SOUTH POINT PLANT SUPERFUND SITE

SOUTH POINT, OHIO

EPA Region 5 Records Ctr.
393830

Prepared for:

HONEYWELL INTERNATIONAL, INC.

Edina, Minnesota

May 8, 2007

MACTEC

engineering and constructing a better tomorrow

May 9, 2007

Nabil Fayoumi
Remedial Project Manager
Superfund Division
U. S. EPA - Region V
77 West Jackson Blvd.
Chicago, Illinois 60640

Re: South Point – 2006 Annual Groundwater Monitoring Report

Dear Mr. Fayoumi:

On behalf of Honeywell International Inc. (Honeywell), MACTEC Engineering and Consulting, Inc. (MACTEC) is pleased to provide you with one copy of the *2006 Annual Groundwater Monitoring Report, South Point Superfund Site, South Point, Ohio*. This submittal is the seventh annual report and presents the groundwater quality and groundwater flow evaluations for two semi-annual sampling events in 2006. Also, a compact disc containing the electronic data deliverables (EDD) in Region V format for the subject report will be forthcoming in a separate package.

If you have any questions or comments concerning the information presented in the report, please feel free to contact Steve Conn at (952) 806-0660.

Sincerely,
MACTEC Engineering and Consulting, Inc.

Steve G. Conn

Steve G. Conn
Senior Project Manager
By DVG with Permission

Bruce Baker
Senior Principle Project Manager

cc: Chuck Geadelmann, Honeywell
Kevin O'Hara, Ohio EPA (1 Copy)
Craig Cox, Cox-Colvin, Inc. (1 Copy)
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2006 ANNUAL GROUNDWATER MONITORING REPORT
SOUTH POINT SUPERFUND SITE

SOUTH POINT, OHIO

Prepared for:

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Project 3310-05-2010

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1.0 INTRODUCTION

This document represents the annual report for the groundwater monitoring program conducted at the South Point Superfund Site (Plant) in South Point, Ohio during the year 2006. Groundwater monitoring was conducted, and this report was prepared, in accordance with the Final Design Report (FDR) for the South Point Plant Superfund Site (Parsons Engineering Science [Parsons], 2001). Groundwater quality and flow conditions are monitored semi-annually. The objective of this monitoring is to assess the flow and groundwater quality until the remedial goals for groundwater are met.

This report presents the site setting, the field methods used for groundwater monitoring, the results of the groundwater monitoring, the National Pollutant Discharge Elimination System (NPDES) permitted discharge trends, and the conclusions and recommendations for monitoring in 2007. In addition, the groundwater quality data was provided to United States Environmental Protection Agency (USEPA) in an electronic form consistent with Region V's electronic data deliverable (EDD) format.

In 2006, a 5-Year Review, as required by Section 121 of CERCLA, was conducted by the USEPA and the Ohio Environmental Protection Agency (OEPA). On April 19, 2006, USEPA and OEPA performed a 5-Year Review inspection at the site. Following their inspection, the USEPA issued the site's 5-Year Review Report on May 8, 2006. The report concluded with USEPA requesting the following actions be performed:

An Institutional Controls (IC) Plan shall be prepared within six months of the date of the Five Year Review Report is signed to address the following IC issues:

Revise deeds to show the exact locations of the Eastern Disposal Area and Northern Fly Ash Pond;

Revise groundwater IC's at the time the Records of Decision (ROD's) performance standards are met; allowing the parcel owner to petition USEPA to remove groundwater use restriction;

Incorporate an annual certification step to the O&M Plan and provide copies of the reports to the current landowners;

- Honeywell shall work with the current owners of parcels 2, 3, and 4 and the Village of South Point to place the appropriate groundwater usage restrictions on these parcels. USEPA will assist Honeywell as appropriate and necessary;
- The plan shall include IC maps (paper and GIS formats) to identify the Site and all areas subject to restrictions;

- Explore feasibility of implementing covenants under the Ohio version of the Uniform Environmental Covenants Act for as many parcels as possible.; and
- Examine the extent to which the Lawrence Economic Development Corporation (LEDC) and Honeywell International Inc. (Honeywell) are required to notify USEPA prior to the transfer of Site parcels, and contact them about placing appropriate restrictions when transfers of land occur.

- USEPA will work with Honeywell on potential optimization strategies for the groundwater capture system as recommended in the Groundwater Evaluation and Optimization System (GEOS) Report, which was part of the 5-Year Report.
- USEPA and Honeywell will work with LEDC on issues related to redeveloping their portion of the Northern Fly Ash Ponds for cargo container storage. USEPA's Remedial Program will communicate with the Regional Redevelopment Coordinator to discuss the potential for the LEDC portion of the Site to be nominated for a national redevelopment award.

On November 17, 2006, an IC Plan was submitted to the USEPA and OEPA, which addressed the IC issues presented in the 5-Year Review Report.

On October 2, 2006, MACTEC Engineering and Consulting, Inc. (MACTEC) submitted to USEPA a response letter to the findings listed in the GEOS report review of the South Point Superfund Site 5-Year Review Report. The letter summarized the GEOS findings and provided responses to each, which included clarifying the historic basis for some of the apparent inconsistencies noted by GEOS. Based on GEOS' recommendations and conclusions, the response letter provided the following proposed activities:

- **Target Capture Zones –** Explore existing data and other site information to attempt to refine the sites target capture zone. If additional data are needed, extra monitoring locations and procedures for obtaining this data will be proposed.
- **Hydraulic Gradient/Hydraulic Containment Areas** - Conduct sensitivity analysis in conjunction with groundwater modeling with a new, revised model with more realistic boundary conditions.
- **Required Rates of Groundwater Pumping** - Investigate, through sensitivity analysis groundwater modeling and data evaluation, the effectiveness of the pumping system, and validate existing target flow rates or propose other flow rates sufficient to protect off-site water supply sources.

- **Well Efficiency Evaluation -** Evaluate pumping well efficiency and perform any necessary maintenance to restore pumping capacity. Two piezometers will be installed, one at each pumping well, to provide data indicating present condition and any trends in loss of efficiency.
- **Monitoring Well Network -** Based on the results of the Target Capture Zone and Capture Zone analysis, propose additional wells necessary to optimize the existing monitoring well network.

As of this date, neither Honeywell nor MACTEC has received a response and/or approval from USEPA on either the proposed IC Plan or activities presented in the response letter to the GEOS report.

2.0 SITE SETTING

The Plant is located on a relatively flat part of an Ohio River terrace, within the eastern flood plain of the Ohio River (Figure 2-1). The Plant is situated on 70 to 100 feet of unconsolidated alluvium and glacial outwash sediment resting on bedrock. The glacial sediments comprise the principal aquifer of the area. Overlying the aquifer is a relatively uniform silt and fine sand unit which is generally seven to ten feet thick.

Groundwater in the unconsolidated aquifer is present under unconfined conditions. The water table (phreatic surface) occurs at an average elevation of 514 feet above mean sea level (msl) in Plant observation wells. This corresponds to an average depth-to-water of 45 feet. The average saturated thickness of the aquifer is 38 feet. Pumping test results indicate that the transmissivity of the aquifer is approximately 13,500 ft^2/day and the average hydraulic conductivity is 386 ft/day. Using an effective porosity of 0.2, groundwater velocities were calculated to range from 3.9 ft/day to 19 ft/day during the Remedial Investigation (RI) (Geraghty & Miller, 1994).

During the RI, groundwater was determined to be impacted by elevated levels of waste-specific compounds (nitrate and ammonia), sulfate, iron, manganese, and other metals from on-site sources. Contaminant plumes were identified beneath the Plant and centered on the Plant's Central Well Field and Disposal Area D. Results of a borehole conductivity survey conducted during the RI indicate that, contaminant concentrations are highest, in general, near the top of the aquifer and diminish with depth. Preliminary remedial goals (PRGs) were developed for constituents of concern in both soil and groundwater based on the findings of the RI, a Baseline Risk Assessment, and an Ecological Risk Assessment. The PRGs were adopted as Performance Standards (PS) for groundwater. These standards are presented in Table 2-1.

The following remedial action objectives address groundwater and soil for protection of human health and the environment:

- prevent ingestion of contaminated groundwater (nitrates, ammonia, metals) under the Plant by future human receptors,
- restore quality of the local groundwater under the Plant,
- minimize potential ingestion and dermal contact of contaminated surface soils by current and future human receptors,

- excavate arsenic contaminated soils in the Mid-Plant Area which exceeds the arsenic PS for soils, and
- excavate coke-oven gas line drip pots and their surrounding soils which contain contaminants of concern at concentrations exceeding the soil PSs.

The selected remedy for groundwater, as proposed by Remedial Alternative RA-5A in USEPA's Proposed Plan (USEPA, 1997), consisted of:

- institutional controls,
- containment through pumping of the existing containment system,
- discharge to the Ohio River, and
- groundwater monitoring and submittal of an annual monitoring report.

The remedy for soils, completed in December 2001, consisted of:

- institutional controls,
- excavation of wastes from Disposal Area D,
- excavation of arsenic contaminated soils from the Mid-Plant Area,
- excavation of the coke-oven gas line drip pots and contaminated soils,
- consolidation of wastes within the Eastern Disposal Area,
- construction of an onsite landfill in the Eastern Disposal Area for wastes from Disposal Area D and arsenic contaminated soils from the Mid-Plant Area having concentrations less than 400 milligrams per kilogram, and
- offsite disposal of the coke-oven gas line drip pots and contaminated soils associated with the drip pots, and arsenic contaminated soils from the Mid-Plant Area having concentrations greater than 400 milligrams per kilogram.

3.0 FIELD METHODS

The field activities of the semi-annual groundwater monitoring program were conducted in April and October 2006. The locations of the wells used for containment, water-level monitoring, and groundwater quality monitoring are presented on Figure 3-1.

3.1 WELL NETWORK STATUS

The site's well network consists of:

- Thirteen inactive production wells for water level measurement only;
- Two containment wells for groundwater containment and groundwater quality monitoring;
- Fifteen monitoring wells for water level measurement and groundwater quality monitoring;
- Six monitoring wells for water level measurement only; and
- One Ohio River water level measuring point.

The status of the well network is summarized in Table 3-1.

The two containment wells, SPIS-23 and SPIS-24 are connected to a remote monitoring system and are inspected at least weekly to monitor their performance throughout the year. Both wells were offline at some point during the year for maintenance or due to equipment malfunctions. SPIS-24 was offline from January 4, 2006 to February 6, 2006 due a pump motor failure and repair. Well pressure and production rates were monitored for both wells throughout the year.

3.2 WATER-LEVEL MEASUREMENTS

Groundwater levels were measured in April and October 2006 to determine the direction of groundwater flow. Static groundwater-level measurements were collected from the monitor well network during each sampling episode. An electronic water-level indicator was used to measure the distance between the surveyed measuring point and the groundwater surface. These measurements were subtracted from surveyed elevations to determine groundwater elevations which in turn were used to generate groundwater flow maps. Table 3-2 provides the water-level measurements and elevations collected during 2006.

3.3 GROUNDWATER SAMPLING

Prior to initiation of purging and sampling activities, static water levels were measured in all monitor wells as described above. Monitor wells were purged and sampled using an electrically-operated submersible pump. Production wells were purged and sampled while operating. Water sampling logs are provided in Appendix A.

The wells used for collection of groundwater samples are indicated on Table 3-1. Samples were submitted to Severn Trent Laboratories in Pittsburgh for the April event and Columbia Analytical Services in October, for laboratory analyses of ammonia, selected total metals (arsenic, beryllium, cadmium, copper, manganese, nickel), and nitrate/nitrite.

4.0 RESULTS

This section discusses the results of the field activities and laboratory analyses obtained for the 2006 groundwater monitoring program. The discussions include: groundwater flow; groundwater quality; extracted groundwater and contaminant mass; and hydraulic containment.

4.1 GROUNDWATER FLOW

Groundwater level data collected during 2006 are provided in Table 3-2. The groundwater elevation data from the two semi-annual monitoring events were used to generate water-table maps which show the direction of groundwater flow. Figures 4-1 and 4-2 show that the groundwater flow at the site is primarily to the southwest, toward the Ohio River and a groundwater depression is formed by the containment wells SPIS-23 and SPIS-24. The hydraulic gradient of the groundwater surface was 0.00225 and 0.00278 feet/feet in April and October 2006, respectively. Based on a hydraulic conductivity of 386 ft/day and an effective porosity of 0.2 (Geraghty & Miller, 1994), groundwater flow velocity was calculated to range from 4.8 to 5.8 ft/day.

4.2 GROUNDWATER QUALITY

Analytical results for the two semi-annual sampling events are provided in Table 4-1. Analytical data sheets are provided in Appendix B. Concentrations of ammonia, nitrate/nitrite, manganese, beryllium, cadmium, and copper were reported above their respective PS in groundwater collected during both sampling events. Arsenic and nickel concentrations were below the PS. Details of the exceedance are discussed below.

4.2.1 Ammonia

Although ammonia is present in many of the groundwater samples analyzed, it was detected above the site-specific PS of 30 milligrams per liter at four locations during 2006 (Table 4-1). These locations are:

- SPIS-24 30.8 mg/l in April
- SPMW-06R 35.1 mg/l in April; 39.9 mg/l in October
- SPMW-07 48.4 mg/l in April; 131.0 mg/l in October
- SPMW-09 37.6 mg/l in April; 36.7 mg/l in October

Figures 4-3 and 4-4 depict the aerial distribution of ammonia in groundwater at the Plant. Identified on these figures are the inferred extent of the ammonia plumes that exceed the PS of 30 mg/l. The plumes are confined upgradient of the two containment wells (SPIS-23 and SPIS-24). Figure 4-5 presents a comparison of ammonia concentration trends for selected wells since the monitoring program began in 2000. The 2006 monitoring results for ammonia show a general decline in concentration in most of the wells with the exception of a marked increase in monitor well SPMW-07. The data appears to represent the end of a four year period of decreasing ammonia concentrations in this well that began at the end of 2001, coincident with excavation and construction activities at the site[1]. The activities may have increased the permeability of surface soils resulting in additional recharge to the aquifer.

4.2.2 Nitrate/Nitrite

Although nitrate/nitrite is present in most of the groundwater samples analyzed, it was detected at or above the site-specific PS of 10 mg/l at six locations during 2006 (Table 4-1). These locations are:

- SPMW-02 17.8 mg/l in April
- SPIS-24 11.9 mg/l in April
- SPMW-06R 21.8 mg/l in April; 28.6 mg/l in October
- SPMW-07 24.9 mg/l in April; 38.4 mg/l in October
- SPMW-09 24.9 mg/l in October
- SPOB-12R2 14.4 mg/l in April

Figures 4-3 and 4-4 depict the aerial distribution of nitrate/nitrite in groundwater at the Plant. Identified on these figures is the inferred extent of the nitrate/nitrite plume that exceeds the 10 mg/l PS. The Mid-Plant Area plumes are confined upgradient of the two containment wells (SPIS-23 and SPIS-24). The most downgradient exceedance was at SPOB-12R2, which is in the immediate vicinity of SPIS-23. Nitrate/nitrite was detected at SPOB-12R2 at 14.4 mg/l in April and 9.17 mg/l in October. Nitrate/nitrite concentrations also exceeded the 10 mg/l standard in the October sampling event at SPMW-09, downgradient of Disposal Area D; however, the downgradient extent of this plume is expected to be limited.

[1]These activities include excavation of contaminated soils and the construction of the landfill by Honeywell in 2000-2001; and the road construction and redevelopment of the site by the Lawrence Economic Development Corporation, which is ongoing.

Figure 4-6 presents a comparison of nitrate/nitrite concentration trends for selected wells since the monitoring program began in 2000. The 2006 data shows that, in general, nitrate/nitrite concentrations increased in three of the monitoring wells and for the other wells there was a decrease or little change in nitrate/nitrite concentrations during the 2006 monitoring period. The most notable decline was observed in well SPMW-02, and the most notable increase was observed in well SPMW-07.

4.2.3 Manganese

Manganese was present in all groundwater samples analyzed during year 2006. However, it was detected at or above the site-specific PS of 1.4 mg/l at only two locations (Table 4-1). These locations are:

- SPMW-06R 2.9 mg/l in April; 3.8 mg/l in October
- SPMW-09 4.5 mg/l in April; 15.2 mg/l in October

Figures 4-3 and 4-4 depict the aerial distribution of manganese in groundwater at the Plant. These occurrences are consistent with previous sampling events. Figure 4-7 presents a comparison of manganese concentration trends for selected wells since the monitoring program began in 2000. Manganese concentrations appear to be stable or on a general decline except for SPMW-09 and SPMW-06R which have increased. Manganese concentrations in SPMW-09, fluctuated considerably during 2002, 2003, and 2004 following excavation activities at Disposal Area D. The current declining trend indicates that the affects of the excavation on the groundwater system may be waning, as seen in the ammonia data (Figure 4-5).

4.2.4 Beryllium

Beryllium was detected above the site-specific PS of 0.004 mg/l only once in 2006. The detection of 0.0055 mg/l occurred in October in SPMW-09 (Table 4-1). The pH of the water in SPMW-09 has historically been low. In April the pH was 4.16, and in October the pH was 3.47. The pH for the site generally ranges from 6.5 to 7.2. The contaminants in groundwater at SPMW-09 likely represent a small and separate plume which is pH dependent. Accordingly, as the plume migrates the pH is restored to neutral and it is believed that the concentrations of dissolved metals naturally decline.

4.2.5 Cadmium

Cadmium was detected above the site-specific PS of 0.005 mg/l once in 2006. The detection of 0.011 mg/l occurred in October in SPMW-09 (Table 4-1). As stated under Section 4.2.4, the groundwater pH in the area of SPMW-09 is normally lower than the general site, and it is believed that the concentration of cadmium declines below the PS a short distance from SPMW-09 as the pH adjusts.

4.2.6 Copper

Copper was not detected above the site-specific PS of 3.8 mg/l in any of the wells sampled in 2006.

4.3 EXTRACTED GROUNDWATER AND CONTAMINANT MASS

In-line cumulative flow meter readings show that a combined total of approximately 265 million gallons of groundwater were extracted by the containment wells SPIS-23 and SPIS-24 during the year 2006. Individual totals for SPIS-23 and SPIS-24 were approximately 81 million and 184 million gallons, respectively (Table 4-2).

Using the groundwater extraction information and the groundwater quality results, the mass of contaminants removed from the groundwater beneath the Plant can be calculated. The summarized calculations are provided in Table 4-3. The extracted mass of those contaminants of concern detected above PSs during the year 2006 are as follows:

- Ammonia - 19,506 kg;
- Nitrate/Nitrite - 8,536 kg; and
- Manganese - 328 kg.

