18488.875	0.051	**287.509837**	11.94	4.2	ug/L
|	Zn	67	4430.613	0.010	**313.427070**	39.75	12.7	ug/L
|	Zn	68	14206.441	0.039	**303.753629**	9.65	3.2	ug/L
|	V	51	43443.828	0.122	**106.897618**	3.11	2.9	ug/L
|	Cr	52	21221.243	0.051	**51.229402**	2.96	5.8	ug/L
|	Cr	53	15772.825	0.008	**15.127941**	17.65	116.7	ug/L
|	Mn	55	3013934.897	8.383	**4837.663886**	238.01	4.9	ug/L
|	Fe	54	6228664.914	17.285	**202724.755714**	10342.17	5.1	ug/L
⌊	Fe	57	2588057.281	7.193	**200928.908742**	8142.56	4.1	ug/L
⌈	As	75	2465.444	0.003	**23.597148**	1.20	5.1	ug/L
|	Se	77	2140.966	-0.001	**-158.095898**	15.67	9.9	ug/L
|	Se	82	28.650	0.000	**1.813756**	0.57	31.5	ug/L
|	Sr	88	886409.127	0.973	**537.865800**	9.40	1.7	ug/L
| >	Y	89	910688.841	910688.841				ug/L
|	Mo	95	182.002	-0.000	**-0.588198**	0.07	11.9	ug/L
|	Mo	97	109.334	-0.000	**-0.103452**	0.04	38.2	ug/L
⌊	Mo	98	261.858	-0.000	**0.896351**	0.07	8.1	ug/L
⌈	Ag	107	27.333	0.000	**-2.173579**	0.03	1.2	ug/L
|	Ag	109	7.333	0.000	**-2.339054**	0.01	0.6	ug/L
|	Cd	111	309.006	0.001	**3.776765**	0.25	6.5	ug/L
|	Cd	114	740.199	0.003	**3.985999**	0.57	14.4	ug/L

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|>	In	115	226593.197	226593.197				ug/L
|	Sn	120	643.925	-0.001	**-0.186006**	0.12	65.4	ug/L
|	Sb	121	412.011	-0.000	**1.282347**	0.04	3.3	ug/L
\L	Sb	123	347.668	-0.000	**1.755651**	0.10	5.5	ug/L
⌈	Ba	135	1165.422	0.003	**16.626833**	0.43	2.6	ug/L
|	Ba	137	2044.272	0.005	**16.693562**	0.75	4.5	ug/L
|	Tb	159	375461.170	-0.023				ug/L
|>	Ho	165	417842.501	417842.501				ug/L
|	Tl	203	71.334	0.000	**-3.142452**	0.01	0.4	ug/L
|	Tl	205	139.335	0.000	**-2.780668**	0.02	0.7	ug/L
\L	Pb	208	9833.757	0.023	**3.885999**	0.33	8.6	ug/L
	Kr	83	44.733	24.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.094	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		169.194	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.311	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	99.514
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-31A
Sample Date/Time: Tuesday, February 16, 2010 13:33:53
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-31A.064
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32200.345	0.016				ug/L
|	Li	7	12699.146	0.027	**270.258419**	17.89	6.6	ug/L
|	Be	9	250.671	0.001	**42.253774**	3.22	7.6	ug/L
|	B	11	5404.567	0.014	**482.384664**	21.27	4.4	ug/L
|	Na	23	9538892.618	26.481	**410876.056213**	32324.33	7.9	ug/L
|	Mg	24	1337528.067	3.709	**79925.700197**	6600.60	8.3	ug/L
|	Al	27	7235604.698	20.069	**133544.220562**	5883.12	4.4	ug/L
|	K	39	427298.932	1.004	**8857.669830**	802.70	9.1	ug/L
|	Ca	43	18355.229	0.051	**84363.401980**	5423.79	6.4	ug/L
| >	Sc	45	359981.518	359981.518				ug/L
|	Ti	49	596.023	0.000	**40.686690**	9.89	24.3	ug/L
|	Co	59	13091.134	0.036	**164.396220**	7.55	4.6	ug/L
|	Ni	60	3123.968	0.009	**185.572160**	7.82	4.2	ug/L
|	Ni	62	549.353	0.001	**202.516456**	40.35	19.9	ug/L
|	Cu	63	228.003	0.000	**2.867116**	0.63	21.9	ug/L
|	Cu	65	181.336	0.000	**-3.119108**	1.70	54.4	ug/L
|	Zn	66	4065.074	0.011	**317.613537**	6.07	1.9	ug/L
|	Zn	67	2022.933	0.003	**380.804539**	73.31	19.3	ug/L
|	Zn	68	2773.833	0.007	**287.812182**	14.13	4.9	ug/L
|	V	51	8024.630	0.023	**104.054657**	16.33	15.7	ug/L
|	Cr	52	6067.726	0.008	**36.308141**	3.51	9.7	ug/L
|	Cr	53	14112.938	0.003	**-132.242586**	83.09	62.8	ug/L
|	Mn	55	526751.655	1.464	**4218.548608**	203.54	4.8	ug/L
|	Fe	54	1122602.126	3.080	**180720.446785**	9108.70	5.0	ug/L
⌊	Fe	57	457738.114	1.269	**177376.635166**	9351.70	5.3	ug/L
⌈	As	75	237.468	0.001	**31.560863**	6.16	19.5	ug/L
|	Se	77	1866.894	-0.000	**-341.557404**	131.40	38.5	ug/L
|	Se	82	6.229	-0.000	**1.332798**	3.36	251.9	ug/L
|	Sr	88	157776.345	0.277	**768.045416**	22.05	2.9	ug/L
| >	Y	89	569634.206	569634.206				ug/L
|	Mo	95	34.667	-0.000	**-6.187685**	0.27	4.3	ug/L
|	Mo	97	28.667	-0.000	**-3.095454**	1.19	38.4	ug/L
⌊	Mo	98	53.708	-0.001	**1.648132**	0.46	28.2	ug/L
⌈	Ag	107	12.000	0.000	**-11.128194**	0.08	0.7	ug/L
|	Ag	109	5.333	-0.000	**-11.735158**	0.07	0.6	ug/L
|	Cd	111	60.667	0.000	**1.340939**	0.47	35.0	ug/L
|	Cd	114	139.163	0.001	**1.594209**	0.23	14.2	ug/L

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|>	In	115	234774.662	234774.662				ug/L
|	Sn	120	666.602	-0.001	**-0.933400**	0.95	101.6	ug/L
|	Sb	121	357.342	-0.000	**4.971960**	0.43	8.6	ug/L
|	Sb	123	277.749	-0.000	**6.570693**	0.51	7.7	ug/L
⌈	Ba	135	203.336	0.000	**22.987936**	1.10	4.8	ug/L
|	Ba	137	363.342	0.001	**23.969600**	0.39	1.6	ug/L
|	Tb	159	370007.902	-0.019				ug/L
|>	Ho	165	409874.857	409874.857				ug/L
|	Tl	203	18.000	0.000	**-16.402533**	0.02	0.1	ug/L
|	Tl	205	44.000	0.000	**-14.422015**	0.03	0.2	ug/L
⌊	Pb	208	1858.757	0.004	**-12.670143**	0.42	3.3	ug/L
	Kr	83	21.867	1.200				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.142	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		105.830	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.499	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	97.616
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-32A
Sample Date/Time: Tuesday, February 16, 2010 13:36:34
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-32A.065
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30444.588	0.013				ug/L
|	Li	7	31005.891	0.080	**30.555366**	3.11	10.2	ug/L
|	Be	9	10.667	0.000	**0.614952**	0.01	2.3	ug/L
|	B	11	12640.394	0.034	**47.268131**	3.49	7.4	ug/L
|	Na	23	107470939.536	303.324	**188072.935366**	11384.72	6.1	ug/L
|	Mg	24	32111499.588	90.629	**77882.737735**	5005.32	6.4	ug/L
|	Al	27	26248.195	0.026	**21.007831**	2.00	9.5	ug/L
|	K	39	1349638.909	3.623	**1255.321230**	84.77	6.8	ug/L
|	Ca	43	549791.331	1.552	**103708.992830**	6843.33	6.6	ug/L
| >	Sc	45	354661.242	354661.242				ug/L
|	Ti	49	602.024	0.000	**1.736639**	0.01	0.8	ug/L
|	Co	59	1366.788	0.004	**1.080931**	0.03	2.7	ug/L
|	Ni	60	744.703	0.002	**1.765056**	0.10	5.7	ug/L
|	Ni	62	90.667	0.000	**0.913423**	0.15	16.1	ug/L
|	Cu	63	1555.491	0.004	**1.441517**	0.09	6.5	ug/L
|	Cu	65	245.337	0.001	**0.016038**	0.07	456.2	ug/L
|	Zn	66	1248.101	0.003	**4.022786**	0.26	6.3	ug/L
|	Zn	67	2206.983	0.004	**19.501892**	2.57	13.2	ug/L
|	Zn	68	3013.924	0.008	**12.742384**	0.68	5.3	ug/L
|	V	51	1070.262	0.004	**0.811330**	0.42	52.0	ug/L
|	Cr	52	3078.616	0.000	**-0.254380**	0.06	22.6	ug/L
|	Cr	53	14610.538	0.005	**-1.704934**	4.15	243.2	ug/L
|	Mn	55	238898.550	0.674	**77.516716**	5.32	6.9	ug/L
|	Fe	54	21352.960	0.019	**48.583700**	8.74	18.0	ug/L
⌊	Fe	57	10412.400	0.025	**150.396151**	16.33	10.9	ug/L
⌈	As	75	-72.392	0.000	**0.401050**	0.53	131.3	ug/L
|	Se	77	3082.620	0.003	**44.228691**	15.15	34.3	ug/L
|	Se	82	191.073	0.000	**5.802033**	0.50	8.6	ug/L
|	Sr	88	4393311.430	8.956	**988.891094**	84.68	8.6	ug/L
| >	Y	89	491984.514	491984.514				ug/L
|	Mo	95	646.694	0.001	**0.924724**	0.11	12.0	ug/L
|	Mo	97	391.343	0.001	**0.993920**	0.15	14.7	ug/L
⌊	Mo	98	1025.109	0.001	**1.233332**	0.09	7.3	ug/L
⌈	Ag	107	13.333	0.000	**-0.443680**	0.00	0.8	ug/L
|	Ag	109	6.667	0.000	**-0.468188**	0.00	0.5	ug/L
|	Cd	111	217.670	0.001	**0.509448**	0.04	7.6	ug/L
|	Cd	114	518.270	0.002	**0.537835**	0.03	5.0	ug/L

00775

|>	In	115	223283.926	223283.926				ug/L
|	Sn	120	654.448	-0.001	**-0.024479**	0.01	53.4	ug/L
|	Sb	121	1775.539	0.006	**1.453204**	0.13	8.8	ug/L
|	Sb	123	1347.018	0.004	**1.482222**	0.09	6.1	ug/L
⌈	Ba	135	215011.076	0.557	**584.482518**	41.64	7.1	ug/L
|	Ba	137	378046.624	0.979	**581.497331**	36.90	6.3	ug/L
|	Tb	159	345804.182	-0.028				ug/L
|>	Ho	165	387015.188	387015.188				ug/L
|	Tl	203	45.333	0.000	**-0.640029**	0.01	0.8	ug/L
|	Tl	205	122.001	0.000	**-0.557804**	0.00	0.2	ug/L
⌊	Pb	208	92029.218	0.238	**15.280208**	1.06	7.0	ug/L
	Kr	83	25.133	4.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.692	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.404	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.021	
Sn	120			
Sb	121			

00776

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	92.172
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-33A
Sample Date/Time: Tuesday, February 16, 2010 13:39:15
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-33A.066
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29349.155	0.008				ug/L
|	Li	7	83153.121	0.223	**84.688113**	1.01	1.2	ug/L
|	Be	9	2283.005	0.006	**10.774250**	0.11	1.0	ug/L
|	B	11	10037.214	0.026	**36.683405**	0.49	1.3	ug/L
|	Na	23	43971754.766	122.030	**75673.866136**	365.36	0.5	ug/L
|	Mg	24	12636637.029	35.076	**30149.607804**	680.28	2.3	ug/L
|	Al	27	9701559.037	26.894	**7153.675621**	218.89	3.1	ug/L
|	K	39	2478994.848	6.699	**2313.602534**	65.95	2.9	ug/L
|	Ca	43	304863.006	0.846	**56538.895105**	577.04	1.0	ug/L
| >	Sc	45	360176.956	360176.956				ug/L
|	Ti	49	1128.750	0.002	**5.650268**	0.38	6.7	ug/L
|	Co	59	74306.573	0.206	**35.268201**	0.75	2.1	ug/L
|	Ni	60	14504.331	0.040	**34.591210**	0.37	1.1	ug/L
|	Ni	62	2272.336	0.006	**35.072076**	2.30	6.6	ug/L
|	Cu	63	940.057	0.002	**0.812409**	0.01	1.0	ug/L
|	Cu	65	537.352	0.001	**0.610289**	0.15	24.3	ug/L
|	Zn	66	24207.367	0.067	**75.158344**	1.48	2.0	ug/L
|	Zn	67	5620.721	0.013	**85.860990**	4.26	5.0	ug/L
|	Zn	68	18065.194	0.050	**77.255889**	1.79	2.3	ug/L
|	V	51	53267.709	0.149	**26.112985**	0.34	1.3	ug/L
|	Cr	52	43253.962	0.112	**22.985450**	0.60	2.6	ug/L
|	Cr	53	20546.747	0.021	**26.694711**	2.75	10.3	ug/L
|	Mn	55	4737720.636	13.155	**1518.490152**	40.93	2.7	ug/L
|	Fe	54	3010183.910	8.318	**19512.858534**	570.63	2.9	ug/L
⌊	Fe	57	1236392.766	3.429	**19158.353983**	438.45	2.3	ug/L
⌈	As	75	-220.926	0.000	**0.167204**	0.35	208.3	ug/L
|	Se	77	2781.172	0.000	**-1.737963**	5.35	308.0	ug/L
|	Se	82	30.528	0.000	**0.535570**	0.10	18.3	ug/L
|	Sr	88	1742559.626	2.447	**270.347434**	6.63	2.5	ug/L
| >	Y	89	712215.856	712215.856				ug/L
|	Mo	95	49.334	-0.000	**-0.239682**	0.02	9.1	ug/L
|	Mo	97	16.667	-0.000	**-0.165074**	0.02	9.1	ug/L
⌊	Mo	98	39.635	-0.001	**0.043650**	0.01	13.9	ug/L
⌈	Ag	107	22.667	0.000	**-0.437509**	0.00	0.7	ug/L
|	Ag	109	7.333	0.000	**-0.467781**	0.00	0.3	ug/L
|	Cd	111	935.557	0.004	**2.546557**	0.08	3.2	ug/L
|	Cd	114	2225.038	0.010	**2.626391**	0.06	2.1	ug/L

00778

|>	In	115	223632.143	223632.143				ug/L
|	Sn	120	621.830	-0.001	**-0.046417**	0.03	56.2	ug/L
|	Sb	121	389.343	-0.000	**0.241566**	0.02	10.1	ug/L
|	Sb	123	336.744	-0.000	**0.343658**	0.00	1.1	ug/L
⌈	Ba	135	4390.587	0.011	**11.558870**	0.26	2.3	ug/L
|	Ba	137	7729.885	0.019	**11.552307**	0.29	2.6	ug/L
|	Tb	159	370823.284	-0.023				ug/L
|>	Ho	165	412697.434	412697.434				ug/L
|	Tl	203	41.333	0.000	**-0.643816**	0.00	0.7	ug/L
|	Tl	205	141.335	0.000	**-0.555285**	0.01	0.9	ug/L
⌊	Pb	208	8072.997	0.019	**0.508177**	0.02	4.6	ug/L
	Kr	83	34.800	14.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		98.196	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		132.320	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.157	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	98.288
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-34A
Sample Date/Time: Tuesday, February 16, 2010 13:41:55
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-34A.067
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30828.071	0.013				ug/L
|	Li	7	42256.497	0.110	**42.107387**	1.79	4.3	ug/L
|	Be	9	10.000	0.000	**0.611213**	0.01	2.4	ug/L
|	B	11	18611.154	0.051	**69.400060**	1.68	2.4	ug/L
|	Na	23	43726493.982	122.214	**75788.125529**	3202.78	4.2	ug/L
|	Mg	24	9083399.055	25.391	**21827.619971**	1785.66	8.2	ug/L
|	Al	27	88535.006	0.199	**67.046121**	2.18	3.3	ug/L
|	K	39	2696811.577	7.359	**2540.403434**	243.45	9.6	ug/L
|	Ca	43	219314.468	0.613	**40963.041985**	1874.91	4.6	ug/L
| >	Sc	45	357751.722	357751.722				ug/L
|	Ti	49	699.365	0.001	**2.442939**	0.52	21.3	ug/L
|	Co	59	226.670	0.000	**0.537036**	0.01	2.6	ug/L
|	Ni	60	269.338	0.001	**0.605177**	0.09	14.8	ug/L
|	Ni	62	48.000	-0.000	**0.227284**	0.20	86.0	ug/L
|	Cu	63	893.385	0.002	**0.773336**	0.07	8.5	ug/L
|	Cu	65	294.672	0.001	**0.113112**	0.02	20.3	ug/L
|	Zn	66	686.697	0.002	**2.235228**	0.18	7.8	ug/L
|	Zn	67	2205.650	0.003	**19.036425**	2.20	11.6	ug/L
|	Zn	68	2276.338	0.006	**9.420578**	0.52	5.5	ug/L
|	V	51	5081.144	0.015	**2.757949**	0.39	14.3	ug/L
|	Cr	52	3331.388	0.001	**-0.123110**	0.08	66.2	ug/L
|	Cr	53	15501.614	0.007	**2.106989**	3.87	183.9	ug/L
|	Mn	55	5321.845	0.014	**1.364801**	0.14	10.1	ug/L
|	Fe	54	24476.488	0.027	**67.755734**	6.08	9.0	ug/L
⌊	Fe	57	6764.974	0.015	**91.773241**	3.86	4.2	ug/L
⌈	As	75	-327.367	-0.000	**-0.370049**	0.13	34.6	ug/L
|	Se	77	2611.110	0.002	**25.766994**	2.72	10.6	ug/L
|	Se	82	17.964	0.000	**0.442026**	0.03	6.4	ug/L
|	Sr	88	1369070.237	2.797	**308.901580**	15.30	5.0	ug/L
| >	Y	89	489820.785	489820.785				ug/L
|	Mo	95	1392.126	0.002	**2.347622**	0.24	10.4	ug/L
|	Mo	97	859.382	0.001	**2.426716**	0.34	13.9	ug/L
⌊	Mo	98	2204.097	0.004	**2.644305**	0.08	3.2	ug/L
⌈	Ag	107	8.000	0.000	**-0.447437**	0.00	0.6	ug/L
|	Ag	109	9.333	0.000	**-0.466461**	0.00	0.6	ug/L
|	Cd	111	12.333	0.000	**-0.076170**	0.01	17.9	ug/L
|	Cd	114	22.980	0.000	**-0.070581**	0.01	14.3	ug/L

00781

|>	In	115	228217.918	228217.918				ug/L
|	Sn	120	634.600	-0.001	**-0.046568**	0.03	55.8	ug/L
|	Sb	121	499.350	0.000	**0.328929**	0.06	17.6	ug/L
_	Sb	123	393.087	0.000	**0.397847**	0.01	3.3	ug/L
⌈	Ba	135	162636.657	0.408	**428.539459**	13.66	3.2	ug/L
|	Ba	137	288178.688	0.723	**429.755067**	13.07	3.0	ug/L
|	Tb	159	358691.197	-0.022				ug/L
|>	Ho	165	398617.425	398617.425				ug/L
|	Tl	203	11.333	-0.000	**-0.659498**	0.00	0.6	ug/L
|	Tl	205	29.333	-0.000	**-0.579958**	0.00	0.3	ug/L
_	Pb	208	1980.100	0.005	**-0.477672**	0.01	2.8	ug/L
	Kr	83	21.600	0.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.534	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		91.002	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		88.944	
Sn	120			
Sb	121			

00782

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	94.935
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-35A
Sample Date/Time: Tuesday, February 16, 2010 13:44:36
Sample Type: Sample
Sample Description: 1
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\10020428-35A.068
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36230.442	0.023				ug/L
|	Li	7	12317.866	0.025	**9.795868**	0.44	4.4	ug/L
|	Be	9	7.333	0.000	**0.597938**	0.02	3.6	ug/L
|	B	11	24268.277	0.063	**85.917423**	0.54	0.6	ug/L
|	Na	23	41063662.618	108.708	**67414.396495**	2501.94	3.7	ug/L
|	Mg	24	201474.121	0.521	**457.773431**	16.80	3.7	ug/L
|	Al	27	111602.925	0.248	**79.877416**	5.05	6.3	ug/L
|	K	39	770946.827	1.858	**648.202012**	32.98	5.1	ug/L
|	Ca	43	8961.222	0.023	**1548.570980**	24.11	1.6	ug/L
| >	Sc	45	377713.239	377713.239				ug/L
|	Ti	49	928.056	0.001	**3.800298**	0.51	13.4	ug/L
|	Co	59	224.003	0.000	**0.529560**	0.02	3.5	ug/L
|	Ni	60	171.335	0.000	**0.348688**	0.05	13.5	ug/L
|	Ni	62	76.000	0.000	**0.598679**	0.22	36.3	ug/L
|	Cu	63	1312.779	0.003	**1.119578**	0.05	4.4	ug/L
|	Cu	65	497.350	0.001	**0.477804**	0.16	34.2	ug/L
|	Zn	66	461.347	0.001	**1.450738**	0.13	8.8	ug/L
|	Zn	67	1712.191	0.002	**7.578929**	2.55	33.7	ug/L
|	Zn	68	522.685	0.001	**1.713937**	0.25	14.8	ug/L
|	V	51	2222.694	0.007	**1.315805**	0.23	17.7	ug/L
|	Cr	52	3706.893	0.001	**-0.015475**	0.13	815.6	ug/L
|	Cr	53	16241.142	0.007	**1.500428**	2.44	162.4	ug/L
|	Mn	55	86782.369	0.229	**26.204599**	1.37	5.2	ug/L
|	Fe	54	26441.811	0.029	**71.661810**	11.02	15.4	ug/L
⌊	Fe	57	4755.471	0.008	**56.568000**	5.40	9.5	ug/L
⌈	As	75	-307.801	0.000	**-0.248229**	0.44	176.8	ug/L
|	Se	77	2315.015	0.001	**8.824971**	1.62	18.4	ug/L
|	Se	82	9.230	0.000	**0.153065**	0.12	80.7	ug/L
|	Sr	88	57827.465	0.111	**12.400054**	0.20	1.6	ug/L
| >	Y	89	519862.993	519862.993				ug/L
|	Mo	95	707.366	0.001	**0.964301**	0.03	3.5	ug/L
|	Mo	97	423.345	0.001	**1.015783**	0.14	13.6	ug/L
⌊	Mo	98	1106.600	0.002	**1.256487**	0.02	1.9	ug/L
⌈	Ag	107	12.667	0.000	**-0.445043**	0.00	0.5	ug/L
|	Ag	109	2.667	-0.000	**-0.471203**	0.00	0.3	ug/L
|	Cd	111	11.667	0.000	**-0.080891**	0.01	7.9	ug/L
|	Cd	114	33.036	0.000	**-0.061822**	0.01	12.0	ug/L

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|>	In	115	248656.611	248656.611				ug/L
|	Sn	120	687.954	-0.001	**-0.048192**	0.00	7.8	ug/L
|	Sb	121	362.009	-0.000	**0.185980**	0.01	4.4	ug/L
\L	Sb	123	311.251	-0.000	**0.280014**	0.01	4.9	ug/L
\[	Ba	135	5073.007	0.012	**12.566323**	0.16	1.3	ug/L
|	Ba	137	9094.717	0.021	**12.770608**	0.21	1.7	ug/L
|	Tb	159	390267.729	-0.030				ug/L
|>	Ho	165	437519.959	437519.959				ug/L
|	Tl	203	7.333	-0.000	**-0.662026**	0.00	0.3	ug/L
|	Tl	205	22.667	-0.000	**-0.581990**	0.00	0.2	ug/L
\L	Pb	208	6453.070	0.015	**0.183651**	0.05	29.4	ug/L
	Kr	83	21.667	1.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		102.977	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.584	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		96.910	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	104.200
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Tuesday, February 16, 2010 13:47:18
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 4.069
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27954.934	0.006				ug/L
|	Li	7	114879.462	0.317	**120.194377**	3.56	3.0	ug/L
|	Be	9	25178.672	0.071	**115.246907**	2.76	2.4	ug/L
|	B	11	30607.352	0.085	**115.977369**	6.83	5.9	ug/L
|	Na	23	3115760.877	8.755	**5445.626488**	108.53	2.0	ug/L
|	Mg	24	2311156.058	6.528	**5619.696724**	39.17	0.7	ug/L
|	Al	27	7119070.418	20.122	**5355.719765**	128.47	2.4	ug/L
|	K	39	6434380.154	18.014	**6205.882441**	162.11	2.6	ug/L
|	Ca	43	26394.635	0.074	**4958.166388**	29.23	0.6	ug/L
| >	Sc	45	353225.966	353225.966				ug/L
|	Ti	49	12706.497	0.035	**95.263825**	2.77	2.9	ug/L
|	Co	59	191721.561	0.543	**92.179360**	2.50	2.7	ug/L
|	Ni	60	37552.834	0.106	**91.504249**	2.77	3.0	ug/L
|	Ni	62	5614.056	0.016	**89.093526**	1.39	1.6	ug/L
|	Cu	63	90702.689	0.257	**90.698516**	3.09	3.4	ug/L
|	Cu	65	43705.249	0.124	**91.881311**	2.58	2.8	ug/L
|	Zn	66	29400.102	0.083	**93.175753**	3.23	3.5	ug/L
|	Zn	67	6107.760	0.015	**97.874961**	2.89	3.0	ug/L
|	Zn	68	21348.281	0.060	**93.259184**	2.26	2.4	ug/L
|	V	51	193662.107	0.550	**96.129083**	2.63	2.7	ug/L
|	Cr	52	166795.802	0.464	**96.528731**	2.54	2.6	ug/L
|	Cr	53	32735.585	0.057	**90.793790**	3.44	3.8	ug/L
|	Mn	55	294185.536	0.833	**95.902403**	2.52	2.6	ug/L
|	Fe	54	730329.045	2.029	**4763.852762**	175.85	3.7	ug/L
⌊	Fe	57	298063.983	0.841	**4704.645816**	137.75	2.9	ug/L
⌈	As	75	32048.111	0.066	**99.215972**	1.76	1.8	ug/L
|	Se	77	14187.747	0.025	**480.418700**	7.55	1.6	ug/L
|	Se	82	16311.581	0.033	**505.702555**	12.75	2.5	ug/L
|	Sr	88	436633.938	0.891	**98.493773**	4.27	4.3	ug/L
| >	Y	89	490080.505	490080.505				ug/L
|	Mo	95	51752.627	0.105	**98.092568**	3.79	3.9	ug/L
|	Mo	97	32145.172	0.065	**97.801264**	2.02	2.1	ug/L
⌊	Mo	98	82198.425	0.167	**98.147538**	1.83	1.9	ug/L
⌈	Ag	107	151127.354	0.645	**96.214081**	3.60	3.7	ug/L
|	Ag	109	143805.003	0.614	**96.203800**	3.19	3.3	ug/L
|	Cd	111	36964.028	0.158	**100.091748**	3.43	3.4	ug/L
|	Cd	114	85782.511	0.366	**100.150857**	2.79	2.8	ug/L

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|>	In	115	234341.260	234341.260				ug/L
|	Sn	120	161384.224	0.686	**97.760349**	2.43	2.5	ug/L
|	Sb	121	115420.170	0.491	**95.881495**	2.68	2.8	ug/L
|	Sb	123	90714.220	0.386	**97.247355**	3.10	3.2	ug/L
|	Ba	135	36976.174	0.090	**94.980430**	1.63	1.7	ug/L
|	Ba	137	64413.350	0.157	**93.634458**	0.70	0.7	ug/L
|	Tb	159	371910.859	-0.015				ug/L
|>	Ho	165	410500.928	410500.928				ug/L
|	Tl	203	181169.054	0.442	**95.576976**	1.60	1.7	ug/L
|	Tl	205	432182.093	1.054	**96.111084**	2.20	2.3	ug/L
|	Pb	208	583530.573	1.424	**95.361805**	3.30	3.5	ug/L
	Kr	83	20.800	0.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	120.194		
Be	9	115.247		
B	11	115.977		
Na	23	108.913		
Mg	24	112.394		
Al	27	105.014		
K	39	124.118		
Ca	43	99.163		
Sc	45		96.301	
Ti	49	95.264		
Co	59	92.179		
Ni	60	91.504		
Ni	62	89.094		
Cu	63	90.699		
Cu	65	91.881		
Zn	66	93.176		
Zn	67	97.875		
Zn	68	93.259		
V	51	96.129		
Cr	52	96.529		
Cr	53	90.794		
Mn	55	95.902		
Fe	54	95.277		
Fe	57	94.093		
As	75	99.216		
Se	77	96.084		
Se	82	101.141		
Sr	88	98.494		
Y	89		91.050	
Mo	95	98.093		
Mo	97	97.801		
Mo	98	98.148		
Ag	107	96.214		
Ag	109	96.204		
Cd	111	100.092		
Cd	114	100.151		
In	115		91.330	
Sn	120	97.760		
Sb	121	95.881		