4.4 HYDRAULIC CONTAINMENT

The feasibility study for the Plant (Geraghty & Miller, 1997) included a groundwater modeling simulation that demonstrated that pumping SPIS-23 and SPIS-24 would provide a capture zone capable of capturing the present day plume. This capture zone model was based on a pumping rate of 150 gpm for each extraction well. During 2006, SPIS-23 and SPIS-24 pumped at average rates of 154 GPM and 350 GPM, respectively. These pumping rates have been effective in containing the groundwater plumes as demonstrated by the analytical results discussed in Section 4.3.

5.0 NPDES DISCHARGE TRENDS

Groundwater from extraction wells and storm water runoff are combined and then discharged through an outfall to the Ohio River. This outfall is permitted under Ohio EPA NPDES, which details effluent limitations and monitoring requirements.

The site's NPDES permit is maintained and monitored by the Lawrence Economic Development Corporation. The 5-year permit (Number 0IN00088*DD) was renewed on May 1, 2003. The permit requires daily monitoring of the flow rate, monthly sampling for ammonia and nitrate concentrations, and semi-annual sampling for pH and acute toxicity at Outfall 007. This outfall is equipped with an automated monitoring system. There are currently no permit limits for ammonia and nitrate. The permitted range for pH is 6.5 to 9.0 standard units. The permit limit for acute toxicity is 3.1 acute toxicity units.

Discharge data for ammonia and nitrate/nitrite from January 1997 through December 2006 are provided in Table 5-1 and presented graphically on Figure 5-1. The data shows a general increase in ammonia concentrations during the middle portion of the year. Nitrate concentrations appear to follow a similar, but less pronounced trend.

6.0 SUMMARY AND RECOMMENDATIONS

Groundwater flow continues to be generally to the southwest toward the Ohio River. Ammonia and/or nitrate/nitrite were detected in groundwater samples above their respective PSs in a total of six monitoring wells. Beryllium, cadmium, and manganese were detected in an isolated occurrence above their respective PSs in monitor well SPMW-09. It is believed that these concentrations are pH dependent and that they are localized around SPMW-09. The two primary contaminant plumes are being captured by containment wells SPIS-23 and SPIS-24. Capture-zone models and inspection of groundwater flow maps support this. The present scope of groundwater monitoring should be continued for the year 2007.

Two water-level sampling points (SPIS-25 and SPIS-27) continue to not respond to changes in water levels as do other wells in the immediate area, yielding spurious water levels. The lack of change can be due to iron fouling or an accumulation of sediment in the borehole and or screen. Because of this, it is recommended that these sample points be removed from the list of monitoring points used for the collection of water levels. The loss of this data would not adversely affect the monitoring program.

7.0 REFERENCES

Geraghty & Miller, Inc., 1994. Remedial Investigation Report, South Point Plant Site, South Point, Ohio. Unpublished Consultant's Report.

Geraghty & Miller, Inc., 1997. Final South Point Feasibility Study, South Point, Ohio. Unpublished Consultant's Report.

Parsons Engineering Science, Inc., 1998. Remedial Design Workplan, South Point Superfund Site, South Point, Ohio. Unpublished Consultant's Report.

Parsons Engineering Science, Inc., 2001. Final Design Report, South Point Superfund Site, South Point, Ohio. Unpublished Consultant's Report.

United States Environmental Protection Agency, 1997. Record of Decision (ROD), Allied Signal South Point Plant Site, South Point, Ohio.

TABLES

TABLES

Table 2-1
Constituents of Concern and Groundwater Performance Standards
South Point Plant Superfund Site
South Point, Ohio

Constituents of Concern	Performance Standard (mg/l)
Arsenic	0.05
Beryllium	0.004
Cadmium	0.005
Copper	3.8
Manganese	1.4
Nickel	2.0
Ammonia (as Nitrogen)	30
Nitrate/Nitrite	10

Table 3-1
Well Status
South Point Plant Superfund Site
South Point, Ohio

Name	Well Type	Water Levels	Water Quality
Cassion	River Level Measuring Point	Yes	
SPIS-01	Inactive Production	Yes	
SPIS-02	Inactive Production	Yes	
SPIS-05	Inactive Production	Yes	
SPIS-06	Inactive Production	Yes	
SPIS-10	Inactive Production	Yes	
SPIS-15	Inactive Production	Yes	
SPIS-15A	Inactive Production	Yes	
SPIS-18	Inactive Production	Yes	
SPIS-22	Inactive Production	Yes	
SPIS-23*	Containment		Yes
SPIS-24*	Containment		Yes
SPIS-25	Inactive Production	Yes**	
SPIS-26	Inactive Production	Yes	
SPIS-27	Inactive Production	Yes**	
SPIS-28	Inactive Production	Yes	
SPMW-01	Monitor	Yes	Yes
SPMW-02	Monitor	Yes	Yes
SPMW-03	Monitor	Yes	Yes
SPMW-04	Monitor	Yes	Yes
SPMW-05	Monitor	Yes	Yes
SPMW-06R	Monitor	Yes	Yes
SPMW-07	Monitor	Yes	Yes
SPMW-08	Monitor	Yes	Yes
SPMW-09	Monitor	Yes	Yes
SPMW-10R	Monitor	Yes	Yes
SPMW-11R	Monitor	Yes	Yes
SPMW-12	Monitor	Yes	Yes
SPMW-13	Monitor	Yes	Yes
SPOB-12R2	Observation	Yes	Yes
SPOB-15R2	Observation	Yes	
SPOB-17R	Observation	Yes	
SPOB-18R	Observation	Yes	
SPOB-26	Observation	Yes	
SPOB-29	Observation	Yes	
SPOB-34	Observation	Yes	Yes
T2-B	Piezometer	Yes	

* Active Production Well.
** Water Levels from these wells are anomalous.

Table 3-2
Depth to Groundwater and Calculated Groundwater Elevation
South Point Superfund Site
South Point, Ohio

Name	Depth-To-Water		Water Level Elevation	
	4/10/2006	10/23/2006	4/10/2006	10/23/2006
Caisson	32.90	31.90	517.39	518.39
SPIS-01	43.22	43.60	518.27	517.89
SPIS-02	43.03	44.35	518.58	517.26
SPIS-05	43.89	44.16	518.42	518.15
SPIS-06	49.05	49.12	518.10	518.03
SPIS-10	44.37	44.64	521.20	520.93
SPIS-15	43.43	43.50	520.82	520.75
SPIS-15A	36.74	36.43	523.97	524.28
SPIS-18	37.84	37.10	522.35	523.09
SPIS-22	46.27	46.04	518.08	518.31
SPIS-25*	46.74	46.20	525.63	526.17
SPIS-26	46.13	46.82	523.05	522.36
SPIS-27*	49.51	48.82	522.49	523.78
SPIS-28	46.39	46.50	517.75	517.64
SPMW-01	36.35	37.14	527.55	526.76
SPMW-02	47.33	48.08	521.70	520.95
SPMW-03	43.96	44.46	519.12	518.62
SPMW-04	48.91	48.83	517.86	517.94
SPMW-05	61.11	61.90	522.55	521.76
SPMW-06R	72.02	72.80	523.76	522.98
SPMW-07	43.50	44.10	519.18	518.58
SPMW-08	42.38	42.90	523.11	522.59
SPMW-09	40.32	40.27	524.33	524.38
SPMW-10R	67.71	68.52	524.47	523.66
SPMW-11R	49.82	50.11	516.53	516.24
SPMW-12	48.54	48.80	517.54	517.28
SPMW-13	48.07	48.14	517.84	517.77
SPOB-12R2	49.92	50.08	518.07	517.91
SPOB-15R2	44.92	44.81	518.63	518.74
SPOB-17R	32.28	34.88	521.01	518.41
SPOB-18R	34.82	34.58	517.54	517.78
SPOB-26	34.67	34.18	520.54	521.03
SPOB-29	43.43	43.55	520.17	520.05
SPOB-34	47.38	47.55	517.70	517.53
T2-B	17.60	18.05	525.30	524.85

* Recommended for deletion from the water level monitoring list because of spurious readings during each monitoring period.

Prepared by: JLK 1/19/07
Reviewed by: MT 2/28/07

Table 4-1
2006 Groundwater Monitoring Results
South Point Plant Superfund Site
South Point, Ohio

Location			Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network
Sample Name			SPIS-23	SPIS-23	SPIS-24	SPIS-24-DUPLICA	SPIS-24	SPIS-24 DUPLICA	SPMW-01	SPMW-01
Sample Date			4/11/2006	10/25/2006	4/12/2006	4/12/2006	10/25/2006	10/25/2006	4/11/2006	10/24/2006
Sample Type			Industrial Supply Well	Industrial Supply Well	Industrial Supply Well	Industrial Supply Well	Industrial Supply Well	Industrial Supply Well	Monitor Well	Monitor Well
Media			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Laboratory	Concentration	PS	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services
Lab ID	Units	MG/L	C5D280128011	C5J200402008	C5D280128012	C5D280128013	C5J200402009	C5J200402010	C5D280128001	C5J190360001
Arsenic	MG/L	0.05	J .0032	0.0021	< 0.01	< 0.01	0.0012	0.0012	< 0.01	< 0.001
Beryllium	MG/L	0.004	< .005	< .005	J .00045	B .00046	< .001	< 0.001	< .005	< 0.005
Cadmium	MG/L	0.005	< .005	< .001	< .005	< .005	< .001	< 0.001	< .00081	< 0.001
Copper	MG/L	3.8	< .025	< .001	B .012	J .0073	0.239	0.0175	< .025	< 0.001
Manganese	MG/L	1.4	0.257	0.266	0.338	0.39	0.371	0.356	J .0137	0.0166
Nickel	MG/L	2	J .0045	0.0088	J .0037	J .005	0.121	0.0111	J .004	0.0071
Ammonia as Nitrogen	MG/L	30	0.42	0.57	**30.8**	**30.1**	**24.8**	**24.3**	J .17	< 0.05
Nitrate/Nitrite	MG/L	10	3.6	3.05	**11.9**	**10.6**	9.66	9.73	2.1	1.77

Location			Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network
Sample Name			SPMW-02	SPMW-02	SPMW-03	SPMW-03	SPMW-04	SPMW-04	SPMW-05	SPMW-05
Sample Date			4/11/2006	10/24/2006	4/11/2006	10/25/2006	4/12/2006	10/25/2006	4/11/2006	10/24/2006
Sample Type			Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well
Media			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Laboratory	Concentration	PS	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services
Lab ID	Units	MG/L	C5D280128007	C5J200402004	C5D280128010	C5J200402007	C5D280128019	C5J200402015	C5D280128002	C5J190360002
Arsenic	MG/L	0.05	< 0.01	< .001	< 0.01	< .001	< 0.01	< .001	< 0.01	0.001
Beryllium	MG/L	0.004	< .005	< .001	< .005	< .001	J .00058	< .005	< .005	< .005
Cadmium	MG/L	0.005	< .00045	< .001	< .005	< .001	< .005	< .001	< .005	< .001
Copper	MG/L	3.8	J .0012	0.0012	< .00029	< .001	< .025	0.0013	< .025	0.003
Manganese	MG/L	1.4	0.559	0.153	0.328	0.0581	0.0274	0.0228	0.017	0.0439
Nickel	MG/L	2	J .0027	0.0048	J .0121	0.0052	J .0049	0.006	J .003	0.0237
Ammonia as Nitrogen	MG/L	30	J .68	0.05	J 0.05	0.154	J 0.06	< 0.05	J .06	< 0.05
Nitrate/Nitrite	MG/L	10	**17.8**	3.89	2.5	3.14	2.7	3.68	J 3	2.44

Location			Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network
Sample Name			SPMW-06R	SPMW-06R	SPMW-07	SPMW-07-DUPLICA	SPMW-07	SPMW-07 DUPLICA	SPMW-08	SPMW-08
Sample Date			4/12/2006	10/24/2006	4/11/2006	4/11/2006	10/25/2006	10/25/2006	4/11/2006	10/24/2006
Sample Type			Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well
Media			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Laboratory	Concentration	PS	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services
Lab ID	Units	MG/L	C5D280128004	C5J200402001	C5D280128008	C5D280128009	C5J200402005	C5J200402006	C5D280128005	C5J200402002
Arsenic	MG/L	0.05	< 0.01	0.0044	< 0.01	< 0.01	< .001	< .001	< 0.01	< .001
Beryllium	MG/L	0.004	< .005	< .005	< .005	< .005	< .001	< .001	< .005	< .001
Cadmium	MG/L	0.005	< .005	< .001	< .00054	< .00056	< .001	< .001	< .005	< .001
Copper	MG/L	3.8	J .001	0.004	J .0025	J .0024	0.0023	0.0038	< .025	0.0013
Manganese	MG/L	1.4	2.89	3.84	0.474	0.463	0.407	0.391	1.34	1.35
Nickel	MG/L	2	J .0156	0.0372	J .0033	J .0032	0.008	0.0082	J 0.0055	0.0122
Ammonia as Nitrogen	MG/L	30	**35.1**	**39.9**	**48.4**	**44.7**	**130**	**131**	0.26	0.172
Nitrate/Nitrite	MG/L	10	**21.8**	**28.6**	**24.9**	**23.5**	**38.4**	**38.4**	J 0.05	0.23

Qualifiers preceding the value are flags determined by the lab. Qualifiers following the value are designated upon in-house validation.

<	Not detected.
Bold Concentrations	Represent values above PS.
PS	Preliminary Remedial Goals.
B	Estimated. (preceding value).
J	Estimated. (following value).

Prepared by: JLK 1/31/07
Reviewed by: CK 2/15/07

Table 4-1
2006 Groundwater Monitoring Results
South Point Plant Superfund Site
South Point, Ohio

Location			Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network
Sample Name			SPMW-09	SPMW-09	SPMW-10R	SPMW-10R	SPMW-11R	SPMW-11R	SPMW-12	SPMW-12
Sample Date			4/12/2006	10/24/2006	4/11/2006	10/24/2006	4/12/2006	10/25/2006	4/12/2006	10/25/2006
Sample Type			Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well
Media			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Laboratory	Concentration	PS	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services
Lab ID	Units	MG/L	C5D280128006	C5J200402003	C5D280128003	C5J190360003	C5D280128016	C5J200402012	C5D280128017	C5J200402013
Arsenic	MG/L	0.05	< 0.01	< .001	< 0.01	0.0018	J .0018	< .001	< 0.01	0.001
Beryllium	MG/L	0.004	J .0025	**0.0055**	J .0011	< .005	J .00058	< .005	J .00034	< .001
Cadmium	MG/L	0.005	J .0033	**0.011**	< .0017	0.0011	< .005	< .001	< .005	< .001
Copper	MG/L	3.8	0.448	2.52	J .0016	0.0052	< .025	0.0017	< .025	0.0016
Manganese	MG/L	1.4	**4.46**	**15.2**	0.496	0.585	0.0757	0.0562	0.0323	0.0735
Nickel	MG/L	2	0.225	0.682	0.0674	0.0727	J .0219	0.0196	J .0109	0.0118
Ammonia as Nitrogen	MG/L	30	**37.6**	**36.7**	< 0.01	< .005	0.49	0.053	0.5	0.4
Nitrate/Nitrite	MG/L	10	8.8	**24.9**	2.4	2.06	2.5	2.69	6	3.58

Location			Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network	Monitoring Network
Sample Name			SPMW-13	SPMW-13	SPOB-12R2	SPOB-12R2	SPOB-34	SPOB-34
Sample Date			4/12/2006	10/25/2006	4/12/2006	10/25/2006	4/12/2006	10/25/2006
Sample Type			Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well	Monitor Well
Media			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Laboratory	Concentration	PS	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services	Columbia Analytical Services
Lab ID	Units	MG/L	C5D280128018	C5J200402014	C5D280128015	C5J200402011	C5D280128014	C5J200402016
Arsenic	MG/L	0.05	< 0.01	< .001	< 0.01	< .001	0.0116	0.0104
Beryllium	MG/L	0.004	J .00058	< .001	J .00046	< .001	J .00041	< .001
Cadmium	MG/L	0.005	< .005	< .001	< .005	< .001	< .005	< .001
Copper	MG/L	3.8	J .00054	< .001	< .025	0.002	< .025	0.0011
Manganese	MG/L	1.4	0.267	0.246	0.048	0.0789	0.389	0.409
Nickel	MG/L	2	< .04	0.0033	J .0131	0.0173	J .0027	0.0107
Ammonia as Nitrogen	MG/L	30	0.12	< 0.05	2.4	1.5	1.4	0.768
Nitrate/Nitrite	MG/L	10	0.49	1.14	**14.4**	9.17	< 0.1	< 0.05

<	Not detected.
Bold Concentrations	*Represent values above PS.*
PS	Performance Standards.
J	Estimated results are less than the reporting limit.