Sb	123	97.247	
Ba	135	94.980	
Ba	137	93.634	
Tb	159		
Ho	165		97.765
Tl	203	95.577	
Tl	205	96.111	
Pb	208	95.362	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Tuesday, February 16, 2010 13:49:58
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\QC Std 6.070
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29543.808	0.014				ug/L
|	Li	7	3206.002	0.002	**1.065857**	0.13	11.9	ug/L
|	Be	9	8.667	0.000	**0.607786**	0.01	1.8	ug/L
|	B	11	1191.426	0.002	**3.758986**	0.45	12.0	ug/L
|	Na	23	13712.237	-0.018	**6.562042**	1.28	19.5	ug/L
|	Mg	24	833.383	-0.011	**1.362148**	0.80	58.7	ug/L
|	Al	27	3350.745	-0.038	**3.964410**	0.48	12.1	ug/L
|	K	39	47781.320	-0.043	**-5.861731**	0.81	13.8	ug/L
|	Ca	43	168.002	-0.000	**-4.094317**	3.27	79.9	ug/L
| >	Sc	45	336788.643	336788.643				ug/L
|	Ti	49	342.008	-0.000	**-0.120390**	0.25	204.5	ug/L
|	Co	59	74.667	0.000	**0.467437**	0.01	3.2	ug/L
|	Ni	60	20.000	0.000	**0.008421**	0.02	224.3	ug/L
|	Ni	62	33.333	-0.000	**0.029588**	0.26	870.5	ug/L
|	Cu	63	154.668	0.000	**0.052997**	0.03	60.1	ug/L
|	Cu	65	108.001	0.000	**-0.262065**	0.01	2.4	ug/L
|	Zn	66	77.334	-0.000	**0.345655**	0.03	9.0	ug/L
|	Zn	67	1308.112	0.001	**2.936230**	3.12	106.4	ug/L
|	Zn	68	141.335	-0.000	**0.217098**	0.12	54.7	ug/L
|	V	51	487.973	0.002	**0.532760**	0.24	45.0	ug/L
|	Cr	52	2859.866	0.000	**-0.294242**	0.09	31.9	ug/L
|	Cr	53	13408.347	0.004	**-4.246307**	2.37	55.9	ug/L
|	Mn	55	606.691	0.001	**-0.146400**	0.03	17.7	ug/L
|	Fe	54	12012.115	-0.006	**-9.123520**	3.53	38.7	ug/L
⌊	Fe	57	807.376	-0.002	**-0.492268**	0.94	190.1	ug/L
⌈	As	75	-393.320	-0.000	**-0.629293**	0.39	62.6	ug/L
|	Se	77	1824.883	0.000	**-2.128788**	3.75	176.1	ug/L
|	Se	82	6.528	0.000	**0.095193**	0.04	39.1	ug/L
|	Sr	88	203.336	0.000	**0.170260**	0.01	4.9	ug/L
| >	Y	89	470518.659	470518.659				ug/L
|	Mo	95	84.667	-0.000	**-0.136329**	0.01	9.7	ug/L
|	Mo	97	49.334	-0.000	**-0.042136**	0.07	164.9	ug/L
⌊	Mo	98	133.115	-0.000	**0.176357**	0.02	8.9	ug/L
⌈	Ag	107	16.000	0.000	**-0.442028**	0.01	2.3	ug/L
|	Ag	109	24.000	0.000	**-0.456180**	0.01	3.1	ug/L
|	Cd	111	9.333	0.000	**-0.084070**	0.01	7.3	ug/L
|	Cd	114	10.055	0.000	**-0.086136**	0.01	14.3	ug/L

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|>	In	115	224493.848	224493.848				ug/L
|	Sn	120	759.927	-0.000	**0.040139**	0.01	18.0	ug/L
|	Sb	121	1989.591	0.007	**1.626747**	0.06	3.4	ug/L
|	Sb	123	1507.724	0.005	**1.653206**	0.09	5.5	ug/L
⌈	Ba	135	21.333	-0.000	**0.456546**	0.01	2.8	ug/L
|	Ba	137	36.000	0.000	**0.487379**	0.00	0.9	ug/L
|	Tb	159	350663.053	-0.017				ug/L
|>	Ho	165	387740.489	387740.489				ug/L
|	Tl	203	120.668	0.000	**-0.597736**	0.01	1.5	ug/L
|	Tl	205	330.674	0.001	**-0.508473**	0.00	0.1	ug/L
⌊	Pb	208	158.001	0.000	**-0.785816**	0.00	0.4	ug/L
	Kr	83	17.733	-2.933				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.819	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		87.416	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.493	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	92.345
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Tuesday, February 16, 2010 13:52:39
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\ICSA.071
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27619.121	0.013				ug/L
|	Li	7	3174.655	0.002	**1.196078**	0.14	11.6	ug/L
|	Be	9	5.333	0.000	**0.592922**	0.02	2.5	ug/L
|	B	11	1362.121	0.003	**4.699104**	0.16	3.3	ug/L
|	Na	23	54342782.185	168.725	**104623.797829**	1924.49	1.8	ug/L
|	Mg	24	39413566.617	122.370	**105155.823027**	2623.62	2.5	ug/L
|	Al	27	121811920.927	378.302	**100440.265644**	2793.73	2.8	ug/L
|	K	39	92136013.723	285.941	**98374.236340**	2189.80	2.2	ug/L
|	Ca	43	470403.881	1.461	**97618.357967**	1289.99	1.3	ug/L
| >	Sc	45	322004.967	322004.967				ug/L
|	Ti	49	241073.462	0.747	**2038.013997**	29.21	1.4	ug/L
|	Co	59	3268.695	0.010	**2.144895**	0.08	3.7	ug/L
|	Ni	60	1000.065	0.003	**2.628725**	0.05	1.8	ug/L
|	Ni	62	628.026	0.002	**10.475370**	0.08	0.7	ug/L
|	Cu	63	1883.564	0.006	**1.956623**	0.09	4.4	ug/L
|	Cu	65	1085.410	0.003	**2.011442**	0.18	9.0	ug/L
|	Zn	66	970.728	0.003	**3.455007**	0.13	3.7	ug/L
|	Zn	67	1328.115	0.001	**4.630237**	1.31	28.4	ug/L
|	Zn	68	330.674	0.001	**1.159137**	0.11	9.3	ug/L
|	V	51	508.434	0.002	**0.556003**	0.15	27.6	ug/L
|	Cr	52	5208.430	0.008	**1.308374**	0.11	8.1	ug/L
|	Cr	53	11083.314	-0.002	**-13.937608**	1.10	7.9	ug/L
|	Mn	55	20118.944	0.062	**6.860716**	0.16	2.4	ug/L
|	Fe	54	13223046.023	41.035	**96251.920451**	2488.56	2.6	ug/L
⌊	Fe	57	5447558.157	16.917	**94493.999364**	1819.51	1.9	ug/L
⌈	As	75	-262.383	0.000	**-0.241508**	0.38	156.2	ug/L
|	Se	77	2104.288	0.001	**13.044145**	0.59	4.5	ug/L
|	Se	82	-15.276	-0.000	**-0.632131**	0.13	20.6	ug/L
|	Sr	88	10077.267	0.022	**2.593660**	0.12	4.5	ug/L
| >	Y	89	450533.766	450533.766				ug/L
|	Mo	95	1000731.081	2.222	**2071.261738**	102.44	4.9	ug/L
|	Mo	97	609202.273	1.353	**2022.338087**	103.80	5.1	ug/L
⌊	Mo	98	1568897.207	3.484	**2039.214139**	107.51	5.3	ug/L
⌈	Ag	107	154.668	0.001	**-0.340789**	0.01	1.7	ug/L
|	Ag	109	124.668	0.001	**-0.378237**	0.00	0.8	ug/L
|	Cd	111	783.207	0.004	**2.291521**	0.13	5.6	ug/L
|	Cd	114	1388.394	0.007	**1.738500**	0.17	9.6	ug/L

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|>	In	115	207169.859	207169.859				ug/L
|	Sn	120	729.992	0.000	**0.059630**	0.01	19.3	ug/L
|	Sb	121	665.362	0.001	**0.527267**	0.05	9.6	ug/L
\L	Sb	123	534.932	0.001	**0.613861**	0.04	6.6	ug/L
|	Ba	135	510.017	0.001	**1.910280**	0.02	0.9	ug/L
|	Ba	137	946.058	0.003	**2.018655**	0.02	1.0	ug/L
|	Tb	159	310638.707	-0.044				ug/L
|>	Ho	165	354069.685	354069.685				ug/L
|	Tl	203	273.338	0.001	**-0.497503**	0.02	3.4	ug/L
|	Tl	205	634.026	0.002	**-0.422416**	0.01	2.5	ug/L
\L	Pb	208	1390.716	0.004	**-0.548040**	0.01	2.4	ug/L
	Kr	83	43.733	23.067				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		87.789	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		83.703	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		80.741	
Sn	120			
Sb	121			

00794

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	84.326
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Tuesday, February 16, 2010 13:55:20
Sample Type: Spike - 2 of 47
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002160907MS\ICSAB.072
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27805.706	0.012				ug/L
|	Li	7	3109.296	0.002	**1.067952**	0.16	14.6	ug/L
|	Be	9	6.000	0.000	**0.595933**	0.02	2.8	ug/L
|	B	11	1212.096	0.002	**3.998050**	0.29	7.1	ug/L
|	Na	23	54389498.524	166.528	**103262.002573**	1487.30	1.4	ug/L
|	Mg	24	38948546.858	119.287	**102507.097116**	885.09	0.9	ug/L
|	Al	27	122731021.172	375.923	**99808.594669**	2162.88	2.2	ug/L
|	K	39	91899236.303	281.279	**96770.388247**	612.56	0.6	ug/L
|	Ca	43	483663.961	1.481	**99002.541126**	3113.69	3.1	ug/L
| >	Sc	45	326492.519	326492.519				ug/L
|	Ti	49	243487.465	0.745	**2030.444315**	56.37	2.8	ug/L
|	Co	59	148438.631	0.455	**77.200509**	0.87	1.1	ug/L
|	Ni	60	28463.906	0.087	**74.935730**	0.42	0.6	ug/L
|	Ni	62	4854.865	0.015	**83.383418**	1.28	1.5	ug/L
|	Cu	63	66202.328	0.202	**71.513187**	0.81	1.1	ug/L
|	Cu	65	32181.853	0.098	**73.017930**	0.97	1.3	ug/L
|	Zn	66	10999.873	0.033	**37.702782**	1.46	3.9	ug/L
|	Zn	67	2971.241	0.006	**39.833222**	1.97	4.9	ug/L
|	Zn	68	7627.785	0.023	**35.753397**	1.63	4.6	ug/L
|	V	51	151058.314	0.464	**81.101844**	1.80	2.2	ug/L
|	Cr	52	129794.578	0.389	**80.865018**	1.60	2.0	ug/L
|	Cr	53	26351.733	0.045	**69.198992**	3.66	5.3	ug/L
|	Mn	55	240554.693	0.736	**84.717956**	1.85	2.2	ug/L
|	Fe	54	13331541.528	40.796	**95690.900344**	1426.58	1.5	ug/L
⌊	Fe	57	5482879.013	16.790	**93785.328776**	1559.65	1.7	ug/L
⌈	As	75	10429.088	0.024	**35.946778**	1.15	3.2	ug/L
|	Se	77	3088.621	0.003	**56.680891**	7.95	14.0	ug/L
|	Se	82	1163.415	0.003	**39.588172**	0.97	2.5	ug/L
|	Sr	88	10296.888	0.023	**2.675078**	0.03	1.2	ug/L
| >	Y	89	445410.501	445410.501				ug/L
|	Mo	95	1016505.949	2.283	**2127.475633**	71.47	3.4	ug/L
|	Mo	97	614860.862	1.381	**2063.912953**	70.83	3.4	ug/L
⌊	Mo	98	1584644.417	3.558	**2082.757932**	79.90	3.8	ug/L
⌈	Ag	107	27131.122	0.130	**19.074652**	0.57	3.0	ug/L
|	Ag	109	25484.146	0.122	**18.791113**	0.18	0.9	ug/L
|	Cd	111	13546.754	0.065	**41.211029**	0.88	2.1	ug/L
|	Cd	114	31280.368	0.150	**41.043939**	0.87	2.1	ug/L

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|>	In	115	208165.783	208165.783				ug/L
|	Sn	120	746.652	0.000	**0.068743**	0.04	62.4	ug/L
|	Sb	121	467.348	0.000	**0.339415**	0.00	1.4	ug/L
|	Sb	123	346.171	0.000	**0.383150**	0.02	4.1	ug/L
|	Ba	135	546.019	0.001	**2.002764**	0.08	4.2	ug/L
|	Ba	137	919.388	0.003	**1.960868**	0.05	2.8	ug/L
|	Tb	159	314308.509	-0.042				ug/L
|>	Ho	165	357215.783	357215.783				ug/L
|	Tl	203	250.004	0.001	**-0.513158**	0.00	0.7	ug/L
|	Tl	205	588.022	0.002	**-0.435671**	0.00	0.5	ug/L
|	Pb	208	1379.383	0.004	**-0.552502**	0.01	1.2	ug/L
	Kr	83	44.200	23.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		89.012	
Ti	49			
Co	59			93.820
Ni	60			90.384
Ni	62			91.135
Cu	63			86.946
Cu	65			88.758
Zn	66			85.619
Zn	67			88.007
Zn	68			86.486
V	51			100.682
Cr	52			99.446
Cr	53			103.921
Mn	55			97.322
Fe	54			
Fe	57			
As	75			90.471
Se	77			109.092
Se	82			100.551
Sr	88			
Y	89		82.751	
Mo	95			
Mo	97			
Mo	98			
Ag	107			97.077
Ag	109			95.847
Cd	111			97.299
Cd	114			98.264
In	115		81.129	
Sn	120			
Sb	121			

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Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	85.075
Tl	203	
Tl	205	
Pb	208	
Kr	83	

1002170918ms
2-17-10
RD

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

00799

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
149	10020428-20A As 6020-W-ALL Batch # 87095	4	Sample
247	10020428-33A As 6020-W-ALL Batch # 87096	5	Sample
7	QC Std 4		QC Std
1	QC Std 5 ICPMS_100217A		QC Std
8	QC Std 6		QC Std
9	ICSA	6	Sample
10	ICSAB	7	Spike - 2 of 6

00800

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
101	MBLK-87178 6020_w_ALL (North Carolina) * changed to 200.8	8	Sample
102	LCS-87178	9	Sample
103	10020546-01C Ba, Cd, Cr, Fe, Na, Ag, Pb Rep 1	10	Sample
104	10020546-01CSD	11	Sample
105	10020546-01CMS	12	Sample
106	10020546-01CMSD	13	Sample
107	10020546-01CPDS	14	Sample
108	10020546-01CPDSD	15	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
109	10020546-01CDUP	16	Sample
110	10020546-02C As, Ba, Cd, Cr, Fe, Se, Na Ag, Pb Rep 1	17	Sample
111	10020546-03C	18	Sample
112	10020546-04C	19	Sample
113	10020546-05C	20	Sample
x5 114	10020546-01C As, Se IcpMS_100217B	21	Sample
7	QC Std 4 IcpMS_100217C		QC Std
1	QC Std 5		QC Std
8	QC Std 6 JP 2-19-10		QC Std
9	ICSA	22	Sample
10	ICSAB IcpMS_100217F JP 2-19-10	23	Spike - 2 of 22

00801

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
212	MBLK-87141 6020A-W-ALL	24	Sample
213	LCS-87141	25	Sample
214	LCSD-87141	26	Sample
215	10020321-04D Fe	27	Sample
216	10020321-04DDUP ↓	28	Sample
7	QC Std 4		QC Std
1	QC Std 5 ICPMS_100217D		QC Std
8	QC Std 6		QC Std
9	ICSA P2-1870	29	Sample
10	ICSAB	30	Spike - 2 of 29

00802

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
201	MBLK-87170 6020-W-ALL	31	Sample
202	LCS-87170	32	Sample
203	10010814-01C QC	33	Sample
204	10010814-01CSD	34	Sample
205	10010814-01CMS	35	Sample
206	10010814-01CMSD	36	Sample
207	10010814-01CPDS	37	Sample
208	10010814-01CPDSD ICPMS-100217E	38	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
209	10020533-01A B, Sr	39	Sample
210	10020533-02A	40	Sample
211	10020533-03A	41	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	42	Sample
10	ICSAB	43	Spike - 2 of 42
229	MBLK-87102 6020-D	44	Sample
230	LCS-87102	45	Sample
231	10020427-02D As, Ba, Cd, Cr, Pb, Se, Ag	46	Sample
232	10020427-02DSD	47	Sample
233	10020427-02DMS	48	Sample
234	10020427-02DMSD	49	Sample
235	10020427-02DPDS	50	Sample
236	10020427-02DPDSD	51	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
237	10020427-01D	52	Sample
238	10020427-03D	53	Sample
239	10020427-04D	54	Sample
240	10020427-05D	55	Sample
241	10020427-06D	56	Sample
242	10020427-07D	57	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	58	Sample
10	ICSAB	59	Spike - 2 of 58
217	MBLK-87140	60	Sample
218	LCS-87140	61	Sample
219	10020444-01B	62	Sample
220	10020444-01BSD	63	Sample
221	10020444-01BMS	64	Sample
222	10020444-01BMSD	65	Sample
223	10020444-01BPDS	66	Sample
			00803

NR

N/R

224	10020444-01BPDSD	67	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
225	10020471-01C	68	Sample
226	10020484-01A	69	Sample
227	10020484-02A	70	Sample
228	10020484-03A	71	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	72	Sample
10	ICSAB	73	Spike - 2 of 72

00804

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
1	Cal Blank		Blank
2	Std 1		Standard
3	Std 2		Standard
4	Std 3		Standard
5	Std 4		Standard
6	Std 5		Standard
7	QC Std 1		QC Std
1	QC Std 2		QC Std
8	QC Std 3		QC Std
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	2	Sample
10	ICSAB	3	Spike - 2 of 2

00805

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
149	10020428-20A	4	Sample
247	10020428-33A	5	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	6	Sample
10	ICSAB	7	Spike - 2 of 6

00806

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
101	MBLK-87178	8	Sample
102	LCS-87178	9	Sample
103	10020546-01C	10	Sample
104	10020546-01CSD	11	Sample
105	10020546-01CMS	12	Sample
106	10020546-01CMSD	13	Sample
107	10020546-01CPDS	14	Sample
108	10020546-01CPDSD	15	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
109	10020546-01CDUP	16	Sample
110	10020546-02C	17	Sample
111	10020546-03C	18	Sample
112	10020546-04C	19	Sample
113	10020546-05C	20	Sample
114	10020546-01C	21	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	22	Sample
10	ICSAB	23	Spike - 2 of 22

00807

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
212	MBLK-87141	24	Sample
213	LCS-87141	25	Sample
214	LCSD-87141	26	Sample
215	10020321-04D	27	Sample
216	10020321-04DDUP	28	Sample
7	QC Std 4		QC Std
1	QC Std 5		QC Std
8	QC Std 6		QC Std
9	ICSA	29	Sample
10	ICSAB	30	Spike - 2 of 29

00808

Run List

Sample File Name: 11.18.08.sam

AS Loc.	Sample ID	Batch Index	Sample Type
201	MBLK-87170	31	Sample
202	LCS-87170	32	Sample
203	10010814-01C	33	Sample
204	10010814-01CSD	34	Sample
205	10010814-01CMS	35	Sample
206	10010814-01CMSD	36	Sample
207	10010814-01CPDS	37	Sample
208	10010814-01CPDSD	38	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
209	10020533-01A	39	Sample
210	10020533-02A	40	Sample
211	10020533-03A	41	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	42	Sample
10	ICSAB	43	Spike - 2 of 42
229	MBLK-87102	44	Sample
230	LCS-87102	45	Sample
231	10020427-02D	46	Sample
232	10020427-02DSD	47	Sample
233	10020427-02DMS	48	Sample
234	10020427-02DMSD	49	Sample
235	10020427-02DPDS	50	Sample
236	10020427-02DPDSD	51	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
237	10020427-01D	52	Sample
238	10020427-03D	53	Sample
239	10020427-04D	54	Sample
240	10020427-05D	55	Sample
241	10020427-06D	56	Sample
242	10020427-07D	57	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	58	Sample
10	ICSAB	59	Spike - 2 of 58
217	MBLK-87140	60	Sample
218	LCS-87140	61	Sample
219	10020444-01B	62	Sample
220	10020444-01BSD	63	Sample
221	10020444-01BMS	64	Sample
222	10020444-01BMSD	65	Sample
223	10020444-01BPDS	66	Sample
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224	10020444-01BPDSD	67	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
225	10020471-01C	68	Sample
226	10020484-01A	69	Sample
227	10020484-02A	70	Sample
228	10020484-03A	71	Sample
7	QC Std 4		QC Std
8	QC Std 6		QC Std
9	ICSA	72	Sample
10	ICSAB	73	Spike - 2 of 72

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Instrument Tuning Report

File Name: default.tun
File Path: C:\elandata\Tuning\default.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.026	2040	2095	0.594	
C	12.000	11.978	2756	2105	0.571	
Mg	23.985	23.978	5669	2100	0.568	
Co	58.933	58.929	14153	2135	0.578	
In	114.904	114.928	27768	2215	0.580	
Ce	139.905	139.879	33829	2240	0.608	
Pb	207.977	207.978	50399	2340	0.594	
U	238.050	238.075	57709	2380	0.580	

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Wednesday, February 17, 2010 09:13:55
Sample Description:
Method File: C:\Elandata\Method\Daily.mth
Dataset File: C:\Elandata\DataSet\Daily Performance\Sample.1477
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 65
Current Dead Time (ns): 65

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	3704.0	3703.958	57.381	1.5
	C	12.0	704610.2	704610.190	6321.855	0.9
	Mg	24.0	38793.8	38793.778	195.234	0.5
	Co	58.9	58611.4	58611.381	165.825	0.3
	In	114.9	154034.5	154034.452	930.855	0.6
	Pb	208.0	101085.1	101085.078	782.955	0.8
	U	238.1	212465.4	212465.432	1159.682	0.5
⌈>	Ce	139.9	167219.4	167219.428	617.788	0.4
⌊	CeO	155.9	1618.9	0.010	0.000	1.9
⌈>	Ba	137.9	138204.1	138204.127	431.043	0.3
⌊	Ba++	69.0	1666.4	0.012	0.000	2.5
	220	220.0	0.7	0.700	0.462	66.1

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
7.60	Lens Voltage
1450.00	ICP RF Power
-1725.00	Analog Stage Voltage
900.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-17.00	Cell Rod Offset Std [CRO]
20.00	Discriminator Threshold
-9.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
1.00	DRC Mode NEB
-6.00	DRC Mode QRO
-1.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A
0.00	Cell Gas B

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	36	5.8	7713.1
Co	59	36	6.2	67450.4

In	115	36	7.8	154351.2

Quantitative Analysis - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Wednesday, February 17, 2010 09:26:57
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\Cal Blank.001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23706.885					ug/L
|	Li	7	2887.208					ug/L
|	Be	9	4.667					ug/L
|	B	11	661.362					ug/L
|	Na	23	14012.778					ug/L
|	Mg	24	966.730					ug/L
|	Al	27	4393.005					ug/L
|	K	39	56642.183					ug/L
|	Ca	43	148.001					ug/L
| >	Sc	45	345688.689					ug/L
|	Ti	49	422.012					ug/L
|	Co	59	54.667					ug/L
|	Ni	60	13.333					ug/L
|	Ni	62	29.333					ug/L
|	Cu	63	60.667					ug/L
|	Cu	65	50.667					ug/L
|	Zn	66	206.670					ug/L
|	Zn	67	916.055					ug/L
|	Zn	68	174.669					ug/L
|	V	51	-394.863					ug/L
|	Cr	52	2701.141					ug/L
|	Cr	53	11707.584					ug/L
|	Mn	55	378.676					ug/L
|	Fe	54	12671.648					ug/L
⌊	Fe	57	962.727					ug/L
⌈	As	75	-282.898					ug/L
|	Se	77	1772.204					ug/L
|	Se	82	0.981					ug/L
|	Sr	88	94.667					ug/L
| >	Y	89	496825.146					ug/L
|	Mo	95	107.334					ug/L
|	Mo	97	72.667					ug/L
⌊	Mo	98	181.189					ug/L
⌈	Ag	107	4.667					ug/L
|	Ag	109	1.333					ug/L
|	Cd	111	4.500					ug/L
|	Cd	114	4.358					ug/L

|>	In	115	227548.157	ug/L
|	Sn	120	778.613	ug/L
|	Sb	121	464.014	ug/L
|	Sb	123	411.088	ug/L
|	Ba	135	30.667	ug/L
|	Ba	137	72.667	ug/L
|	Tb	159	361463.216	ug/L
|>	Ho	165	406141.992	ug/L
|	Tl	203	7.333	ug/L
|	Tl	205	16.000	ug/L
|	Pb	208	69.333	ug/L
	Kr	83	19.400	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 1
Sample Date/Time: Wednesday, February 17, 2010 09:29:38
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\Std 1.002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24960.648	0.003				ug/L
|	Li	7	3952.350	0.003				ug/L
|	Be	9	248.671	0.001				ug/L
|	B	11	1060.073	0.001				ug/L
|	Na	23	19792.340	0.017				ug/L
|	Mg	24	4467.968	0.010				ug/L
|	Al	27	17610.202	0.038				ug/L
|	K	39	65175.668	0.024				ug/L
|	Ca	43	173.335	0.000				ug/L
| >	Sc	45	347069.776	347069.776				ug/L
|	Ti	49	595.356	0.000				ug/L
|	Co	59	2249.663	0.006				ug/L
|	Ni	60	420.011	0.001				ug/L
|	Ni	62	106.667	0.000				ug/L
|	Cu	63	1146.752	0.003				ug/L
|	Cu	65	608.024	0.002				ug/L
|	Zn	66	568.021	0.001				ug/L
|	Zn	67	1185.425	0.001				ug/L
|	Zn	68	456.014	0.001				ug/L
|	V	51	1774.371	0.006				ug/L
|	Cr	52	4641.402	0.006				ug/L
|	Cr	53	13005.664	0.004				ug/L
|	Mn	55	3744.245	0.010				ug/L
|	Fe	54	14367.312	0.005				ug/L
⌊	Fe	57	1494.812	0.002				ug/L
⌈	As	75	-94.793	0.000				ug/L
|	Se	77	1977.588	0.000				ug/L
|	Se	82	181.917	0.000				ug/L
|	Sr	88	4965.602	0.010				ug/L
| >	Y	89	499477.176	499477.176				ug/L
|	Mo	95	598.023	0.001				ug/L
|	Mo	97	376.009	0.001				ug/L
⌊	Mo	98	995.918	0.002				ug/L
⌈	Ag	107	1638.174	0.007				ug/L
|	Ag	109	1579.496	0.007				ug/L
|	Cd	111	395.510	0.002				ug/L
|	Cd	114	891.915	0.004				ug/L

|>	In	115	227040.349	227040.349	ug/L
|	Sn	120	2943.120	0.010	ug/L
|	Sb	121	1752.200	0.006	ug/L
\L	Sb	123	1382.367	0.004	ug/L
\[	Ba	135	438.679	0.001	ug/L
|	Ba	137	753.370	0.002	ug/L
|	Tb	159	365972.122	0.023	ug/L
|>	Ho	165	400712.406	400712.406	ug/L
|	Tl	203	1938.911	0.005	ug/L
|	Tl	205	4622.055	0.012	ug/L
\L	Pb	208	6385.035	0.016	ug/L
	Kr	83	19.400	0.000	ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 2
Sample Date/Time: Wednesday, February 17, 2010 09:32:19
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\Std 2.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24237.822	0.002				ug/L
|	Li	7	7586.408	0.014	**5.000000**	0.23	4.6	ug/L
|	Be	9	1130.750	0.003	**5.000000**	0.26	5.2	ug/L
|	B	11	2034.937	0.004	**5.000000**	0.51	10.1	ug/L
|	Na	23	39534.730	0.074	**50.000000**	2.42	4.8	ug/L
|	Mg	24	20661.271	0.057	**50.000000**	5.25	10.5	ug/L
|	Al	27	71265.662	0.195	**55.000000**	2.29	4.2	ug/L
|	K	39	110895.313	0.159	**50.000000**	4.86	9.7	ug/L
|	Ca	43	432.012	0.001	**50.000000**	8.24	16.5	ug/L
| >	Sc	45	343709.680	343709.680				ug/L
|	Ti	49	1034.070	0.002	**5.000000**	0.42	8.4	ug/L
|	Co	59	10463.116	0.030	**5.000000**	0.18	3.6	ug/L
|	Ni	60	2102.954	0.006	**5.000000**	0.13	2.6	ug/L
|	Ni	62	321.340	0.001	**5.000000**	0.26	5.3	ug/L
|	Cu	63	4988.284	0.014	**5.000000**	0.08	1.7	ug/L
|	Cu	65	2425.717	0.007	**5.000000**	0.34	6.9	ug/L
|	Zn	66	1748.199	0.004	**5.000000**	0.20	4.0	ug/L
|	Zn	67	1440.135	0.002	**5.000000**	1.07	21.5	ug/L
|	Zn	68	1386.792	0.004	**5.000000**	0.62	12.4	ug/L
|	V	51	9384.897	0.028	**5.000000**	0.24	4.8	ug/L
|	Cr	52	11375.075	0.025	**5.000000**	0.22	4.5	ug/L
|	Cr	53	14376.758	0.008	**5.000000**	0.95	19.0	ug/L
|	Mn	55	15486.244	0.044	**5.000000**	0.07	1.4	ug/L
|	Fe	54	20254.410	0.022	**50.000000**	2.23	4.5	ug/L
⌊	Fe	57	3891.652	0.009	**50.000000**	2.14	4.3	ug/L
⌈	As	75	1350.624	0.003	**5.000000**	0.45	8.9	ug/L
|	Se	77	2413.712	0.001	**25.000000**	0.81	3.2	ug/L
|	Se	82	826.705	0.002	**25.000000**	1.11	4.4	ug/L
|	Sr	88	22801.079	0.047	**5.000000**	0.12	2.3	ug/L
| >	Y	89	484098.305	484098.305				ug/L
|	Mo	95	2767.832	0.006	**5.000000**	0.32	6.4	ug/L
|	Mo	97	1648.843	0.003	**5.000000**	0.22	4.3	ug/L
⌊	Mo	98	4352.418	0.009	**5.000000**	0.24	4.8	ug/L
⌈	Ag	107	7913.402	0.036	**5.000000**	0.17	3.5	ug/L
|	Ag	109	7456.282	0.034	**5.000000**	0.35	7.0	ug/L
|	Cd	111	1871.061	0.008	**5.000000**	0.35	6.9	ug/L
|	Cd	114	4189.687	0.019	**5.000000**	0.29	5.7	ug/L