Prepared by: JLK 1/31/07
Reviewed by: CK 2/15/07

Table 4-2
Extracted Groundwater Volume for 2006
South Point Superfund Site
South Point, Ohio

Date	SPIS-23 Pressure (PSI)	SPIS-23 Flow Rate (GPM)	SPIS-23 Cumulative Flow Reading (Gal.)	SPIS-24 Pressure (PSI)	SPIS-24 Flow Rate (GPM)	SPIS-24 Cumulative Flow (Gal.)
1/1/2006	10	204	176,789,000	0	0	902,705,000
2/2/2006	18	150	187,826,000	62	420	903,424,000
3/3/2006	19	149	192,477,000	61	412	915,885,000
4/6/2006	18	150	199,937,000	62	414	936,564,000
5/4/2006	15	120	205,760,000	62	416	952,440,000
6/1/2006	12	160	212,072,000	62	409	972,866,000
7/6/2006	15	152	220,048,000	62	407	989,871,000
8/3/2006	9	157	225,104,000	62	400	1,001,613,000
9/7/2006	9	150	232,842,000	62	402	1,021,999,000
10/5/2006	9	150	239,373,000	62	400	1,039,272,000
11/3/2006	9	155	245,589,000	63	404	1,055,623,000
12/1/2006	9	150	251,963,000	65	399	1,071,648,000
12/31/2006	9	151	257,560,000	65	401	1,086,605,000
Annual Flow (Gallons)			**80,771,000**			**183,900,000**
Average Flow (GPM)			**154**			**350**
Annual System Flow (Gallons)			**264,671,000**			

GPM = gallons per minute
PSI = pounds per square inch

Prepared by: EG 1/25/06
Reviewed by: JLK 3/2/07

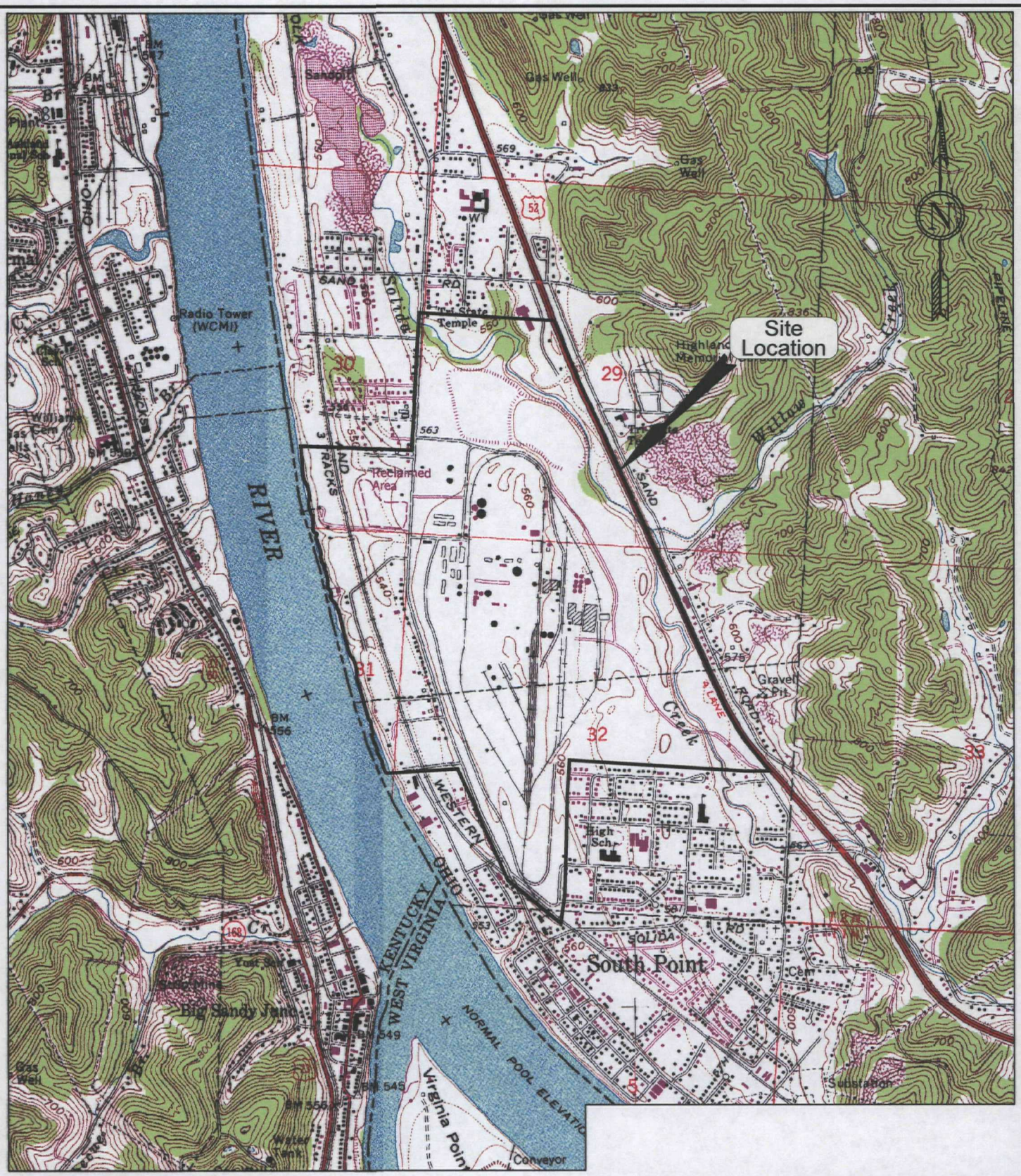
Table 4-3
Extracted Contaminant Mass during Year 2006
South Point Plant Superfund Site
South Point, Ohio

Well ID and Contaminant	Contaminant Concentrations (mg/l)			Extracted Groundwater Volume (gallons)	Extracted Contaminant Mass (Kg)
	Apr-06	Oct-06	Average		
SPIS-23					
Ammonia as Nitrogen	0.42	0.57	0.495	81,967,000	154
Nitrate/Nitrite	3.6	3.05	3.325	81,967,000	1,032
Manganese	0.257	0.266	0.2615	81,967,000	81
SPIS-24					
Ammonia as Nitrogen	30.8	24.8	30.45	183,900,000	19,353
Nitrate/Nitrite	11.9	9.66	10.78	183,900,000	7,504
Manganese	0.338	0.371	0.3545	183,900,000	247
TOTALS					
Ammonia as Nitrogen					**19,507**
Nitrate/Nitrite					**8,536**
Manganese					**328**

1 gallon = 3.78541 liters
Concentration (mg/l) * Conversion (l/gal) * Volume (gal) * Conversion (kg/mg)

FIGURES

FIGURES



Taken from the Catlettsburg, Kentucky, 7.5 Series U.S.G.S. Topographic Quadrangle Map

SCALE (FT)

24,000 0 24,000

DESIGNED BY	JK	8/25/06
DRAWN BY	DP	8/25/06
CHKD. BY	BW	8/25/06

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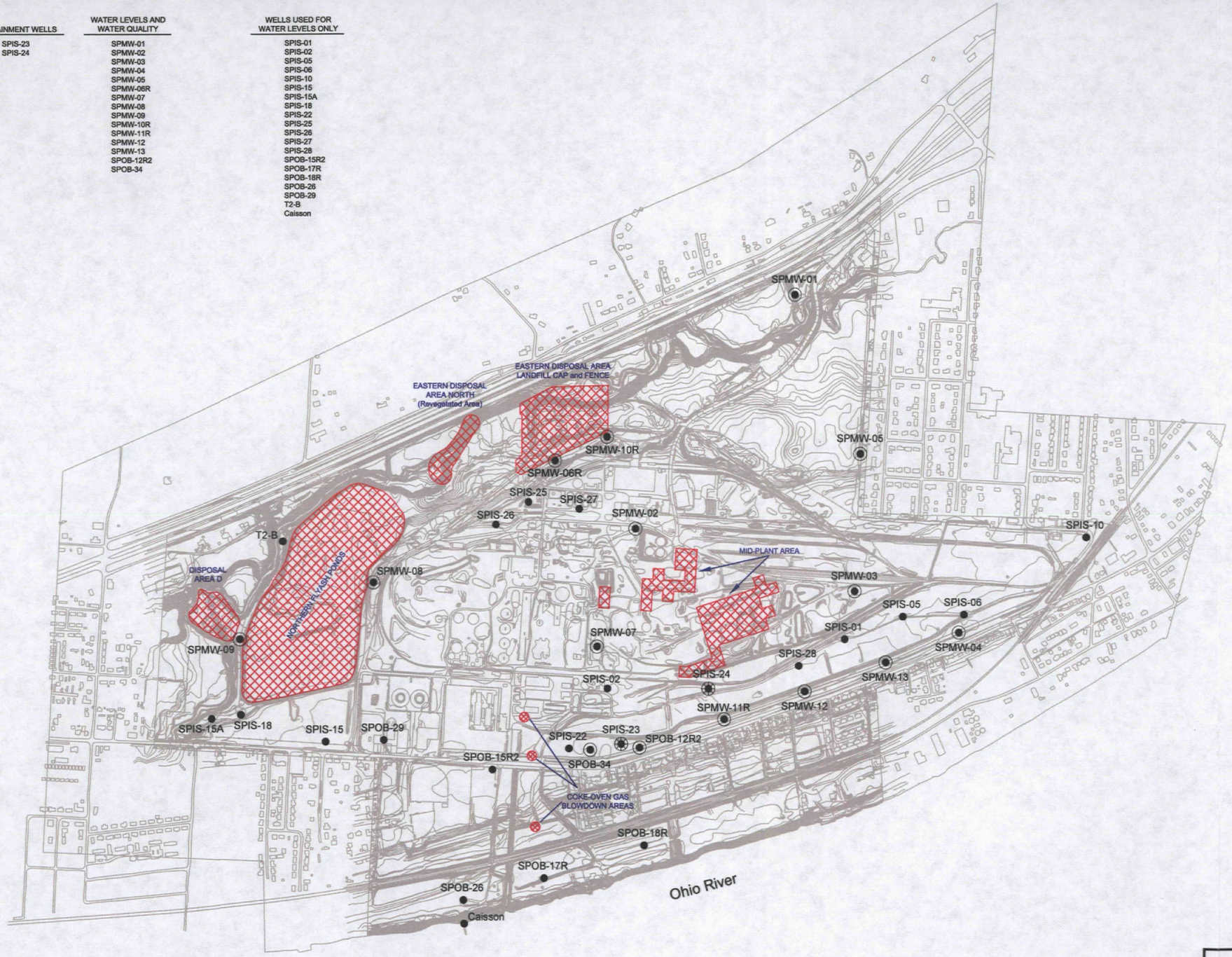
FIGURE 2-1

SITE LOCATION
SOUTHPOINT PLANT SUPERFUND SITE
SOUTHPOINT, OHIO

CONTAINMENT WELLS	WATER LEVELS AND WATER QUALITY	WELLS USED FOR WATER LEVELS ONLY
SPIS-23	SPMW-01	SPIS-01
SPIS-24	SPMW-02	SPIS-02
	SPMW-03	SPIS-05
	SPMW-04	SPIS-06
	SPMW-05	SPIS-10
	SPMW-06R	SPIS-15
	SPMW-07	SPIS-15A
	SPMW-08	SPIS-18
	SPMW-09	SPIS-22
	SPMW-10R	SPIS-25
	SPMW-11R	SPIS-26
	SPMW-12	SPIS-27
	SPMW-13	SPIS-28
	SPOB-12R2	SPOB-15R2
	SPOB-34	SPOB-17R
		SPOB-18R
		SPOB-26
		SPOB-29
		T2-B
		Caisson

Legend



Legend

Areas Subject to Inspection and Maintenance

Groundwater Containment System

- Containment Wells
- Wells Used for Water Levels and Water Quality
- Wells Used for Water Levels Only

SCALE (FT)

1000 0 500 1000

DESIGNED BY	DP	3/9/07
DRAWN BY	DP	3/9/07
CHKD. BY	MT	3/9/07

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FIGURE 3-1

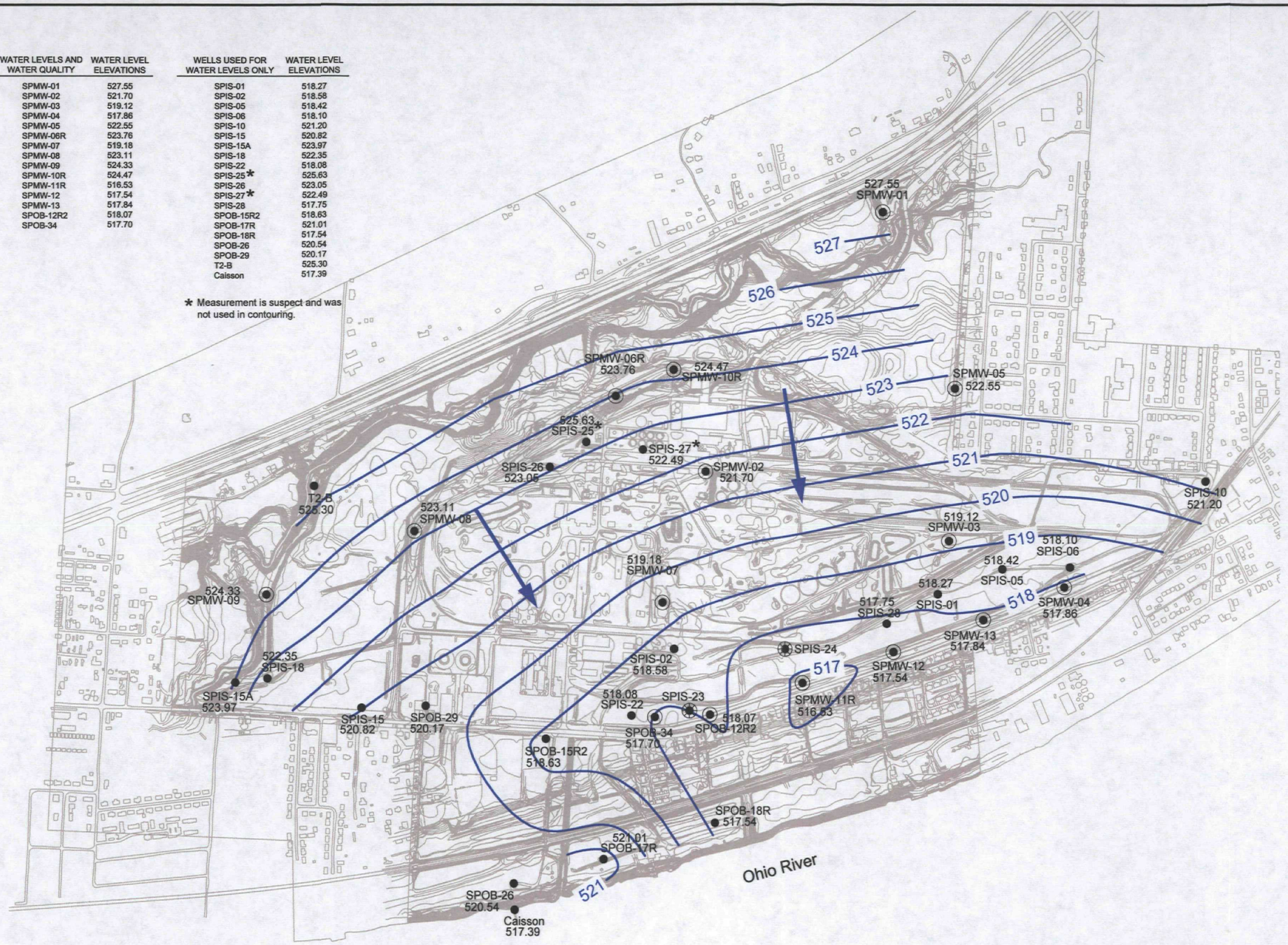
MONITORING AND CONTAINMENT WELL LOCATIONS
SOUTH POINT PLANT SUPERFUND SITE
SOUTH POINT, OHIO

P:\INDUSTRIAL PROJECTS\Honeywell\IRONTON TAR\South Point\4.0 Project Deliverables\4.1 Reports\Annual06DraftRpt\FIG 3-1.dwg Tue, 08 May 2007 - 11:26am dpass

WATER LEVELS AND WATER QUALITY	WATER LEVEL ELEVATIONS
SPMW-01	527.55
SPMW-02	521.70
SPMW-03	519.12
SPMW-04	517.86
SPMW-05	522.55
SPMW-06R	523.76
SPMW-07	519.18
SPMW-08	523.11
SPMW-09	524.33
SPMW-10R	524.47
SPMW-11R	516.53
SPMW-12	517.54
SPMW-13	517.84
SPOB-12R2	518.07
SPOB-34	517.70

WELLS USED FOR WATER LEVELS ONLY	WATER LEVEL ELEVATIONS
SPIS-01	518.27
SPIS-02	518.58
SPIS-05	518.42
SPIS-06	518.10
SPIS-10	521.20
SPIS-15	520.82
SPIS-15A	523.97
SPIS-18	522.35
SPIS-22	518.08
SPIS-25*	525.63
SPIS-26	523.05
SPIS-27*	522.49
SPIS-28	517.75
SPOB-15R2	518.63
SPOB-17R	521.01
SPOB-18R	517.54
SPOB-26	520.54
SPOB-29	520.17
T2-B	525.30
Caisson	517.39

* Measurement is suspect and was not used in contouring.



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CHKD. BY	MT	3/9/07

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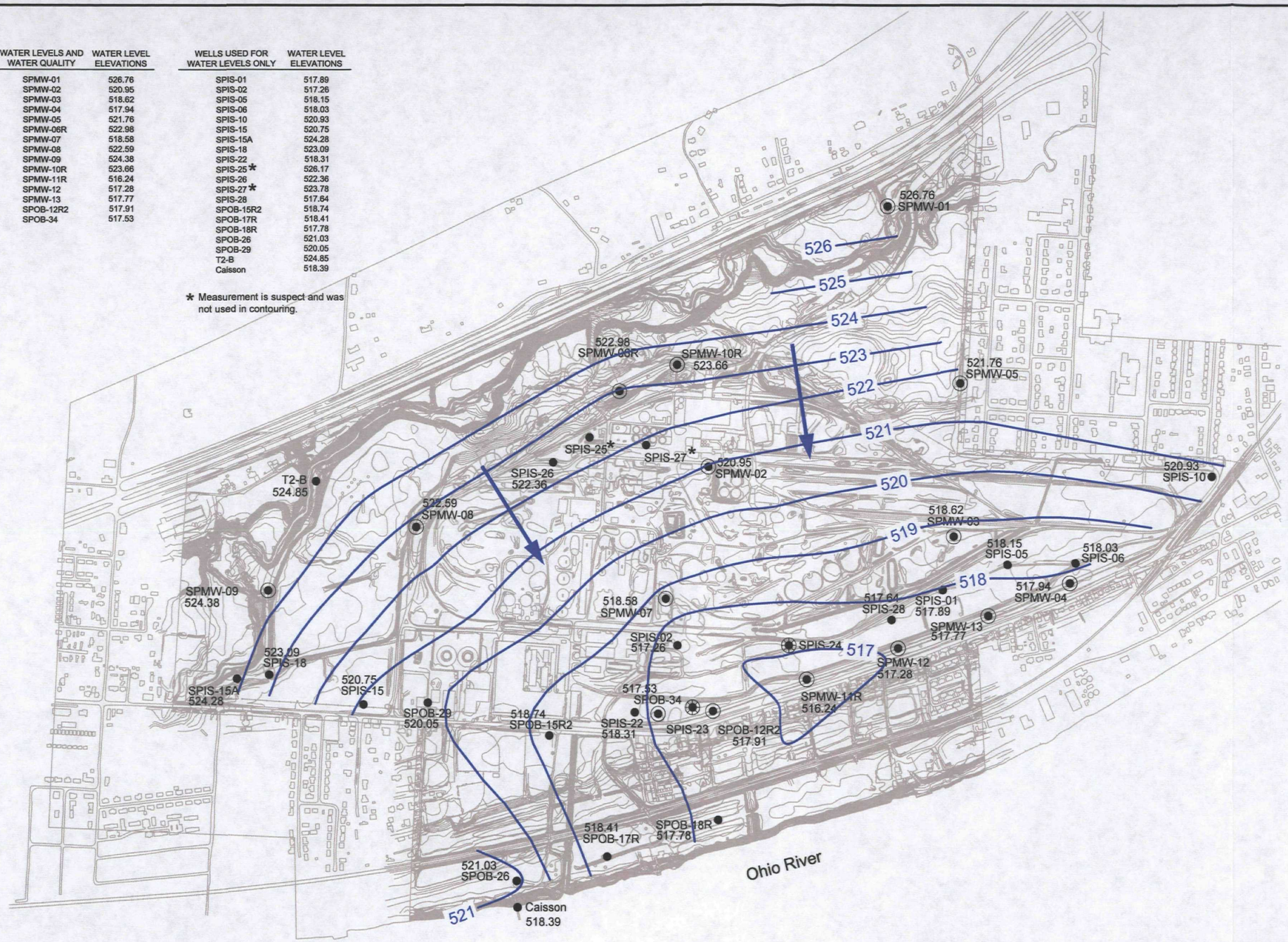
FIGURE 4-1
GROUNDWATER FLOW MAP
APRIL 2006
SOUTH POINTPLANT SUPERFUND SITE
SOUTH POINT, OHIO

P:\INDUSTRIAL PROJECTS\Honeywell\IRONTON TAR\South Point\4.0 Project Deliverables\4.1 Reports\Annual06DraftRpt\FIG 4-1.dwg Tue, 08 May 2007 - 11:25am dpass

WATER LEVELS AND WATER QUALITY	WATER LEVEL ELEVATIONS
SPMW-01	526.76
SPMW-02	520.95
SPMW-03	518.62
SPMW-04	517.94
SPMW-05	521.76
SPMW-06R	522.98
SPMW-07	518.58
SPMW-08	522.59
SPMW-09	524.38
SPMW-10R	523.66
SPMW-11R	516.24
SPMW-12	517.28
SPMW-13	517.77
SPOB-12R2	517.91
SPOB-34	517.53

WELLS USED FOR WATER LEVELS ONLY	WATER LEVEL ELEVATIONS
SPIS-01	517.89
SPIS-02	517.26
SPIS-05	518.15
SPIS-06	518.03
SPIS-10	520.93
SPIS-15	520.75
SPIS-15A	524.28
SPIS-18	523.09
SPIS-22	518.31
SPIS-25 *	526.17
SPIS-26	522.36
SPIS-27 *	523.78
SPIS-28	517.64
SPOB-15R2	518.74
SPOB-17R	518.41
SPOB-18R	517.78
SPOB-26	521.03
SPOB-29	520.05
T2-B	524.85
Caisson	518.39

* Measurement is suspect and was not used in contouring.