|>	In	115	221223.177	221223.177				ug/L
|	Sn	120	9031.248	0.037	**5.000000**	0.23	4.6	ug/L
|	Sb	121	6537.447	0.028	**5.000000**	0.35	7.0	ug/L
\L	Sb	123	5188.580	0.022	**5.000000**	0.27	5.5	ug/L
⌈	Ba	135	2159.637	0.005	**5.000000**	0.17	3.5	ug/L
|	Ba	137	3652.868	0.009	**5.000000**	0.04	0.9	ug/L
|	Tb	159	360065.861	0.013				ug/L
|>	Ho	165	398742.334	398742.334				ug/L
|	Tl	203	9186.149	0.023	**5.000000**	0.12	2.5	ug/L
|	Tl	205	21852.998	0.055	**5.000000**	0.10	2.0	ug/L
\L	Pb	208	29555.896	0.074	**5.000000**	0.14	2.7	ug/L
	Kr	83	18.000	-1.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 3
Sample Date/Time: Wednesday, February 17, 2010 09:35:00
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\Std 3.004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	22995.274	-0.002				ug/L
|	Li	7	50510.676	0.139	**50.006386**	1.27	2.5	ug/L
|	Be	9	11121.370	0.032	**50.000862**	1.22	2.4	ug/L
|	B	11	13869.162	0.038	**50.010587**	1.05	2.1	ug/L
|	Na	23	69883.101	0.163	**101.286817**	4.60	4.5	ug/L
|	Mg	24	42885.883	0.122	**100.618685**	2.89	2.9	ug/L
|	Al	27	188651.929	0.537	**150.084009**	9.11	6.1	ug/L
|	K	39	175585.441	0.348	**100.760095**	9.27	9.2	ug/L
|	Ca	43	796.041	0.002	**100.765721**	13.63	13.5	ug/L
| >	Sc	45	343336.325	343336.325				ug/L
|	Ti	49	6598.830	0.018	**50.016838**	2.62	5.2	ug/L
|	Co	59	100188.507	0.292	**49.995050**	2.10	4.2	ug/L
|	Ni	60	19783.411	0.058	**49.988465**	1.81	3.6	ug/L
|	Ni	62	3025.929	0.009	**50.016965**	0.42	0.8	ug/L
|	Cu	63	47566.686	0.138	**49.997428**	2.01	4.0	ug/L
|	Cu	65	22992.985	0.067	**50.000698**	1.64	3.3	ug/L
|	Zn	66	15300.542	0.044	**50.002961**	2.26	4.5	ug/L
|	Zn	67	3700.890	0.008	**49.947699**	3.10	6.2	ug/L
|	Zn	68	11313.648	0.032	**49.990574**	1.90	3.8	ug/L
|	V	51	96858.966	0.283	**50.003529**	1.57	3.1	ug/L
|	Cr	52	86016.752	0.243	**49.996841**	3.38	6.8	ug/L
|	Cr	53	23101.342	0.033	**49.856423**	7.60	15.3	ug/L
|	Mn	55	148623.893	0.432	**50.001152**	2.53	5.1	ug/L
|	Fe	54	26970.872	0.042	**99.302272**	11.35	11.4	ug/L
⌊	Fe	57	6909.771	0.017	**100.040251**	6.51	6.5	ug/L
⌜	As	75	16371.377	0.034	**49.984663**	1.49	3.0	ug/L
|	Se	77	7909.399	0.013	**249.968801**	8.59	3.4	ug/L
|	Se	82	8029.983	0.016	**249.974307**	8.09	3.2	ug/L
|	Sr	88	222042.072	0.452	**49.994816**	2.20	4.4	ug/L
| >	Y	89	490837.204	490837.204				ug/L
|	Mo	95	26264.813	0.053	**49.989369**	2.13	4.3	ug/L
|	Mo	97	16301.932	0.033	**49.999618**	1.88	3.8	ug/L
⌊	Mo	98	40705.896	0.083	**49.989341**	0.98	2.0	ug/L
⌜	Ag	107	76895.814	0.343	**49.992522**	1.55	3.1	ug/L
|	Ag	109	73047.888	0.326	**49.994826**	0.47	0.9	ug/L
|	Cd	111	18242.442	0.081	**49.993866**	1.58	3.2	ug/L
|	Cd	114	40922.494	0.183	**49.994633**	3.05	6.1	ug/L

|>	In	115	224176.931	224176.931				ug/L
|	Sn	120	81948.614	0.362	**50.005517**	2.83	5.7	ug/L
|	Sb	121	60571.025	0.268	**49.996413**	2.08	4.2	ug/L
_	Sb	123	47248.827	0.209	**49.992793**	1.81	3.6	ug/L
⌈	Ba	135	18373.918	0.047	**49.971704**	1.45	2.9	ug/L
|	Ba	137	32137.006	0.082	**49.979431**	1.38	2.8	ug/L
|	Tb	159	359593.661	0.025				ug/L
|>	Ho	165	393042.695	393042.695				ug/L
|	Tl	203	90894.669	0.231	**50.002822**	2.25	4.5	ug/L
|	Tl	205	214588.700	0.547	**50.001634**	3.35	6.7	ug/L
_	Pb	208	291885.954	0.743	**50.003513**	2.95	5.9	ug/L
	Kr	83	20.867	1.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 4
Sample Date/Time: Wednesday, February 17, 2010 09:37:41
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\Std 4.005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21684.961	-0.006				ug/L
|	Li	7	101568.421	0.286	**100.541361**	2.61	2.6	ug/L
|	Be	9	22984.289	0.067	**100.514946**	1.49	1.5	ug/L
|	B	11	26749.774	0.076	**99.785871**	2.41	2.4	ug/L
|	Na	23	597764.303	1.695	**1000.168364**	20.37	2.0	ug/L
|	Mg	24	425996.754	1.234	**999.961255**	47.47	4.7	ug/L
|	Al	27	1418649.160	4.105	**1100.387122**	17.29	1.6	ug/L
|	K	39	1304457.244	3.622	**1000.040588**	51.92	5.2	ug/L
|	Ca	43	5297.825	0.015	**998.421105**	39.67	4.0	ug/L
| >	Sc	45	344484.715	344484.715				ug/L
|	Ti	49	12872.098	0.036	**100.094641**	2.66	2.7	ug/L
|	Co	59	199032.745	0.578	**99.842344**	0.10	0.1	ug/L
|	Ni	60	39769.207	0.115	**100.048158**	1.03	1.0	ug/L
|	Ni	62	6134.446	0.018	**100.282937**	3.15	3.1	ug/L
|	Cu	63	95858.985	0.278	**100.103237**	1.81	1.8	ug/L
|	Cu	65	46214.440	0.134	**100.073484**	2.32	2.3	ug/L
|	Zn	66	29876.601	0.086	**99.656050**	2.98	3.0	ug/L
|	Zn	67	6009.013	0.015	**99.030316**	0.94	1.0	ug/L
|	Zn	68	21982.038	0.063	**99.616614**	2.38	2.4	ug/L
|	V	51	194926.968	0.567	**100.019520**	2.49	2.5	ug/L
|	Cr	52	168003.139	0.480	**99.811680**	2.20	2.2	ug/L
|	Cr	53	32480.433	0.060	**99.154299**	2.35	2.4	ug/L
|	Mn	55	302575.003	0.877	**100.273027**	0.34	0.3	ug/L
|	Fe	54	159130.546	0.425	**1000.122087**	17.36	1.7	ug/L
⌊	Fe	57	61725.360	0.176	**1000.016456**	15.38	1.5	ug/L
⌈	As	75	33320.847	0.068	**99.994935**	1.89	1.9	ug/L
|	Se	77	14476.276	0.026	**502.713629**	9.89	2.0	ug/L
|	Se	82	16546.058	0.033	**502.137812**	8.06	1.6	ug/L
|	Sr	88	453243.481	0.918	**100.269415**	3.65	3.6	ug/L
| >	Y	89	493996.638	493996.638				ug/L
|	Mo	95	53768.675	0.109	**100.330488**	3.53	3.5	ug/L
|	Mo	97	33466.043	0.068	**100.359936**	4.37	4.4	ug/L
⌊	Mo	98	83473.225	0.169	**100.374594**	3.31	3.3	ug/L
⌈	Ag	107	154120.855	0.688	**100.076819**	1.31	1.3	ug/L
|	Ag	109	146654.231	0.655	**100.109279**	1.13	1.1	ug/L
|	Cd	111	36728.140	0.164	**100.155620**	0.81	0.8	ug/L
|	Cd	114	84322.410	0.377	**100.542395**	0.12	0.1	ug/L

|>	In	115	223853.073	223853.073				ug/L
|	Sn	120	167871.558	0.746	**100.550117**	2.40	2.4	ug/L
|	Sb	121	122731.786	0.546	**100.323281**	2.36	2.4	ug/L
|	Sb	123	95510.849	0.425	**100.293654**	1.10	1.1	ug/L
⌈	Ba	135	37096.568	0.093	**100.061343**	1.36	1.4	ug/L
|	Ba	137	65094.446	0.164	**100.100379**	2.75	2.7	ug/L
|	Tb	159	357769.029	0.011				ug/L
|>	Ho	165	396937.501	396937.501				ug/L
|	Tl	203	183365.288	0.462	**99.968296**	0.45	0.4	ug/L
|	Tl	205	436914.426	1.101	**100.122795**	0.87	0.9	ug/L
⌊	Pb	208	590522.148	1.488	**100.019161**	2.03	2.0	ug/L
	Kr	83	20.933	1.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

Quantitative Analysis - Summary Report

Sample ID: Std 5
Sample Date/Time: Wednesday, February 17, 2010 09:40:21
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\Std 5.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17379.292	-0.017				ug/L
|	Li	7	193434.304	0.566	**199.697868**	6.93	3.5	ug/L
|	Be	9	44630.496	0.133	**199.905818**	8.21	4.1	ug/L
|	B	11	52117.449	0.153	**200.380712**	9.99	5.0	ug/L
|	Na	23	5920615.320	17.545	**10002.217730**	276.35	2.8	ug/L
|	Mg	24	4245661.822	12.606	**10001.375025**	249.22	2.5	ug/L
|	Al	27	13330674.771	39.606	**10203.043367**	595.74	5.8	ug/L
|	K	39	11343118.297	33.511	**9993.913358**	268.69	2.7	ug/L
|	Ca	43	50074.497	0.148	**9999.905560**	404.69	4.0	ug/L
| >	Sc	45	336720.518	336720.518				ug/L
|	Ti	49	25387.860	0.074	**201.051740**	11.50	5.7	ug/L
|	Co	59	389271.278	1.156	**200.023147**	4.94	2.5	ug/L
|	Ni	60	75893.924	0.225	**199.138834**	6.33	3.2	ug/L
|	Ni	62	11838.436	0.035	**199.694363**	4.56	2.3	ug/L
|	Cu	63	184364.761	0.548	**199.460890**	6.42	3.2	ug/L
|	Cu	65	88436.325	0.263	**199.278376**	8.65	4.3	ug/L
|	Zn	66	59303.753	0.176	**200.670028**	7.37	3.7	ug/L
|	Zn	67	10603.304	0.029	**199.718474**	8.71	4.4	ug/L
|	Zn	68	42424.677	0.126	**199.649787**	6.61	3.3	ug/L
|	V	51	384821.881	1.145	**200.378235**	11.57	5.8	ug/L
|	Cr	52	326868.139	0.964	**200.141454**	11.06	5.5	ug/L
|	Cr	53	50530.872	0.116	**199.596970**	14.61	7.3	ug/L
|	Mn	55	583711.085	1.734	**199.636860**	10.51	5.3	ug/L
|	Fe	54	1454951.044	4.287	**10000.629381**	472.78	4.7	ug/L
⌊	Fe	57	598410.859	1.775	**10000.353906**	366.84	3.7	ug/L
⌈	As	75	65864.136	0.136	**199.948737**	7.96	4.0	ug/L
|	Se	77	26167.768	0.050	**996.685343**	8.67	0.9	ug/L
|	Se	82	32228.560	0.066	**998.706760**	20.63	2.1	ug/L
|	Sr	88	897400.457	1.846	**200.314706**	8.15	4.1	ug/L
| >	Y	89	486117.963	486117.963				ug/L
|	Mo	95	105886.751	0.218	**200.142505**	5.63	2.8	ug/L
|	Mo	97	64744.842	0.133	**199.456157**	6.81	3.4	ug/L
⌊	Mo	98	163968.403	0.337	**200.073096**	3.32	1.7	ug/L
⌈	Ag	107	297919.920	1.357	**199.489789**	3.13	1.6	ug/L
|	Ag	109	281673.877	1.283	**199.247925**	4.70	2.4	ug/L
|	Cd	111	71844.288	0.327	**199.961926**	2.66	1.3	ug/L
|	Cd	114	165221.310	0.753	**200.118990**	0.65	0.3	ug/L

|>	In	115	219546.815	219546.815				ug/L
|	Sn	120	324062.084	1.473	**199.664095**	1.80	0.9	ug/L
|	Sb	121	243762.828	1.108	**200.640251**	0.62	0.3	ug/L
|	Sb	123	189049.867	0.859	**200.516995**	3.33	1.7	ug/L
⌈	Ba	135	73320.464	0.188	**200.273156**	4.74	2.4	ug/L
|	Ba	137	128674.814	0.329	**200.275846**	6.44	3.2	ug/L
|	Tb	159	351446.475	0.010				ug/L
|>	Ho	165	390649.933	390649.933				ug/L
|	Tl	203	356944.184	0.914	**199.593121**	7.85	3.9	ug/L
|	Tl	205	850404.534	2.178	**199.634548**	8.85	4.4	ug/L
⌊	Pb	208	1146863.916	2.938	**199.519860**	9.84	4.9	ug/L
	Kr	83	25.133	5.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45			
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89			
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115			
Sn	120			
Sb	121			

Sb	123
Ba	135
Ba	137
Tb	159
Ho	165
Tl	203
Tl	205
Pb	208
Kr	83

File Name: 02-17.cal
File Path: C:\Elandata\System\02-17.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Simple Linear	0.000000000	0.000000000	0.000000
Li	7.016	Simple Linear	0.002838124	-0.000387116	0.999959
Be	9.012	Simple Linear	0.000663989	-0.000142180	0.999971
B	11.009	Simple Linear	0.000762347	0.000186326	0.999981
Na	22.990	Simple Linear	0.001756220	-0.021167104	0.999995
Mg	23.985	Simple Linear	0.001261425	-0.009572929	0.999998
Al	26.982	Simple Linear	0.003887365	-0.057163978	0.999993
K	38.964	Simple Linear	0.003346877	0.062596062	0.999966
Ca	42.959	Simple Linear	0.000014823	0.000137831	0.999996
Sc	44.956	Simple Linear	0.000000000	0.000000000	0.000000
Ti	48.948	Simple Linear	0.000370433	-0.000238024	0.999890
Co	58.933	Simple Linear	0.005773941	0.001362884	0.999997
Ni	59.933	Simple Linear	0.001127937	0.000837744	0.999927
Ni	61.928	Simple Linear	0.000175595	0.000019509	0.999981
Cu	62.930	Simple Linear	0.002738785	0.001323264	0.999971
Cu	64.928	Simple Linear	0.001313554	0.000883229	0.999949
Zn	65.926	Simple Linear	0.000875596	-0.000086355	0.999944
Zn	66.927	Simple Linear	0.000140364	0.000824507	0.999875
Zn	67.925	Simple Linear	0.000626051	0.000558954	0.999972
V	50.944	Simple Linear	0.005720273	-0.001260231	0.999986
Cr	51.941	Simple Linear	0.004810081	0.001016743	0.999994
Cr	52.941	Simple Linear	0.000560446	0.004457244	0.999789
Mn	54.938	Simple Linear	0.008676659	0.001588039	0.999979
Fe	53.940	Simple Linear	0.000428768	-0.000695321	1.000000
Fe	56.935	Simple Linear	0.000177582	-0.000528150	1.000000
As	74.922	Simple Linear	0.000681289	-0.000154880	0.999999
Se	76.920	Simple Linear	0.000050245	0.000185635	0.999925
Se	81.917	Simple Linear	0.000066368	0.000018318	0.999974
Sr	87.906	Simple Linear	0.009228426	-0.002553172	0.999983
Y	88.905	Simple Linear	0.000000000	0.000000000	0.000000
Mo	94.906	Simple Linear	0.001088912	-0.000316776	0.999986
Mo	96.906	Simple Linear	0.000666858	0.000041056	0.999957
Mo	97.906	Simple Linear	0.001685884	-0.000346435	0.999984
Ag	106.905	Simple Linear	0.006787243	0.003070950	0.999974
Ag	108.905	Simple Linear	0.006420195	0.003834359	0.999944
Cd	110.904	Simple Linear	0.001636124	0.000079729	0.999997
Cd	113.904	Simple Linear	0.003766743	-0.001248102	0.999967
In	114.904	Simple Linear	0.000000000	0.000000000	0.000000
Sn	119.902	Simple Linear	0.007371112	0.000848802	0.999956
Sb	120.904	Simple Linear	0.005539905	-0.003247543	0.999949
Sb	122.904	Simple Linear	0.004295840	-0.002025773	0.999965
Ba	134.906	Simple Linear	0.000936255	0.000163575	0.999988
Ba	136.905	Simple Linear	0.001644387	0.000010173	0.999989
Tb	158.925	Simple Linear	0.000000000	0.000000000	0.000000
Ho	164.930	Simple Linear	0.000000000	0.000000000	0.000000
Tl	202.972	Simple Linear	0.004572814	0.001501176	0.999984
Tl	204.975	Simple Linear	0.010899380	0.002328512	0.999985
Pb	207.977	Simple Linear	0.014697345	0.005243963	0.999978

00832

Kr	82.914	Simple Linear	0.000000000	0.000000000	0.000000

Quantitative Analysis - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Wednesday, February 17, 2010 09:43:02
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 1.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20779.846	-0.008				ug/L
|	Li	7	96987.799	0.275	**97.128197**	3.00	3.1	ug/L
|	Be	9	22325.021	0.065	**98.521049**	2.65	2.7	ug/L
|	B	11	26980.579	0.077	**100.719299**	0.88	0.9	ug/L
|	Na	23	2918518.087	8.497	**4850.245020**	313.29	6.5	ug/L
|	Mg	24	2152876.529	6.294	**4997.201115**	223.36	4.5	ug/L
|	Al	27	6575332.886	19.217	**4958.176532**	171.25	3.5	ug/L
|	K	39	6161762.402	17.860	**5317.521042**	349.31	6.6	ug/L
|	Ca	43	25182.488	0.073	**4929.230088**	48.12	1.0	ug/L
| >	Sc	45	342016.336	342016.336				ug/L
|	Ti	49	12613.001	0.036	**96.900941**	1.27	1.3	ug/L
|	Co	59	194302.267	0.568	**98.131181**	1.00	1.0	ug/L
|	Ni	60	37723.629	0.110	**97.007241**	1.15	1.2	ug/L
|	Ni	62	5704.783	0.017	**94.397902**	2.70	2.9	ug/L
|	Cu	63	91161.230	0.266	**96.770014**	2.04	2.1	ug/L
|	Cu	65	43981.521	0.128	**97.110886**	3.81	3.9	ug/L
|	Zn	66	29449.614	0.086	**97.750459**	1.12	1.1	ug/L
|	Zn	67	5898.261	0.015	**98.135189**	3.56	3.6	ug/L
|	Zn	68	21214.572	0.062	**97.369271**	3.02	3.1	ug/L
|	V	51	188919.341	0.553	**96.973902**	3.18	3.3	ug/L
|	Cr	52	163515.550	0.470	**97.556200**	1.77	1.8	ug/L
|	Cr	53	31304.907	0.058	**94.941425**	1.30	1.4	ug/L
|	Mn	55	287635.765	0.840	**96.624867**	1.03	1.1	ug/L
|	Fe	54	717178.141	2.061	**4807.273550**	95.50	2.0	ug/L
⌊	Fe	57	292269.250	0.852	**4799.673527**	54.94	1.1	ug/L
⌈	As	75	31849.997	0.066	**96.910898**	3.26	3.4	ug/L
|	Se	77	13734.251	0.025	**485.670236**	12.97	2.7	ug/L
|	Se	82	15877.642	0.033	**490.199208**	17.85	3.6	ug/L
|	Sr	88	434931.756	0.891	**96.866535**	1.55	1.6	ug/L
| >	Y	89	487904.934	487904.934				ug/L
|	Mo	95	51824.662	0.106	**97.650416**	1.43	1.5	ug/L
|	Mo	97	32108.894	0.066	**98.399621**	0.79	0.8	ug/L
⌊	Mo	98	80658.407	0.165	**98.055533**	0.79	0.8	ug/L
⌈	Ag	107	147599.283	0.669	**98.155836**	2.91	3.0	ug/L
|	Ag	109	142449.868	0.646	**100.040687**	4.54	4.5	ug/L
|	Cd	111	35833.477	0.163	**99.295779**	5.37	5.4	ug/L
|	Cd	114	80992.863	0.367	**97.876618**	5.62	5.7	ug/L

|>	In	115	220643.237	220643.237				ug/L
|	Sn	120	160196.633	0.723	**97.979977**	3.96	4.0	ug/L
|	Sb	121	118944.007	0.537	**97.567870**	2.73	2.8	ug/L
|	Sb	123	92959.375	0.420	**98.182501**	3.38	3.4	ug/L
⌈	Ba	135	35900.926	0.092	**98.250330**	2.06	2.1	ug/L
|	Ba	137	62269.051	0.160	**97.159726**	1.72	1.8	ug/L
|	Tb	159	354612.829	0.021				ug/L
|>	Ho	165	389346.330	389346.330				ug/L
|	Tl	203	175310.549	0.450	**98.157025**	1.87	1.9	ug/L
|	Tl	205	418388.680	1.075	**98.406974**	2.58	2.6	ug/L
⌊	Pb	208	562470.585	1.445	**97.976561**	4.21	4.3	ug/L
	Kr	83	23.133	3.733				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	97.128		
Be	9	98.521		
B	11	100.719		
Na	23	97.005		
Mg	24	99.944		
Al	27	97.219		
K	39	106.350		
Ca	43	98.585		
Sc	45		98.938	
Ti	49	96.901		
Co	59	98.131		
Ni	60	97.007		
Ni	62	94.398		
Cu	63	96.770		
Cu	65	97.111		
Zn	66	97.750		
Zn	67	98.135		
Zn	68	97.369		
V	51	96.974		
Cr	52	97.556		
Cr	53	94.941		
Mn	55	96.625		
Fe	54	96.145		
Fe	57	95.993		
As	75	96.911		
Se	77	97.134		
Se	82	98.040		
Sr	88	96.867		
Y	89		98.205	
Mo	95	97.650		
Mo	97	98.400		
Mo	98	98.056		
Ag	107	98.156		
Ag	109	100.041		
Cd	111	99.296		
Cd	114	97.877		
In	115		96.966	
Sn	120	97.980		
Sb	121	97.568		

Sb	123	98.183	
Ba	135	98.250	
Ba	137	97.160	
Tb	159		
Ho	165		95.865
Tl	203	98.157	
Tl	205	98.407	
Pb	208	97.977	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Wednesday, February 17, 2010 09:48:25
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 2.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24681.030	0.004				ug/L
|	Li	7	4880.884	0.006	**2.254958**	0.14	6.0	ug/L
|	Be	9	498.683	0.001	**2.405434**	0.11	4.8	ug/L
|	B	11	6366.634	0.017	**21.837844**	0.28	1.3	ug/L
|	Na	23	65679.550	0.153	**99.219606**	7.75	7.8	ug/L
|	Mg	24	18889.961	0.053	**49.541546**	5.09	10.3	ug/L
|	Al	27	65620.387	0.181	**61.163470**	1.55	2.5	ug/L
|	K	39	137759.598	0.242	**53.526232**	7.39	13.8	ug/L
|	Ca	43	1089.411	0.003	**178.825016**	35.30	19.7	ug/L
| >	Sc	45	339643.405	339643.405				ug/L
|	Ti	49	1020.735	0.002	**5.462840**	0.53	9.7	ug/L
|	Co	59	4050.401	0.012	**1.803968**	0.13	7.0	ug/L
|	Ni	60	852.047	0.002	**1.449450**	0.24	16.6	ug/L
|	Ni	62	161.335	0.000	**2.117649**	0.38	17.8	ug/L
|	Cu	63	1938.911	0.006	**1.540264**	0.17	11.2	ug/L
|	Cu	65	1045.405	0.003	**1.563038**	0.23	14.6	ug/L
|	Zn	66	2029.602	0.005	**6.252113**	0.72	11.5	ug/L
|	Zn	67	1398.794	0.001	**4.609142**	1.18	25.5	ug/L
|	Zn	68	1488.144	0.004	**5.296997**	0.34	6.4	ug/L
|	V	51	19190.178	0.058	**10.296099**	0.45	4.4	ug/L
|	Cr	52	9457.816	0.020	**3.959252**	0.35	8.8	ug/L
|	Cr	53	12746.573	0.004	**-1.347379**	4.98	369.9	ug/L
|	Mn	55	6452.706	0.018	**1.882254**	0.11	5.8	ug/L
|	Fe	54	26679.495	0.042	**99.455153**	6.80	6.8	ug/L
⌊	Fe	57	6792.331	0.017	**99.969551**	3.48	3.5	ug/L
⌜	As	75	899.509	0.002	**3.778246**	0.47	12.4	ug/L
|	Se	77	1767.536	0.000	**-2.350019**	1.60	68.2	ug/L
|	Se	82	163.752	0.000	**4.767170**	0.30	6.2	ug/L
|	Sr	88	4680.090	0.009	**1.298754**	0.01	1.1	ug/L
| >	Y	89	486339.999	486339.999				ug/L
|	Mo	95	1197.427	0.002	**2.354161**	0.18	7.7	ug/L
|	Mo	97	700.032	0.001	**1.878207**	0.24	12.9	ug/L
⌊	Mo	98	1807.327	0.003	**2.193564**	0.07	3.0	ug/L
⌜	Ag	107	1624.171	0.007	**0.621498**	0.04	6.5	ug/L
|	Ag	109	1592.165	0.007	**0.518180**	0.06	11.0	ug/L
|	Cd	111	736.535	0.003	**1.965408**	0.09	4.7	ug/L
|	Cd	114	1672.530	0.008	**2.324478**	0.07	3.2	ug/L

|>	In	115	222318.702	222318.702				ug/L
|	Sn	120	8836.989	0.036	**4.815235**	0.14	3.0	ug/L
|	Sb	121	8246.418	0.035	**6.916772**	0.20	3.0	ug/L
|	Sb	123	6333.103	0.027	**6.685758**	0.31	4.7	ug/L
|	Ba	135	1788.208	0.005	**4.742987**	0.31	6.6	ug/L
|	Ba	137	3210.670	0.008	**4.993075**	0.17	3.4	ug/L
|	Tb	159	347387.619	0.019				ug/L
|>	Ho	165	382253.161	382253.161				ug/L
|	Tl	203	3941.010	0.010	**1.922952**	0.10	5.1	ug/L
|	Tl	205	9177.472	0.024	**1.985721**	0.04	1.8	ug/L
|	Pb	208	6104.953	0.016	**0.718393**	0.03	3.9	ug/L
	Kr	83	23.400	4.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	112.748		
Be	9	120.272		
B	11	109.189		
Na	23	99.220		
Mg	24	99.083		
Al	27	122.327		
K	39	71.368		
Ca	43	89.413		
Sc	45		98.251	
Ti	49	109.257		
Co	59	90.198		
Ni	60	72.472		
Ni	62	105.882		
Cu	63	77.013		
Cu	65	78.152		
Zn	66	104.202		
Zn	67	76.819		
Zn	68	88.283		
V	51	102.961		
Cr	52	98.981		
Cr	53	-33.684		
Mn	55	94.113		
Fe	54	99.455		
Fe	57	99.970		
As	75	94.456		
Se	77	-47.000		
Se	82	95.343		
Sr	88	129.875		
Y	89		97.890	
Mo	95	117.708		
Mo	97	93.910		
Mo	98	109.678		
Ag	107	62.150		
Ag	109	51.818		
Cd	111	98.270		
Cd	114	116.224		
In	115		97.702	
Sn	120	120.381		
Sb	121	138.335		

Sb	123	133.715	
Ba	135	94.860	
Ba	137	99.861	
Tb	159		
Ho	165		94.118
Tl	203	96.148	
Tl	205	99.286	
Pb	208	71.839	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Wednesday, February 17, 2010 09:53:15
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 3.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24507.430	0.005				ug/L
|	Li	7	2853.864	0.000	**0.221376**	0.16	71.1	ug/L
|	Be	9	6.000	0.000	**0.221041**	0.01	4.2	ug/L
|	B	11	910.054	0.001	**0.840960**	0.05	5.8	ug/L
|	Na	23	10607.330	-0.009	**7.162703**	1.24	17.3	ug/L
|	Mg	24	166.669	-0.002	**5.769726**	0.14	2.4	ug/L
|	Al	27	955.059	-0.010	**12.176028**	0.03	0.2	ug/L
|	K	39	47815.250	-0.020	**-24.631699**	2.92	11.9	ug/L
|	Ca	43	117.334	-0.000	**-14.325327**	4.59	32.1	ug/L
| >	Sc	45	332048.381	332048.381				ug/L
|	Ti	49	354.675	-0.000	**0.229257**	0.33	144.2	ug/L
|	Co	59	49.334	-0.000	**-0.237691**	0.01	4.0	ug/L
|	Ni	60	15.333	0.000	**-0.735920**	0.03	3.4	ug/L
|	Ni	62	30.667	0.000	**-0.068433**	0.04	56.3	ug/L
|	Cu	63	104.001	0.000	**-0.432870**	0.01	1.6	ug/L
|	Cu	65	68.000	0.000	**-0.628153**	0.03	4.3	ug/L
|	Zn	66	89.334	-0.000	**-0.277031**	0.05	18.4	ug/L
|	Zn	67	1032.069	0.000	**-2.609019**	1.13	43.4	ug/L
|	Zn	68	117.334	-0.000	**-1.136231**	0.22	19.2	ug/L
|	V	51	819.957	0.004	**0.852516**	0.22	25.9	ug/L
|	Cr	52	2676.466	0.000	**-0.160036**	0.03	20.6	ug/L
|	Cr	53	11531.305	0.001	**-6.416124**	1.15	17.9	ug/L
|	Mn	55	369.342	0.000	**-0.181074**	0.01	2.9	ug/L
|	Fe	54	11679.430	-0.001	**-1.829585**	1.65	90.0	ug/L
⌞	Fe	57	718.700	-0.001	**-0.518681**	0.38	72.4	ug/L
⌜	As	75	-309.506	-0.000	**0.114605**	0.21	182.4	ug/L
|	Se	77	1596.166	-0.000	**-8.418587**	2.21	26.3	ug/L
|	Se	82	4.058	0.000	**-0.178656**	0.11	61.3	ug/L
|	Sr	88	82.667	-0.000	**0.274696**	0.01	1.8	ug/L
| >	Y	89	479507.954	479507.954				ug/L
|	Mo	95	23.333	-0.000	**0.137145**	0.01	6.7	ug/L
|	Mo	97	12.667	-0.000	**-0.241302**	0.01	2.9	ug/L
⌞	Mo	98	30.594	-0.000	**0.027094**	0.01	39.1	ug/L
⌜	Ag	107	10.000	0.000	**-0.448717**	0.00	0.6	ug/L
|	Ag	109	10.000	0.000	**-0.590983**	0.00	0.4	ug/L
|	Cd	111	4.000	-0.000	**-0.049580**	0.01	10.3	ug/L
|	Cd	114	10.097	0.000	**0.338554**	0.01	2.0	ug/L

|>	In	115	217668.122	217668.122				ug/L
|	Sn	120	681.971	-0.000	**-0.154343**	0.01	5.0	ug/L
|	Sb	121	927.389	0.002	**0.987179**	0.02	1.6	ug/L
_	Sb	123	779.452	0.002	**0.884704**	0.03	3.8	ug/L
⌈	Ba	135	21.333	-0.000	**-0.195609**	0.01	3.5	ug/L
|	Ba	137	34.000	-0.000	**-0.060679**	0.03	56.4	ug/L
|	Tb	159	345950.700	0.017				ug/L
|>	Ho	165	381576.359	381576.359				ug/L
|	Tl	203	59.334	0.000	**-0.298248**	0.00	1.0	ug/L
|	Tl	205	101.334	0.000	**-0.192875**	0.00	1.1	ug/L
_	Pb	208	90.000	0.000	**-0.352355**	0.00	0.4	ug/L
	Kr	83	18.067	-1.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.054	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		96.514	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		95.658	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	93.951
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Wednesday, February 17, 2010 09:56:20
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 4.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	19893.267	-0.007				ug/L
|	Li	7	96302.665	0.293	**103.385225**	10.89	10.5	ug/L
|	Be	9	21786.846	0.068	**102.872126**	9.30	9.0	ug/L
|	B	11	25618.657	0.078	**102.374126**	9.29	9.1	ug/L
|	Na	23	2860669.639	8.911	**5086.119009**	456.28	9.0	ug/L
|	Mg	24	2083948.347	6.509	**5167.497563**	239.11	4.6	ug/L
|	Al	27	6417415.997	20.057	**5174.133870**	374.94	7.2	ug/L
|	K	39	6062334.384	18.790	**5595.447023**	392.45	7.0	ug/L
|	Ca	43	24350.511	0.076	**5099.949389**	403.89	7.9	ug/L
| >	Sc	45	320555.213	320555.213				ug/L
|	Ti	49	12322.531	0.037	**101.382093**	7.40	7.3	ug/L
|	Co	59	187544.604	0.586	**101.323722**	7.36	7.3	ug/L
|	Ni	60	36943.876	0.116	**101.692145**	8.26	8.1	ug/L
|	Ni	62	5711.456	0.018	**101.224435**	9.98	9.9	ug/L
|	Cu	63	89766.279	0.281	**101.982020**	8.06	7.9	ug/L
|	Cu	65	42541.350	0.133	**100.486872**	6.96	6.9	ug/L
|	Zn	66	28535.513	0.089	**101.344325**	7.52	7.4	ug/L
|	Zn	67	5473.948	0.014	**97.285241**	10.76	11.1	ug/L
|	Zn	68	20250.628	0.063	**99.474300**	7.53	7.6	ug/L
|	V	51	185078.697	0.580	**101.568157**	6.10	6.0	ug/L
|	Cr	52	158557.136	0.488	**101.257110**	7.42	7.3	ug/L
|	Cr	53	28983.194	0.057	**93.415539**	13.31	14.2	ug/L
|	Mn	55	280876.354	0.878	**100.968195**	8.27	8.2	ug/L
|	Fe	54	697308.326	2.145	**5004.673354**	428.65	8.6	ug/L
⌊	Fe	57	289396.861	0.903	**5086.700242**	441.07	8.7	ug/L
⌜	As	75	30920.480	0.069	**101.849617**	4.99	4.9	ug/L
|	Se	77	13489.152	0.026	**522.237296**	44.28	8.5	ug/L
|	Se	82	15471.947	0.034	**517.482642**	25.62	5.0	ug/L
|	Sr	88	425215.562	0.945	**102.657353**	6.74	6.6	ug/L
| >	Y	89	451207.703	451207.703				ug/L
|	Mo	95	50338.193	0.112	**102.853596**	7.13	6.9	ug/L
|	Mo	97	31072.642	0.069	**103.319322**	7.65	7.4	ug/L
⌊	Mo	98	79135.637	0.176	**104.360704**	7.79	7.5	ug/L
⌜	Ag	107	143347.657	0.695	**102.017932**	6.27	6.1	ug/L
|	Ag	109	136734.865	0.664	**102.773053**	7.14	6.9	ug/L
|	Cd	111	34455.680	0.167	**102.177838**	7.53	7.4	ug/L
|	Cd	114	77435.846	0.376	**100.077271**	6.06	6.1	ug/L

|>	In	115	206658.383	206658.383				ug/L
|	Sn	120	154544.970	0.747	**101.252698**	8.53	8.4	ug/L
|	Sb	121	113778.965	0.551	**99.973128**	8.36	8.4	ug/L
|	Sb	123	88001.122	0.426	**99.580267**	8.98	9.0	ug/L
|	Ba	135	34385.431	0.094	**100.365528**	8.64	8.6	ug/L
|	Ba	137	60482.918	0.165	**100.612502**	7.05	7.0	ug/L
|	Tb	159	330446.970	0.012				ug/L
|>	Ho	165	366036.721	366036.721				ug/L
|	Tl	203	167880.395	0.460	**100.157804**	5.64	5.6	ug/L
|	Tl	205	396198.560	1.085	**99.302242**	6.09	6.1	ug/L
|	Pb	208	542538.171	1.485	**100.688620**	6.29	6.2	ug/L
	Kr	83	22.933	3.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	103.385		
Be	9	102.872		
B	11	102.374		
Na	23	101.722		
Mg	24	103.350		
Al	27	101.454		
K	39	111.909		
Ca	43	101.999		
Sc	45		92.729	
Ti	49	101.382		
Co	59	101.324		
Ni	60	101.692		
Ni	62	101.224		
Cu	63	101.982		
Cu	65	100.487		
Zn	66	101.344		
Zn	67	97.285		
Zn	68	99.474		
V	51	101.568		
Cr	52	101.257		
Cr	53	93.416		
Mn	55	100.968		
Fe	54	100.093		
Fe	57	101.734		
As	75	101.850		
Se	77	104.447		
Se	82	103.497		
Sr	88	102.657		
Y	89		90.818	
Mo	95	102.854		
Mo	97	103.319		
Mo	98	104.361		
Ag	107	102.018		
Ag	109	102.773		
Cd	111	102.178		
Cd	114	100.077		
In	115		90.820	
Sn	120	101.253		
Sb	121	99.973		

Sb	123	99.580	
Ba	135	100.366	
Ba	137	100.613	
Tb	159		
Ho	165		90.125
Tl	203	100.158	
Tl	205	99.302	
Pb	208	100.689	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Wednesday, February 17, 2010 09:59:39
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 5.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24799.398	0.007				ug/L
|	Li	7	4831.518	0.006	**2.359951**	0.14	6.0	ug/L
|	Be	9	462.681	0.001	**2.308932**	0.05	2.3	ug/L
|	B	11	6298.578	0.017	**22.322070**	0.55	2.5	ug/L
|	Na	23	67158.771	0.163	**105.143841**	7.45	7.1	ug/L
|	Mg	24	19056.973	0.055	**51.296199**	4.32	8.4	ug/L
|	Al	27	64097.701	0.182	**61.516102**	2.68	4.3	ug/L
|	K	39	133856.059	0.242	**53.645831**	1.84	3.4	ug/L
|	Ca	43	1178.757	0.003	**203.493513**	20.18	9.9	ug/L
| >	Sc	45	329622.383	329622.383				ug/L
|	Ti	49	981.396	0.002	**5.398385**	0.73	13.5	ug/L
|	Co	59	4149.119	0.012	**1.917193**	0.04	2.3	ug/L
|	Ni	60	766.038	0.002	**1.286171**	0.14	10.9	ug/L
|	Ni	62	134.668	0.000	**1.738555**	0.29	16.8	ug/L
|	Cu	63	1955.582	0.006	**1.620122**	0.05	3.3	ug/L
|	Cu	65	941.392	0.003	**1.392188**	0.32	23.1	ug/L
|	Zn	66	1950.915	0.005	**6.186414**	0.57	9.2	ug/L
|	Zn	67	1366.789	0.002	**4.821769**	3.14	65.1	ug/L
|	Zn	68	1434.800	0.004	**5.257362**	0.21	3.9	ug/L
|	V	51	19880.440	0.062	**10.974186**	0.49	4.5	ug/L
|	Cr	52	9357.022	0.021	**4.070018**	0.22	5.4	ug/L
|	Cr	53	12585.622	0.004	**-0.191811**	3.04	1586.9	ug/L
|	Mn	55	6223.851	0.018	**1.867554**	0.06	3.0	ug/L
|	Fe	54	25871.558	0.042	**99.368175**	8.95	9.0	ug/L
⌞	Fe	57	6708.925	0.018	**102.013073**	5.09	5.0	ug/L
⌜	As	75	844.725	0.002	**3.687096**	0.06	1.5	ug/L
|	Se	77	1718.192	0.000	**-2.308334**	3.58	155.2	ug/L
|	Se	82	170.865	0.000	**5.145666**	0.51	10.0	ug/L
|	Sr	88	4582.698	0.010	**1.307000**	0.03	2.5	ug/L
| >	Y	89	472607.687	472607.687				ug/L
|	Mo	95	1131.417	0.002	**2.290907**	0.03	1.2	ug/L
|	Mo	97	693.365	0.001	**1.919432**	0.04	1.9	ug/L
⌞	Mo	98	1807.180	0.003	**2.258275**	0.11	4.9	ug/L
⌜	Ag	107	1507.481	0.007	**0.569937**	0.02	3.0	ug/L
|	Ag	109	1465.473	0.007	**0.456364**	0.05	11.9	ug/L
|	Cd	111	736.035	0.003	**2.017925**	0.08	3.9	ug/L
|	Cd	114	1669.983	0.008	**2.374492**	0.06	2.4	ug/L

|>	In	115	216565.120	216565.120				ug/L
|	Sn	120	8632.092	0.036	**4.831712**	0.24	5.0	ug/L
|	Sb	121	7767.257	0.034	**6.691052**	0.11	1.6	ug/L
\L	Sb	123	6088.238	0.026	**6.595384**	0.07	1.1	ug/L
|	Ba	135	1795.543	0.005	**4.793841**	0.36	7.5	ug/L
|	Ba	137	3172.655	0.008	**4.963826**	0.38	7.6	ug/L
|	Tb	159	346436.433	0.021				ug/L
|>	Ho	165	380479.106	380479.106				ug/L
|	Tl	203	3707.560	0.010	**1.801710**	0.12	6.9	ug/L
|	Tl	205	9001.266	0.024	**1.955966**	0.12	6.1	ug/L
\L	Pb	208	5785.521	0.015	**0.667682**	0.07	10.0	ug/L
	Kr	83	17.533	-1.867				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	117.998		
Be	9	115.447		
B	11	111.610		
Na	23	105.144		
Mg	24	102.592		
Al	27	123.032		
K	39	71.528		
Ca	43	101.747		
Sc	45		95.352	
Ti	49	107.968		
Co	59	95.860		
Ni	60	64.309		
Ni	62	86.928		
Cu	63	81.006		
Cu	65	69.609		
Zn	66	103.107		
Zn	67	80.363		
Zn	68	87.623		
V	51	109.742		
Cr	52	101.750		
Cr	53	-4.795		
Mn	55	93.378		
Fe	54	99.368		
Fe	57	102.013		
As	75	92.177		
Se	77	-46.167		
Se	82	102.913		
Sr	88	130.700		
Y	89		95.126	
Mo	95	114.545		
Mo	97	95.972		
Mo	98	112.914		
Ag	107	56.994		
Ag	109	45.636		
Cd	111	100.896		
Cd	114	118.725		
In	115		95.173	
Sn	120	120.793		
Sb	121	133.821		

Sb	123	131.908	
Ba	135	95.877	
Ba	137	99.277	
Tb	159		
Ho	165		93.681
Tl	203	90.086	
Tl	205	97.798	
Pb	208	66.768	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Wednesday, February 17, 2010 10:02:44
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 6.012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	25449.422	0.007				ug/L
|	Li	7	3017.926	0.001	**0.365318**	0.12	32.4	ug/L
|	Be	9	4.667	0.000	**0.214814**	0.01	6.4	ug/L
|	B	11	917.388	0.001	**0.834605**	0.06	6.9	ug/L
|	Na	23	10140.177	-0.010	**6.175507**	3.19	51.6	ug/L
|	Mg	24	233.337	-0.002	**5.925228**	0.28	4.7	ug/L
|	Al	27	906.720	-0.010	**12.131257**	0.06	0.5	ug/L
|	K	39	52042.337	-0.009	**-21.291366**	1.86	8.7	ug/L
|	Ca	43	117.334	-0.000	**-14.580483**	7.26	49.8	ug/L
| >	Sc	45	335323.135	335323.135				ug/L
|	Ti	49	308.673	-0.000	**-0.168192**	0.14	82.3	ug/L
|	Co	59	68.000	0.000	**-0.228308**	0.00	1.8	ug/L
|	Ni	60	15.333	0.000	**-0.736383**	0.00	0.4	ug/L
|	Ni	62	36.000	0.000	**0.016811**	0.12	689.2	ug/L
|	Cu	63	111.334	0.000	**-0.426049**	0.01	2.1	ug/L
|	Cu	65	53.334	0.000	**-0.662833**	0.01	2.2	ug/L
|	Zn	66	77.334	-0.000	**-0.320870**	0.02	5.8	ug/L
|	Zn	67	1138.751	0.001	**-0.556327**	1.63	293.5	ug/L
|	Zn	68	129.334	-0.000	**-1.082751**	0.19	17.8	ug/L
|	V	51	-30.281	0.001	**0.403611**	0.55	136.5	ug/L
|	Cr	52	2743.823	0.000	**-0.134972**	0.06	45.4	ug/L
|	Cr	53	12273.795	0.003	**-3.073668**	2.58	84.0	ug/L
|	Mn	55	322.007	-0.000	**-0.198659**	0.01	5.3	ug/L
|	Fe	54	11883.846	-0.001	**-1.209065**	1.21	100.2	ug/L
⌞	Fe	57	799.375	-0.000	**0.716527**	0.51	71.3	ug/L
⌜	As	75	-385.632	-0.000	**-0.127641**	0.12	93.1	ug/L
|	Se	77	1746.865	0.000	**-1.526476**	4.04	264.9	ug/L
|	Se	82	1.974	0.000	**-0.243629**	0.13	52.1	ug/L
|	Sr	88	94.001	0.000	**0.277438**	0.00	0.8	ug/L
| >	Y	89	475294.744	475294.744				ug/L
|	Mo	95	26.000	-0.000	**0.142816**	0.02	15.2	ug/L
|	Mo	97	9.333	-0.000	**-0.251563**	0.03	11.8	ug/L
⌞	Mo	98	37.333	-0.000	**0.035711**	0.01	41.4	ug/L
⌜	Ag	107	16.667	0.000	**-0.444234**	0.00	0.4	ug/L
|	Ag	109	7.333	0.000	**-0.592899**	0.00	0.7	ug/L
|	Cd	111	4.500	0.000	**-0.048244**	0.01	13.2	ug/L
|	Cd	114	10.878	0.000	**0.339484**	0.00	0.7	ug/L

|>	In	115	218410.473	218410.473				ug/L
|	Sn	120	653.327	-0.000	**-0.173527**	0.01	4.1	ug/L
|	Sb	121	758.704	0.001	**0.845170**	0.01	1.0	ug/L
|	Sb	123	622.356	0.001	**0.714411**	0.05	7.4	ug/L
|	Ba	135	17.333	-0.000	**-0.207325**	0.01	4.4	ug/L
|	Ba	137	25.333	-0.000	**-0.075071**	0.01	19.3	ug/L
|	Tb	159	348942.032	0.013				ug/L
|>	Ho	165	386246.676	386246.676				ug/L
|	Tl	203	45.333	0.000	**-0.306501**	0.01	2.0	ug/L
|	Tl	205	80.667	0.000	**-0.198078**	0.00	0.7	ug/L
|	Pb	208	103.334	0.000	**-0.350207**	0.00	0.8	ug/L
	Kr	83	20.400	1.000				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		97.001	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		95.666	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		95.984	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	95.101
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Wednesday, February 17, 2010 10:06:17
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\ICSA.013
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	23482.984	0.006				ug/L
|	Li	7	2827.186	0.001	**0.346380**	0.04	12.7	ug/L
|	Be	9	4.000	-0.000	**0.212832**	0.02	7.7	ug/L
|	B	11	918.722	0.001	**1.060126**	0.25	24.0	ug/L
|	Na	23	52416168.769	165.852	**94448.862648**	1315.52	1.4	ug/L
|	Mg	24	37189012.634	117.695	**93310.410496**	2147.00	2.3	ug/L
|	Al	27	113646095.077	359.668	**92536.945730**	2357.98	2.5	ug/L
|	K	39	91928833.480	290.793	**86866.110146**	3653.07	4.2	ug/L
|	Ca	43	451536.212	1.429	**96364.309689**	1820.68	1.9	ug/L
| >	Sc	45	315964.317	315964.317				ug/L
|	Ti	49	232275.086	0.734	**1981.747815**	47.80	2.4	ug/L
|	Co	59	3116.631	0.010	**1.444889**	0.03	1.8	ug/L
|	Ni	60	962.060	0.003	**1.922612**	0.03	1.4	ug/L
|	Ni	62	637.360	0.002	**10.892544**	0.52	4.7	ug/L
|	Cu	63	1834.886	0.006	**1.573267**	0.08	5.2	ug/L
|	Cu	65	1020.068	0.003	**1.673392**	0.21	12.5	ug/L
|	Zn	66	937.390	0.002	**2.804075**	0.09	3.3	ug/L
|	Zn	67	1090.744	0.001	**-0.158357**	0.57	361.5	ug/L
|	Zn	68	297.339	0.000	**-0.196781**	0.03	14.4	ug/L
|	V	51	512.046	0.003	**0.703597**	0.19	27.6	ug/L
|	Cr	52	5653.428	0.010	**1.885133**	0.44	23.6	ug/L
|	Cr	53	10119.987	-0.002	**-11.234978**	0.64	5.7	ug/L
|	Mn	55	19071.613	0.059	**6.647321**	0.01	0.2	ug/L
|	Fe	54	12862404.469	40.672	**94859.722005**	926.67	1.0	ug/L
⌊	Fe	57	5333836.465	16.878	**95046.422933**	830.15	0.9	ug/L
⌜	As	75	-284.415	-0.000	**0.130291**	0.98	750.1	ug/L
|	Se	77	1904.903	0.001	**10.132251**	1.91	18.9	ug/L
|	Se	82	-15.251	-0.000	**-0.819320**	0.17	20.5	ug/L
|	Sr	88	9963.115	0.022	**2.671711**	0.05	1.8	ug/L
| >	Y	89	446947.549	446947.549				ug/L
|	Mo	95	989235.693	2.213	**2032.802276**	35.52	1.7	ug/L
|	Mo	97	606012.410	1.356	**2033.098123**	33.97	1.7	ug/L
⌊	Mo	98	1528806.289	3.420	**2029.034578**	33.89	1.7	ug/L
⌜	Ag	107	143.335	0.001	**-0.349436**	0.02	5.1	ug/L
|	Ag	109	132.001	0.001	**-0.494855**	0.01	3.0	ug/L
|	Cd	111	751.870	0.004	**2.248182**	0.08	3.5	ug/L
|	Cd	114	1396.522	0.007	**2.189250**	0.05	2.3	ug/L

|>	In	115	199020.976	199020.976				ug/L
|	Sn	120	723.975	0.000	**-0.085873**	0.00	4.7	ug/L
|	Sb	121	632.693	0.001	**0.791845**	0.08	10.1	ug/L
|	Sb	123	492.095	0.001	**0.626484**	0.07	11.0	ug/L
⌈	Ba	135	522.018	0.001	**1.320162**	0.16	12.3	ug/L
|	Ba	137	904.720	0.002	**1.439433**	0.13	9.4	ug/L
|	Tb	159	317468.648	0.006				ug/L
|>	Ho	165	354268.876	354268.876				ug/L
|	Tl	203	242.004	0.001	**-0.182767**	0.01	5.2	ug/L
|	Tl	205	609.357	0.002	**-0.059451**	0.00	2.0	ug/L
⌊	Pb	208	1325.379	0.004	**-0.113855**	0.02	16.5	ug/L
	Kr	83	40.533	21.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		91.401	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		89.961	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		87.463	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.228
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Wednesday, February 17, 2010 10:08:58
Sample Type: Spike - 2 of 19
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\ICSAB.014
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24560.231	0.010				ug/L
|	Li	7	2887.876	0.001	**0.444680**	0.11	24.5	ug/L
|	Be	9	4.667	0.000	**0.216283**	0.01	5.2	ug/L
|	B	11	888.718	0.001	**0.969446**	0.41	42.5	ug/L
|	Na	23	54681930.075	174.655	**99461.288122**	112.09	0.1	ug/L
|	Mg	24	38420686.591	122.745	**97314.223426**	982.16	1.0	ug/L
|	Al	27	116901612.473	373.473	**96088.152296**	1835.56	1.9	ug/L
|	K	39	94518586.516	301.827	**90162.960352**	3054.97	3.4	ug/L
|	Ca	43	462130.352	1.476	**99558.156869**	1489.07	1.5	ug/L
| >	Sc	45	313013.986	313013.986				ug/L
|	Ti	49	233637.310	0.745	**2012.279574**	13.25	0.7	ug/L
|	Co	59	145825.499	0.466	**80.422819**	1.32	1.6	ug/L
|	Ni	60	27622.842	0.088	**77.464324**	0.92	1.2	ug/L
|	Ni	62	4769.478	0.015	**86.177366**	1.05	1.2	ug/L
|	Cu	63	63634.848	0.203	**73.679888**	1.10	1.5	ug/L
|	Cu	65	31011.749	0.099	**74.636170**	1.68	2.3	ug/L
|	Zn	66	10643.363	0.033	**38.247384**	1.05	2.7	ug/L
|	Zn	67	2652.458	0.006	**35.616554**	2.25	6.3	ug/L
|	Zn	68	7252.751	0.023	**35.313053**	0.72	2.0	ug/L
|	V	51	145525.274	0.466	**81.695119**	0.18	0.2	ug/L
|	Cr	52	125724.466	0.394	**81.666984**	0.16	0.2	ug/L
|	Cr	53	24225.420	0.044	**69.712750**	0.65	0.9	ug/L
|	Mn	55	234086.669	0.747	**85.881980**	0.94	1.1	ug/L
|	Fe	54	13026915.990	41.582	**96980.903929**	1244.40	1.3	ug/L
⌞	Fe	57	5404593.835	17.264	**97219.789481**	1194.12	1.2	ug/L
⌜	As	75	10261.593	0.023	**34.360180**	0.49	1.4	ug/L
|	Se	77	2867.868	0.003	**51.507069**	3.47	6.7	ug/L
|	Se	82	1131.378	0.002	**37.382153**	0.28	0.8	ug/L
|	Sr	88	9840.958	0.022	**2.613602**	0.03	1.0	ug/L
| >	Y	89	452331.642	452331.642				ug/L
|	Mo	95	964441.735	2.132	**1958.301139**	40.71	2.1	ug/L
|	Mo	97	590879.477	1.306	**1958.753717**	42.02	2.1	ug/L
⌞	Mo	98	1508169.090	3.334	**1977.892222**	51.50	2.6	ug/L
⌜	Ag	107	25231.987	0.127	**18.312189**	0.45	2.5	ug/L
|	Ag	109	23990.688	0.121	**18.265495**	0.33	1.8	ug/L
|	Cd	111	12783.113	0.065	**39.380742**	0.72	1.8	ug/L
|	Cd	114	28377.578	0.143	**38.360052**	0.97	2.5	ug/L