Legend

- Containment Wells
- Wells Used for Water Levels and Water Quality
- Wells Used for Water Levels Only

Water level data collected October 10, 2006

Groundwater Flow Direction

—516— Elevation of water table (feet above msl)

SCALE (FT)

900 0 450 900

DESIGNED BY	DP	3/9/07
DRAWN BY	DP	3/9/07
CHKD. BY	MT	3/9/07

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FIGURE 4-2

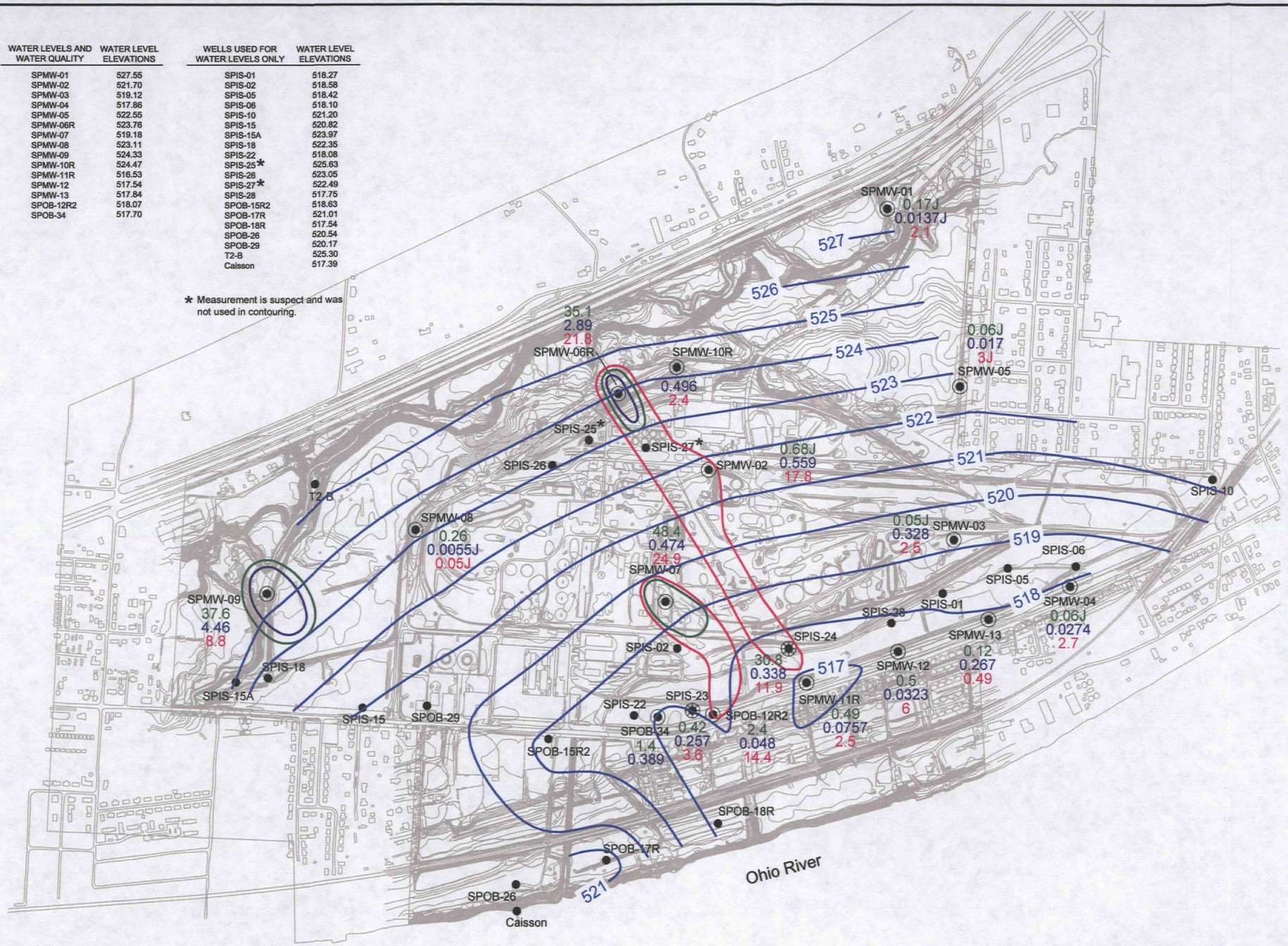
GROUNDWATER FLOW MAP
OCTOBER 2006
SOUTH POINTPLANT SUPERFUND SITE
SOUTH POINT, OHIO

P:\INDUSTRIAL PROJECTS\Honeywell\IRONTON TAP\South Point\4.0 Project Deliverables\4.1 Reports\Annual06DraftRpt\FIG 4-2.dwg Tue, 08 May 2007 - 11:25am dpass

WATER LEVELS AND WATER QUALITY	WATER LEVEL ELEVATIONS
SPMW-01	527.55
SPMW-02	521.70
SPMW-03	519.12
SPMW-04	517.86
SPMW-05	522.55
SPMW-06R	523.76
SPMW-07	519.18
SPMW-08	523.11
SPMW-09	524.33
SPMW-10R	524.47
SPMW-11R	516.53
SPMW-12	517.54
SPMW-13	517.84
SPOB-12R2	518.07
SPOB-34	517.70

WELLS USED FOR WATER LEVELS ONLY	WATER LEVEL ELEVATIONS
SPIS-01	518.27
SPIS-02	518.58
SPIS-05	518.42
SPIS-06	518.10
SPIS-10	521.20
SPIS-15	520.82
SPIS-15A	523.97
SPIS-18	522.35
SPIS-22	518.08
SPIS-25*	525.63
SPIS-26	523.05
SPIS-27*	522.49
SPIS-28	517.75
SPOB-15R2	518.63
SPOB-17R	521.01
SPOB-18R	517.54
SPOB-26	520.54
SPOB-29	520.17
T2-B	525.30
Caisson	517.39

* Measurement is suspect and was not used in contouring.



Legend

- Containment Wells
- Wells Used for Water Levels and Water Quality
- Wells Used for Water Levels Only

Water level data collected April 21, 2006

- 516 — Elevation of water table (feet above msl)
- Ammonia Plume - 30 mg/L
- Manganese Plume - 1.4 mg/L
- Nitrate Plume - 10 mg/L

1.1	Ammonia Concentrations in mg/L
0.23	Manganese Concentrations in mg/L
3.2	Nitrate Concentrations in mg/L

SCALE (FT)
900 0 450 900

DESIGNED BY	DP	3/9/07
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CHKD. BY	MT	3/9/07

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FIGURE 4-3
GROUNDWATER PLUME GEOMETRY
APRIL 2006
SOUTH POINTPLANT SUPERFUND SITE
SOUTH POINT, OHIO

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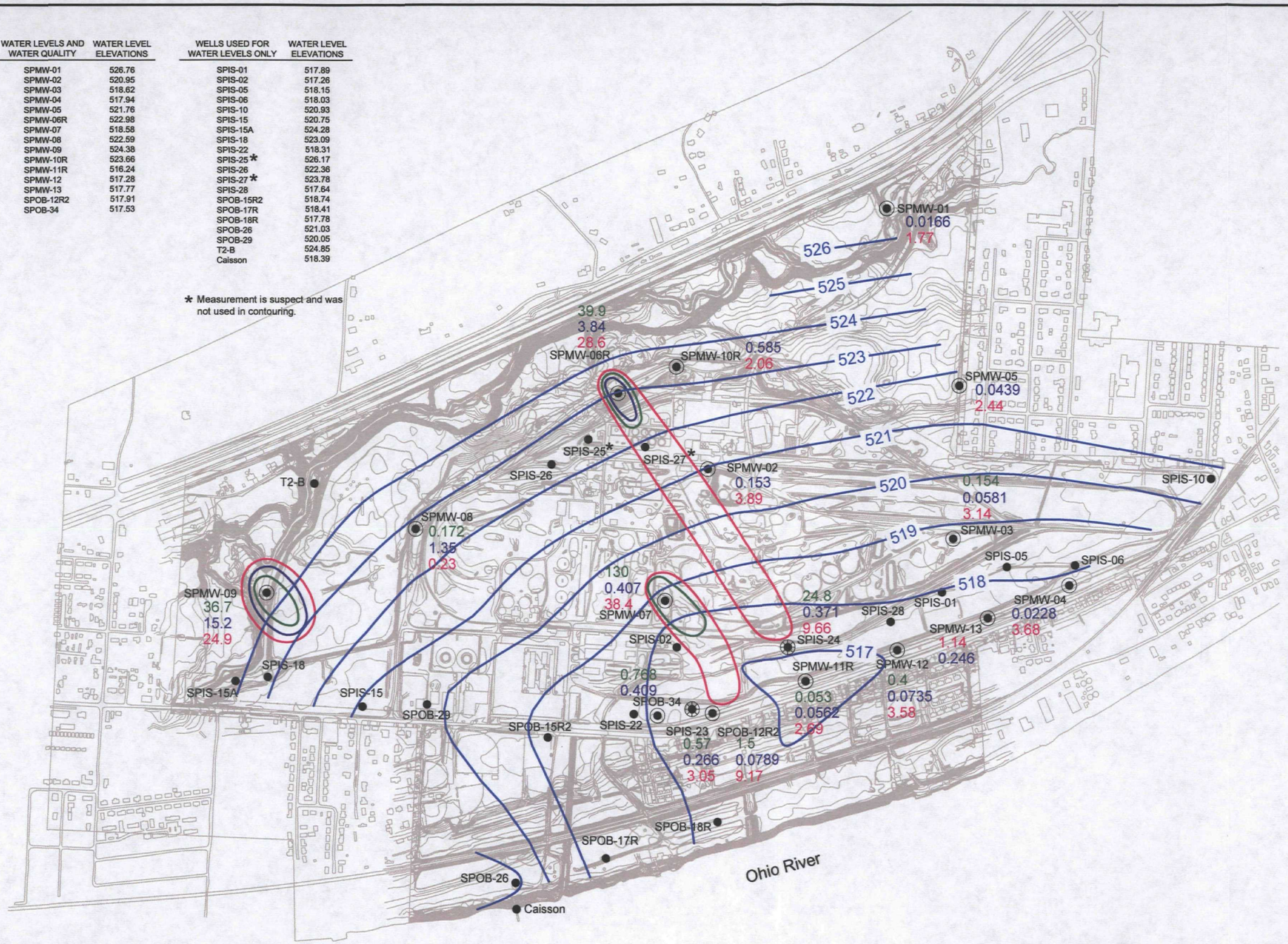
WATER LEVELS AND WATER QUALITY	WATER LEVEL ELEVATIONS
SPMW-01	526.76
SPMW-02	520.95
SPMW-03	518.62
SPMW-04	517.94
SPMW-05	521.76
SPMW-06R	522.98
SPMW-07	518.58
SPMW-08	522.59
SPMW-09	524.38
SPMW-10R	523.66
SPMW-11R	516.24
SPMW-12	517.28
SPMW-13	517.77
SPOB-12R2	517.91
SPOB-34	517.53

WELLS USED FOR WATER LEVELS ONLY	WATER LEVEL ELEVATIONS
SPIS-01	517.89
SPIS-02	517.26
SPIS-05	518.15
SPIS-06	518.03
SPIS-10	520.93
SPIS-15	520.75
SPIS-15A	524.28
SPIS-18	523.09
SPIS-22	518.31
SPIS-25*	526.17
SPIS-26	522.36
SPIS-27*	523.78
SPIS-28	517.64
SPOB-15R2	518.74
SPOB-17R	518.41
SPOB-18R	517.78
SPOB-26	521.03
SPOB-29	520.05
T2-B	524.85
Caisson	518.39

* Measurement is suspect and was not used in contouring.



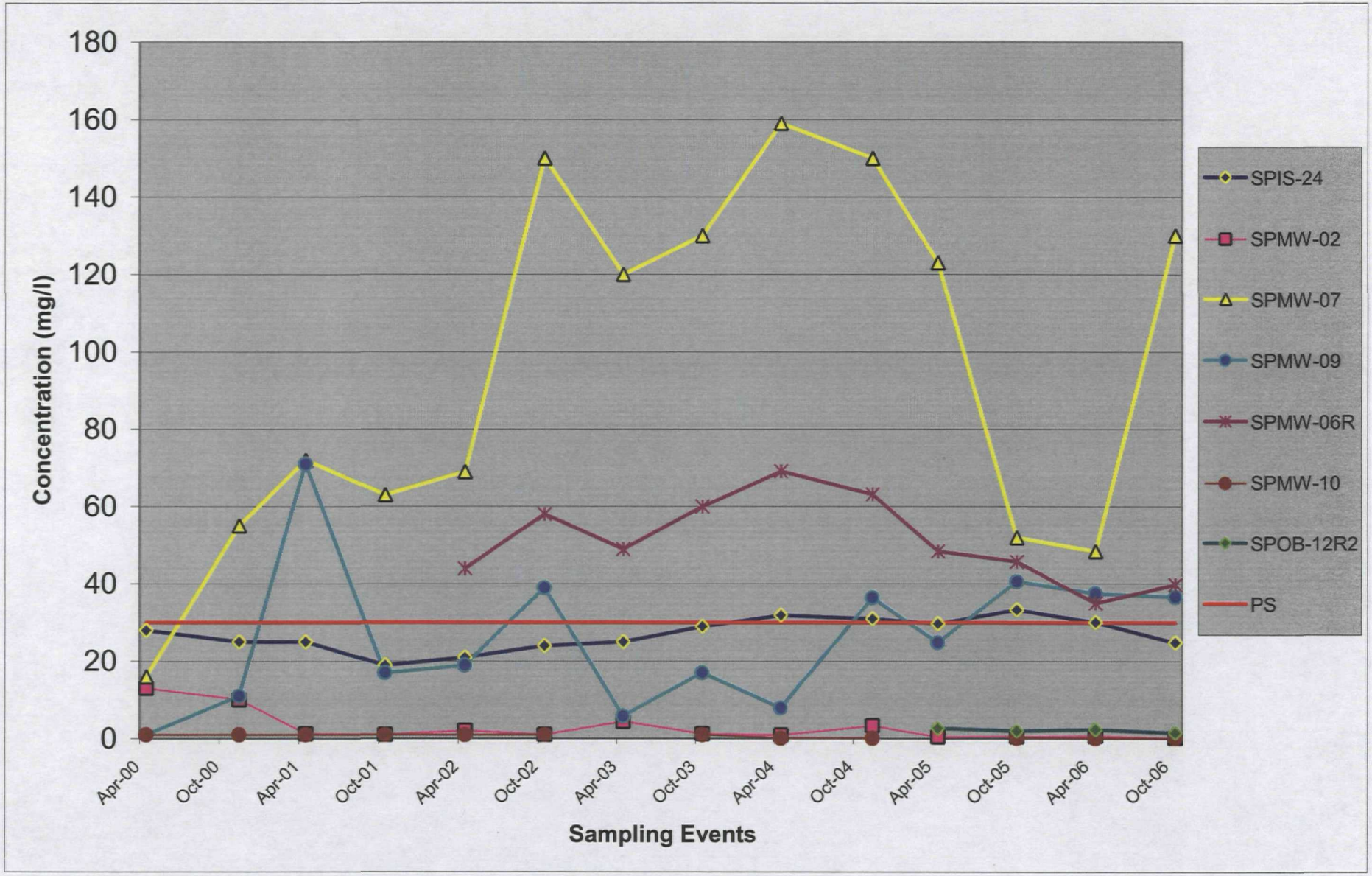
DESIGNED BY	DP	3/9/07
DRAWN BY	DP	3/9/07
CHKD. BY	MT	3/9/07

MACTEC
46850 Magellan Drive, Suite 190
Novi, MI 48377

FIGURE 4-4
GROUNDWATER PLUME GEOMETRY
OCTOBER 2006
SOUTH POINTPLANT SUPERFUND SITE
SOUTH POINT, OHIO

P:\INDUSTRIAL PROJECTS\Honeywell\IRONTON TARP\South Point\4.0 Project Deliverables\4.1 Reports\Annual06\Draft\Rpt\Fig 4-4.dwg Tue, 08 May 2007 - 11:24am dpass

Figure 4-5
Ammonia Trends in Groundwater
South Point Superfund Site
South Point, Ohio



MACTEC Engineering and Consulting, Inc.