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|>	In	115	198116.648	198116.648				ug/L
|	Sn	120	707.948	0.000	**-0.094525**	0.04	44.4	ug/L
|	Sb	121	413.344	0.000	**0.594743**	0.01	2.0	ug/L
\L	Sb	123	304.500	-0.000	**0.408696**	0.02	4.1	ug/L
|	Ba	135	502.016	0.001	**1.258921**	0.14	11.0	ug/L
|	Ba	137	868.716	0.002	**1.376837**	0.04	2.7	ug/L
|	Tb	159	313154.847	-0.006				ug/L
|>	Ho	165	354179.131	354179.131				ug/L
|	Tl	203	254.004	0.001	**-0.175204**	0.02	13.2	ug/L
|	Tl	205	552.020	0.002	**-0.074158**	0.02	21.1	ug/L
\L	Pb	208	1356.715	0.004	**-0.107705**	0.01	13.1	ug/L
	Kr	83	39.733	20.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		90.548	
Ti	49			
Co	59			98.722
Ni	60			94.427
Ni	62			94.106
Cu	63			90.133
Cu	65			91.203
Zn	66			88.608
Zn	67			89.437
Zn	68			88.775
V	51			101.239
Cr	52			99.727
Cr	53			101.185
Mn	55			99.043
Fe	54			
Fe	57			
As	75			85.575
Se	77			103.437
Se	82			95.504
Sr	88			
Y	89		91.044	
Mo	95			
Mo	97			
Mo	98			
Ag	107			93.308
Ag	109			93.802
Cd	111			92.831
Cd	114			90.427
In	115		87.066	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.206
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-20A
Sample Date/Time: Wednesday, February 17, 2010 10:20:00
Sample Type: Sample
Sample Description: 25
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\10020428-20A.015
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 0.4000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	26908.655	0.012				ug/L
|	Li	7	3734.241	0.003	**28.703368**	4.05	14.1	ug/L
|	Be	9	22.000	0.000	**7.332550**	0.43	5.9	ug/L
|	B	11	582.022	-0.000	**-11.476854**	1.81	15.8	ug/L
|	Na	23	1091056.026	3.239	**46413.637436**	690.21	1.5	ug/L
|	Mg	24	308713.657	0.925	**18530.693721**	949.74	5.1	ug/L
|	Al	27	15487.259	0.034	**585.258063**	10.52	1.8	ug/L
|	K	39	86013.632	0.095	**240.283466**	165.03	68.7	ug/L
|	Ca	43	5265.802	0.015	**25740.613883**	496.93	1.9	ug/L
| >	Sc	45	332673.717	332673.717				ug/L
|	Ti	49	304.006	-0.000	**-4.651509**	3.51	75.5	ug/L
|	Co	59	758.705	0.002	**3.281874**	1.57	47.9	ug/L
|	Ni	60	172.669	0.000	**-7.920643**	1.56	19.6	ug/L
|	Ni	62	73.334	0.000	**16.503083**	8.67	52.6	ug/L
|	Cu	63	74.667	0.000	**-11.631944**	0.07	0.6	ug/L
|	Cu	65	40.000	-0.000	**-17.318009**	1.26	7.3	ug/L
|	Zn	66	268.005	0.000	**8.387985**	1.72	20.6	ug/L
|	Zn	67	954.726	0.000	**-107.798156**	20.81	19.3	ug/L
|	Zn	68	260.004	0.000	**-11.293463**	1.02	9.0	ug/L
|	V	51	-48.500	0.001	**9.853295**	10.96	111.2	ug/L
|	Cr	52	2589.102	-0.000	**-5.448817**	0.52	9.5	ug/L
|	Cr	53	11349.705	0.000	**-187.847116**	33.16	17.7	ug/L
|	Mn	55	33957.468	0.101	**286.385019**	5.37	1.9	ug/L
|	Fe	54	48903.679	0.110	**6474.709160**	69.97	1.1	ug/L
⌞	Fe	57	16001.303	0.045	**6454.154214**	222.89	3.5	ug/L
⌜	As	75	-408.666	-0.000	**-5.462085**	8.52	156.0	ug/L
|	Se	77	1577.495	-0.000	**-186.125617**	22.30	12.0	ug/L
|	Se	82	2.585	0.000	**-5.524020**	2.77	50.1	ug/L
|	Sr	88	41597.539	0.089	**247.785118**	6.63	2.7	ug/L
| >	Y	89	466943.508	466943.508				ug/L
|	Mo	95	110.001	0.000	**7.726196**	0.39	5.1	ug/L
|	Mo	97	46.000	-0.000	**-3.333496**	0.35	10.6	ug/L
⌞	Mo	98	163.709	-0.000	**4.929150**	0.82	16.6	ug/L
⌜	Ag	107	6.000	0.000	**-11.284107**	0.03	0.3	ug/L
|	Ag	109	6.000	0.000	**-14.845040**	0.07	0.5	ug/L
|	Cd	111	4.000	-0.000	**-1.235893**	0.06	4.8	ug/L
|	Cd	114	0.925	-0.000	**8.184521**	0.10	1.2	ug/L

|>	In	115	214530.384	214530.384				ug/L
|	Sn	120	641.309	-0.000	**-4.345312**	0.65	15.0	ug/L
|	Sb	121	314.006	-0.001	**12.055986**	0.34	2.8	ug/L
|	Sb	123	263.501	-0.001	**8.423286**	0.33	3.9	ug/L
|	Ba	135	112.001	0.000	**1.689497**	1.62	95.7	ug/L
|	Ba	137	190.002	0.000	**4.895597**	0.22	4.5	ug/L
|	Tb	159	339344.179	0.023				ug/L
|>	Ho	165	371771.235	371771.235				ug/L
|	Tl	203	4.000	-0.000	**-8.245795**	0.06	0.7	ug/L
|	Tl	205	20.667	0.000	**-5.303801**	0.08	1.6	ug/L
|	Pb	208	96.667	0.000	**-8.768919**	0.06	0.6	ug/L
	Kr	83	19.000	-0.400				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.235	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		93.985	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		94.279	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	91.537
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: 10020428-33A
Sample Date/Time: Wednesday, February 17, 2010 10:41:14
Sample Type: Sample
Sample Description: 5
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\10020428-33A.017
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL): 2.0000
Diluted to Volume (mL): 10
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	27648.623	0.015				ug/L
|	Li	7	18741.486	0.048	**85.340189**	4.59	5.4	ug/L
|	Be	9	494.683	0.001	**12.183548**	0.68	5.6	ug/L
|	B	11	2257.665	0.005	**30.764358**	0.82	2.7	ug/L
|	Na	23	8910668.396	26.776	**76291.302917**	4219.83	5.5	ug/L
|	Mg	24	2606113.693	7.840	**31114.222416**	1270.57	4.1	ug/L
|	Al	27	1989945.572	5.978	**7761.969053**	409.90	5.3	ug/L
|	K	39	571095.669	1.555	**2230.216693**	201.41	9.0	ug/L
|	Ca	43	63499.702	0.191	**64260.901286**	1601.64	2.5	ug/L
| >	Sc	45	332421.518	332421.518				ug/L
|	Ti	49	494.683	0.000	**6.835666**	1.81	26.5	ug/L
|	Co	59	16425.526	0.049	**41.482909**	1.42	3.4	ug/L
|	Ni	60	3269.361	0.010	**39.728838**	1.26	3.2	ug/L
|	Ni	62	510.684	0.001	**40.797927**	2.02	5.0	ug/L
|	Cu	63	232.004	0.001	**-1.461332**	0.07	4.7	ug/L
|	Cu	65	130.668	0.000	**-2.422574**	0.20	8.1	ug/L
|	Zn	66	6134.446	0.018	**102.488787**	3.06	3.0	ug/L
|	Zn	67	1898.902	0.003	**79.878675**	19.39	24.3	ug/L
|	Zn	68	4602.711	0.013	**102.068242**	2.61	2.6	ug/L
|	V	51	11690.580	0.036	**32.846527**	0.98	3.0	ug/L
|	Cr	52	11323.663	0.026	**26.239785**	0.93	3.5	ug/L
|	Cr	53	12269.112	0.003	**-12.552294**	8.46	67.4	ug/L
|	Mn	55	1025221.914	3.084	**1776.174423**	37.34	2.1	ug/L
|	Fe	54	661401.385	1.954	**22790.124284**	597.89	2.6	ug/L
⌞	Fe	57	268029.179	0.804	**22642.583367**	358.42	1.6	ug/L
⌜	As	75	-262.045	0.000	**1.517672**	1.30	86.0	ug/L
|	Se	77	1759.535	-0.000	**-26.352115**	21.87	83.0	ug/L
|	Se	82	9.162	0.000	**-0.156269**	0.66	420.9	ug/L
|	Sr	88	353177.290	0.700	**380.441835**	6.80	1.8	ug/L
| >	Y	89	504754.393	504754.393				ug/L
|	Mo	95	35.333	-0.000	**0.783651**	0.04	5.4	ug/L
|	Mo	97	22.000	-0.000	**-1.077486**	0.08	7.4	ug/L
⌞	Mo	98	37.781	-0.000	**0.168558**	0.08	46.2	ug/L
⌜	Ag	107	12.000	0.000	**-2.234752**	0.03	1.2	ug/L
|	Ag	109	4.667	0.000	**-2.973269**	0.00	0.2	ug/L
|	Cd	111	208.669	0.001	**2.748271**	0.11	4.1	ug/L
|	Cd	114	478.741	0.002	**4.672838**	0.09	2.0	ug/L

|>	In	115	208956.016	208956.016				ug/L
|	Sn	120	613.298	-0.000	**-0.905047**	0.08	8.6	ug/L
|	Sb	121	358.675	-0.000	**2.641701**	0.19	7.0	ug/L
|	Sb	123	282.084	-0.000	**1.828831**	0.16	8.8	ug/L
|	Ba	135	894.052	0.002	**11.793538**	0.61	5.1	ug/L
|	Ba	137	1642.842	0.004	**13.094311**	0.69	5.3	ug/L
|	Tb	159	333360.922	0.022				ug/L
|>	Ho	165	365613.891	365613.891				ug/L
|	Tl	203	19.333	0.000	**-1.603248**	0.00	0.3	ug/L
|	Tl	205	34.667	0.000	**-1.042902**	0.01	1.0	ug/L
|	Pb	208	1754.745	0.005	**-0.206704**	0.14	69.6	ug/L
	Kr	83	21.867	2.467				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		96.162	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		101.596	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		91.829	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	90.021
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Wednesday, February 17, 2010 10:47:20
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 4.018
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	23149.767	0.001				ug/L
|	Li	7	102508.237	0.299	**105.552712**	5.71	5.4	ug/L
|	Be	9	22680.055	0.068	**102.644943**	3.68	3.6	ug/L
|	B	11	27238.810	0.080	**104.410574**	3.53	3.4	ug/L
|	Na	23	2937679.245	8.770	**5005.881909**	162.19	3.2	ug/L
|	Mg	24	2142938.677	6.431	**5105.603859**	493.18	9.7	ug/L
|	Al	27	6719626.663	20.146	**5197.113754**	237.57	4.6	ug/L
|	K	39	5961750.225	17.736	**5280.491585**	498.91	9.4	ug/L
|	Ca	43	24882.851	0.074	**4996.687601**	181.03	3.6	ug/L
| >	Sc	45	333609.544	333609.544				ug/L
|	Ti	49	11959.290	0.035	**94.146305**	1.54	1.6	ug/L
|	Co	59	184917.750	0.554	**95.793523**	3.33	3.5	ug/L
|	Ni	60	35996.035	0.108	**94.939924**	3.38	3.6	ug/L
|	Ni	62	5515.311	0.016	**93.569790**	2.00	2.1	ug/L
|	Cu	63	87023.482	0.261	**94.740770**	2.44	2.6	ug/L
|	Cu	65	41199.388	0.123	**93.280841**	3.11	3.3	ug/L
|	Zn	66	28024.326	0.083	**95.429215**	5.01	5.3	ug/L
|	Zn	67	5229.781	0.013	**87.016358**	7.82	9.0	ug/L
|	Zn	68	20563.466	0.061	**96.844686**	5.25	5.4	ug/L
|	V	51	183437.873	0.551	**96.604994**	3.51	3.6	ug/L
|	Cr	52	158165.260	0.467	**96.807885**	4.49	4.6	ug/L
|	Cr	53	29285.666	0.054	**88.375894**	7.59	8.6	ug/L
|	Mn	55	282014.838	0.845	**97.200305**	4.66	4.8	ug/L
|	Fe	54	705112.238	2.079	**4850.025863**	251.38	5.2	ug/L
⌞	Fe	57	287141.741	0.859	**4837.453884**	189.29	3.9	ug/L
⌜	As	75	30662.413	0.066	**97.143503**	3.49	3.6	ug/L
|	Se	77	13088.464	0.024	**481.460035**	24.12	5.0	ug/L
|	Se	82	15426.608	0.033	**495.850068**	13.51	2.7	ug/L
|	Sr	88	416586.861	0.889	**96.611780**	2.41	2.5	ug/L
| >	Y	89	468623.235	468623.235				ug/L
|	Mo	95	49563.163	0.106	**97.245897**	2.21	2.3	ug/L
|	Mo	97	30593.387	0.065	**97.641734**	2.35	2.4	ug/L
⌞	Mo	98	76857.780	0.164	**97.287521**	2.63	2.7	ug/L
⌜	Ag	107	139456.355	0.650	**95.252841**	2.14	2.2	ug/L
|	Ag	109	133517.010	0.622	**96.273011**	2.21	2.3	ug/L
|	Cd	111	33743.182	0.157	**96.005073**	1.31	1.4	ug/L
|	Cd	114	75905.984	0.354	**94.186228**	1.22	1.3	ug/L

|>	In	115	214700.215	214700.215				ug/L
|	Sn	120	153011.362	0.709	**96.098346**	1.76	1.8	ug/L
|	Sb	121	111088.429	0.515	**93.615184**	0.07	0.1	ug/L
|	Sb	123	86091.737	0.399	**93.394751**	1.20	1.3	ug/L
|	Ba	135	33636.049	0.090	**96.205400**	0.51	0.5	ug/L
|	Ba	137	59026.978	0.158	**96.258221**	0.47	0.5	ug/L
|	Tb	159	336916.411	0.014				ug/L
|>	Ho	165	372458.877	372458.877				ug/L
|	Tl	203	161951.222	0.435	**94.755721**	0.19	0.2	ug/L
|	Tl	205	390056.786	1.047	**95.884835**	2.62	2.7	ug/L
|	Pb	208	528375.889	1.419	**96.174668**	2.77	2.9	ug/L
	Kr	83	19.533	0.133				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	105.553		
Be	9	102.645		
B	11	104.411		
Na	23	100.118		
Mg	24	102.112		
Al	27	101.904		
K	39	105.610		
Ca	43	99.934		
Sc	45		96.506	
Ti	49	94.146		
Co	59	95.794		
Ni	60	94.940		
Ni	62	93.570		
Cu	63	94.741		
Cu	65	93.281		
Zn	66	95.429		
Zn	67	87.016		
Zn	68	96.845		
V	51	96.605		
Cr	52	96.808		
Cr	53	88.376		
Mn	55	97.200		
Fe	54	97.001		
Fe	57	96.749		
As	75	97.144		
Se	77	96.292		
Se	82	99.170		
Sr	88	96.612		
Y	89		94.324	
Mo	95	97.246		
Mo	97	97.642		
Mo	98	97.288		
Ag	107	95.253		
Ag	109	96.273		
Cd	111	96.005		
Cd	114	94.186		
In	115		94.354	
Sn	120	96.098		
Sb	121	93.615		

Sb	123	93.395	
Ba	135	96.205	
Ba	137	96.258	
Tb	159		
Ho	165		91.707
Tl	203	94.756	
Tl	205	95.885	
Pb	208	96.175	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Wednesday, February 17, 2010 10:50:21
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 5.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Li	6	26643.179	0.013				ug/L
	Li	7	5053.660	0.007	**2.662205**	0.23	8.8	ug/L
	Be	9	487.349	0.001	**2.447382**	0.14	5.7	ug/L
	B	11	6124.437	0.017	**21.906645**	0.35	1.6	ug/L
	Na	23	69344.944	0.172	**110.220443**	6.90	6.3	ug/L
	Mg	24	20995.435	0.062	**56.543823**	5.73	10.1	ug/L
	Al	27	65428.856	0.188	**63.130924**	2.42	3.8	ug/L
	K	39	134534.288	0.249	**55.821929**	7.74	13.9	ug/L
	Ca	43	1034.736	0.003	**175.947161**	10.81	6.1	ug/L
>	Sc	45	325820.874	325820.874				ug/L
	Ti	49	971.395	0.002	**5.405340**	0.69	12.7	ug/L
	Co	59	3703.559	0.011	**1.705244**	0.04	2.4	ug/L
	Ni	60	789.374	0.002	**1.370890**	0.05	3.6	ug/L
	Ni	62	150.668	0.000	**2.042699**	0.32	15.7	ug/L
	Cu	63	1942.246	0.006	**1.631588**	0.15	9.3	ug/L
	Cu	65	930.723	0.003	**1.394579**	0.27	19.5	ug/L
	Zn	66	1750.866	0.005	**5.556078**	0.21	3.7	ug/L
	Zn	67	1262.771	0.001	**2.834901**	1.70	59.9	ug/L
	Zn	68	1312.112	0.004	**4.733388**	0.38	8.1	ug/L
	V	51	18771.365	0.059	**10.494158**	0.65	6.2	ug/L
	Cr	52	8997.259	0.020	**3.906646**	0.12	3.0	ug/L
	Cr	53	11954.620	0.003	**-2.908136**	1.63	55.9	ug/L
	Mn	55	6067.060	0.018	**1.838732**	0.12	6.8	ug/L
	Fe	54	25485.042	0.042	**98.660990**	7.06	7.2	ug/L
	Fe	57	6442.697	0.017	**98.687971**	3.15	3.2	ug/L
	As	75	849.347	0.002	**3.742748**	0.53	14.2	ug/L
	Se	77	1640.175	-0.000	**-4.595044**	3.80	82.7	ug/L
	Se	82	159.648	0.000	**4.859542**	0.18	3.6	ug/L
	Sr	88	4614.051	0.010	**1.329311**	0.01	1.0	ug/L
>	Y	89	465799.416	465799.416				ug/L
	Mo	95	1121.415	0.002	**2.304510**	0.17	7.3	ug/L
	Mo	97	676.030	0.001	**1.896045**	0.08	4.5	ug/L
	Mo	98	1647.364	0.003	**2.086825**	0.02	1.1	ug/L
	Ag	107	1486.144	0.007	**0.568147**	0.05	9.1	ug/L
	Ag	109	1370.789	0.006	**0.399889**	0.05	11.9	ug/L
	Cd	111	723.534	0.003	**2.006423**	0.17	8.4	ug/L
	Cd	114	1583.447	0.007	**2.289909**	0.08	3.4	ug/L

|>	In	115	214025.346	214025.346				ug/L
|	Sn	120	8414.550	0.036	**4.755345**	0.13	2.6	ug/L
|	Sb	121	7316.147	0.032	**6.392512**	0.33	5.1	ug/L
\L	Sb	123	5829.038	0.025	**6.393391**	0.20	3.1	ug/L
|	Ba	135	1698.854	0.005	**4.633207**	0.28	6.0	ug/L
|	Ba	137	2958.569	0.008	**4.729596**	0.18	3.8	ug/L
|	Tb	159	336491.030	0.016				ug/L
|>	Ho	165	371420.605	371420.605				ug/L
|	Tl	203	3774.926	0.010	**1.890868**	0.05	2.6	ug/L
|	Tl	205	8818.386	0.024	**1.961516**	0.05	2.4	ug/L
\L	Pb	208	5646.150	0.015	**0.666193**	0.03	3.9	ug/L
	Kr	83	19.667	0.267				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7	133.110		
Be	9	122.369		
B	11	109.533		
Na	23	110.220		
Mg	24	113.088		
Al	27	126.262		
K	39	74.429		
Ca	43	87.974		
Sc	45		94.253	
Ti	49	108.107		
Co	59	85.262		
Ni	60	68.545		
Ni	62	102.135		
Cu	63	81.579		
Cu	65	69.729		
Zn	66	92.601		
Zn	67	47.248		
Zn	68	78.890		
V	51	104.942		
Cr	52	97.666		
Cr	53	-72.703		
Mn	55	91.937		
Fe	54	98.661		
Fe	57	98.688		
As	75	93.569		
Se	77	-91.901		
Se	82	97.191		
Sr	88	132.931		
Y	89		93.755	
Mo	95	115.226		
Mo	97	94.802		
Mo	98	104.341		
Ag	107	56.815		
Ag	109	39.989		
Cd	111	100.321		
Cd	114	114.495		
In	115		94.057	
Sn	120	118.884		
Sb	121	127.850		

Sb	123	127.868	
Ba	135	92.664	
Ba	137	94.592	
Tb	159		
Ho	165		91.451
Tl	203	94.543	
Tl	205	98.076	
Pb	208	66.619	
Kr	83		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Wednesday, February 17, 2010 10:53:57
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\QC Std 6.020
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26370.894	0.011				ug/L
|	Li	7	3021.927	0.001	**0.409141**	0.05	13.0	ug/L
|	Be	9	9.333	0.000	**0.236206**	0.02	9.6	ug/L
|	B	11	702.699	0.000	**0.029597**	0.08	269.0	ug/L
|	Na	23	10540.565	-0.009	**7.099103**	1.06	14.9	ug/L
|	Mg	24	100.001	-0.002	**5.611434**	0.00	0.0	ug/L
|	Al	27	851.714	-0.010	**12.097741**	0.04	0.3	ug/L
|	K	39	46540.448	-0.023	**-25.663597**	1.27	4.9	ug/L
|	Ca	43	106.667	-0.000	**-16.444208**	2.91	17.7	ug/L
| >	Sc	45	331120.194	331120.194				ug/L
|	Ti	49	322.007	-0.000	**-0.027755**	0.16	579.3	ug/L
|	Co	59	42.667	-0.000	**-0.241101**	0.01	2.2	ug/L
|	Ni	60	12.667	-0.000	**-0.743038**	0.02	2.3	ug/L
|	Ni	62	24.000	-0.000	**-0.181622**	0.12	65.5	ug/L
|	Cu	63	105.334	0.000	**-0.431082**	0.01	2.4	ug/L
|	Cu	65	50.667	0.000	**-0.667540**	0.03	3.9	ug/L
|	Zn	66	73.334	-0.000	**-0.331217**	0.08	24.4	ug/L
|	Zn	67	1057.406	0.001	**-2.005292**	1.69	84.4	ug/L
|	Zn	68	110.667	-0.000	**-1.165846**	0.10	8.6	ug/L
|	V	51	-84.364	0.001	**0.375430**	0.22	59.4	ug/L
|	Cr	52	2678.467	0.000	**-0.153949**	0.10	67.1	ug/L
|	Cr	53	11424.482	0.001	**-6.817747**	1.86	27.3	ug/L
|	Mn	55	352.008	-0.000	**-0.186750**	0.00	0.5	ug/L
|	Fe	54	11459.040	-0.002	**-3.155354**	1.28	40.5	ug/L
⌊	Fe	57	717.367	-0.001	**-0.507069**	0.86	168.8	ug/L
⌈	As	75	-303.129	-0.000	**0.101936**	0.24	232.6	ug/L
|	Se	77	1529.485	-0.000	**-9.138407**	1.63	17.9	ug/L
|	Se	82	5.066	0.000	**-0.140049**	0.10	72.5	ug/L
|	Sr	88	90.667	0.000	**0.277146**	0.00	1.0	ug/L
| >	Y	89	464475.706	464475.706				ug/L
|	Mo	95	19.333	-0.000	**0.130641**	0.01	5.7	ug/L
|	Mo	97	10.000	-0.000	**-0.248799**	0.02	6.7	ug/L
⌊	Mo	98	23.927	-0.000	**0.019633**	0.01	45.8	ug/L
⌈	Ag	107	6.000	0.000	**-0.451323**	0.00	0.9	ug/L
|	Ag	109	6.000	0.000	**-0.593870**	0.00	0.6	ug/L
|	Cd	111	3.833	-0.000	**-0.049852**	0.00	9.6	ug/L
|	Cd	114	5.786	0.000	**0.333277**	0.01	2.4	ug/L

|>	In	115	215292.076	215292.076				ug/L
|	Sn	120	611.957	-0.001	**-0.193064**	0.06	29.2	ug/L
|	Sb	121	568.688	0.001	**0.695096**	0.01	1.4	ug/L
\L	Sb	123	430.007	0.000	**0.516539**	0.03	6.4	ug/L
\[	Ba	135	11.333	-0.000	**-0.223042**	0.01	6.5	ug/L
|	Ba	137	20.667	-0.000	**-0.081520**	0.00	6.1	ug/L
|	Tb	159	340520.358	0.017				ug/L
|>	Ho	165	375504.667	375504.667				ug/L
|	Tl	203	25.333	0.000	**-0.317461**	0.00	1.0	ug/L
|	Tl	205	80.000	0.000	**-0.197682**	0.00	2.0	ug/L
\L	Pb	208	74.667	0.000	**-0.354910**	0.00	1.3	ug/L
	Kr	83	17.067	-2.333				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		95.786	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		93.489	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		94.614	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	92.456
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSA
Sample Date/Time: Wednesday, February 17, 2010 11:25:21
Sample Type: Sample
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\ICSA.021
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	24563.358	0.007				ug/L
|	Li	7	2873.871	0.000	**0.291911**	0.10	34.9	ug/L
|	Be	9	11.333	0.000	**0.246906**	0.03	14.0	ug/L
|	B	11	760.038	0.000	**0.299965**	0.20	67.0	ug/L
|	Na	23	53537370.240	164.031	**93412.339584**	6336.15	6.8	ug/L
|	Mg	24	38533799.505	118.110	**93640.131324**	7067.63	7.5	ug/L
|	Al	27	115201653.421	353.027	**90828.603179**	6149.62	6.8	ug/L
|	K	39	95376904.665	291.984	**87222.067191**	5534.01	6.3	ug/L
|	Ca	43	476279.364	1.459	**98404.688770**	5856.43	6.0	ug/L
| >	Sc	45	326929.635	326929.635				ug/L
|	Ti	49	247186.528	0.756	**2040.393596**	72.08	3.5	ug/L
|	Co	59	3228.679	0.010	**1.449318**	0.13	9.0	ug/L
|	Ni	60	1030.736	0.003	**2.016772**	0.05	2.7	ug/L
|	Ni	62	572.021	0.002	**9.404502**	1.26	13.4	ug/L
|	Cu	63	1886.898	0.006	**1.565349**	0.19	11.9	ug/L
|	Cu	65	1046.738	0.003	**1.658647**	0.19	11.7	ug/L
|	Zn	66	1006.733	0.002	**2.931747**	0.20	6.7	ug/L
|	Zn	67	757.371	-0.000	**-8.242915**	2.31	28.0	ug/L
|	Zn	68	313.340	0.000	**-0.165237**	0.17	103.4	ug/L
|	V	51	442.066	0.003	**0.660379**	0.71	107.2	ug/L
|	Cr	52	6527.542	0.012	**2.304337**	0.91	39.4	ug/L
|	Cr	53	8458.651	-0.008	**-22.179018**	1.85	8.3	ug/L
|	Mn	55	20539.401	0.062	**6.939701**	0.36	5.1	ug/L
|	Fe	54	13679929.477	41.849	**97604.889684**	3608.00	3.7	ug/L
⌞	Fe	57	5683278.608	17.398	**97977.157934**	3812.26	3.9	ug/L
⌜	As	75	-333.855	-0.000	**-0.021751**	0.60	2777.9	ug/L
|	Se	77	1850.890	0.000	**5.892167**	4.77	80.9	ug/L
|	Se	82	-7.356	-0.000	**-0.547279**	0.14	26.0	ug/L
|	Sr	88	10143.351	0.022	**2.660450**	0.12	4.5	ug/L
| >	Y	89	457689.338	457689.338				ug/L
|	Mo	95	1026065.843	2.244	**2060.854479**	80.60	3.9	ug/L
|	Mo	97	626486.394	1.370	**2054.777356**	97.00	4.7	ug/L
⌞	Mo	98	1591401.776	3.481	**2064.742656**	91.83	4.4	ug/L
⌜	Ag	107	147.335	0.001	**-0.350017**	0.01	1.8	ug/L
|	Ag	109	119.334	0.001	**-0.507608**	0.02	4.0	ug/L
|	Cd	111	788.374	0.004	**2.277279**	0.07	3.0	ug/L
|	Cd	114	1404.391	0.007	**2.136458**	0.04	2.1	ug/L

|>	In	115	206074.787	206074.787				ug/L
|	Sn	120	725.291	0.000	**-0.101149**	0.04	41.6	ug/L
|	Sb	121	579.355	0.001	**0.724670**	0.05	6.3	ug/L
|	Sb	123	518.596	0.001	**0.636007**	0.05	7.1	ug/L
⌈	Ba	135	555.353	0.001	**1.407911**	0.07	5.1	ug/L
|	Ba	137	914.721	0.002	**1.448820**	0.10	6.6	ug/L
|	Tb	159	315792.453	-0.004				ug/L
|>	Ho	165	356253.143	356253.143				ug/L
|	Tl	203	234.670	0.001	**-0.188161**	0.00	1.5	ug/L
|	Tl	205	588.689	0.002	**-0.065408**	0.02	25.4	ug/L
⌊	Pb	208	1348.712	0.004	**-0.110516**	0.01	10.9	ug/L
	Kr	83	36.933	17.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		94.573	
Ti	49			
Co	59			
Ni	60			
Ni	62			
Cu	63			
Cu	65			
Zn	66			
Zn	67			
Zn	68			
V	51			
Cr	52			
Cr	53			
Mn	55			
Fe	54			
Fe	57			
As	75			
Se	77			
Se	82			
Sr	88			
Y	89		92.123	
Mo	95			
Mo	97			
Mo	98			
Ag	107			
Ag	109			
Cd	111			
Cd	114			
In	115		90.563	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.716
Tl	203	
Tl	205	
Pb	208	
Kr	83	

Quantitative Analysis - Summary Report

Sample ID: ICSAB
Sample Date/Time: Wednesday, February 17, 2010 11:28:02
Sample Type: Spike - 2 of 6
Sample Description:
Method File: C:\Elandata\Method\Short-ESI-TEST.mth
Dataset File: C:\elandata\Dataset\1002170918MS\ICSAB.022
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\Default.dac
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted to Volume (mL):
Solids Ratio:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24845.626	0.008				ug/L
|	Li	7	2965.238	0.001	**0.420158**	0.13	31.7	ug/L
|	Be	9	4.667	0.000	**0.215619**	0.01	5.1	ug/L
|	B	11	739.369	0.000	**0.241385**	0.13	54.6	ug/L
|	Na	23	53876066.518	166.294	**94700.621818**	1960.26	2.1	ug/L
|	Mg	24	38948546.858	120.227	**95317.899313**	517.20	0.5	ug/L
|	Al	27	117171251.711	361.842	**93096.323570**	4286.59	4.6	ug/L
|	K	39	97315519.795	300.315	**89711.194574**	1964.75	2.2	ug/L
|	Ca	43	479194.219	1.479	**99759.505070**	1633.89	1.6	ug/L
| >	Sc	45	323949.292	323949.292				ug/L
|	Ti	49	245494.152	0.757	**2043.437955**	59.56	2.9	ug/L
|	Co	59	151207.914	0.467	**80.589161**	1.63	2.0	ug/L
|	Ni	60	28787.781	0.089	**78.021553**	1.87	2.4	ug/L
|	Ni	62	5040.318	0.015	**88.029619**	2.35	2.7	ug/L
|	Cu	63	66724.158	0.206	**74.665423**	0.72	1.0	ug/L
|	Cu	65	32246.126	0.099	**74.999199**	0.81	1.1	ug/L
|	Zn	66	11013.217	0.033	**38.241846**	0.98	2.6	ug/L
|	Zn	67	2545.755	0.005	**31.244596**	1.73	5.5	ug/L
|	Zn	68	7436.927	0.022	**34.982317**	1.10	3.1	ug/L
|	V	51	151668.382	0.469	**82.282618**	1.69	2.1	ug/L
|	Cr	52	130613.055	0.395	**82.003868**	2.01	2.5	ug/L
|	Cr	53	24091.669	0.041	**64.338868**	2.46	3.8	ug/L
|	Mn	55	239911.129	0.740	**85.061060**	1.46	1.7	ug/L
|	Fe	54	13362744.247	41.224	**96146.354617**	2309.15	2.4	ug/L
⌊	Fe	57	5576918.781	17.216	**96949.971989**	1844.52	1.9	ug/L
⌈	As	75	10630.717	0.024	**35.685280**	0.62	1.7	ug/L
|	Se	77	2787.839	0.003	**48.463762**	4.72	9.7	ug/L
|	Se	82	1154.795	0.003	**38.308095**	1.71	4.5	ug/L
|	Sr	88	9947.096	0.022	**2.648583**	0.10	3.9	ug/L
| >	Y	89	450778.270	450778.270				ug/L
|	Mo	95	997495.674	2.213	**2032.864983**	58.03	2.9	ug/L
|	Mo	97	606833.318	1.347	**2019.199801**	70.99	3.5	ug/L
⌊	Mo	98	1546412.650	3.431	**2035.608474**	67.08	3.3	ug/L
⌈	Ag	107	25867.436	0.129	**18.543694**	0.76	4.1	ug/L
|	Ag	109	24823.993	0.124	**18.674227**	0.52	2.8	ug/L
|	Cd	111	13236.880	0.066	**40.261629**	0.84	2.1	ug/L
|	Cd	114	29612.054	0.148	**39.505413**	0.67	1.7	ug/L

|>	In	115	200685.457	200685.457				ug/L
|	Sn	120	690.672	0.000	**-0.112368**	0.04	32.8	ug/L
|	Sb	121	397.344	-0.000	**0.575911**	0.05	9.5	ug/L
\L	Sb	123	343.756	-0.000	**0.449780**	0.02	5.1	ug/L
|	Ba	135	526.018	0.001	**1.323795**	0.15	11.5	ug/L
|	Ba	137	913.388	0.002	**1.447268**	0.13	8.6	ug/L
|	Tb	159	315083.729	-0.005				ug/L
|>	Ho	165	355938.386	355938.386				ug/L
|	Tl	203	226.670	0.001	**-0.193187**	0.02	12.7	ug/L
|	Tl	205	568.021	0.002	**-0.070788**	0.00	5.3	ug/L
\L	Pb	208	1319.377	0.004	**-0.116019**	0.01	10.1	ug/L
	Kr	83	37.933	18.533				ug/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery
Li	6			
Li	7			
Be	9			
B	11			
Na	23			
Mg	24			
Al	27			
K	39			
Ca	43			
Sc	45		93.711	
Ti	49			
Co	59			98.925
Ni	60			95.006
Ni	62			98.281
Cu	63			91.375
Cu	65			91.676
Zn	66			88.275
Zn	67			98.719
Zn	68			87.869
V	51			102.028
Cr	52			99.624
Cr	53			108.147
Mn	55			97.652
Fe	54			
Fe	57			
As	75			89.268
Se	77			106.429
Se	82			97.138
Sr	88			
Y	89		90.732	
Mo	95			
Mo	97			
Mo	98			
Ag	107			94.469
Ag	109			95.909
Cd	111			94.961
Cd	114			93.422
In	115		88.195	
Sn	120			
Sb	121			