Prepared by:JLK 3/2/07
Reviewed by: SGC 4/10/07

Figure 4-6
Nitrate/Nitrite Trends in Groundwater
South Point Superfund Site
South Point, Ohio

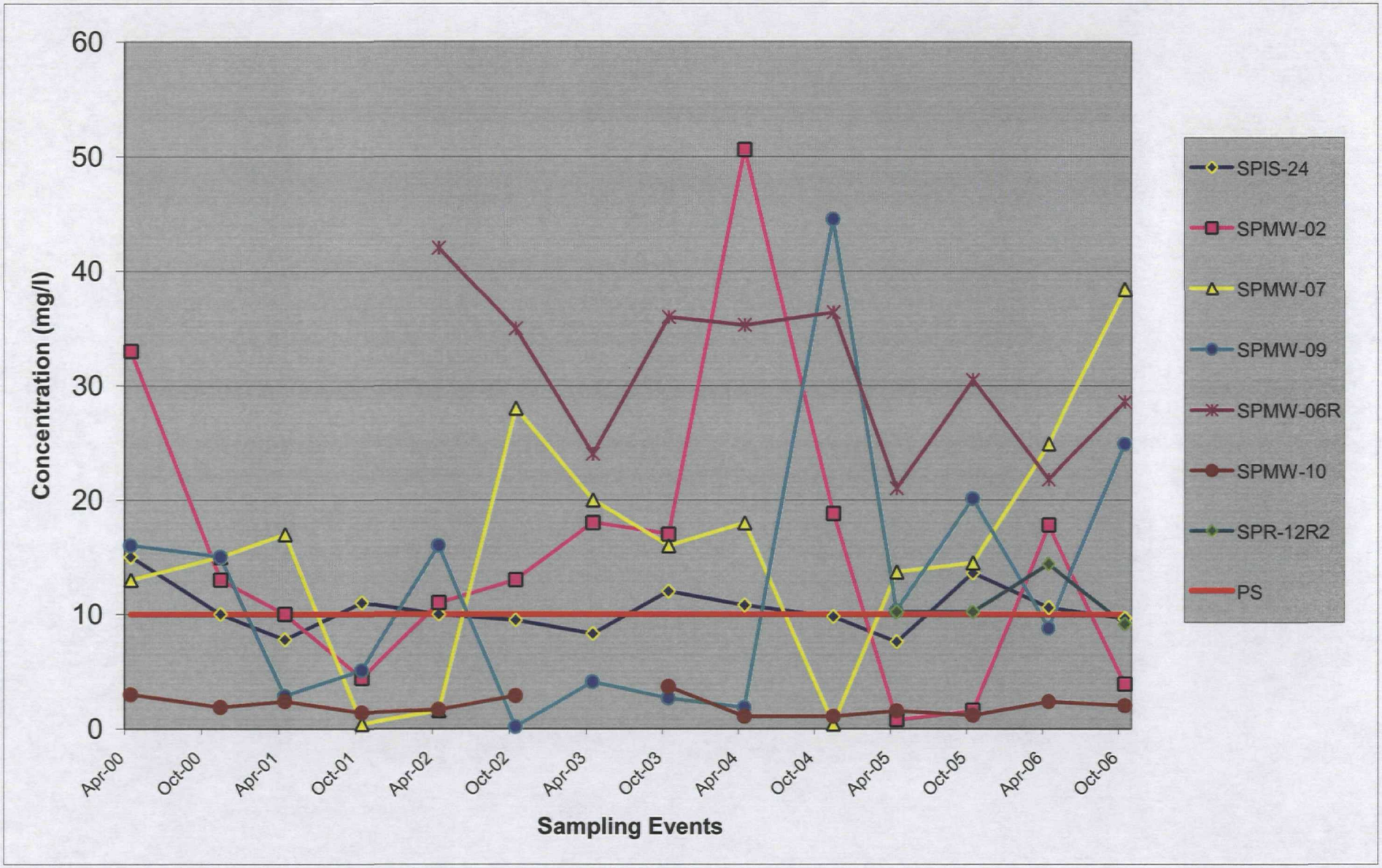
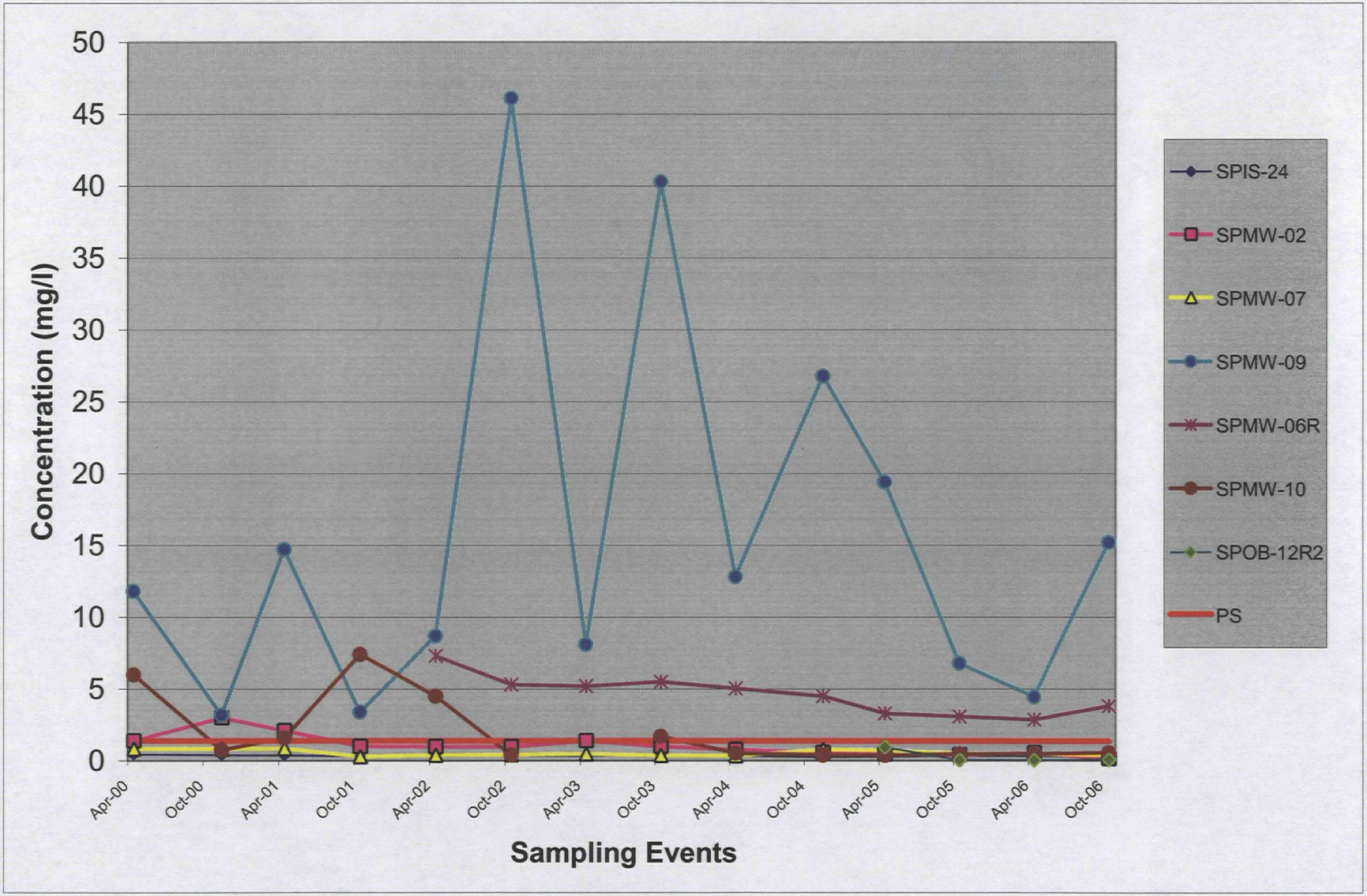


Fig 4-5 4-6 & 4-7.xls

MACTEC Engineering and Consulting, Inc.

Prepared by: JLK3/2/07
Reveiwed by: SGC 4/10/07

Figure 4-7
Manganese Trends in Groundwater
South Point Superfund Site
South Point, Ohio

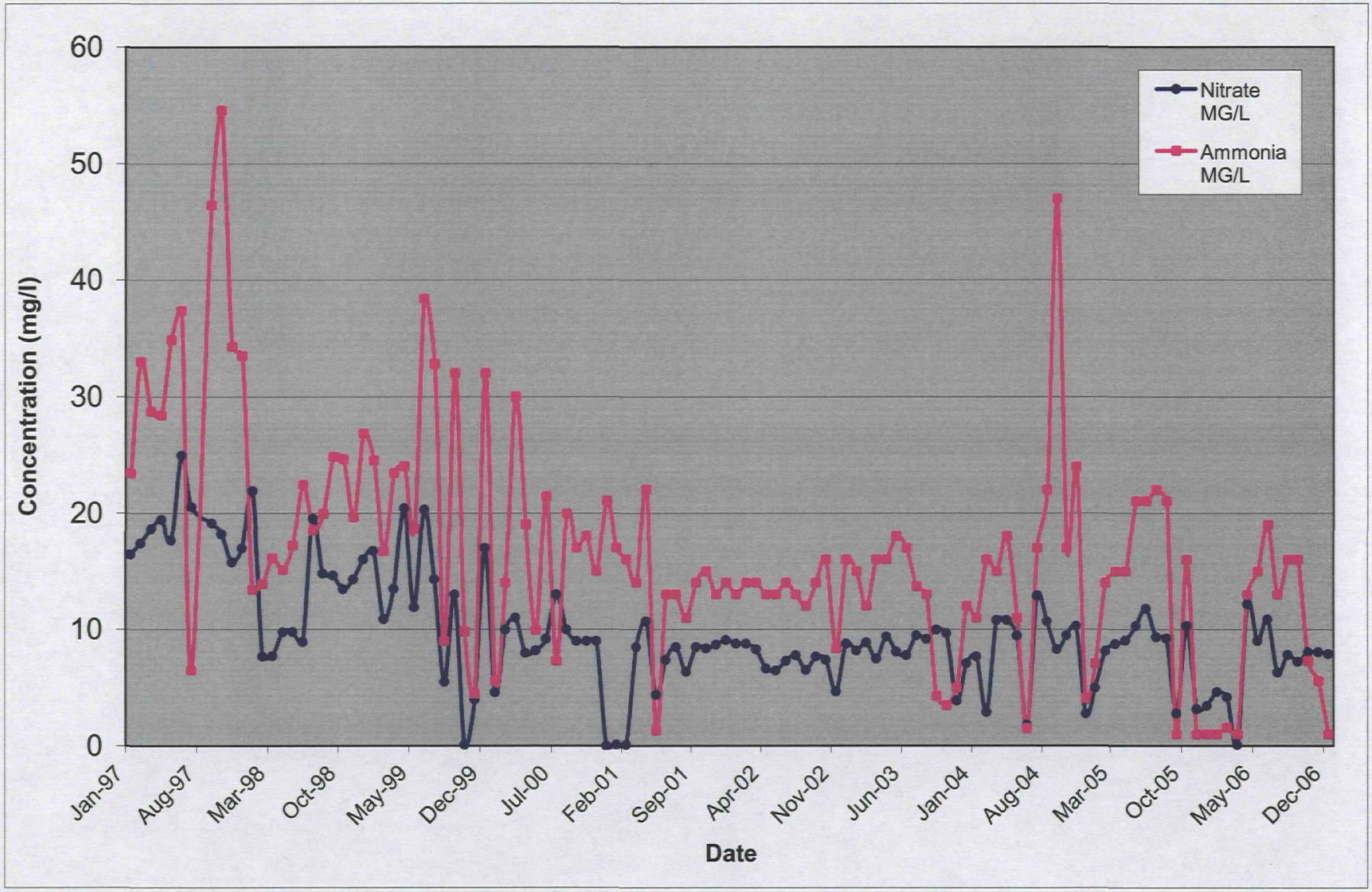


Prepared by: JLK 3/2/07
Reviewed by: SGC 4/10/07

Fig 4-5 4-6 & 4-7.xls

MACTEC Engineering and Consulting, Inc.

Figure 5-1
NPDES Trends
South Point Plant Superfund Site
South Point, Ohio



MACTEC Engineering and Consulting, Inc.

Prepared by: JKL
Reviewed by: SGC 4/10/07

APPENDIX A

APPENDIX A

WATER SAMPLING LOGS

SOUTH POINT WELL WATER LEVELS

DATE: 10-23-06

WELL #	DTW	DTB	DTB-DTW	PID	TIME	LOCATION
SPMW-01	37.14	62.14		0.0	0840	NORTH ENTRANCE OFF ROAD BY FIELD
SPMW-05	61.90	85.80		0.0	0845	ALONG SOUTH-EAST FENCE LINE IN PINES ADJACENT TO RESIDENTIAL PROPERTY
SPMW-10R	68.52	95.18		0.0	0915	AT CAP AREA
SPMW-06R	73.80	101.1		0.0	0915	AT CAP AREA
SPMW-08	42.90	66.20		0.0	0920	FLY-ASH PONDS
SPIS-18	37.10	150+		0.0	0930	FLY-ASH PONDS
IS-15	43.50	150+		0.0	0925	ALONG County Rd Fence line
SPIS-15A	36.43	150+		0.0	0950	FLY-ASH PONDS
SPMW-09	40.77	60.75		0.0	0935	FLY-ASH PONDS
T2-B	18.05	44.17		0.0	0940	FLY-ASH PONDS
SPIS-26	46.82	150+		0.0	0910	FORMER PUMPING WELL
SPIS-25	46.20	150+		0.0	0905	FORMER PUMPING WELL
SPIS-27	48.82	150+		0.0	0900	FORMER PUMPING WELLS/ACROSS FROM CALGON BLDG.
SPMW-02	48.08	75.50		0.0	0855	BY ROADWAY ON RIGHT GOING EAST TURN SOUTH
Dup - SPMW-07	44.10	67.11		0.0	1000	HOOK LEFT ON ROADWAY BESIDE RR TRACKS / CAN NOT GET TOO
SPMW-03	44.46	67.2		0.0	1010	BOON DOCKS NORTH OF TRACKS
SPIS-22	[illegible]	[illegible]	46.04/150	0.0	[illegible]	FORMER PW
SPOB-34	47.55	82.05		0.0	1030	NEAR PINES
SPOB-12R2	50.08	67.13		0.0	1035	NEAR PINES
SPMW-11R	50.11	64.62		0.0	10:45	NEAR PINES
SPMW-12	48.80	65.1		0.0	10:50	NEAR PINES
SPMW-13	48.14	71.7		0.0	10:55	NEAR PINES
SPMW-04	48.83	66.85		0.0	11:00	NEAR PINES
SPIS-06	49.12	150+		0.0	11:05	FORMER PUMPING WELLS
SPIS-05	44.16	150+		0.0	11:05	FORMER PUMPING WELLS
SPIS-01	43.60	150+		0.0	12:15	INSIDE RED BRICK BLDG.
SPIS-28	46.50	150+		0.0	12:10	FORMER PUMPING WELLS
SPIS-02	44.35	150+		0.0	12:30	BRICK BLDG. NEXT TO TOWERS
SPOB-29	43.55	76.60		0.0	1:25	GO TO PYRO CHEM
SPOB-15D	44.81	62.58		0.0	12:50	SOUTH OF CO. RD. 1 INSIDE AND TO THE RIGHT
SPOB-26	34.15	72.13		0.0	1240	NEAR THE DOCK
CAISSON	31.90	—		—	1245	AT THE RIVER
SPOB-17D	34.88	50.55		0.0	1:10	EAST ON THE PATH TO TREE WITH LARGE BRANCH DOWN 3780 Key
SPOB-18D	34.58	52.63		0.0	1:20	FOLLOW THE LANE PAST PUMP HOUSE
SPIS-10	44.64	150+		0.0	1200	AT SP FIRE STATION
MSD - SPIS-23	—	—	—	—	—	Pumping Well
Dup - SPIS-24	—	—	—	—	—	Pumping Well

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One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

Project Name: SOUTH POINT	Project Number:
Project Manager: Joe Davis	Report CC:
Company/Address: OMI INC. 3329 S. 3rd ST. IRONTON, OH 4563	
Phone #: 740 532 9486	FAX#:
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	NH_3	NO_2/NO_3							REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE													2	3							
SPMW-01		10-24-06	1025	water								X	X								
SPMW-05		10-24-06	1110	water								X	X								
SPMW-10R		10-24-06	1155	water								X	X								
SPMW-02		10-24-06	1320	water								X	X								
SPMW-06R		10-24-06	1410	water								X	X								
SPMW-08		10-24-06	1450	water								X	X								
SPMW-09		10-24-06	1540	water								X	X								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Patrick Holmes	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: OMI / Honeywell	Firm:	Firm:	Firm:	Firm:	Firm:
Date/Time: 10-24-06 / 1700	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:

[redacted]istribut[redacted]e - Re[redacted]riginat[redacted] - Lab [redacted]nk - R[redacted]by Clie[redacted] SCOC[redacted]

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SR #

CAS Contact

Project Name: SOUTH POINT	Project Number:
Project Manager: Joe Davis	Report CC:
Company/Address: OMI / Honeywell, 3329 S. 3rd ST, Ironton, OH 45638	
Phone #: (740) 532-9486	FAX#:
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	NH_3	NO_2/NO_3							REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE													2	3							
SPIS-24		10-25-06	1425	water								X	X	1							
SPIS-24 Dup		10-25-06	1425	water								X	X								
SPIS-23, MS, MSD		10-25-06	1445	water								X	X								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Patrick Holmes	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: OMI / Honeywell	Firm:	Firm:	Firm:	Firm:	Firm:
Date/Time: 10-25-06 / 1600	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:

[redacted]istribu[redacted]te - Re[redacted]riginat[redacted]v - Lab[redacted]ink - R[redacted]by Clie[redacted] SCO[redacted]8

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SR #

CAS Contact

Project Name: SOUTH POINT	Project Number:
Project Manager: Joe Davis	Report CC:
Company/Address: OMI / Honeywell, 3329 S. 3rd ST, IRONTON, OH 45635	
Phone #: (740) 532-9486	FAX#:
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 2, 3

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	NH_3, NO_2/NO_3							REMARKS/ ALTERNATE DESCRIPTION
SPMW-03		10-25-06	0855	water								X	X							
SPMW-07		10-25-06	0945	water								X	X							
SPMW-07 Dup		10-25-06	0945	water								X	X							
SPOB-34		10-25-06	1035	water								X	X							
SPOB-12R2		10-25-06	1105	water								X	X							
SPMW-11R2		10-25-06	1140	water								X	X							
SPMW-12		10-25-06	1300	water								X	X							
SPMW-13		10-25-06	1335	water								X	X							
SPMW-04		10-25-06	1410	water								X	X							
				water																

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Richard Holme	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: OMI / Honeywell	Firm:	Firm:	Firm:	Firm:	Firm:
Date/Time: 10-25-06 / 1600	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCO[redacted]8

PROJECT	IronTon	FIELD SAMPLE NUMBER	SPMW-01	JOB NUMBER	
SITE ID	South Point	SITE TYPE		EVENT NO	
ACTIVITY	START 0900 END 1030	SAMPLE TIME	1025	DATE	10-24-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	37.14 FT	MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING		PROTECTIVE CASING STICKUP (FROM GROUND)	2.5 FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	62.14 FT	PID AMBIENT AIR	0.0 PPM
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING	

CASING / WELL DIFFERENCE: FT

WELL DIAMETER: 2 IN

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
955	37.14	500	11.93	35.2	6.21	0.00	9.2	138		
1000	37.14	500	11.75	34.0	6.11	0.00	10.7	139		
1005	37.14	500	11.49	33.3	6.02	0.00	9.0	142		
1010	37.14	500	11.18	33.8	5.98	0.00	26.6	146		
1015	37.14	500	11.18	33.4	5.97	0.00	26.6	146		
1020	37.14	500	11.14	32.4	6.0	0.00	23.9	147		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	☑ HIGH DENSITY POLYETHYLENE	☑ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ☑ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-24-06
Checked/Date: PH

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033a.cdr

PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPMW-05	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1035 END 1115	SAMPLE TIME	1110	DATE	10-24-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	61.90 FT	MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING		PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	85.80 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM		
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING			

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1040	61.90	500	8.87	45.7	7.27	2.70	9.9	94		
1045	61.90	500	8.87	45.7	7.27	2.70	9.9	94		
1050	61.90	500	8.86	45.9	7.32	2.71	12.1	93		
1055	61.90	500	9.11	46.9	7.42	2.97	24.8	87		
1100	61.90	500	9.79	46.6	7.52	2.90	29.6	81		
1105	61.90	500	10.15	45.9	7.57	2.59	23.9	74		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	✓ HIGH DENSITY POLYETHYLENE	✓ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ✓ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-24-06

Checked/Date: PH

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033a.cdr

PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPMW-10R	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1120 END 1200	SAMPLE TIME	1155	DATE	10-24-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	68.52 FT	MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING		PROTECTIVE CASING STICKUP (FROM GROUND)	FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	95.18 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM		
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING			

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1125	68.52	500	9.30	52.2	4.28	0.00	100	37.4		
1130	68.52	500	9.99	51.3	4.14	0.00	100	334		
1135	68.52	500	10.36	51.1	4.12	0.00	182	343		
1140	68.52	500	10.40	51.1	4.11	0.00	113	344		
1145	68.52	500	10.45	51.0	4.12	0.00	99.3	345		
1150	68.52	500	10.50	50.9	4.11	0.00	110	349		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	☑ HIGH DENSITY POLYETHYLENE	☑ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ☑ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-24-06
Checked/Date: PH

Honeywell
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MORRISTOWN, NJ 07962

MACTEC

LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033a.cdr

PROJECT	Ironton	FIELD SAMPLE NUMBER	SPMW-02	JOB NUMBER	
SITE ID	South Point	SITE TYPE		EVENT NO	
ACTIVITY	START 1245 END 1325	SAMPLE TIME	1320	DATE	10-24-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	48.08 FT	HISTORICAL WELL DEPTH (TOR)	75.50 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT			PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM		
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING			

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1250	48.05	500	9.15	45.3	6.44	9.99	71.7	233		
1255	48.05	500	9.32	45.2	6.53	9.12	63	226		
1300	48.05	500	10.55	55.4	6.72	2.60	56.8	177		
1305	48.05	500	10.99	60.8	6.88	0.00	48.7	156		
1310	48.05	500	11.09	63.5	7.03	0.00	41.1	134		
1315	48.05	500	11.17	64.2	7.07	0.00	40.3	127		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	☑ HIGH DENSITY POLYETHYLENE	☑ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ☑ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-24-06
Checked/Date: PM

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ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

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PROJECT	Ironton	FIELD SAMPLE NUMBER	SPMW-06R	JOB NUMBER	
SITE ID	South Point	SITE TYPE		EVENT NO	
ACTIVITY	START 1330 END 1415	SAMPLE TIME	1410	DATE	10-24-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	72.80 FT	MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING		PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	101.1 FT	PID AMBIENT AIR	0.0 PPM
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM
TOTAL VOL. PURGED	4.5 GAL	REFILL SETTING		DISCHARGE SETTING	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

CASING / WELL DIFFERENCE: FT

WELL DIAMETER: 2 IN

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1340	72.80	500	10.88	.168	6.53	0.00	274	109		
1345	72.80	500	10.94	.169	6.52	0.00	263	109		
1350	72.80	500	10.96	.170	6.53	0.00	263	109		
1355	72.80	500	11.28	.172	6.53	0.00	140	108		
1400	72.80	500	11.30	.171	6.54	0.00	135	107		
1405	72.80	500	11.33	.173	6.54	0.00	110	106		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	☑ HIGH DENSITY POLYETHYLENE	☑ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ☑ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-24-06

Checked/Date: PH

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SITE NO. 35024
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PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPMW-08	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1420 END 1455	SAMPLE TIME	1450	DATE	10-24-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	42.90 FT	MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING		PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	66.20 FT	PID AMBIENT AIR	0.0 PPM
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING	

CASING / WELL DIFFERENCE: FT

WELL DIAMETER: 2 IN

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1425	42.90	500	10.50	87.2	6.56	0.00	22.6	125		
1430	42.90	500	10.75	86.5	6.51	0.00	20.3	126		
1435	42.90	500	10.86	86.9	6.49	0.00	17.0	123		
1440	42.90	500	10.87	87.1	6.49	0.00	16.3	125		
1445	42.90	500	10.89	86.5	6.49	0.00	16.8	127		
1450	42.90	500	10.86	86.6	6.49	0.00	9.7	129		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	✓ HIGH DENSITY POLYETHYLENE	✓ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ✓ OTHER 2" Sub.	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-24-06

Checked/Date: PH

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SITE NO. 35024
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PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPMW-09	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1505 END 1550	SAMPLE TIME	1540	DATE	10-24-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	40.27 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	60.25 FT	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID AMBIENT AIR	0.0 PPM
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		PID WELL MOUTH	0.0 PPM
				DISCHARGE SETTING	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1510	40.27	500	10.42	.132	3.56	0.00	48.1	408		
1515	40.27	500	10.42	.131	3.55	0.00	47.7	408		
1520	40.27	500	10.40	.129	3.59	0.00	47.8	407		
1525	40.27	500	10.29	.130	3.48	0.00	42.9	414		
1530	40.27	500	10.21	.132	3.47	0.00	40.8	415		
1535	40.27	500	10.13	.132	3.47	0.00	32.9	416		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] BLADDER
- [ ] PERISTALTIC
- [x] OTHER 2" Sub

TYPE OF TUBING
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-24-06
Checked/Date: PH

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PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPMW-03	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 810 END 900	SAMPLE TIME	855	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER	44.46 FT	MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING		PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	67.2 FT	PID AMBIENT AIR	0.0 PPM
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING	

CASING / WELL DIFFERENCE: FT

WELL DIAMETER: 2 IN

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
825	44.46	500	5.63	51.2	6.25	0.00	34.8	184		
830	44.46	500	5.66	53.3	6.38	0.00	17.1	169		
835	44.46	500	5.70	53.7	6.47	0.00	9.0	145		
840	44.46	500	5.72	53.7	6.49	0.00	6.2	146		
845	44.46	500	5.72	53.7	6.51	0.00	5.0	146		
850	44.46	500	5.72	54.0	6.51	0.00	4.4	147		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	☑ HIGH DENSITY POLYETHYLENE	☑ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ☑ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-25-06
Checked/Date: PH

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PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPMW-07	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 0905 END 1000	SAMPLE TIME	0955	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	44.10 FT	HISTORICAL WELL DEPTH (TOR)	67.11 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT			PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM		
TOTAL VOL. PURGED	4.5 GAL	REFILL SETTING		DISCHARGE SETTING			

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
915	44.10	500	10.24	.226	7.72	0.00	27.1	120		
920	44.10	500	10.24	.225	7.72	0.00	26.8	121		
925	44.10	500	11.66	.212	7.74	0.00	39.1	106		
930	44.10	500	12.23	.209	7.76	0.00	33.8	97		
935	44.10	500	12.60	.201	7.76	0.00	13.2	94		
940	44.10	500	12.61	1.5	7.63	0.00	15.1	90		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☐ BLADDER ☐ PERISTALTIC ☑ OTHER 2" Sub

TYPE OF TUBING: ☑ HIGH DENSITY POLYETHYLENE ☐ OTHER

TYPE OF PUMP MATERIAL: ☑ STAINLESS STEEL ☐ OTHER

TYPE OF BLADDER MATERIAL: ☐ TEFLON ☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

(Dup)

Prepared/Date: 10-25-06
Checked/Date: DH

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IRONTON, OHIO
SITE NO. 35024
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PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPOB-34	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1000 END 1040	SAMPLE TIME	1035	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	47.55 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	82.05 FT	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID AMBIENT AIR	0.0 PPM
TOTAL VOL. PURGED	4.5 GAL	REFILL SETTING		PID WELL MOUTH	0.0 PPM
				DISCHARGE SETTING	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1005	47.55	500	12.99	96.7	7.76	0.00	11.0	-241		
1010	47.55	500	12.95	96.9	7.76	0.00	11.4	-240		
1015	47.55	500	12.99	96.0	7.76	0.00	11.5	-239		
1020	47.55	500	12.72	97.4	7.78	0.00	13.8	-237		
1025	47.55	500	12.15	98.9	7.79	0.00	21.0	-235		
1030	47.55	500	11.75	99.9	7.79	0.00	30.7	-234		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
[ ] BLADDER	[✓] HIGH DENSITY POLYETHYLENE	[✓] STAINLESS STEEL	[ ] TEFLON
[ ] PERISTALTIC [✓] OTHER 2" sub	[ ] OTHER	[ ] OTHER	[ ] OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-25-06
Checked/Date: PJT

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ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

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PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPIS-24	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1420 END 1430	SAMPLE TIME	1425	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	FT			PROTECTIVE CASING STICKUP (FROM GROUND)	FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	FT	PID AMBIENT AIR	PPM	WELL DIAMETER	IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	PPM		
TOTAL VOL. PURGED	GAL	REFILL SETTING		DISCHARGE SETTING			

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1425	—	—	13.3	.101	6.54	0.00	9.6	101		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] BLADDER
- [ ] PERISTALTIC
- [ ] OTHER _____

TYPE OF TUBING
- [ ] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Pumping well (Dup)

Prepared/Date: 10-25-06
Checked/Date: PH

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IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

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PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPIS-23	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1440 END 1450	SAMPLE TIME	1445	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	FT	PROTECTIVE CASING STICKUP (FROM GROUND)	FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	FT	PID AMBIENT AIR	PPM
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	PPM
TOTAL VOL PURGED	GAL	REFILL SETTING		DISCHARGE SETTING	
				WELL DIAMETER	IN

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1445	–	–	13.2	.102	7.01	0.00	9.6	91		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] BLADDER
- [ ] PERISTALTIC
- [ ] OTHER _____

TYPE OF TUBING
- [ ] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Pumping well (MS, MSD)

Prepared/Date: 10-25-06
Checked/Date: PH

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MORRISTOWN, NJ 07962

MACTEC

LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033a.cdr

PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPOB-12R2
SITE ID	SOUTH POINT	SITE TYPE	
ACTIVITY	START 1040 END 1110	SAMPLE TIME	1105

JOB NUMBER:
EVENT NO:
DATE: 10-25-06
FILE TYPE:

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	50.08 FT			PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	67.13 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM		
TOTAL VOL PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING			

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1045	50.08	500	10.86	.096	6.49	0.00	21.0	9		
1048	50.08	500	10.91	.091	6.37	0.00	25.2	13		
1051	50.08	500	11.48	.101	6.30	0.00	14.2	26		
1054	50.08	500	11.48	.101	6.31	0.00	14.8	26		
1057	50.08	500	11.51	.101	6.32	0.00	20.1	28		
1100	50.08	500	11.51	.100	6.31	0.00	24.0	29		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	✓ HIGH DENSITY POLYETHYLENE	✓ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ✓ OTHER 2" sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-25-06
Checked/Date: PH

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LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

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PROJECT	Ironton	FIELD SAMPLE NUMBER	SPMW-11R	JOB NUMBER	
SITE ID	South Point	SITE TYPE		EVENT NO	
ACTIVITY	START 1115 END 1143	SAMPLE TIME	1140	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	50.11 FT			PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	64.62 FT	PID AMBIENT AIR	0.0 PPM	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID WELL MOUTH	0.0 PPM		
TOTAL VOL. PURGED	4 GAL	REFILL SETTING		DISCHARGE SETTING			

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1118	50.11	500	12.05	28.4	5.75	0.00	88.7	85		
1121	50.13	500	12.07	28.6	5.69	0.00	89.5	86		
1124	50.12	500	12.14	28.6	5.63	0.00	48.2	91		
1127	50.12	500	12.15	28.6	5.58	0.00	28.5	95		
1130	50.11	500	12.13	28.5	5.56	0.00	22.3	99		
1133	50.11	500	12.11	28.5	5.55	0.00	19.5	100		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	✓ HIGH DENSITY POLYETHYLENE	✓ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ✓ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-25-06
Checked/Date: PH

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LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033a.cdr

PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPMW-12	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1230 END 1305	SAMPLE TIME	1300	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	48.80 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	65.1 FT	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID AMBIENT AIR	0.0 PPM
TOTAL VOL PURGED	4 GAL	REFILL SETTING		PID WELL MOUTH	0.0 PPM
				DISCHARGE SETTING	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1240	48.80	500	12.41	67.8	7.03	0.00	42.4	48		
1243	48.82	500	12.83	66.6	7.04	0.00	41.8	49		
1246	48.82	500	11.82	64.4	6.91	0.00	51.2	73		
1249	48.82	500	11.82	64.5	6.90	0.00	51.9	73		
1252	48.82	500	11.82	64.5	6.91	0.00	53.2	73		
1255	48.82	500	11.80	64.3	6.89	0.00	52.2	77		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	✓ HIGH DENSITY POLYETHYLENE	✓ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ☑ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-25-06
Checked/Date: PH

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LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033a.cdr

PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPmw-13	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1310 END 1340	SAMPLE TIME	1335	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	48.14 FT	HISTORICAL WELL DEPTH (TOR)	71.2 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT
FINAL DEPTH TO WATER	FT	PRESSURE TO PUMP	PSI	PID AMBIENT AIR	0.0 PPM
SCREEN LENGTH	FT	REFILL SETTING		PID WELL MOUTH	0.0 PPM
TOTAL VOL PURGED	4 GAL			DISCHARGE SETTING	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

CASING / WELL DIFFERENCE	FT
WELL DIAMETER	2 IN

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1318	48.14	500	11.27	54.7	7.77	0.00	0	31		
1321	48.14	500	11.16	54.9	7.81	0.00	0	26		
1324	48.14	500	11.19	55.0	7.82	0.00	0	24		
1327	48.14	500	11.15	55.0	7.82	0.00	0	22		
1330	48.14	500	11.08	55.1	7.82	0.00	0	21		
1333	48.14	500	11.03	55.1	7.83	0.00	0	19		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
[ ] BLADDER	[✓] HIGH DENSITY POLYETHYLENE	[✓] STAINLESS STEEL	[ ] TEFLON
[ ] PERISTALTIC [✓] OTHER 2" Sub	[ ] OTHER	[ ] OTHER	[ ] OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NOTES:

Prepared/Date: 10-25-06
Checked/Date: PH

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LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

JOB NUMBER

PROJECT	IRONTON	FIELD SAMPLE NUMBER	SPmw-04	JOB NUMBER	
SITE ID	SOUTH POINT	SITE TYPE		EVENT NO	
ACTIVITY	START 1345 END 1415	SAMPLE TIME	1410	DATE	10-25-06
				FILE TYPE	

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: ☐ TOP OF WELL RISER ☐ TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	48.83 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	CASING / WELL DIFFERENCE	FT
FINAL DEPTH TO WATER	FT	HISTORICAL WELL DEPTH (TOR)	66.85 FT	WELL DIAMETER	2 IN
SCREEN LENGTH	FT	PRESSURE TO PUMP	PSI	PID AMBIENT AIR	0.0 PPM
TOTAL VOL. PURGED	4.5 GAL	REFILL SETTING		PID WELL MOUTH	0.0 PPM
				DISCHARGE SETTING	

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. c)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DO (mg/L)	TURBIDITY (ntu)	REDOX (+/- mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1348	48.83	500	12.13	34.8	6.35	0.00	7.2	101		
1351	48.84	500	12.18	34.6	6.32	0.00	4.6	105		
1354	48.84	500	12.15	34.5	6.32	0.00	4.0	108		
1357	48.83	500	12.12	34.3	6.31	0.00	3.5	110		
1400	48.83	500	12.10	34.3	6.31	0.00	4.0	113		
1405	48.83	500	12.34	35.5	6.33	0.00	3.0	104		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
☐ BLADDER	☑ HIGH DENSITY POLYETHYLENE	☑ STAINLESS STEEL	☐ TEFLON
☐ PERISTALTIC ☑ OTHER 2" Sub	☐ OTHER	☐ OTHER	☐ OTHER

ANALYTICAL PARAMETERS

ANALYSIS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NOTES:

Prepared/Date: 10-25-06
Checked/Date: PH

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LOW FLOW GROUNDWATER DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
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SOUTH POINT WELL WATER LEVELS

DATE: 4/10/06

WELL #	DTW	DTB	DTB-DTW	PID	TIME	LOCATION
SPMW-01	-36.35	62.15	25.8	0.00	728	NORTH ENTRANCE OFF ROAD BY FIELD
SPMW-05	-61.11	85.83	24.72	0.00	740	ALONG SOUTH-EAST FENCE LINE IN PINES ADJACENT TO RESIDENTIAL PROPERTY
SPMW-10R	-67.71	95.9	28.19	0.00	755	AT CAP AREA
SPMW-06R	-72.02	101.6	29.58	0.00	800	AT CAP AREA
SPMW-08	-42.38	66.22	23.84	0.00	805	FLY-ASH PONDS
SPIS-18	-37.84	150	112.16	0.00	810	FLY-ASH PONDS
IS-15	-43.43	150	106.57	0.00	1140	
SPIS-15A	-36.74	150	113.26	0.00	815	FLY-ASH PONDS
SPMW-09	-40.32	60.3	19.98	0.00	823	FLY-ASH PONDS
T2-B	-17.6	44.2	26.6	0.00	830	FLY-ASH PONDS
SPIS-26	-46.13	150	103.87	0.00	840	FORMER PUMPING WELL
SPIS-25	-46.74	150	103.26	0.00	850	FORMER PUMPING WELL
SPIS-27	-49.51	150	100.49	0.00	900	FORMER PUMPING WELLS/ACROSS FROM CALGON BLDG.
SPMW-02	-47.33	75.2	27.87	0.00	905	BY ROADWAY ON RIGHT GOING EAST TURN SOUTH
SPMW-07	-43.5	67.21	23.71	0.00	928	HOOK LEFT ON ROADWAY BESIDE RR TRACKS
SPMW-03	-43.96	67	23.04	0.00	918	BOON DOCKS NORTH OF TRACKS
SPIS-22	-46.27	150	103.73	0.00	940	FORMER PW
SPOB-34	-47.38	81.9	34.52	0.00	943	NEAR PINES
SPOB-12R2	-49.92	67.04	17.12	0.00	945	NEAR PINES
SPMW-11R	-49.82	64.5	14.68	0.00	950	NEAR PINES
SPMW-12	-48.54	64.9	16.36	0.00	955	NEAR PINES
SPMW-13	-48.07	71.03	22.96	0.00	1000	NEAR PINES
SPMW-04	-48.91	66.75	17.84	0.00	1005	NEAR PINES
SPIS-06	-49.05	150	100.95	0.00	1010	FORMER PUMPING WELLS
SPIS-05	-43.89	150	106.11	0.00	1015	FORMER PUMPING WELLS
SPIS-01	-43.22	150	106.78	0.00	1020	INSIDE RED BRICK BLDG.
SPIS-28	-46.39	150	103.61	0.00	1025	FORMER PUMPING WELLS
SPIS-02	-43.03	150	106.97	0.00	1030	Former BRICK BLDG. NEXT TO Former TOWERS
SPOB-29	-43.43	76.62	33.19	0.00	1038	GO TO PYRO CHEM
SPOB-15D	-44.92	62.51	17.59	0.00	1130	SOUTH OF CO. RD. 1 INSIDE AND TO THE RIGHT
SPOB-26	-34.67	72.02	37.35	0.00	1113	NEAR THE DOCK
CAISSON	32.9		32.9	0.00	1120	AT THE RIVER
SPOB-17D	-35.28	50.56	15.28	0.00	1045	EAST ON THE PATH TO TREE WITH LARGE BRANCH DOWN
SPOB-18D	-34.82	52.63	17.81	0.00	1055	FOLLOW THE LANE PAST PUMP HOUSE
SPIS-10	-44.37	150	105.63	0.00	1129	AT SP FIRE STATION
SPIS-23						Pumping Well
SPIS-24						Pumping Well