Sb	123	
Ba	135	
Ba	137	
Tb	159	
Ho	165	87.639
Tl	203	
Tl	205	
Pb	208	
Kr	83	

METALS PREP AND ANALYTICAL RUN LOGS

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **87095**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Prep Start Date: **2/12/2010 5:00:00 PM**
Prep End Date: **2/13/2010 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
10020428-01A	Water	1		0	50	1		X	50	1	
10020428-02A	Water	1		0	50	1		X	50	1	
10020428-03A	Water	1		0	50	1		X	50	1	
10020428-04A	Water	1		0	50	1		X	50	1	
10020428-05A	Water	1		0	50	1		X	50	1	
10020428-06A	Water	1		0	50	1		X	50	1	
10020428-07A	Water	1		0	50	1		X	50	1	
10020428-08A	Water	1		0	50	1		X	50	1	
10020428-08AMS	Water	1		0	50	1		X	50	1	
10020428-08AMSD	Water	1		0	50	1		X	50	1	
10020428-09A	Water	1		0	50	1		X	50	1	
10020428-10A	Water	1		0	50	1		X	50	1	
10020428-11A	Water	1		0	50	1		X	50	1	
10020428-12A	Water	1		0	50	1		X	50	1	
10020428-13A	Water	1		0	50	1		X	50	1	
10020428-14A	Water	1		0	50	1		X	50	1	
10020428-15A	Water	1		0	50	1		X	50	1	
10020428-16A	Water	1		0	50	1		X	50	1	
10020428-17A	Water	1		0	50	1		X	50	1	
10020428-18A	Water	1		0	50	1		X	50	1	
10020428-20A	Water	1		0	50	1		X	50	1	
LCS-87095		1		0	50	1		X	50	1	
MBLK-87095		1		0	50	1		X	50	1	

00880

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **87096**
Prep Code: **PR3010_6020**
Technician: **Savannah Alfred**

Prep Start Date: **2/12/2010 5:00:00 PM**
Prep End Date: **2/13/2010 5:00:00 AM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
10020428-19A	Water	1		0	50	1		X	50	1	
10020428-19AMS	Water	1		0	50	1		X	50	1	
10020428-19AMSD	Water	1		0	50	1		X	50	1	
10020428-21A	Water	1		0	50	1		X	50	1	
10020428-22A	Water	1		0	50	1		X	50	1	
10020428-23A	Water	1		0	50	1		X	50	1	
10020428-24A	Water	1		0	50	1		X	50	1	
10020428-25A	Water	1		0	50	1		X	50	1	
10020428-26A	Water	1		0	50	1		X	50	1	
10020428-27A	Water	1		0	50	1		X	50	1	
10020428-28A	Water	1		0	50	1		X	50	1	
10020428-29A	Water	1		0	50	1		X	50	1	
10020428-30A	Water	1		0	50	1		X	50	1	
10020428-31A	Water	1		0	50	1		X	50	1	
10020428-32A	Water	1		0	50	1		X	50	1	
10020428-33A	Water	1		0	50	1		X	50	1	
10020428-34A	Water	1		0	50	1		X	50	1	
10020428-35A	Water	1		0	50	1		X	50	1	
LCS-87096		1		0	50	1		X	50	1	
MBLK-87096		1		0	50	1		X	50	1	

SPL, Inc.

PREP BATCH REPORT

Prep Batch ID: **87103**
Prep Code: **PR3005_6010**
Technician: **Savannah Alfred**

Prep Start Date: **2/12/2010 2:00:00 PM**
Prep End Date: **2/12/2010 2:05:00 PM**

Sample ID	Matrix	Vial	pH	wt (Kg)	Ini vol (mL)	Surr Added	Spk Added	Homog	Fin Vol (mL)	Factor	SDG
10020428-20B	Water	1		0	100	1		X	100	1	
10020428-27B	Water	1		0	100	1		X	100	1	
10020461-01E	Water	1		0	100	1		X	100	1	
10020461-02E	Water	1		0	100	1		X	100	1	
10020461-03E	Water	1		0	100	1		X	100	1	
10020461-04E	Water	1		0	100	1		X	100	1	
LCS-87103		1		0	100	1		X	100	1	
MBLK-87103		1		0	100	1		X	100	1	

100215093oms
2-15-10
RD

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
CAL BLANK	02/15/10 11:49:34	Cal Blank	SAMP	3.0	6020_W_ALL			06120-80-13
STD 1	02/15/10 11:52:14	Std 1	SAMP	3.0	6020_W_ALL			06119-146-17
STD 2	02/15/10 11:54:55	Std 2	SAMP	3.0	6020_W_ALL			-147-17
STD 3	02/15/10 11:57:35	Std 3	SAMP	3.0	6020_W_ALL			-148-17
STD 4	02/15/10 12:00:16	Std 4	SAMP	3.0	6020_W_ALL			-149-17
STD 5	02/15/10 12:02:56	Std 5	SAMP	3.0	6020_W_ALL			-150-17
QC STD 1	02/15/10 12:05:37	ICV	ICV	1.0	6020_W_ALL	✓		-152-17
QC STD 2	02/15/10 12:13:03	LLICV	ICV1	1.0	6020A_W_ALL	✓		-158-06
QC STD 3	02/15/10 12:16:25	ICB	ICB	1.0	6020_W_ALL	✓		06120-80-13
QC STD 4	02/15/10 12:19:28	CCV	CCV	1.0	6020_W_ALL	✓		06119-151-17
QC STD 5	02/15/10 12:25:14	LLCCV	CCV1	1.0	6020A_W_ALL	✓		-158-06
QC STD 6	02/15/10 12:28:12	CCB	CCB	1.0	6020_W_ALL	✓		06120-80-13
ICSA	02/15/10 12:32:08	ICSA	ICSA	1.0	6020_W_ALL	✓		06119-155-09
ICSAB	02/15/10 12:34:48	ICSAB	ICSAB	1.0	6020_W_ALL	✓		-156-09
MBLK-87071	02/15/10 12:41:58	MBLK-87071	MBLK	1.0	6020_W_ALL	✓		
LCS-87071	02/15/10 12:44:39	LCS-87071	LCS	1.0	6020_W_ALL	✓		
10020393-05A	02/15/10 12:47:51	10020393-05A	SAMP	1.0	6020_W_ALL	✓		
10020393-05ASD	02/15/10 12:50:32	10020393-05ASD	SD	5.0	6020_W_ALL	✓		
10020393-05AMS	02/15/10 12:53:13	10020393-05AMS	MS	1.0	6020_W_ALL	✓		
10020393-05AMS	02/15/10 12:55:54	10020393-05AMSD	MSD	1.0	6020_W_ALL	✓		
10020393-05APDS	02/15/10 12:58:35	10020393-05APDS	PDS	5.0	6020_W_ALL	✓		
10020393-05APDS	02/15/10 13:01:15	10020393-05APDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/15/10 13:05:46	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 13:09:21	LLCCV	CCV1	1.0	6020A_W_ALL	✓		
QC STD 6	02/15/10 13:12:44	CCB	CCB	1.0	6020_W_ALL	✓		
10020388-01E	02/15/10 13:15:53	10020388-01E	SAMP	1.0	6020_W_ALL	✓		
10020388-02E	02/15/10 13:18:34	10020388-02E	SAMP	1.0	6020_W_ALL	✓		
10020388-03E	02/15/10 13:21:15	10020388-03E	SAMP	1.0	6020_W_ALL	✓		
10020388-04E	02/15/10 13:23:56	10020388-04E	SAMP	1.0	6020_W_ALL	✓		
10020388-05E	02/15/10 13:26:37	10020388-05E	SAMP	1.0	6020_W_ALL	✓		

00883

DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 02/25/2010 12:16:27

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
10020393-06A	02/15/10 13:29:18	10020393-06A	SAMP	1.0	6020_W_ALL	✓		
10020393-07A	02/15/10 13:31:58	10020393-07A	SAMP	1.0	6020_W_ALL	✓		
10020388-04E	02/15/10 13:40:28	10020388-04E	SAMP	5.0	6020_W_ALL			
10020388-04E	02/15/10 13:43:32	10020388-04E	SAMP	25	6020_W_ALL	✓		
10020393-07A	02/15/10 13:46:39	10020393-07A	SAMP	5.0	6020_W_ALL	✓		
QC STD 4	02/15/10 13:50:59	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 13:53:58	LLCCV	CCV1	1.0	6020A_W_ALL	✓		
QC STD 6	02/15/10 13:57:10	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/15/10 14:00:42	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/15/10 14:03:23	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-87074	02/15/10 14:23:38	MBLK-87074	MBLK	1.0	6020_D	✓		
LCS-87074	02/15/10 14:26:19	LCS-87074	LCS	1.0	6020_D	✓		
10020388-01F	02/15/10 14:29:18	10020388-01F	SAMP	1.0	6020_D	✓		
10020388-01FSD	02/15/10 14:37:09	10020388-01FSD	SD	5.0	6020_D	✓		
10020388-01FMS	02/15/10 14:39:49	10020388-01FMS	MS	1.0	6020_D	✓		
10020388-01FMS	02/15/10 14:42:30	10020388-01FMSD	MSD	1.0	6020_D	✓		
10020388-01FPDS	02/15/10 14:45:11	10020388-01FPDS	PDS	5.0	6020_D	✓		
10020388-01FPDS	02/15/10 14:47:52	10020388-01FPDSD	PDSD	5.0	6020_D	✓		
QC STD 4	02/15/10 14:50:34	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 14:53:16	LLCCV	CCV1	1.0	6020A_W_ALL	✓		
QC STD 6	02/15/10 14:55:57	CCB	CCB	1.0	6020_W_ALL	✓		
10020388-02F	02/15/10 14:58:39	10020388-02F	SAMP	1.0	6020_D	✓		
10020388-03F	02/15/10 15:01:20	10020388-03F	SAMP	1.0	6020_D	✓		
10020388-04F	02/15/10 15:04:01	10020388-04F	SAMP	1.0	6020_D	✓		
10020388-05F	02/15/10 15:06:42	10020388-05F	SAMP	1.0	6020_D	✓		
QC STD 4	02/15/10 15:09:24	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 15:12:05	LLCCV	CCV1	1.0	6020A_W_ALL	✓		
QC STD 6	02/15/10 15:14:47	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/15/10 15:17:28	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/15/10 15:20:09	ICSAB	ICSAB	1.0	6020_W_ALL	✓		

00884

DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 02/25/2010 12:16:27

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
MBLK-87101	02/15/10 15:22:51	MBLK-87101	MBLK	1.0	6020_W_ALL	✓		
LCS-87101	02/15/10 15:25:32	LCS-87101	LCS	1.0	6020_W_ALL	✓		
10020427-02C	02/15/10 15:28:13	10020427-02C	SAMP	1.0	6020_W_ALL	✓		
10020427-02CSD	02/15/10 15:30:54	10020427-02CSD	SD	5.0	6020_W_ALL	✓		
10020427-02CMS	02/15/10 15:33:35	10020427-02CMS	MS	1.0	6020_W_ALL	✓		
10020427-02CMS	02/15/10 15:36:16	10020427-02CMSD	MSD	1.0	6020_W_ALL	✓		
10020427-02CPDS	02/15/10 15:38:57	10020427-02CPDS	PDS	5.0	6020_W_ALL	✓		
10020427-02CPDS	02/15/10 15:41:37	10020427-02CPDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/15/10 15:44:20	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 15:47:01	LLCCV	CCV1	1.0	6020A_W_ALL	✓		
QC STD 6	02/15/10 15:49:43	CCB	CCB	1.0	6020_W_ALL	✓		
10020427-01C	02/15/10 15:52:25	10020427-01C	SAMP	1.0	6020_W_ALL	✓		
10020427-03C	02/15/10 15:55:06	10020427-03C	SAMP	1.0	6020_W_ALL	✓		
10020427-04C	02/15/10 15:57:47	10020427-04C	SAMP	1.0	6020_W_ALL	✓		
10020427-05C	02/15/10 16:00:28	10020427-05C	SAMP	1.0	6020_W_ALL	✓		
10020427-06C	02/15/10 16:03:08	10020427-06C	SAMP	1.0	6020_W_ALL	✓		
10020427-07C	02/15/10 16:05:49	10020427-07C	SAMP	1.0	6020_W_ALL	✓		
10020461-01D	02/15/10 16:08:30	10020461-01D	SAMP	1.0	6020_W_ALL	✓		
10020461-02D	02/15/10 16:11:10	10020461-02D	SAMP	1.0	6020_W_ALL	✓		
10020461-03D	02/15/10 16:13:51	10020461-03D	SAMP	1.0	6020_W_ALL	✓		
10020461-04D	02/15/10 16:16:32	10020461-04D	SAMP	1.0	6020_W_ALL	✓		
QC STD 4	02/15/10 16:19:14	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 16:21:56	LLCCV	CCV1	1.0	6020A_W_ALL	✓		
QC STD 6	02/15/10 16:24:37	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/15/10 16:27:18	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/15/10 16:30:00	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-87086	02/15/10 16:32:40	MBLK-87086	MBLK	5.0	6020_S_ALL	✓		
LCS-87086	02/15/10 16:35:22	LCS-87086	LCS	10	6020_S_ALL	✓		
10020393-01A	02/15/10 16:38:03	10020393-01A	SAMP	5.0	6020_S_ALL	✓		
10020393-01ASD	02/15/10 16:40:44	10020393-01ASD	SD	25	6020_S_ALL	✓		

00885

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 02/25/2010 12:16:27

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
10020393-01AMS	02/15/10 16:43:25	10020393-01AMS	MS	5.0	6020_S_ALL	✓		
10020393-01AMS	02/15/10 16:46:06	10020393-01AMSD	MSD	5.0	6020_S_ALL	✓		
10020393-01APDS	02/15/10 16:48:46	10020393-01APDS	PDS	25	6020_S_ALL	✓		
10020393-01APDS	02/15/10 16:51:27	10020393-01APDSD	PDSD	25	6020_S_ALL	✓		
QC STD 4	02/15/10 16:54:09	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/15/10 16:56:49	CCB	CCB	1.0	6020_W_ALL	✓		
10020393-02A	02/15/10 16:59:31	10020393-02A	SAMP	5.0	6020_S_ALL	✓		
10020393-03A	02/15/10 17:02:12	10020393-03A	SAMP	5.0	6020_S_ALL	✓		
10020393-04A	02/15/10 17:04:52	10020393-04A	SAMP	5.0	6020_S_ALL	✓		
QC STD 4	02/15/10 17:07:34	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 17:10:16	LLCCV	CCV1	1.0	6020_W_ALL			
QC STD 6	02/15/10 17:12:57	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/15/10 17:15:38	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/15/10 17:18:19	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-87095	02/15/10 17:21:01	MBLK-87095	MBLK	1.0	6020_W_ALL	✓		
LCS-87095	02/15/10 17:23:42	LCS-87095	LCS	1.0	6020_W_ALL	✓		
10020428-08A	02/15/10 17:26:22	10020428-08A	SAMP	1.0	6020_W_ALL	✓		BC-07
10020428-08ASD	02/15/10 17:29:03	10020428-08ASD	SD	5.0	6020_W_ALL	✓		
10020428-08AMS	02/15/10 17:31:43	10020428-08AMS	MS	1.0	6020_W_ALL	✓		
10020428-08AMS	02/15/10 17:34:24	10020428-08AMSD	MSD	1.0	6020_W_ALL	✓		
10020428-08APDS	02/15/10 17:37:05	10020428-08APDS	PDS	5.0	6020_W_ALL	✓		
10020428-08APDS	02/15/10 17:39:46	10020428-08APDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/15/10 17:42:29	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/15/10 17:45:10	CCB	CCB	1.0	6020_W_ALL	✓		
10020428-01A	02/15/10 17:47:53	10020428-01A	SAMP	1.0	6020_W_ALL	✓		BA-09A
10020428-02A	02/15/10 17:50:34	10020428-02A	SAMP	1.0	6020_W_ALL	✓		BA-09
10020428-03A	02/15/10 17:53:15	10020428-03A	SAMP	1.0	6020_W_ALL	✓		MW-04
10020428-04A	02/15/10 17:55:56	10020428-04A	SAMP	1.0	6020_W_ALL	✓		WW-09
10020428-05A	02/15/10 17:58:36	10020428-05A	SAMP	1.0	6020_W_ALL	✓		WW-04
10020428-06A	02/15/10 18:01:17	10020428-06A	SAMP	1.0	6020_W_ALL	✓		Reagan well

DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 02/25/2010 12:16:27

0886

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
10020428-07A	02/15/10 18:03:58	10020428-07A	SAMP	1.0	6020_W_ALL	✓		BC-03
10020428-09A	02/15/10 18:06:38	10020428-09A	SAMP	1.0	6020_W_ALL	✓		DW-04
10020428-10A	02/15/10 18:09:19	10020428-10A	SAMP	1.0	6020_W_ALL	✓		BC-19
10020428-11A	02/15/10 18:12:00	10020428-11A	SAMP	1.0	6020_W_ALL	✓		BC-25
QC STD 4	02/15/10 18:14:42	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/15/10 18:17:23	CCB	CCB	1.0	6020_W_ALL	✓		
10020428-12A	02/15/10 18:20:06	10020428-12A	SAMP	1.0	6020_W_ALL	✓		MW-03
10020428-13A	02/15/10 18:22:47	10020428-13A	SAMP	1.0	6020_W_ALL	✓		MW-06
10020428-14A	02/15/10 18:25:28	10020428-14A	SAMP	1.0	6020_W_ALL	✓		BB-01
10020428-15A	02/15/10 18:28:08	10020428-15A	SAMP	1.0	6020_W_ALL	✓		South well
10020428-16A	02/15/10 18:30:49	10020428-16A	SAMP	1.0	6020_W_ALL	✓		BC-17
10020428-17A	02/15/10 18:33:30	10020428-17A	SAMP	1.0	6020_W_ALL	✓		North well
10020428-18A	02/15/10 18:36:10	10020428-18A	SAMP	1.0	6020_W_ALL	✓		BC-21R
10020428-20A	02/15/10 18:38:51	10020428-20A	SAMP	1.0	6020_W_ALL	✓		BA-01
QC STD 4	02/15/10 18:41:33	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 18:44:14	LLCCV	CCV1	1.0	6020_W_ALL			
QC STD 6	02/15/10 18:46:56	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/15/10 18:49:37	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/15/10 18:52:18	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-87096	02/15/10 18:55:00	MBLK-87096	MBLK	1.0	6020_W_ALL	✓		
LCS-87096	02/15/10 18:57:41	LCS-87096	LCS	1.0	6020_W_ALL	✓		
10020428-19A	02/15/10 19:00:22	10020428-19A	SAMP	1.0	6020_W_ALL	✓		BA-01A
10020428-19ASD	02/15/10 19:03:03	10020428-19ASD	SD	5.0	6020_W_ALL	✓		
10020428-19AMS	02/15/10 19:05:44	10020428-19AMS	MS	1.0	6020_W_ALL	✓		
10020428-19AMS	02/15/10 19:08:24	10020428-19AMSD	MSD	1.0	6020_W_ALL	✓		
10020428-19APDS	02/15/10 19:11:05	10020428-19APDS	PDS	5.0	6020_W_ALL	✓		
10020428-19APDS	02/15/10 19:13:46	10020428-19APDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/15/10 19:16:28	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/15/10 19:19:09	CCB	CCB	1.0	6020_W_ALL	✓		
10020428-21A	02/15/10 19:21:52	10020428-21A	SAMP	1.0	6020_W_ALL	✓		DW-03

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 02/25/2010 12:16:27

00887

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
10020428-22A	02/15/10 19:24:32	10020428-22A	SAMP	1.0	6020_W_ALL	✓		PW-04
10020428-23A	02/15/10 19:27:13	10020428-23A	SAMP	1.0	6020_W_ALL	✓		DW-02
10020428-24A	02/15/10 19:29:53	10020428-24A	SAMP	1.0	6020_W_ALL	✓		BA-05A
10020428-25A	02/15/10 19:32:34	10020428-25A	SAMP	1.0	6020_W_ALL	✓		BA-05
10020428-26A	02/15/10 19:35:14	10020428-26A	SAMP	1.0	6020_W_ALL	✓		MW-A
10020428-27A	02/15/10 19:37:55	10020428-27A	SAMP	1.0	6020_W_ALL	✓		DW-01
10020428-28A	02/15/10 19:40:35	10020428-28A	SAMP	1.0	6020_W_ALL	✓		BA-03A
10020428-29A	02/15/10 19:43:16	10020428-29A	SAMP	1.0	6020_W_ALL	✓		BA-03
10020428-30A	02/15/10 19:45:57	10020428-30A	SAMP	1.0	6020_W_ALL	✓		MW-02
QC STD 4	02/15/10 19:48:39	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/15/10 19:51:19	CCB	CCB	1.0	6020_W_ALL	✓		
10020428-31A	02/15/10 19:54:02	10020428-31A	SAMP	1.0	6020_W_ALL	✓		MW-01
10020428-32A	02/15/10 19:56:42	10020428-32A	SAMP	1.0	6020_W_ALL	✓		Duplicate #1
10020428-33A	02/15/10 19:59:23	10020428-33A	SAMP	1.0	6020_W_ALL	✓		#2
10020428-34A	02/15/10 20:02:04	10020428-34A	SAMP	1.0	6020_W_ALL	✓		#3
10020428-35A	02/15/10 20:04:44	10020428-35A	SAMP	1.0	6020_W_ALL	✓		#4
QC STD 4	02/15/10 20:07:26	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/15/10 20:10:08	LLCCV	CCV1	1.0	6020_W_ALL			
QC STD 6	02/15/10 20:12:49	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/15/10 20:15:30	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/15/10 20:18:11	ICSAB	ICSAB	1.0	6020_W_ALL	✓		

88800

DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 02/25/2010 12:16:27

10021609071MS
2-16-10
RD

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
CAL BLANK	02/16/10 09:18:04	Cal Blank	SAMP	3.0	6020_W_ALL			06120-80-13
STD 1	02/16/10 09:20:44	Std 1	SAMP	3.0	6020_W_ALL			06119-146-17
STD 2	02/16/10 09:23:25	Std 2	SAMP	3.0	6020_W_ALL			-147-17
STD 3	02/16/10 09:26:06	Std 3	SAMP	3.0	6020_W_ALL			-148-17
STD 4	02/16/10 09:28:46	Std 4	SAMP	3.0	6020_W_ALL			-149-17
STD 5	02/16/10 09:31:27	Std 5	SAMP	3.0	6020_W_ALL			-150-17
QC STD 1	02/16/10 09:34:07	ICV	ICV	1.0	6020_W_ALL	✓		-152-17
QC STD 2	02/16/10 09:42:24	LLICV	ICV1	1.0	6020A_W_ALL	✓		-158-07
QC STD 3	02/16/10 09:45:29	ICB	ICB	1.0	6020_W_ALL	✓		06120-80-13
QC STD 4	02/16/10 09:48:48	CCV	CCV	1.0	6020_W_ALL	✓		06119-151-17
QC STD 5	02/16/10 09:51:49	LLCCV	CCV1	1.0	6020A_W_ALL	✓		↓ -158-07
QC STD 6	02/16/10 09:55:39	CCB	CCB	1.0	6020_W_ALL	✓		06120-80-13
ICSA	02/16/10 09:59:34	ICSA	ICSA	1.0	6020_W_ALL	✓		06119-155-09
ICSAB	02/16/10 10:02:14	ICSAB	ICSAB	1.0	6020_W_ALL	✓		↓ -156-09
10020461-02D	02/16/10 10:19:37	10020461-02D	SAMP	5.0	6020_W_ALL	✓		
MBLK-87103	02/16/10 10:33:00	MBLK-87103	MBLK	1.0	6020_D	✓		
LCS-87103	02/16/10 10:35:40	LCS-87103	LCS	1.0	6020_D	✓		
10020428-20B	02/16/10 10:39:49	10020428-20B	SAMP	1.0	6020_D	✓		BA-01
10020428-20BSD	02/16/10 10:42:29	10020428-20BSD	SD	5.0	6020_D	✓		
10020428-20BMS	02/16/10 10:45:10	10020428-20BMS	MS	1.0	6020_D	✓		
10020428-20BMS	02/16/10 10:47:51	10020428-20BMSD	MSD	1.0	6020_D	✓		
10020428-20BPDS	02/16/10 10:50:31	10020428-20BPDS	PDS	5.0	6020_D	✓		
QC STD 4	02/16/10 10:58:29	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/16/10 11:02:24	LLCCV	CCV1	1.0	6020A_W_ALL	✓		
QC STD 6	02/16/10 11:05:27	CCB	CCB	1.0	6020_W_ALL	✓		
10020428-20BPDS	02/16/10 11:08:31	10020428-20BPDSD	PDSD	5.0	6020_D	✓		
10020428-27B	02/16/10 11:11:12	10020428-27B	SAMP	1.0	6020_D	✓		PW-01
10020461-01E	02/16/10 11:13:52	10020461-01E	SAMP	1.0	6020_D	✓		
10020461-02E	02/16/10 11:16:33	10020461-02E	SAMP	1.0	6020_D	✓		
10020461-03E	02/16/10 11:19:14	10020461-03E	SAMP	1.0	6020_D	✓		

00889

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 02/25/2010 12:16:49

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
10020461-04E	02/16/10 11:21:55	10020461-04E	SAMP	1.0	6020_D	✓		
10020428-20B	02/16/10 11:27:56	10020428-20B	SAMP	5.0	6020_D	✓		BA-01
QC STD 4	02/16/10 11:30:55	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/16/10 11:34:17	LLCCV	CCV1	1.0	6020_W_ALL			
QC STD 6	02/16/10 11:40:14	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/16/10 12:11:51	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/16/10 12:14:32	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
10020428-02A	02/16/10 12:22:11	10020428-02A	SAMP	5.0	6020_W_ALL	✓		BA-09
10020428-02A	02/16/10 12:25:05	10020428-02A	SAMP	25	6020_W_ALL	✓		↓
10020428-13A	02/16/10 12:32:01	10020428-13A	SAMP	5.0	6020_W_ALL	✓		MW-06
10020428-20A	02/16/10 12:34:41	10020428-20A	SAMP	5.0	6020_W_ALL			BA-01
10020428-21A	02/16/10 12:37:23	10020428-21A	SAMP	1.0	6020_W_ALL	✓		DW-03
10020428-22A	02/16/10 12:40:04	10020428-22A	SAMP	1.0	6020_W_ALL	✓		PW-04
10020428-22A	02/16/10 12:42:46	10020428-22A	SAMP	5.0	6020_W_ALL	✓		↓
10020428-23A	02/16/10 12:45:28	10020428-23A	SAMP	1.0	6020_W_ALL			DW-02
QC STD 4	02/16/10 12:48:10	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/16/10 12:50:50	CCB	CCB	1.0	6020_W_ALL	✓		
10020428-23A	02/16/10 12:53:32	10020428-23A	SAMP	5.0	6020_W_ALL	✓		DW-02
10020428-23A	02/16/10 12:56:13	10020428-23A	SAMP	25	6020_W_ALL	✓		↓
10020428-24A	02/16/10 12:58:54	10020428-24A	SAMP	1.0	6020_W_ALL	✓		BA-05A
10020428-25A	02/16/10 13:01:35	10020428-25A	SAMP	1.0	6020_W_ALL	✓		BA-05
10020428-26A	02/16/10 13:04:16	10020428-26A	SAMP	1.0	6020_W_ALL	✓		MW-A
10020428-27A	02/16/10 13:06:57	10020428-27A	SAMP	1.0	6020_W_ALL	✓		DW-01
10020428-28A	02/16/10 13:09:38	10020428-28A	SAMP	1.0	6020_W_ALL	✓		BA-03A
10020428-29A	02/16/10 13:12:19	10020428-29A	SAMP	1.0	6020_W_ALL	✓		BA-03
10020428-29A	02/16/10 13:15:01	10020428-29A	SAMP	5.0	6020_W_ALL	✓		↓
10020428-30A	02/16/10 13:17:42	10020428-30A	SAMP	1.0	6020_W_ALL	✓		MW-07
QC STD 4	02/16/10 13:20:25	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/16/10 13:23:06	CCB	CCB	1.0	6020_W_ALL	✓		
10020428-30A	02/16/10 13:25:48	10020428-30A	SAMP	5.0	6020_W_ALL	✓		MW-07