PROJECT	Ironton	FIELD SAMPLE ID	SPMW 01	STUDY AREA / AOC	
SITE ID	South Point	SITE TYPE		DATE	4-11-06
ACTIVITY	START 08:00 END 09:20	JOB NUMBER		FILE TYPE	
SAMPLE TIME	09:10	WEATHER	Sunny 47°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	62.15 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	36.35 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	2" PVC
HEIGHT OF WATER COLUMN	25.8 FT	PURGE VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	4.5 GAL		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	08:40	08:45	08:50	08:55	09:00	09:05
PURGE VOLUME (gallons)	1	1.5	2.0	2.5	3.0	3.5
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	36.35	36.35	36.35	36.35	36.35	36.35
TEMPERATURE (degrees C)	13.72	13.40	12.77	14.07	14.22	13.96
pH (units)	6.46	6.83	6.79	7.04	7.1	7.01
DISSOLVED OXYGEN (mg/L)	1.40	3.57	1.00	.99	.97	1.02
SPEC. COND. (ms/cm)	.442	.414	.447	.490	.521	0.505
TURBIDITY (ntu)	26.3	0.0	1.3	.7	.6	0.0
REDOX POTENTIAL (+/- mv)	176	164	160	142	139	140

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING
- [ ]
- [ ]
- [ ]

SAMPLING
- [x] SUBMERSIBLE PUMP
- [x] DEDICATED HDPE TUBING
- [ ]

DECON FLUIDS USED
- [x] POLAND SPRING
- DISTILLED WATER
- [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED
- [ ] ELECTRIC COND. PROBE
- [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

C Miller
P. Holmes

Prepared/Date: 4-11-06
Checked/Date: _____

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	SPMW 10R	STUDY AREA / AOC	
SITE ID	South Point	SITE TYPE		DATE	4-11-06
ACTIVITY	START 09:25 END 10:40	JOB NUMBER		FILE TYPE	
SAMPLE TIME	10:30	WEATHER	SUNNY 52°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	95.9 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	66.69 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	2 PVC
HEIGHT OF WATER COLUMN	28.19 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	96 gal GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

66.69

PURGE DATA

TIME	10:00	10:05	10:10	10:15	10:20	10:25
PURGE VOLUME (gallons)	5	5.5	6.0	6.5	7.0	7.5
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	66.69	66.69	66.69	66.69	66.69	66.69
TEMPERATURE (degrees C)	14.04	14.43	15.22	15.47	16.12	15.84
pH (units)	4.83	4.61	4.78	4.76	4.81	4.89
DISSOLVED OXYGEN (mg/L)	2.08	2.10	2.94	2.65	2.46	2.39
SPEC. COND. (ms/cm)	.390	.407	0.409	0.411	0.412	0.413
TURBIDITY (ntu)	126	98	119.0	94.4	80.0	67.7
REDOX POTENTIAL (+/- mv)	347	358	348	347	341	329

SAMPLE OBSERVATIONS

- [ ] CLEAR
- [✓] COLORED Brownish
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ____ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING: [✓] [ ] [ ]

SAMPLING: [✓] [✓] [ ] SUBMERSIBLE PUMP; DEDICATED HDPE TUBING

DECON FLUIDS USED: [✓] POLAND SPRING; [ ] DISTILLED WATER; OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [✓] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

Water Brownish in Color.

P Holmes
C Miller

Prepared/Date: 4-11-06
Checked/Date: _____

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MACTEC

GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton – South Point	FIELD SAMPLE ID	SPMW 05	STUDY AREA / AOC	
SITE ID	South Point	SITE TYPE		DATE	4-11-06
ACTIVITY	START 10:53 END 1145	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1135	WEATHER	SUNNY 55°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	85.83 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	61.11 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	28.19 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	6.0 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP			
CASING			
COLLAR			
LOCKED			

PURGE DATA

TIME	1105	1110	1115	1120	1125	1130
PURGE VOLUME (gallons)	3	3.5	4.0	4.5	5.0	5.5
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	61.11	61.11	61.11	61.12	61.11	61.11
TEMPERATURE (degreesC)	14.32	14.27	14.07	14.06	14.22	14.37
pH (units)	6.89	7.13	7.32	7.43	7.66	7.93
DISSOLVED OXYGEN (mg/L)	5.11	4.88	4.66	4.57	4.26	4.19
SPEC. COND. (ms/cm)	.143	.453	.459	.461	.465	.466
TURBIDITY (ntu)	149.0	147.0	121.0	111.0	110.0	106.0
REDOX POTENTIAL (+/- mv)	219	183	165	155	134	123

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? [x] YES ____ NO

NO.OF DRUMS USED:

COMBINED WITH:

EQUIPMENT DOCUMENTATION

PURGING: [x] [ ] [ ]

SAMPLING: [x] SUBMERSIBLE PUMP; [x] DEDICATED HDPE TUBING; [ ] _____

DECON FLUIDS USED: [x] POLAND SPRING; DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-11-06
Checked/Date: _____

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ALLIED CHEMICAL/IRONTON COKE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

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PROJECT	Ironton - SouthPoint	FIELD SAMPLE ID	SPMW03	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-11-06
ACTIVITY	START 12:15 END 12:55	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1245	WEATHER	SUNNY 65°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	67.00 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	43.96 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	23.04 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5.0 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP			
CASING			
COLLAR			
LOCKED			

PURGE DATA

TIME	1225	1228	1231	1234	1237	1240
PURGE VOLUME (gallons)	1.5	2	2.5	3	3.5	4.0
PURGE RATE (gal/min)	500mL	500 mL	500 mL	500mL	500 mL	500 mL
WATER LEVEL (feet)	43.96	43.96	43.96	43.96	43.96	43.96
TEMPERATURE (degreesC)	15.12	15.04	15.54	15.66	15.45	14.90
pH (units)	7.47	7.14	6.93	6.89	6.91	7.14
DISSOLVED OXYGEN (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	.533	.576	.576	.587	.615	.622
TURBIDITY (ntu)	175.0	177.0	175	169	181	176
REDOX POTENTIAL (+/- mv)	223	211	193	166	174	155

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? [x] YES ____ NO

NO.OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING: [x] SUBMERSIBLE PUMP

SAMPLING: [x] DEDICATED HDPE TUBING

DECON FLUIDS USED: [x] POLAND SPRING; [ ] DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-11-06
Checked/Date: _____

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IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

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PROJECT	Ironton – South Point	FIELD SAMPLE ID	SPMW-07	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-11-06
ACTIVITY	START 13:00 END 13:35	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1325	WEATHER	SUNNY 75°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	67.21 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	43.5 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	23.71 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	4.5 GAL		

WELL INTEGRITY:	YES	NO	N/A
CAP			
CASING			
COLLAR			
LOCKED			

PURGE DATA

TIME	13:06	1309	1312	1315	1318	1321
PURGE VOLUME (gallons)	~~[illegible]~~	1.5	2	2.5	3	3.5
PURGE RATE (gal/min)	500mL	500 mL	500 mL	500 mL	500mL	500mL
WATER LEVEL (feet)	43.5	43.5	43.5	43.5	43.5	43.5
TEMPERATURE (degrees C)	15.62	15.63	15.60	15.59	15.63	15.55
pH (units)	6.01	7.99	7.94	7.92	7.93	7.96
DISSOLVED OXYGEN (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	1.78	1.77	1.69	1.69	1.65	1.66
TURBIDITY (ntu)	159	155	162	100.0	115	139
REDOX POTENTIAL (+/- mv)	191	190	184	173	164	160

SAMPLE OBSERVATIONS:
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? [x] YES ____ NO

NO. OF DRUMS USED

COMBINED WITH:

EQUIPMENT DOCUMENTATION

PURGING: [x] [ ] [ ]

SAMPLING: [x] SUBMERSIBLE PUMP; [x] DEDICATED HDPE TUBING; [ ] _____

DECON FLUIDS USED: [x] POLAND SPRING; DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

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IRONTON, OHIO
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PROJECT	Ironton - South Point	FIELD SAMPLE ID	P.MW-02	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-11-02
ACTIVITY	START 13:40 END 14:20	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1410	WEATHER	SUNNY 75°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	75.2 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	47.33 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	27.87 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP			
CASING			
COLLAR			
LOCKED			

PURGE DATA

TIME	1350	1353	1356	1359	1402	1405
PURGE VOLUME (gallons)	1	1.5	2.1	2.7	3	3.5
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	47.33	47.33	47.33	47.33	47.33	47.33
TEMPERATURE (degrees C)	14.54	14.50	14.45	14.42	14.43	14.43
pH (units)	7.37	7.15	7.08	7.30	7.51	7.63
DISSOLVED OXYGEN (mg/L)	4.39	3.68	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	.662	.709	.91	.91	.92	.92
TURBIDITY (ntu)	151	163	166	171	175	172
REDOX POTENTIAL (+/- mv)	203	204	191	189	74	165

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ___ YES ___ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING
- [x]
- [ ]
- [ ]

SAMPLING
- [x] SUBMERSIBLE PUMP
- [x] DEDICATED HDPE TUBING
- [ ] _____

DECON FLUIDS USED
- [x] POLAND SPRING
- [ ] DISTILLED WATER
- [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED
- [x] ELECTRIC COND. PROBE
- [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-11-02
Checked/Date: _____

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PROJECT	Ironton / South Point	FIELD SAMPLE ID	SP15 23	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-11-06
ACTIVITY	START 14:30 END 14:45	JOB NUMBER		FILE TYPE	
SAMPLE TIME	14:35	WEATHER	Sunny 76°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	IN	WELL MATERIAL	
HEIGHT OF WATER COLUMN	FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	PPM	PID WELL MOUTH	PPM	TOTAL VOLUME PURGED	GAL		

WELL INTEGRITY:	YES	NO	N/A
CAP			
CASING			
COLLAR			
LOCKED			

PURGE DATA

TIME	1435						
PURGE VOLUME (gallons)							
PURGE RATE (gal/min)							
WATER LEVEL (feet)							
TEMPERATURE (degreesC)	15.13						
pH (units)	7.60						
DISSOLVED OXYGEN (mg/L)	—						
SPEC. COND. (ms/cm)	—						
TURBIDITY (ntu)	93						
REDOX POTENTIAL (+/- mv)	—						

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ___ YES ✓ NO

NO.OF DRUMS USED

COMBINED WITH:

EQUIPMENT DOCUMENTATION

PURGING / SAMPLING
- [ ] SUBMERSIBLE PUMP
- [ ] DEDICATED HDPE TUBING
- [ ] _____

DECON FLUIDS USED
- [ ] POLAND SPRING
- [ ] DISTILLED WATER
- [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED
- [ ] ELECTRIC COND. PROBE
- [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

Matrix Spike
Matrix Spike Dup

Pumping well

P Holmes
C Miller

Prepared/Date: 4-11-06
Checked/Date: _____

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GROUNDWATER SAMPLING DATA RECORD

ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton South Point	FIELD SAMPLE ID	SPMW-06R	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 07:30 END 08:55	JOB NUMBER		FILE TYPE	
SAMPLE TIME	08:45	WEATHER	Cloudy 62° F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	101.6 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	72.02 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	29.58 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5.5 GAL		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	08:10	08:13	08:16	08:19	08:22	08:25
PURGE VOLUME (gallons)	2	2.5	3.0	3.5	4.0	4.5
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	72.02	72.02	72.02	72.02	72.02	72.02
TEMPERATURE (degreesC)	14.84	14.88	14.90	14.89	14.87	14.93
pH (units)	6.76	6.80	7.06	7.03	7.16	7.05
DISSOLVED OXYGEN (mg/L)	0.0	0.0	0.0	0.0	0.0	0.0
SPEC. COND. (ms/cm)	1.49	1.42	1.49	1.50	1.47	1.51
TURBIDITY (mu)	388	263	52.8	46.9	69.1	74.6
REDOX POTENTIAL (+/- mv)	202	168	93	93	92	93

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO.OF DRUMS USED:

COMBINED WITH:

EQUIPMENT DOCUMENTATION

PURGING: [x] SUBMERSIBLE PUMP

SAMPLING: [x] DEDICATED HDPE TUBING

DECON FLUIDS USED: [x] POLAND SPRING; [ ] DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

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GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	SP MW -08	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 09:00 END 09:40	JOB NUMBER		FILE TYPE	
SAMPLE TIME	09:30	WEATHER	Cloudy 64°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	66.22 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	42.38 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	23.84 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	09:10	09:13	09:16	09:19	09:22	09:25
PURGE VOLUME (gallons)	1.5	2.0	2.5	3.0	3.5	4.0
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	42.38	42.38	42.38	42.38	42.38	42.38
TEMPERATURE (degrees C)	14.46	14.34	14.37	14.34	14.39	14.38
pH (units)	7.05	6.82	6.88	6.82	6.95	6.89
DISSOLVED OXYGEN (mg/L)	0.0	0.0	0.0	0.0	0.0	0.0
SPEC. COND. (ms/cm)	.799	.994	.993	.900	1.29	.999
TURBIDITY (ntu)	39.3	29.5	21.2	21.2	19.9	18.7
REDOX POTENTIAL (+/- mv)	153	149	140	144	143	138

SAMPLE OBSERVATIONS

- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING: [x] [ ] [ ]

SAMPLING: [x] SUBMERSIBLE PUMP; [x] DEDICATED HDPE TUBING; [ ]

DECON FLUIDS USED: [x] POLAND SPRING; DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

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ALLIED CHEMICAL/IRONTON CORE FACILITY
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SITE NO. 35024
3293051221/2200.3

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PROJECT	Ironton - South Point	FIELD SAMPLE ID	SPmw-09	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 09:45 END 10:30	JOB NUMBER		FILE TYPE	
SAMPLE TIME	10:20	WEATHER	Partly Cloudy 66°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	60.03 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	40.32 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	19.98 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5.5 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	10:00	10:03	10:06	10:09	10:12	10:15
PURGE VOLUME (gallons)	2	2.5	3.0	3.5	4.0	4.5
PURGE RATE (gal/min)	500ml	500ml	500ml	500ml	500ml	500ml
WATER LEVEL (feet)	40.32	40.32	40.32	40.32	40.32	40.32
TEMPERATURE (degreesC)	13.54	13.62	13.66	13.76	13.76	13.80
pH (units)	4.22	4.11	4.10	4.12	4.12	4.16
DISSOLVED OXYGEN (mg/L)	0.0	0.0	0.0	0.0	0.0	0.0
SPEC. COND. (ms/cm)	.655	.689	.686	.683	.671	.677
TURBIDITY (ntu)	91.1	50.3	48.5	43.6	45.5	37.9
REDOX POTENTIAL (+/- mv)	366	377	374	375	375	374

SAMPLE OBSERVATIONS:
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING / SAMPLING
- [ ] / [ ]
- [ ] / [ ]
- [ ] / [ ] SUBMERSIBLE PUMP
- [ ] / [ ] DEDICATED HDPE TUBING

DECON FLUIDS USED
- [ ] POLAND SPRING
- [ ] DISTILLED WATER
- [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED
- [ ] ELECTRIC COND. PROBE
- [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

GROUNDWATER SAMPLING DATA RECORD

ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	SP B-34	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 10:50 END 11:30	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1120	WEATHER	SUNNY 70° F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	81.90 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	47.38 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	34.12 FT	PURGE VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED			

PURGE DATA

TIME	11:00	11:03	11:06	11:09	11:12	11:15
PURGE VOLUME (gallons)	1.5	2.0	2.5	3.0	3.5	4
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	47.38	47.38	47.38	47.38	47.38	47.40
TEMPERATURE (degreesC)	15.97	15.94	15.92	15.97	15.94	15.78
pH (units)	7.34	7.37	7.44	7.54	7.76	7.82
DISSOLVED OXYGEN (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	0.445	.916	.960	.90	.90	.90
TURBIDITY (ntu)	115	110	95.8	90.7	81.6	78.5
REDOX POTENTIAL (+/- mv)	-113	-126	-134	-144	-159	-166

SAMPLE OBSERVATIONS
- ✓ CLEAR
- ☐ COLORED _____
- ☐ TURBID _____
- ☐ ODOR _____
- ☐ OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING: ✓ ☐ ☐

SAMPLING: ✓ ✓ ☐ SUBMERSIBLE PUMP; DEDICATED HDPE TUBING

DECON FLUIDS USED: ✓ POLAND SPRING; DISTILLED WATER; OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: ✓ ELECTRIC COND. PROBE; OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

Honeywell
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MORRISTOWN, NJ 07962

MACTEC

GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	S06 12R2	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 12:10 END 12:55	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1245	WEATHER	SUNNY 77° F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	67.04 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	49.92 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	17.12 FT	PURGE VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	1223	1226	1229	1232	1235	12:38
PURGE VOLUME (gallons)	1.5	2	2.5	3	3.5	4.0
PURGE RATE (gal/min)	500mL	500mL	500 mL	500 mL	500mL	500mL
WATER LEVEL (feet)	49.92	49.92	49.92	49.92	49.92	49.92
TEMPERATURE (degrees C)	15.36	15.37	15.31	15.32	15.33	15.33
pH (units)	6.53	6.56	6.74	6.80	6.82	6.83
DISSOLVED OXYGEN (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	.932	.945	.946	.955	0.961	0.956
TURBIDITY (ntu)	235.0	177.0	162	155	143.0	150.0
REDOX POTENTIAL (+/- mv)	159	148	137	134	132	132