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 02/25/2010 12:16:49

008800

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
10020428-31A	02/16/10 13:28:30	10020428-31A	SAMP	1.0	6020_W_ALL			MW-31
10020428-31A	02/16/10 13:31:12	10020428-31A	SAMP	5.0	6020_W_ALL	✓		↓
10020428-31A	02/16/10 13:33:53	10020428-31A	SAMP	25	6020_W_ALL	✓		↓
10020428-32A	02/16/10 13:36:34	10020428-32A	SAMP	1.0	6020_W_ALL	✓		Duplicate #1
10020428-33A	02/16/10 13:39:15	10020428-33A	SAMP	1.0	6020_W_ALL	✓		#2
10020428-34A	02/16/10 13:41:55	10020428-34A	SAMP	1.0	6020_W_ALL	✓		#3
10020428-35A	02/16/10 13:44:36	10020428-35A	SAMP	1.0	6020_W_ALL	✓		#4
QC STD 4	02/16/10 13:47:18	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/16/10 13:49:58	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/16/10 13:52:39	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/16/10 13:55:20	ICSAB	ICSAB	1.0	6020_W_ALL	✓		

00891

DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 02/25/2010 12:16:49

10021709185MS
2-17-10
RD

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
CAL BLANK	02/17/10 09:26:57	Cal Blank	SAMP	3.0	6020_W_ALL			06120-80-13
STD 1	02/17/10 09:29:38	Std 1	SAMP	3.0	6020_W_ALL			06119-146-17
STD 2	02/17/10 09:32:19	Std 2	SAMP	3.0	6020_W_ALL			-147-17
STD 3	02/17/10 09:35:00	Std 3	SAMP	3.0	6020_W_ALL			-148-17
STD 4	02/17/10 09:37:41	Std 4	SAMP	3.0	6020_W_ALL			-149-17
STD 5	02/17/10 09:40:21	Std 5	SAMP	3.0	6020_W_ALL			-150-17
QC STD 1	02/17/10 09:43:02	ICV	ICV	1.0	200.8	✓		-152-17
QC STD 2	02/17/10 09:48:25	LLICV	ICV1	1.0	6020_W_ALL	✓		-158-08
QC STD 3	02/17/10 09:53:15	ICB	ICB	1.0	200.8	✓		06120-80-13
QC STD 4	02/17/10 09:56:20	CCV	CCV	1.0	200.8	✓		06119-151-17
QC STD 5	02/17/10 09:59:39	LLCCV	CCV1	1.0	6020_W_ALL	✓		↓ -158-08
QC STD 6	02/17/10 10:02:44	CCB	CCB	1.0	200.8	✓		06120-80-13
ICSA	02/17/10 10:06:17	ICSA	ICSA	1.0	200.8	✓		06119-155-09
ICSAB	02/17/10 10:08:58	ICSAB	ICSAB	1.0	200.8	✓		↓ -156-09
10020428-20A	02/17/10 10:20:00	10020428-20A	SAMP	25	6020_W_ALL	✓		BA-01
10020428-33A	02/17/10 10:41:14	10020428-33A	SAMP	5.0	6020_W_ALL	✓		DUPLICATE #2
QC STD 4	02/17/10 10:47:20	CCV	CCV	1.0	200.8	✓		
QC STD 5	02/17/10 10:50:21	LLCCV	CCV1	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 10:53:57	CCB	CCB	1.0	200.8	✓		
ICSA	02/17/10 11:25:21	ICSA	ICSA	1.0	200.8	✓		
ICSAB	02/17/10 11:28:02	ICSAB	ICSAB	1.0	200.8	✓		
MBLK-87178	02/17/10 13:13:42	MBLK-87178	MBLK	1.0	200.8	✓		
LCS-87178	02/17/10 13:16:23	LCS-87178	LCS	10	200.8	✓		
10020546-01C	02/17/10 13:23:49	10020546-01C	SAMP	1.0	200.8	✓		
10020546-01CSD	02/17/10 13:26:30	10020546-01CSD	SD	5.0	200.8	✓		
10020546-01CMS	02/17/10 13:29:10	10020546-01CMS	MS	1.0	200.8	✓		
10020546-01CMS	02/17/10 13:31:51	10020546-01CMSD	MSD	1.0	200.8	✓		
10020546-01CPDS	02/17/10 13:34:32	10020546-01CPDS	PDS	5.0	200.8	✓		
10020546-01CPDS	02/17/10 13:37:13	10020546-01CPDSD	PDSD	5.0	200.8	✓		
QC STD 4	02/17/10 13:43:47	CCV	CCV	1.0	200.8	✓		

DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 02/25/2010 12:17:11

26880

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
QC STD 5	02/17/10 13:47:00	LLCCV	CCV1	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 13:50:11	CCB	CCB	1.0	200.8	✓		
10020546-01CDU	02/17/10 13:54:21	10020546-01CDUP	DUP	1.0	200.8	✓		
10020546-02C	02/17/10 13:58:08	10020546-02C	SAMP	1.0	200.8	✓		
10020546-03C	02/17/10 14:00:49	10020546-03C	SAMP	1.0	200.8	✓		
10020546-04C	02/17/10 14:03:30	10020546-04C	SAMP	1.0	200.8	✓		
10020546-05C	02/17/10 14:06:11	10020546-05C	SAMP	1.0	200.8	✓		
10020546-01C	02/17/10 14:10:55	10020546-01C	SAMP	5.0	200.8	✓		
QC STD 4	02/17/10 14:15:15	CCV	CCV	1.0	200.8	✓		
QC STD 5	02/17/10 14:18:27	LLCCV	CCV1	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 14:21:48	CCB	CCB	1.0	200.8	✓		
ICSA	02/17/10 14:25:10	ICSA	ICSA	1.0	200.8	✓		
ICSAB	02/17/10 14:27:51	ICSAB	ICSAB	1.0	200.8	✓		
MBLK-87141	02/17/10 14:37:14	MBLK-87141	MBLK	1.0	6020_W_ALL	✓		
LCS-87141	02/17/10 14:44:44	LCS-87141	LCS	1.0	6020_W_ALL	✓		
LCSD-87141	02/17/10 14:47:41	LCSD-87141	LCSD	1.0	6020_W_ALL	✓		
10020321-04D	02/17/10 14:51:39	10020321-04D	SAMP	1.0	6020_W_ALL	✓		Field Blank #1
10020321-04DDU	02/17/10 14:54:34	10020321-04DDUP	SAMP	1.0	6020_W_ALL	✓		↓
QC STD 4	02/17/10 14:57:36	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 5	02/17/10 15:02:41	LLCCV	CCV1	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 15:05:38	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/17/10 15:09:07	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/17/10 15:11:48	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-87170	02/17/10 15:59:32	MBLK-87170	MBLK	1.0	6020_W_ALL	✓		
LCS-87170	02/17/10 16:02:39	LCS-87170	LCS	10	6020_W_ALL	✓		
10010814-01C	02/17/10 16:05:45	10010814-01C	SAMP	1.0	6020_W_ALL	✓		
10010814-01CSD	02/17/10 16:08:27	10010814-01CSD	SD	5.0	6020_W_ALL	✓		
10010814-01CMS	02/17/10 16:11:08	10010814-01CMS	MS	1.0	6020_W_ALL	✓		
10010814-01CMS	02/17/10 16:13:49	10010814-01CMSD	MSD	1.0	6020_W_ALL	✓		
10010814-01CPDS	02/17/10 16:16:30	10010814-01CPDS	PDS	5.0	6020_W_ALL	✓		

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 02/25/2010 12:17:11

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
10010814-01CPDS	02/17/10 16:19:11	10010814-01CPDSD	PDSD	5.0	6020_W_ALL	✓		
QC STD 4	02/17/10 16:34:20	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 16:39:58	CCB	CCB	1.0	6020_W_ALL	✓		
10020533-01A	02/17/10 16:49:27	10020533-01A	SAMP	1.0	6020_W_ALL	✓		
10020533-02A	02/17/10 16:52:08	10020533-02A	SAMP	1.0	6020_W_ALL	✓		
10020533-03A	02/17/10 16:54:49	10020533-03A	SAMP	1.0	6020_W_ALL	✓		
QC STD 4	02/17/10 17:05:53	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 17:08:57	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/17/10 17:13:37	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/17/10 17:16:18	ICSAB	ICSAB	1.0	6020_W_ALL	✓		
MBLK-87102	02/17/10 17:19:01	MBLK-87102	MBLK	1.0	6020_D	✓		
LCS-87102	02/17/10 17:21:42	LCS-87102	LCS	1.0	6020_D	✓		
10020427-02D	02/17/10 17:24:22	10020427-02D	SAMP	1.0	6020_D	✓		
10020427-02DSD	02/17/10 17:27:03	10020427-02DSD	SD	5.0	6020_D	✓		
10020427-02DMS	02/17/10 17:29:44	10020427-02DMS	MS	1.0	6020_D	✓		
10020427-02DMS	02/17/10 17:32:24	10020427-02DMSD	MSD	1.0	6020_D	✓		
10020427-02DPDS	02/17/10 17:35:05	10020427-02DPDS	PDS	5.0	6020_D	✓		
10020427-02DPDS	02/17/10 17:37:45	10020427-02DPDSD	PDSD	5.0	6020_D	✓		
QC STD 4	02/17/10 17:40:27	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 17:43:07	CCB	CCB	1.0	6020_W_ALL	✓		
10020427-01D	02/17/10 17:45:49	10020427-01D	SAMP	1.0	6020_D	✓		
10020427-03D	02/17/10 17:48:30	10020427-03D	SAMP	1.0	6020_D	✓		
10020427-04D	02/17/10 17:51:10	10020427-04D	SAMP	1.0	6020_D	✓		
10020427-05D	02/17/10 17:53:51	10020427-05D	SAMP	1.0	6020_D	✓		
10020427-06D	02/17/10 17:56:31	10020427-06D	SAMP	1.0	6020_D	✓		
10020427-07D	02/17/10 17:59:12	10020427-07D	SAMP	1.0	6020_D	✓		
QC STD 4	02/17/10 18:01:54	CCV	CCV	1.0	6020_W_ALL	✓		
QC STD 6	02/17/10 18:04:35	CCB	CCB	1.0	6020_W_ALL	✓		
ICSA	02/17/10 18:07:15	ICSA	ICSA	1.0	6020_W_ALL	✓		
ICSAB	02/17/10 18:09:56	ICSAB	ICSAB	1.0	6020_W_ALL	✓		

60894

DF = Dilution Factor, Rpt = Reported

Runlog generated by: _____

Runlog reviewed by: _____

Printed: 02/25/2010 12:17:11

METALS RunLog for Instrument ICPMS

File ID	Acquired / Initials	Sample ID	Sample Type	DF	Test Code	Rpt	Standard ID	Comments
MBLK-87140	02/17/10 18:12:39	MBLK-87140	MBLK	1.0	6020_W_ALL			
LCS-87140	02/17/10 18:15:19	LCS-87140	LCS	1.0	6020_W_ALL			
10020444-01B	02/17/10 18:18:00	10020444-01B	SAMP	1.0	6020_W_ALL			
10020444-01BSD	02/17/10 18:20:41	10020444-01BSD	SD	5.0	6020_W_ALL			
10020444-01BMS	02/17/10 18:23:22	10020444-01BMS	MS	1.0	6020_W_ALL			
10020444-01BMS	02/17/10 18:26:03	10020444-01BMSD	MSD	1.0	6020_W_ALL			
10020444-01BPDS	02/17/10 18:28:44	10020444-01BPDS	PDS	5.0	6020_W_ALL			
10020444-01BPDS	02/17/10 18:31:24	10020444-01BPDSD	PDSD	5.0	6020_W_ALL			
QC STD 4	02/17/10 18:34:06	CCV	CCV	1.0	6020_W_ALL			
QC STD 6	02/17/10 18:36:47	CCB	CCB	1.0	6020_W_ALL			
10020471-01C	02/17/10 18:39:29	10020471-01C	SAMP	1.0	6020_W_ALL			
10020484-01A	02/17/10 18:42:10	10020484-01A	SAMP	5.0	6020_W_ALL			
10020484-02A	02/17/10 18:44:51	10020484-02A	SAMP	5.0	6020_W_ALL			
10020484-03A	02/17/10 18:47:31	10020484-03A	SAMP	5.0	6020_W_ALL			
QC STD 4	02/17/10 19:00:59	CCV	CCV	1.0	6020_W_ALL			
QC STD 6	02/17/10 19:03:40	CCB	CCB	1.0	6020_W_ALL			
ICSA	02/17/10 19:06:20	ICSA	ICSA	1.0	6020_W_ALL			
ICSAB	02/17/10 19:09:02	ICSAB	ICSAB	1.0	6020_W_ALL			

00895

DF = Dilution Factor, Rpt = Reported

 Runlog generated by: _____ Runlog reviewed by: _____ Printed: 02/25/2010 12:17:11

Site ID	Project ID	Project Nar	SDG ID	Fraction	Lab Sample	Result ID	Client Sam	EPA Sample	
207	207		0020428A	Metals	10020428-	5	BA-09A	BA-09A	
207	207		0020428A	Metals	10020428-	1	BA-09A	BA-09A	
207	207		0020428A	Metals	10020428-	2	BA-09A	BA-09A	
207	207		0020428A	Metals	10020428-	3	BA-09A	BA-09A	
207	207		0020428A	Metals	10020428-	4	BA-09A	BA-09A	
207	207		0020428A	Metals	10020428-	3	BA-09	BA-09	
207	207		0020428A	Metals	10020428-	1	BA-09	BA-09	
207	207		0020428A	Metals	10020428-	2	BA-09	BA-09	
207	207		0020428A	Metals	10020428-	5	MW-04	MW-04	
207	207		0020428A	Metals	10020428-	1	MW-04	MW-04	
207	207		0020428A	Metals	10020428-	2	MW-04	MW-04	
207	207		0020428A	Metals	10020428-	3	MW-04	MW-04	
207	207		0020428A	Metals	10020428-	4	MW-04	MW-04	
207	207		0020428A	Metals	10020428-	5	WW-09	WW-09	
207	207		0020428A	Metals	10020428-	1	WW-09	WW-09	
207	207		0020428A	Metals	10020428-	2	WW-09	WW-09	
207	207		0020428A	Metals	10020428-	3	WW-09	WW-09	
207	207		0020428A	Metals	10020428-	4	WW-09	WW-09	
207	207		0020428A	Metals	10020428-	5	WW-04	WW-04	
207	207		0020428A	Metals	10020428-	1	WW-04	WW-04	
207	207		0020428A	Metals	10020428-	2	WW-04	WW-04	
207	207		0020428A	Metals	10020428-	3	WW-04	WW-04	
207	207		0020428A	Metals	10020428-	4	WW-04	WW-04	
207	207		0020428A	Metals	10020428-	5	(b) (6)		W
207	207		0020428A	Metals	10020428-	1	(b) (6)		W
207	207		0020428A	Metals	10020428-	2	(b) (6)		W
207	207		0020428A	Metals	10020428-	3	(b) (6)		W
207	207		0020428A	Metals	10020428-	4	(b) (6)		W
207	207		0020428A	Metals	10020428-	5	BC-03	BC-03	
207	207		0020428A	Metals	10020428-	1	BC-03	BC-03	
207	207		0020428A	Metals	10020428-	2	BC-03	BC-03	
207	207		0020428A	Metals	10020428-	3	BC-03	BC-03	
207	207		0020428A	Metals	10020428-	4	BC-03	BC-03	
207	207		0020428A	Metals	10020428-	3	DUPLICATE	DUPLICATE	
207	207		0020428A	Metals	10020428-	1	DUPLICATE	DUPLICATE	
207	207		0020428A	Metals	10020428-	2	DUPLICATE	DUPLICATE	
207	207		0020428A	Metals	10020428-	5	BC-07	BC-07	
207	207		0020428A	Metals	10020428-	1	BC-07	BC-07	
207	207		0020428A	Metals	10020428-	2	BC-07	BC-07	
207	207		0020428A	Metals	10020428-	3	BC-07	BC-07	
207	207		0020428A	Metals	10020428-	4	BC-07	BC-07	
207	207		0020428A	Metals	10020428-	5	DW-04	DW-04	
207	207		0020428A	Metals	10020428-	1	DW-04	DW-04	
207	207		0020428A	Metals	10020428-	2	DW-04	DW-04	
207	207		0020428A	Metals	10020428-	3	DW-04	DW-04	
207	207		0020428A	Metals	10020428-	4	DW-04	DW-04	

207	207	0020428A	Metals	10020428-	5	BC-19	BC-19
207	207	0020428A	Metals	10020428-	1	BC-19	BC-19
207	207	0020428A	Metals	10020428-	2	BC-19	BC-19
207	207	0020428A	Metals	10020428-	3	BC-19	BC-19
207	207	0020428A	Metals	10020428-	4	BC-19	BC-19
207	207	0020428A	Metals	10020428-	5	BC-25	BC-25
207	207	0020428A	Metals	10020428-	1	BC-25	BC-25
207	207	0020428A	Metals	10020428-	2	BC-25	BC-25
207	207	0020428A	Metals	10020428-	3	BC-25	BC-25
207	207	0020428A	Metals	10020428-	4	BC-25	BC-25
207	207	0020428A	Metals	10020428-	5	MW-03	MW-03
207	207	0020428A	Metals	10020428-	1	MW-03	MW-03
207	207	0020428A	Metals	10020428-	2	MW-03	MW-03
207	207	0020428A	Metals	10020428-	3	MW-03	MW-03
207	207	0020428A	Metals	10020428-	4	MW-03	MW-03
207	207	0020428A	Metals	10020428-	5	MW-06	MW-06
207	207	0020428A	Metals	10020428-	1	MW-06	MW-06
207	207	0020428A	Metals	10020428-	2	MW-06	MW-06
207	207	0020428A	Metals	10020428-	3	MW-06	MW-06
207	207	0020428A	Metals	10020428-	4	MW-06	MW-06
207	207	0020428A	Metals	10020428-	5	BB-01	BB-01
207	207	0020428A	Metals	10020428-	1	BB-01	BB-01
207	207	0020428A	Metals	10020428-	2	BB-01	BB-01
207	207	0020428A	Metals	10020428-	3	BB-01	BB-01
207	207	0020428A	Metals	10020428-	4	BB-01	BB-01
207	207	0020428A	Metals	10020428-	5	SOUTH WE	SOUTH WE
207	207	0020428A	Metals	10020428-	1	SOUTH WE	SOUTH WE
207	207	0020428A	Metals	10020428-	2	SOUTH WE	SOUTH WE
207	207	0020428A	Metals	10020428-	3	SOUTH WE	SOUTH WE
207	207	0020428A	Metals	10020428-	4	SOUTH WE	SOUTH WE
207	207	0020428A	Metals	10020428-	5	BC-17	BC-17
207	207	0020428A	Metals	10020428-	1	BC-17	BC-17
207	207	0020428A	Metals	10020428-	2	BC-17	BC-17
207	207	0020428A	Metals	10020428-	3	BC-17	BC-17
207	207	0020428A	Metals	10020428-	4	BC-17	BC-17
207	207	0020428A	Metals	10020428-	5	NORTH WE	NORTH WE
207	207	0020428A	Metals	10020428-	1	NORTH WE	NORTH WE
207	207	0020428A	Metals	10020428-	2	NORTH WE	NORTH WE
207	207	0020428A	Metals	10020428-	3	NORTH WE	NORTH WE
207	207	0020428A	Metals	10020428-	4	NORTH WE	NORTH WE
207	207	0020428A	Metals	10020428-	5	BC-21R	BC-21R
207	207	0020428A	Metals	10020428-	1	BC-21R	BC-21R
207	207	0020428A	Metals	10020428-	2	BC-21R	BC-21R
207	207	0020428A	Metals	10020428-	3	BC-21R	BC-21R
207	207	0020428A	Metals	10020428-	4	BC-21R	BC-21R
207	207	0020428A	Metals	10020428-	5	BA-01A	BA-01A
207	207	0020428A	Metals	10020428-	1	BA-01A	BA-01A

207	207	0020428A	Metals	10020428-	2	BA-01A	BA-01A
207	207	0020428A	Metals	10020428-	3	BA-01A	BA-01A
207	207	0020428A	Metals	10020428-	4	BA-01A	BA-01A
207	207	0020428A	Metals	10020428-	5	BA-01	BA-01
207	207	0020428A	Metals	10020428-	5	BA-01	BA-01
207	207	0020428A	Metals	10020428-	1	BA-01	BA-01
207	207	0020428A	Metals	10020428-	1	BA-01	BA-01
207	207	0020428A	Metals	10020428-	2	BA-01	BA-01
207	207	0020428A	Metals	10020428-	2	BA-01	BA-01
207	207	0020428A	Metals	10020428-	3	BA-01	BA-01
207	207	0020428A	Metals	10020428-	3	BA-01	BA-01
207	207	0020428A	Metals	10020428-	4	BA-01	BA-01
207	207	0020428A	Metals	10020428-	4	BA-01	BA-01
207	207	0020428A	Metals	10020428-	3	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	3	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	3	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	1	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	1	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	1	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	2	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	2	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	2	DUPLICATE	DUPLICATE
207	207	0020428A	Metals	10020428-	3	DW-03	DW-03
207	207	0020428A	Metals	10020428-	1	DW-03	DW-03
207	207	0020428A	Metals	10020428-	2	DW-03	DW-03
207	207	0020428A	Metals	10020428-	3	PW-04	PW-04
207	207	0020428A	Metals	10020428-	1	PW-04	PW-04
207	207	0020428A	Metals	10020428-	2	PW-04	PW-04
207	207	0020428A	Metals	10020428-	3	DW-02	DW-02
207	207	0020428A	Metals	10020428-	1	DW-02	DW-02
207	207	0020428A	Metals	10020428-	2	DW-02	DW-02
207	207	0020428A	Metals	10020428-	3	BA-05A	BA-05A
207	207	0020428A	Metals	10020428-	1	BA-05A	BA-05A
207	207	0020428A	Metals	10020428-	2	BA-05A	BA-05A
207	207	0020428A	Metals	10020428-	3	BA-05	BA-05
207	207	0020428A	Metals	10020428-	1	BA-05	BA-05
207	207	0020428A	Metals	10020428-	2	BA-05	BA-05
207	207	0020428A	Metals	10020428-	3	MW-A	MW-A
207	207	0020428A	Metals	10020428-	1	MW-A	MW-A
207	207	0020428A	Metals	10020428-	2	MW-A	MW-A
207	207	0020428A	Metals	10020428-	3	DW-01	DW-01
207	207	0020428A	Metals	10020428-	5	DW-01	DW-01
207	207	0020428A	Metals	10020428-	1	DW-01	DW-01
207	207	0020428A	Metals	10020428-	1	DW-01	DW-01
207	207	0020428A	Metals	10020428-	2	DW-01	DW-01
207	207	0020428A	Metals	10020428-	3	DW-01	DW-01
207	207	0020428A	Metals	10020428-	4	DW-01	DW-01

207	207	0020428A	Metals	10020428-	2	DW-01	DW-01
207	207	0020428A	Metals	10020428-	3	BA-03A	BA-03A
207	207	0020428A	Metals	10020428-	1	BA-03A	BA-03A
207	207	0020428A	Metals	10020428-	2	BA-03A	BA-03A
207	207	0020428A	Metals	10020428-	3	BA-03	BA-03
207	207	0020428A	Metals	10020428-	1	BA-03	BA-03
207	207	0020428A	Metals	10020428-	2	BA-03	BA-03
207	207	0020428A	Metals	10020428-	3	MW-02	MW-02
207	207	0020428A	Metals	10020428-	1	MW-02	MW-02
207	207	0020428A	Metals	10020428-	2	MW-02	MW-02
207	207	0020428A	Metals	10020428-	3	MW-01	MW-01
207	207	0020428A	Metals	10020428-	1	MW-01	MW-01
207	207	0020428A	Metals	10020428-	2	MW-01	MW-01

CAS #	Analyte	Analyte Typ	Result	Qualifier	Units	Analytical M	Matrix	Sample Cla
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000504	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.0234		mg/L	6020	Water	
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.0452		mg/L	6010B	Water	
7439-92-1	Lead	A	0.000687	U	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000735	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000524	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.0077		mg/L	6020	Water	
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000381	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.0144		mg/L	6020	Water	
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000137	U	mg/L	6020	Water	
7439-96-5	Manganese	A	0.00297		mg/L	6020	Water	
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.00292		mg/L	6020	Water	
7439-96-5	Manganese	A	0.0203		mg/L	6020	Water	
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000221	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.00138	J	mg/L	6020	Water	
7440-02-0	Nickel	A	0.00146	J	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.0153		mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000163	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.0129		mg/L	6020	Water	
7440-02-0	Nickel	A	0.000783	J	mg/L	6020	Water	
7440-28-0	Thallium	A	0.00022	J	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000534	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.000732	J	mg/L	6020	Water	
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	

7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000185	J	mg/L	6020	Water
7439-96-5	Manganese	A	0.00119	J	mg/L	6020	Water
7440-02-0	Nickel	A	0.00104	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000153	J	mg/L	6020	Water
7439-96-5	Manganese	A	0.00641		mg/L	6020	Water
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.00508		mg/L	6020	Water
7439-96-5	Manganese	A	0.462		mg/L	6020	Water
7440-02-0	Nickel	A	0.00141	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00797	U	mg/L	6010B	Water
7439-92-1	Lead	A	0.000493	J	mg/L	6020	Water
7439-96-5	Manganese	A	2.25		mg/L	6020	Water
7440-02-0	Nickel	A	0.0191		mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00319	J	mg/L	6020	Water
7439-92-1	Lead	A	0.00591		mg/L	6020	Water
7439-96-5	Manganese	A	0.00421		mg/L	6020	Water
7440-02-0	Nickel	A	0.00104	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000213	J	mg/L	6020	Water
7439-96-5	Manganese	A	0.00364		mg/L	6020	Water
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.0209		mg/L	6020	Water
7439-96-5	Manganese	A	0.0709		mg/L	6020	Water
7440-02-0	Nickel	A	0.00138	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000732	J	mg/L	6020	Water
7439-96-5	Manganese	A	0.00324		mg/L	6020	Water
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000162	J	mg/L	6020	Water
7439-96-5	Manganese	A	0.00642		mg/L	6020	Water
7440-02-0	Nickel	A	0.000979	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00417		mg/L	6020	Water
7439-92-1	Lead	A	0.000339	J	mg/L	6020	Water

7439-96-5	Manganese	A	0.0066		mg/L	6020	Water
7440-02-0	Nickel	A	0.000678	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000237	J	mg/L	6020	Water
7440-38-2	Arsenic	A	0.0172	J	mg/L	6010B	Water
7440-38-2	Arsenic	A	0.00829	J	mg/L	6010B	Water
7439-92-1	Lead	A	0.000806	J	mg/L	6020	Water
7439-92-1	Lead	A	0.000137	U	mg/L	6020	Water
7439-96-5	Manganese	A	1.59		mg/L	6020	Water
7439-96-5	Manganese	A	1.34		mg/L	6020	Water
7440-02-0	Nickel	A	0.0546		mg/L	6020	Water
7440-02-0	Nickel	A	0.0465		mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00797	U	mg/L	6010B	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000508	J	mg/L	6020	Water
7439-92-1	Lead	A	0.000137	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000184	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.0018	J	mg/L	6020	Water
7439-92-1	Lead	A	0.22		mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00797	U	mg/L	6010B	Water
7439-92-1	Lead	A	0.000655	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.0915		mg/L	6010B	Water
7439-92-1	Lead	A	0.046		mg/L	6020	Water
7440-28-0	Thallium	A	0.000735	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000137	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000137	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000137	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.0648		mg/L	6020	Water
7440-38-2	Arsenic	A	0.0029	J	mg/L	6020	Water
7439-92-1	Lead	A	0.00357		mg/L	6020	Water
7439-92-1	Lead	A	0.00283		mg/L	6020	Water
7439-96-5	Manganese	A	6.21		mg/L	6020	Water
7440-02-0	Nickel	A	0.022		mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water

7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water
7439-92-1	Lead	A	0.000137	U	mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.015	J	mg/L	6010B	Water
7439-92-1	Lead	A	0.146		mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.00797	U	mg/L	6010B	Water
7439-92-1	Lead	A	0.0015		mg/L	6020	Water
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water
7440-38-2	Arsenic	A	0.0792		mg/L	6010B	Water
7439-92-1	Lead	A	0.00389	J	mg/L	6020	Water
7440-28-0	Thallium	A	0.000735	U	mg/L	6020	Water

Sample Typ	Detection l	Location	Top Depth	Middle Dep	Bottom De	Depth Unit	Location Cl	Lab Name
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.02	NA				feet	Monitoring	SPLLAF
Site Sample	0.005	NA				feet	Monitoring	SPLLAF
Site Sample	0.01	NA				feet	Monitoring	SPLLAF
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
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Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
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Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Field Duplic	0.004	NA				feet	Monitoring	SPLLAF
Field Duplic	0.001	NA				feet	Monitoring	SPLLAF
Field Duplic	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
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Site Sample	0.002	NA	feet	Monitoring	SPLLAF
Field Duplic	0.02	NA	feet	Monitoring	SPLLAF
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Site Sample	0.005	NA	feet	Monitoring	SPLLAF
Site Sample	0.01	NA	feet	Monitoring	SPLLAF

Facility Are	Screened L	Easting	Northing	Elevation	Coordinate	Dilution Fa	Retention T	Filtration
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Moisture	Collection I	Extraction I	Analysis Da	Preparatio	Instrument	Data Quality
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Site ID	Project ID	Project Nar	SDG ID	Fraction	Lab Sample	Result ID	Client Sam	EPA Sample
207	207		10020428	Metals	10020428-	5	BA-09	BA-09
207	207		10020428	Metals	10020428-	1	BA-09	BA-09
207	207		10020428	Metals	10020428-	2	BA-09	BA-09
207	207		10020428	Metals	10020428-	3	BA-09	BA-09
207	207		10020428	Metals	10020428-	4	BA-09	BA-09
207	207		10020428	Metals	10020428-	5	WW-09	WW-09
207	207		10020428	Metals	10020428-	1	WW-09	WW-09
207	207		10020428	Metals	10020428-	2	WW-09	WW-09
207	207		10020428	Metals	10020428-	3	WW-09	WW-09
207	207		10020428	Metals	10020428-	4	WW-09	WW-09
207	207		10020428	Metals	10020428-	5	BC-07	BC-07
207	207		10020428	Metals	10020428-	1	BC-07	BC-07
207	207		10020428	Metals	10020428-	20	BC-07	BC-07
207	207		10020428	Metals	10020428-	30	BC-07	BC-07
207	207		10020428	Metals	10020428-	4	BC-07	BC-07
207	207		10020428	Metals	10020428-	5	MW-03	MW-03
207	207		10020428	Metals	10020428-	1	MW-03	MW-03
207	207		10020428	Metals	10020428-	2	MW-03	MW-03
207	207		10020428	Metals	10020428-	3	MW-03	MW-03
207	207		10020428	Metals	10020428-	4	MW-03	MW-03

CAS #	Analyte	Analyte Ty	Result	Qualifier	Units	Analytical M	Matrix	Sample Cla
7440-38-2	Arsenic	A	0.0452		mg/L	6010B	Water	
7439-92-1	Lead	A	0.000687	U	mg/L	6020	Water	
7439-96-5	Manganese	A	3.41	J	mg/L	6020	Water	
7440-02-0	Nickel	A	0.161	J	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000735	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000381	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.0144	J	mg/L	6020	Water	
7440-02-0	Nickel	A	0.000678	UJ	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.000163	J	mg/L	6020	Water	
7439-96-5	Manganese	A	0.0129	J	mg/L	6020	Water	
7440-02-0	Nickel	A	0.000783	J	mg/L	6020	Water	
7440-28-0	Thallium	A	0.00022	J	mg/L	6020	Water	
7440-38-2	Arsenic	A	0.00145	U	mg/L	6020	Water	
7439-92-1	Lead	A	0.00508		mg/L	6020	Water	
7439-96-5	Manganese	A	0.462	J	mg/L	6020	Water	
7440-02-0	Nickel	A	0.00141	J	mg/L	6020	Water	
7440-28-0	Thallium	A	0.000147	U	mg/L	6020	Water	

Sample Typ	Detection l	Location	Top Depth	Middle Dep	Bottom De	Depth Unit	Location Cl	Lab Name
Site Sample	0.02	NA				feet	Monitoring	SPLLAF
Site Sample	0.005	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.01	NA				feet	Monitoring	SPLLAF
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.004	NA				feet	Monitoring	SPLLAF
Site Sample	0.001	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF
Site Sample	0.002	NA				feet	Monitoring	SPLLAF

Facility Are	Screened L	Easting	Northing	Elevation	Coordinate	Dilution Fa	Retention T	Filtration
					State Plane	1	0	
					State Plane	5	0	
					State Plane	1		
					State Plane	1		
					State Plane	5	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
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					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	
					State Plane	1	0	

Moisture	Collection I	Extraction I	Analysis Da	Preparatio	Instrument	Data Quality
	########	########	########		ICPDV	Validated Results
	########	########	########		ICPDV	Validated Results
	########	########	########		ICPDV	Validated Results
	########	########	########		ICPDV	Validated Results
	########	########	########		ICPDV	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results
	########	########	########		ICPMS	Validated Results

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
1	Total Arsenic/7440-38-2	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.010	0.004	< 0.004		No
2	Total Lead/7439-92-1	SW6020	BA-09A	10020428-01	100208	EPA Site Cleanup	0.015	0.001	0.000504	J	No
3	Total Manganese/7439-96-5	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.510	0.002	0.0234	N	No
4	Total Nickel/7440-02-0	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.073	0.002	< 0.002		No
5	Total Thallium/7440-28-0	SW6020	BA-09A	10020428-01	100208	RECAP SS	0.002	0.002	< 0.002		No
6	Total Lead/7439-92-1	SW6020	BA-09	10020428-02	100208	EPA Site Cleanup	0.015	0.005	< 0.005		No
7	**Total Manganese/7439-96-5**	**SW6020**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.510**	**0.002**	**3.41**		**Yes**
8	**Total Nickel/7440-02-0**	**SW6020**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.073**	**0.002**	**0.161**		**Yes**
9	**Total Thallium/7440-28-0**	**SW6020**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
10	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-09**	**10020428-02**	**100208**	**RECAP SS**	**0.010**	**0.02**	**0.0452**		**Yes**
11	Total Arsenic/7440-38-2	SW6020	MW-04	10020428-03	100208	RECAP SS	0.010	0.004	< 0.004		No
12	Total Lead/7439-92-1	SW6020	MW-04	10020428-03	100208	EPA Site Cleanup	0.015	0.001	0.000524	J	No
13	Total Manganese/7439-96-5	SW6020	MW-04	10020428-03	100208	RECAP SS	0.510	0.002	0.0077	N	No
14	Total Nickel/7440-02-0	SW6020	MW-04	10020428-03	100208	RECAP SS	0.073	0.002	< 0.002		No
15	Total Thallium/7440-28-0	SW6020	MW-04	10020428-03	100208	RECAP SS	0.002	0.002	< 0.002		No
16	Total Arsenic/7440-38-2	SW6020	WW-09	10020428-04	100208	RECAP SS	0.010	0.004	< 0.004		No
17	Total Lead/7439-92-1	SW6020	WW-09	10020428-04	100208	EPA Site Cleanup	0.015	0.001	0.000381	J	No
18	Total Manganese/7439-96-5	SW6020	WW-09	10020428-04	100208	RECAP SS	0.510	0.002	0.0144	N	No
19	Total Nickel/7440-02-0	SW6020	WW-09	10020428-04	100208	RECAP SS	0.073	0.002	< 0.002		No
20	Total Thallium/7440-28-0	SW6020	WW-09	10020428-04	100208	RECAP SS	0.002	0.002	< 0.002		No
21	Total Arsenic/7440-38-2	SW6020	WW-04	10020428-05	100208	RECAP SS	0.010	0.004	< 0.004		No
22	Total Lead/7439-92-1	SW6020	WW-04	10020428-05	100208	EPA Site Cleanup	0.015	0.001	< 0.001		No
23	Total Manganese/7439-96-5	SW6020	WW-04	10020428-05	100208	RECAP SS	0.510	0.002	0.00297	N	No
24	Total Nickel/7440-02-0	SW6020	WW-04	10020428-05	100208	RECAP SS	0.073	0.002	< 0.002		No
25	Total Thallium/7440-28-0	SW6020	WW-04	10020428-05	100208	RECAP SS	0.002	0.002	< 0.002		No
26	Total Arsenic/7440-38-2	SW6020	(b) (6) WELL	10020428-06	100208	RECAP SS	0.010	0.004	< 0.004		No
27	Total Lead/7439-92-1	SW6020	(b) (6) WELL	10020428-06	100208	EPA Site Cleanup	0.015	0.001	0.00292		No
28	Total Manganese/7439-96-5	SW6020	(b) (6) WELL	10020428-06	100208	RECAP SS	0.510	0.002	0.0203	N	No
29	Total Nickel/7440-02-0	SW6020	(b) (6) WELL	10020428-06	100208	RECAP SS	0.073	0.002	< 0.002		No
30	Total Thallium/7440-28-0	SW6020	(b) (6) WELL	10020428-06	100208	RECAP SS	0.002	0.002	< 0.002		No
31	Total Arsenic/7440-38-2	SW6020	BC-03	10020428-07	100208	RECAP SS	0.010	0.004	< 0.004		No
32	Total Lead/7439-92-1	SW6020	BC-03	10020428-07	100208	EPA Site Cleanup	0.015	0.001	0.000221	J	No
33	Total Manganese/7439-96-5	SW6020	BC-03	10020428-07	100208	RECAP SS	0.510	0.002	0.00138	JN	No
34	Total Nickel/7440-02-0	SW6020	BC-03	10020428-07	100208	RECAP SS	0.073	0.002	0.00146	JN	No
35	Total Thallium/7440-28-0	SW6020	BC-03	10020428-07	100208	RECAP SS	0.002	0.002	< 0.002		No
36	Total Arsenic/7440-38-2	SW6020	BC-07	10020428-08	100209	RECAP SS	0.010	0.004	< 0.004		No
37	Total Lead/7439-92-1	SW6020	BC-07	10020428-08	100209	EPA Site Cleanup	0.015	0.001	0.000163	J	No
38	Total Manganese/7439-96-5	SW6020	BC-07	10020428-08	100209	RECAP SS	0.510	0.002	0.0129	N	No
39	Total Nickel/7440-02-0	SW6020	BC-07	10020428-08	100209	RECAP SS	0.073	0.002	0.000783	JN	No
40	Total Thallium/7440-28-0	SW6020	BC-07	10020428-08	100209	RECAP SS	0.002	0.002	0.00022	J	No
41	Total Arsenic/7440-38-2	SW6020	DW-04	10020428-09	100209	RECAP SS	0.010	0.004	< 0.004		No
42	Total Lead/7439-92-1	SW6020	DW-04	10020428-09	100209	EPA Site Cleanup	0.015	0.001	0.000534	J	No
43	Total Manganese/7439-96-5	SW6020	DW-04	10020428-09	100209	RECAP SS	0.510	0.002	0.000732	JN	No
44	Total Nickel/7440-02-0	SW6020	DW-04	10020428-09	100209	RECAP SS	0.073	0.002	< 0.002		No
45	Total Thallium/7440-28-0	SW6020	DW-04	10020428-09	100209	RECAP SS	0.002	0.002	< 0.002		No
46	Total Arsenic/7440-38-2	SW6020	BC-19	10020428-10	100209	RECAP SS	0.010	0.004	< 0.004		No
47	Total Lead/7439-92-1	SW6020	BC-19	10020428-10	100209	EPA Site Cleanup	0.015	0.001	0.000185	J	No
48	Total Manganese/7439-96-5	SW6020	BC-19	10020428-10	100209	RECAP SS	0.510	0.002	0.00119	JN	No
49	Total Nickel/7440-02-0	SW6020	BC-19	10020428-10	100209	RECAP SS	0.073	0.002	0.00104	JN	No
50	Total Thallium/7440-28-0	SW6020	BC-19	10020428-10	100209	RECAP SS	0.002	0.002	< 0.002		No
51	Total Arsenic/7440-38-2	SW6020	BC-25	10020428-11	100209	RECAP SS	0.010	0.004	< 0.004		No
52	Total Lead/7439-92-1	SW6020	BC-25	10020428-11	100209	EPA Site Cleanup	0.015	0.001	0.000153	J	No
53	Total Manganese/7439-96-5	SW6020	BC-25	10020428-11	100209	RECAP SS	0.510	0.002	0.00641	N	No
54	Total Nickel/7440-02-0	SW6020	BC-25	10020428-11	100209	RECAP SS	0.073	0.002	< 0.002		No
55	Total Thallium/7440-28-0	SW6020	BC-25	10020428-11	100209	RECAP SS	0.002	0.002	< 0.002		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
56	Total Arsenic/7440-38-2	SW6020	MW-03	10020428-12	100209	RECAP SS	0.010	0.004	< 0.004		No
57	Total Lead/7439-92-1	SW6020	MW-03	10020428-12	100209	EPA Site Cleanup	0.015	0.001	0.00508		No
58	Total Manganese/7439-96-5	SW6020	MW-03	10020428-12	100209	RECAP SS	0.510	0.002	0.462	N	No
59	Total Nickel/7440-02-0	SW6020	MW-03	10020428-12	100209	RECAP SS	0.073	0.002	0.00141	JN	No
60	Total Thallium/7440-28-0	SW6020	MW-03	10020428-12	100209	RECAP SS	0.002	0.002	< 0.002		No
61	Total Lead/7439-92-1	SW6020	MW-06	10020428-13	100209	EPA Site Cleanup	0.015	0.001	0.000493	J	No
62	**Total Manganese/7439-96-5**	**SW6020**	**MW-06**	**10020428-13**	**100209**	**RECAP SS**	**0.510**	**0.002**	**2.25**	**N**	**Yes**
63	Total Nickel/7440-02-0	SW6020	MW-06	10020428-13	100209	RECAP SS	0.073	0.002	0.0191	N	No
64	Total Thallium/7440-28-0	SW6020	MW-06	10020428-13	100209	RECAP SS	0.002	0.002	< 0.002		No
65	**Total Arsenic/7440-38-2**	**SW6010B**	**MW-06**	**10020428-13**	**100209**	**RECAP SS**	**0.010**	**0.02**	**< 0.02**		**Yes**
66	Total Arsenic/7440-38-2	SW6020	BB-01	10020428-14	100209	RECAP SS	0.010	0.004	0.00319	J	No
67	Total Lead/7439-92-1	SW6020	BB-01	10020428-14	100209	EPA Site Cleanup	0.015	0.001	0.00591		No
68	Total Manganese/7439-96-5	SW6020	BB-01	10020428-14	100209	RECAP SS	0.510	0.002	0.00421	N	No
69	Total Nickel/7440-02-0	SW6020	BB-01	10020428-14	100209	RECAP SS	0.073	0.002	0.00104	JN	No
70	Total Thallium/7440-28-0	SW6020	BB-01	10020428-14	100209	RECAP SS	0.002	0.002	< 0.002		No
71	Total Arsenic/7440-38-2	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.010	0.004	< 0.004		No
72	Total Lead/7439-92-1	SW6020	SOUTH WELL	10020428-15	100209	EPA Site Cleanup	0.015	0.001	0.000213	J	No
73	Total Manganese/7439-96-5	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.510	0.002	0.00364	N	No
74	Total Nickel/7440-02-0	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.073	0.002	< 0.002		No
75	Total Thallium/7440-28-0	SW6020	SOUTH WELL	10020428-15	100209	RECAP SS	0.002	0.002	< 0.002		No
76	Total Arsenic/7440-38-2	SW6020	BC-17	10020428-16	100209	RECAP SS	0.010	0.004	< 0.004		No
77	**Total Lead/7439-92-1**	**SW6020**	**BC-17**	**10020428-16**	**100209**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.0209**		**Yes**
78	Total Manganese/7439-96-5	SW6020	BC-17	10020428-16	100209	RECAP SS	0.510	0.002	0.0709		No
79	Total Nickel/7440-02-0	SW6020	BC-17	10020428-16	100209	RECAP SS	0.073	0.002	0.00138	J	No
80	Total Thallium/7440-28-0	SW6020	BC-17	10020428-16	100209	RECAP SS	0.002	0.002	< 0.002		No
81	Total Arsenic/7440-38-2	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.010	0.004	< 0.004		No
82	Total Lead/7439-92-1	SW6020	NORTH WELL	10020428-17	100209	EPA Site Cleanup	0.015	0.001	0.000732	J	No
83	Total Manganese/7439-96-5	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.510	0.002	0.00324	N	No
84	Total Nickel/7440-02-0	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.073	0.002	< 0.002		No
85	Total Thallium/7440-28-0	SW6020	NORTH WELL	10020428-17	100209	RECAP SS	0.002	0.002	< 0.002		No
86	Total Arsenic/7440-38-2	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.010	0.004	< 0.004		No
87	Total Lead/7439-92-1	SW6020	BC-21R	10020428-18	100209	EPA Site Cleanup	0.015	0.001	0.000162	J	No
88	Total Manganese/7439-96-5	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.510	0.002	0.00642	N	No
89	Total Nickel/7440-02-0	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.073	0.002	0.000979	JN	No
90	Total Thallium/7440-28-0	SW6020	BC-21R	10020428-18	100209	RECAP SS	0.002	0.002	< 0.002		No
91	Total Arsenic/7440-38-2	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.010	0.004	0.00417		No
92	Total Lead/7439-92-1	SW6020	BA-01A	10020428-19	100209	EPA Site Cleanup	0.015	0.001	0.000339	J	No
93	Total Manganese/7439-96-5	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.510	0.002	0.0066	N	No
94	Total Nickel/7440-02-0	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.073	0.002	< 0.002		No
95	Total Thallium/7440-28-0	SW6020	BA-01A	10020428-19	100209	RECAP SS	0.002	0.002	0.000237	J	No
96	Dissolved Lead/7439-92-1	SW6020	BA-01	10020428-20	100209	EPA Site Cleanup	0.015	0.001	< 0.001		No
97	**Dissolved Manganese/7439-96-5**	**SW6020**	**BA-01**	**10020428-20**	**100209**	**RECAP SS**	**0.510**	**0.002**	**1.59**		**Yes**
98	Dissolved Nickel/7440-02-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.073	0.009	0.0546		No
99	Dissolved Thallium/7440-28-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.002	0.002	< 0.002		No
100	Dissolved Arsenic/7440-38-2	SW6010B	BA-01	10020428-20	100209	RECAP SS	0.010	0.02	0.00829	J	No
101	Total Lead/7439-92-1	SW6020	BA-01	10020428-20	100209	EPA Site Cleanup	0.015	0.001	0.000806	J	No
102	Total Manganese/7439-96-5	SW6020	BA-01	10020428-20	100209	RECAP SS	0.510	0.002	1.34		Yes
103	Total Nickel/7440-02-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.073	0.002	0.0465		No
104	Total Thallium/7440-28-0	SW6020	BA-01	10020428-20	100209	RECAP SS	0.002	0.002	< 0.002		No
105	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-01**	**10020428-20**	**100209**	**RECAP SS**	**0.010**	**0.02**	**0.0172**	**J**	**Yes**
106	Total Arsenic/7440-38-2	SW6020	DW-03	10020428-21	100210	RECAP SS	0.010	0.004	0.0018	J	No
107	**Total Lead/7439-92-1**	**SW6020**	**DW-03**	**10020428-21**	**100210**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.22**		**Yes**
108	Total Manganese/7439-96-5	SW6020	DW-03	10020428-21	100210	RECAP SS	0.510	0.002	0.284		No
109	Total Nickel/7440-02-0	SW6020	DW-03	10020428-21	100210	RECAP SS	0.073	0.002	0.0145		No
110	Total Thallium/7440-28-0	SW6020	DW-03	10020428-21	100210	RECAP SS	0.002	0.002	< 0.002		No

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
111	Total Lead/7439-92-1	SW6020	PW-04	10020428-22	100210	EPA Site Cleanup	0.015	0.001	0.000655	J	No
112	**Total Manganese/7439-96-5**	**SW6020**	**PW-04**	**10020428-22**	**100210**	**RECAP SS**	**0.510**	**0.002**	**1.5**		**Yes**
113	Total Nickel/7440-02-0	SW6020	PW-04	10020428-22	100210	RECAP SS	0.073	0.002	0.0358		No
114	Total Thallium/7440-28-0	SW6020	PW-04	10020428-22	100210	RECAP SS	0.002	0.002	< 0.002		No
115	**Total Arsenic/7440-38-2**	**SW6010B**	**PW-04**	**10020428-22**	**100210**	**RECAP SS**	**0.010**	**0.02**	**< 0.02**		**Yes**
116	**Total Lead/7439-92-1**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**EPA Site Cleanup**	**0.015**	**0.005**	**0.046**		**Yes**
117	**Total Manganese/7439-96-5**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.510**	**0.002**	**9.15**		**Yes**
118	**Total Nickel/7440-02-0**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.073**	**0.002**	**0.388**		**Yes**
119	**Total Thallium/7440-28-0**	**SW6020**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
120	**Total Arsenic/7440-38-2**	**SW6010B**	**DW-02**	**10020428-23**	**100210**	**RECAP SS**	**0.010**	**0.02**	**0.0915**		**Yes**
121	Total Arsenic/7440-38-2	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.010	0.004	< 0.004		No
122	Total Lead/7439-92-1	SW6020	BA-05A	10020428-24	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
123	Total Manganese/7439-96-5	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.510	0.002	0.012		No
124	Total Nickel/7440-02-0	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.073	0.002	< 0.002		No
125	Total Thallium/7440-28-0	SW6020	BA-05A	10020428-24	100210	RECAP SS	0.002	0.002	< 0.002		No
126	Total Arsenic/7440-38-2	SW6020	BA-05	10020428-25	100210	RECAP SS	0.010	0.004	< 0.004		No
127	Total Lead/7439-92-1	SW6020	BA-05	10020428-25	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
128	**Total Manganese/7439-96-5**	**SW6020**	**BA-05**	**10020428-25**	**100210**	**RECAP SS**	**0.510**	**0.002**	**15.4**		**Yes**
129	Total Nickel/7440-02-0	SW6020	BA-05	10020428-25	100210	RECAP SS	0.073	0.002	0.058		No
130	Total Thallium/7440-28-0	SW6020	BA-05	10020428-25	100210	RECAP SS	0.002	0.002	< 0.002		No
131	Total Arsenic/7440-38-2	SW6020	MW-A	10020428-26	100210	RECAP SS	0.010	0.004	< 0.004		No
132	Total Lead/7439-92-1	SW6020	MW-A	10020428-26	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
133	Total Manganese/7439-96-5	SW6020	MW-A	10020428-26	100210	RECAP SS	0.510	0.002	0.00402		No
134	Total Nickel/7440-02-0	SW6020	MW-A	10020428-26	100210	RECAP SS	0.073	0.002	< 0.002		No
135	Total Thallium/7440-28-0	SW6020	MW-A	10020428-26	100210	RECAP SS	0.002	0.002	< 0.002		No
136	Dissolved Arsenic/7440-38-2	SW6020	DW-01	10020428-27	100210	RECAP SS	0.010	0.004	0.0029	J	No
137	Dissolved Lead/7439-92-1	SW6020	DW-01	10020428-27	100210	EPA Site Cleanup	0.015	0.001	0.00283		No
138	**Dissolved Manganese/7439-96-5**	**SW6020**	**DW-01**	**10020428-27**	**100210**	**RECAP SS**	**0.510**	**0.002**	**6.21**		**Yes**
139	Dissolved Nickel/7440-02-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.073	0.009	0.022		No
140	Dissolved Thallium/7440-28-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.002	0.002	< 0.002		No
141	**Total Arsenic/7440-38-2**	**SW6020**	**DW-01**	**10020428-27**	**100210**	**RECAP SS**	**0.010**	**0.004**	**0.0648**		**Yes**
142	Total Lead/7439-92-1	SW6020	DW-01	10020428-27	100210	EPA Site Cleanup	0.015	0.001	0.00357		No
143	**Total Manganese/7439-96-5**	**SW6020**	**DW-01**	**10020428-27**	**100210**	**RECAP SS**	**0.510**	**0.002**	**5.19**		**Yes**
144	Total Nickel/7440-02-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.073	0.002	0.0187		No
145	Total Thallium/7440-28-0	SW6020	DW-01	10020428-27	100210	RECAP SS	0.002	0.002	< 0.002		No
146	Total Arsenic/7440-38-2	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.010	0.004	< 0.004		No
147	Total Lead/7439-92-1	SW6020	BA-03A	10020428-28	100210	EPA Site Cleanup	0.015	0.001	< 0.001		No
148	Total Manganese/7439-96-5	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.510	0.002	0.0238		No
149	Total Nickel/7440-02-0	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.073	0.002	< 0.002		No
150	Total Thallium/7440-28-0	SW6020	BA-03A	10020428-28	100210	RECAP SS	0.002	0.002	< 0.002		No
151	**Total Lead/7439-92-1**	**SW6020**	**BA-03**	**10020428-29**	**100210**	**EPA Site Cleanup**	**0.015**	**0.001**	**0.146**		**Yes**
152	**Total Manganese/7439-96-5**	**SW6020**	**BA-03**	**10020428-29**	**100210**	**RECAP SS**	**0.510**	**0.002**	**2.2**		**Yes**
153	**Total Nickel/7440-02-0**	**SW6020**	**BA-03**	**10020428-29**	**100210**	**RECAP SS**	**0.073**	**0.002**	**0.0898**		**Yes**
154	Total Thallium/7440-28-0	SW6020	BA-03	10020428-29	100210	RECAP SS	0.002	0.002	< 0.002		No
155	**Total Arsenic/7440-38-2**	**SW6010B**	**BA-03**	**10020428-29**	**100210**	**RECAP SS**	**0.010**	**0.02**	**0.015**	**J**	**Yes**
156	Total Lead/7439-92-1	SW6020	MW-02	10020428-30	100211	EPA Site Cleanup	0.015	0.001	0.0015		No
157	**Total Manganese/7439-96-5**	**SW6020**	**MW-02**	**10020428-30**	**100211**	**RECAP SS**	**0.510**	**0.002**	**0.728**		**Yes**
158	**Total Nickel/7440-02-0**	**SW6020**	**MW-02**	**10020428-30**	**100211**	**RECAP SS**	**0.073**	**0.002**	**0.0775**		**Yes**
159	Total Thallium/7440-28-0	SW6020	MW-02	10020428-30	100211	RECAP SS	0.002	0.002	< 0.002		No
160	**Total Arsenic/7440-38-2**	**SW6010B**	**MW-02**	**10020428-30**	**100211**	**RECAP SS**	**0.010**	**0.02**	**< 0.02**		**Yes**
161	Total Lead/7439-92-1	SW6020	MW-01	10020428-31	100211	EPA Site Cleanup	0.015	0.005	0.00389	J	No
162	**Total Manganese/7439-96-5**	**SW6020**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.510**	**0.002**	**3.57**		**Yes**
163	**Total Nickel/7440-02-0**	**SW6020**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.073**	**0.002**	**0.15**		**Yes**
164	**Total Thallium/7440-28-0**	**SW6020**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.002**	**0.01**	**< 0.01**		**Yes**
165	**Total Arsenic/7440-38-2**	**SW6010B**	**MW-01**	**10020428-31**	**100211**	**RECAP SS**	**0.010**	**0.02**	**0.0792**		**Yes**

TABLE 4
CURRENT QUARTER GROUNDWATER ANALYTICAL SUMMARY
TOTAL AND DISSOLVED METALS

Delatte Metals Superfund Site
Ponchatoula, Louisiana
Agency Interest No. 2328

Line #	COC/CAS	Method	Location and Depth	Lab Sample Identification	Sample Date	Option Used	Limiting Standard mg/L	Reporting Limit mg/L	Sample Result mg/L	QA/QC Flag	Exceed Limiting Standard
166	Total Arsenic/7440-38-2	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.010	0.004	< 0.004		NA
167	Total Lead/7439-92-1	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	EPA Site Cleanup	0.015	0.001	0.0153		NA
168	Total Manganese/7439-96-5	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.510	0.002	0.0762		NA
169	Total Nickel/7440-02-0	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.073	0.002	0.00139	J	NA
170	Total Thallium/7440-28-0	SW6020	DUPLICATE #1 (BC-17)	10020428-32	100209	RECAP SS	0.002	0.002	< 0.002		NA
171	Total Lead/7439-92-1	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	EPA Site Cleanup	0.015	0.001	0.000508	J	NA
172	Total Manganese/7439-96-5	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.510	0.002	1.43		NA
173	Total Nickel/7440-02-0	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.073	0.002	0.0326		NA
174	Total Thallium/7440-28-0	SW6020	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.002	0.002	< 0.002		NA
175	Total Arsenic/7440-38-2	SW6010B	DUPLICATE #2 (PW-04)	10020428-33	100210	RECAP SS	0.010	0.02	< 0.02		NA
176	Total Arsenic/7440-38-2	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.010	0.004	< 0.004		NA
177	Total Lead/7439-92-1	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	EPA Site Cleanup	0.015	0.001	< 0.001		NA
178	Total Manganese/7439-96-5	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.510	0.002	0.00171	J	NA
179	Total Nickel/7440-02-0	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.073	0.002	< 0.002		NA
180	Total Thallium/7440-28-0	SW6020	DUPLICATE #3 (MW-A)	10020428-34	100210	RECAP SS	0.002	0.002	< 0.002		NA
181	Total Arsenic/7440-38-2	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.010	0.004	< 0.004		NA
182	Total Lead/7439-92-1	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	EPA Site Cleanup	0.015	0.001	0.000184	J	NA
183	Total Manganese/7439-96-5	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.510	0.002	0.0259		NA
184	Total Nickel/7440-02-0	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.073	0.002	< 0.002		NA
185	Total Thallium/7440-28-0	SW6020	DUPLICATE #4 (BA-03A)	10020428-35	100210	RECAP SS	0.002	0.002	< 0.002		NA