SAMPLE OBSERVATIONS:
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? [x] YES ____ NO

NO. OF DRUMS USED:

COMBINED WITH:

EQUIPMENT DOCUMENTATION

PURGING: [x] [ ] [ ]

SAMPLING: [x] SUBMERSIBLE PUMP; [x] DEDICATED HDPE TUBING; [ ] _____

DECON FLUIDS USED: [x] POLAND SPRING; DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

Re Stenciled well

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	SPMW 11R	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 13:05 END 13:50	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1340	WEATHER	SUNNY 76°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	64.5 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	49.82 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	14.68 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5 GAL		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	1320	1323	1326	1329	1332	1335
PURGE VOLUME (gallons)	1.5	2	2.5	3	3.5	4.0
PURGE RATE (gal/min)	500 mL	500 mL	500 mL	500 mL	500 mL	500 mL
WATER LEVEL (feet)	49.82	49.82	49.82	49.82	49.82	49.82
TEMPERATURE (degrees C)	14.87	14.61	14.60	14.60	14.57	14.57
pH (units)	5.58	5.51	5.60	5.60	6.19	6.18
DISSOLVED OXYGEN (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	.334	.337	.334	.334	.389	.398
TURBIDITY (ntu)	335	257	163	160	116	116
REDOX POTENTIAL (+/- mv)	240	246	246	247	224	224

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING: [✓] [ ] [ ]

SAMPLING: [✓] SUBMERSIBLE PUMP; [✓] DEDICATED HDPE TUBING; [ ] _____

DECON FLUIDS USED: [✓] POLAND SPRING; DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [✓] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	SPMW 12	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 13:54 END 14:25	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1420	WEATHER	SUNNY 80°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	64.90 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	48.54 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	16.36 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5 GAL		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	1403	1406	1409	1412	1415	1418
PURGE VOLUME (gallons)	1.25	2	2.5	3	3.5	4
PURGE RATE (gal/min)	500 mL	500 mL	500 mL	500 mL	500 mL	500 mL
WATER LEVEL (feet)	48.54	48.54	48.54	48.54	48.54	48.54
TEMPERATURE (degrees C)	14.82	14.97	14.96	14.81	14.57	14.52
pH (units)	7.27	7.17	7.16	7.12	7.13	7.09
DISSOLVED OXYGEN (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	.766	.817	.951	.958	.999	.998
TURBIDITY (ntu)	103	93.9	81.1	72.7	67.0	67.1
REDOX POTENTIAL (+/- mv)	185	179	171	165	159	156

SAMPLE OBSERVATIONS
- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH

EQUIPMENT DOCUMENTATION

PURGING: [x] SUBMERSIBLE PUMP [ ] DEDICATED HDPE TUBING [ ] _____

SAMPLING: [x] SUBMERSIBLE PUMP [x] DEDICATED HDPE TUBING [ ] _____

DECON FLUIDS USED: [x] POLAND SPRING [ ] DISTILLED WATER [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Mullen

Prepared/Date: 4-12-06
Checked/Date: _____

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	SPMW 13	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 14:30 END 15:00	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1455	WEATHER	SUNNY 81°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	71.03 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	48.07 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	22.96 FT	PURGE VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	5 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	14:39	14:42	14:45	1448	1451	1454
PURGE VOLUME (gallons)	1.5	2.0	2.5	3	3.5	4
PURGE RATE (gal/min)	500mL	500mL	500mL	500mL	500mL	500mL
WATER LEVEL (feet)	48.07	48.07	48.07	48.07	48.07	48.07
TEMPERATURE (degreesC)	14.49	14.53	14.50	14.52	14.57	14.57
pH (units)	7.91	7.89	7.91	7.96	7.99	8.07
DISSOLVED OXYGEN (mg/L)	0.00	0.00	0.00	0.00	0.00	0.00
SPEC. COND. (ms/cm)	.825	.792	.798	.783	.764	.755
TURBIDITY (ntu)	62.4	50.6	47.1	45.1	41.4	39.2
REDOX POTENTIAL (+/- mv)	168	181	175	167	162	156

SAMPLE OBSERVATIONS:
- ✓ CLEAR
- ☐ COLORED _____
- ☐ TURBID _____
- ☐ ODOR _____
- ☐ OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED

COMBINED WITH:

EQUIPMENT DOCUMENTATION

PURGING: ✓ / ☐ / ☐

SAMPLING: ✓ SUBMERSIBLE PUMP; ☐ DEDICATED HDPE TUBING; ☐ _____

DECON FLUIDS USED: ✓ POLAND SPRING; ☐ DISTILLED WATER; ☐ OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: ✓ ELECTRIC COND. PROBE; ☐ OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

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GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

PROJECT	Ironton - South Point	FIELD SAMPLE ID	SP MW 04	STUDY AREA / AOC	
SITE ID		SITE TYPE		DATE	4-12-06
ACTIVITY	START 15:05 END 1545	JOB NUMBER		FILE TYPE	
SAMPLE TIME	1535	WEATHER	SUNNY 82°F		

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	66.75 FT (TOR)	HISTORICAL WELL DEPTH	FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	3 FT	PROTECTIVE CASING / WELL DIFFERENCE	FT
DEPTH TO WATER	48.91 FT (TOR)	SCREEN LENGTH	FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC
HEIGHT OF WATER COLUMN	17.84 FT	PURGE ** VOLUME	GAL/VOL				
PID AMBIENT AIR	0.0 PPM	PID WELL MOUTH	0.0 PPM	TOTAL VOLUME PURGED	4.5 GAL		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
COLLAR	✓		
LOCKED	✓		

PURGE DATA

TIME	1513	1516	1519	1522	1525	1528
PURGE VOLUME (gallons)	1	1.5	2	2.5	3	3.5
PURGE RATE (gal/min)	500 ML	500 ML	500 ML	500 ML	500 ML	500 ML
WATER LEVEL (feet)	48.91	48.91	48.91	48.91	48.91	48.91
TEMPERATURE (degrees C)	14.79	14.76	14.76	14.71	14.70	14.71
pH (units)	7.30	6.75	6.64	6.63	6.63	6.62
DISSOLVED OXYGEN (mg/L)	0.21	0.04	0.02	0.02	0.00	0.00
SPEC. COND. (ms/cm)	.999	.863	.837	.835	.834	.835
TURBIDITY (ntu)	70.8	60.3	68.6	49.9	49.1	49.7
REDOX POTENTIAL (+/- mv)	72	105	106	107	108	110

SAMPLE OBSERVATIONS

- [x] CLEAR
- [ ] COLORED _____
- [ ] TURBID _____
- [ ] ODOR _____
- [ ] OTHER (see notes)

PURGE WATER CONTAINERIZED ? ✓ YES ____ NO

NO. OF DRUMS USED:

COMBINED WITH:

EQUIPMENT DOCUMENTATION

PURGING: [x] [ ] [ ]

SAMPLING: [x] [x] [ ] SUBMERSIBLE PUMP; DEDICATED HDPE TUBING

DECON FLUIDS USED: [x] POLAND SPRING; DISTILLED WATER; [ ] OTHER _____

NUMBER OF FILTERS USED _____

WATER LEVEL EQUIPMENT USED: [x] ELECTRIC COND. PROBE; [ ] OTHER _____

ANALYTICAL PARAMETERS

ANALYTE	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS

NOTES

P Holmes
C Miller

Prepared/Date: 4-12-06
Checked/Date: _____

Honeywell
102 COLUMBIA RD. BOX 2105
MORRISTOWN, NJ 07962

MACTEC

GROUNDWATER SAMPLING DATA RECORD
ALLIED CHEMICAL/IRONTON CORE FACILITY
IRONTON, OHIO
SITE NO. 35024
3293051221/2200.3

PORT2005033b.cdr

APPENDIX B

APPENDIX B

ANALYTICAL DATA SHEETS

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

November 28, 2006

Mr. Patrick Holmes
OMI/Ironton
3329 South Third Street
Ironton, OH 45638

PROJECT:IRONTON - SOUTH POINT - OCTOBER 2006
Submission #:R2634493

Dear Mr. Holmes

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Carlton Beechler
Project Chemist

Enc.

1 Mustard St. • Suite 250 • Rochester, NY 14609 • Tele:(585)288-5380 • Fax:(585)288-8475

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Lab Submission # : R2634493
Project Manager : Carlton Beechler
Reported : 11/28/06

Report Contains a total of 1146 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

SDG NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	OMI/Ironton	**Service Request No.:**	R2634493
Project:	Ironton - Southpoint - October 2006	**Date Received:**	10/25-26/06
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Nineteen water samples were received for analysis at Columbia Analytical Services on 10/25-26/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Chemistry Parameters

No analytical or quality control problems were encountered during analysis.

Total Metals

No analytical or quality control problems were encountered during analysis.

Approved by _____ **Date** 12/1/06

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: 950030
SUBMISSION R2634493
CLIENT: OMI/Ironton
CLIENT REP: Carlton Beechler
PROJECT: IRONTON - SOUTH POINT - OCT

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y_X__ N____
DATE: 10/26/06
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 11/20/06
PROTOCOL: SW846
SHIPPING No.:

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
950030	SPMW-01	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/24/2006	10/25/2006			
950031	SPMW-05	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/24/2006	10/25/2006			
950032	SPMW-10R	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/24/2006	10/25/2006			
950033	SPMW-02	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/24/2006	10/25/2006			
950034	SPMW-06R	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/24/2006	10/25/2006			
950035	SPMW-08	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/24/2006	10/25/2006			
950036	SPMW-09	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/24/2006	10/25/2006			
950466	SPMW-03	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950467	SPMW-07	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950468	SPMW-07 DUP	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950469	SPOB-34	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950470	SPOB-12R2	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950471	SPMW-11R2	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950472	SPMW-12	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950473	SPMW-13	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950474	SPMW-04	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950475	SPIS-24	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950476	SPIS-24 DUP	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			
950477 RC	SPIS-23	WATER	As,Be,Cd,Cu,Mn,Ni,NH3,NO3/NO2	10/25/2006	10/26/2006			

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An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

Ethics Service Quality ACIL 2005 SEAL OF EXCELLENCE PROGRAM Environmental

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AF" for Automated Cold Vapor Atomic Fluorescence Spectrometry
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292

CHAINS OF CUSTODY

INTERNAL CHAINS

Columbia Analytical Services INC.
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www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: SOUTH POINT
Project Number:
Project Manager: Joe Davis
Report CC:
Company/Address: OMI INC.
3329 S. 3rd ST.
IRONTON, OH 4563
Phone #: 740 532 9486
FAX#:
Sampler's Signature:
Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 2 3

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below) Per SOW CRM 10/24/06	METALS, ~~DISSOLVED~~ Total (List in comments below)	NH_3, NO_2/NO_3							REMARKS/ ALTERNATE DESCRIPTION
SPMW-01	950030	10-24-06	10:25	water								X	X							
SPMW-05	950031	10-24-06	1110	water								X	X							
SPMW-10R	950032	10-24-06	1155	water								X	X							
SPMW-02	950033	10-24-06	1320	water								X	X							
SPMW-06R	950034	10-24-06	1410	water								X	X							
SPMW-08	950035	10-24-06	1450	water								X	X							
SPMW-09	950036	10-24-06	1540	water								X	X							

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: R2634493

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Patrick Holmes	Signature: [signature]	Signature	Signature	Signature	Signature
Printed Name	Printed Name: Gregory O. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: OMI / Honeywell	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 10-24-06 / 1700	Date/Time: 10-25-06 9:35	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client OMI Submission Number R2-34493

Cooler received on 10-25-06 by: MT **COURIER:** CAS UPS FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	YES	NO	
2.	Were custody papers properly filled out (ink, signed, etc.)?	YES	NO	
3.	Did all bottles arrive in good condition (unbroken)?	YES	NO	
4.	Did any VOA vials have significant air bubbles?	YES	NO	N/A
5.	Were **Ice** or **Ice packs** present?	YES	NO	
6.	Where did the bottles originate?	CAS/ROC,	CLIENT	

7. Temperature of cooler(s) upon receipt:	2°				
Is the temperature within 0° - 6° C?:	Yes	Yes	Yes	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 10-25-06 @ 9:42

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

PC Secondary Review: 10/25/06

Cooler Breakdown: Date: 10/25/06 by: RJ

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

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
≥12	NaOH						
≤2	HNO_3	✓					
≤2	H_2SO_4	✓					
Residual Chlorine (+/-)	for TCN & Phenol						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: 5/11/02

H:\SMODOCS\Cooler Receipt v 3.doc

...TODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

...er

...CC

ST

...H 45635

Phone # 740, +86

FAX#

Sampler's Signature

Sampler's Printed Name

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 2 3

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	NH_3, NO_2/NO_3							REMARKS/ ALTERNATE DESCRIPTION
SPMW-03	950466	10-25-06	0855	water								X	X							
SPMW-07	950467	10-25-06	0945	water								X	X							
SPMW-07 Dup	950468	10-25-06	0945	water								X	X							
SPOB-34	950469	10-25-06	1035	water								X	X							
SPOB-12R2	950470	10-25-06	1105	water								X	X							
SPMW-11R2	950471	10-25-06	1140	water								X	X							
SPMW-12	950472	10-25-06	1300	water								X	X							
SPMW-13	950473	10-25-06	1335	water								X	X							
SPMW-04	950474	10-25-06	1410	water								X	X							
		[illegible]	[illegible]	water																

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Patrick Holmes	Signature: Rachel Jones	Signature	Signature	Signature	Signature
Printed Name	Printed Name: Rachel Jones	Printed Name	Printed Name	Printed Name	Printed Name
Firm: OMI / Honeywell	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 10-25-06 / 1600	Date/Time: 10/26/06 0920	Date/Time	Date/Time	Date/Time	Date/Time: R2634493

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: South Point
Project Number:
Project Manager: Joe Davis
Report CC:
Company/Address: OMI / Honeywell, 3329 S. 3rd ST, Ironton, OH 45638
Phone #: (740) 532-9486
FAX#:
Sampler's Signature:
Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 2, 3

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608 ☐CLP	PCB's ☐8082 ☐608 ☐CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	NH_3, NO_3/NO_2	REMARKS/ ALTERNATE DESCRIPTION
SPIS-24	950425	10-25-06	1425	water							X	X	1	
SPIS-24 Dup	950426	10-25-06	1425	water							X	X		
SPIS-23, MS, MSD	950427	10-25-06	1445	water							X	X		

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: R2634493

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Robert Holmes	Signature: Rachel Jones	Signature	Signature	Signature	Signature
Printed Name: [illegible]	Printed Name: Rachel Jones	Printed Name	Printed Name	Printed Name	Printed Name
Firm: OMI / Honeywell	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 10-25-06 / 1600	Date/Time: 10/26/06 0920	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client OMI Submission Number R2-34493.

Cooler received on 10/26/06 by: PG **COURIER:** CAS UPS FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	YES	NO	
2.	Were custody papers properly filled out (ink, signed, etc.)?	YES	NO	
3.	Did all bottles arrive in good condition (unbroken)?	YES	NO	
4.	Did any VOA vials have significant air bubbles?	YES	NO	N/A
5.	Were **Ice** or **Ice packs** present?	YES	NO	
6.	Where did the bottles originate?	CAS/ROC, CLIENT		

7. Temperature of cooler(s) upon receipt:	3°				
Is the temperature within 0° - 6° C?:	Yes	Yes	Yes	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 10/26/06 @ 0940

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

PC Secondary Review: 10/26/06

Cooler Breakdown: Date: 10-27-06 by: HE

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

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
≥12	NaOH						
≤2	HNO_3	✓					
≤2	H_2SO_4	✓					
Residual Chlorine (+/-)	for TCN & Phenol						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: 11/1/06

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Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950030 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/25/2006

Container: 9500301

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Ambient 1	Storage	☐

Container: 9500302

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:25	rjones	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐
11/22/06 7:40	gesmeria	Wet Chemistry	LTS	Storage	☐

Lab ID: 950031 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/25/2006

Container: 9500311

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Ambient 1	Storage	☐

Container: 9500312

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:25	rjones	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐
11/22/06 7:40	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950032 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/25/2006

Container: 9500321

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Ambient 1	Storage	☐

Container: 9500322

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:25	rjones	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐
11/22/06 7:40	gesmeria	Wet Chemistry	LTS	Storage	☐

Lab ID: 950033 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/25/2006

Container: 9500331

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Ambient 1	Storage	☐

Container: 9500332

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:25	rjones	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐
11/22/06 7:40	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950034 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/25/2006

Container: 9500341

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Ambient 1	Storage	☐

Container: 9500342

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:25	rjones	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐
11/22/06 7:40	gesmeria	Wet Chemistry	LTS	Storage	☐

Lab ID: 950035 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/25/2006

Container: 9500351

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Ambient 1	Storage	☐

Container: 9500352

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐
11/22/06 7:40	gesmeria	Wet Chemistry	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950036 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/25/2006

Container: 9500361

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Ambient 1	Storage	☐

Container: 9500362

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/25/06 15:26	rjones	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐
11/22/06 7:40	gesmeria	Wet Chemistry	LTS	Storage	☐

Lab ID: 950466 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504661

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504662

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:16	cwoods	Metals	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950467 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504671

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:50	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504672

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:16	cwoods	Metals	LTS	Storage	☐

Lab ID: 950468 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504681

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504682

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:16	cwoods	Metals	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950469 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504691

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504692

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Lab ID: 950470 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504701

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504702

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950471 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504711

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504712

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Lab ID: 950472 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504721

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504722

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950473 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504731

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504732

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Lab ID: 950474 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504741

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504742

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950475 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504751

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:15	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504752

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Lab ID: 950476 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504761

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:16	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504762

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

Chain of Custody

Submission: **R2634493** ***Client:*** OMI/Ironton

Lab ID: 950477 ***Matrix*** WATER

Received into CAS-Rochester Custody: 10/26/2006

Container: 9504771

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Cooler 2	Storage	☐
11/01/06 8:48	nmead	Wet Chemistry	Cooler 2	Analysis	☐
11/01/06 13:30	nmead	Wet Chemistry	Cooler 2	Storage	☐
11/07/06 8:51	splace	Wet Chemistry	Cooler 2	Analysis	☐
11/07/06 10:16	splace	Wet Chemistry	Cooler 2	Storage	☐

Container: 9504772

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/27/06 15:52	gesmeria	Sample Management	Ambient 1	Storage	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Analysis	☐
10/31/06 13:12	cwoods	Metals	Ambient 1	Storage	☐
11/22/06 13:23	cwoods	Metals	LTS	Storage	☐

METALS DATA

Columbia Analytical Services

METALS
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: r2634493 SDG No.: 950030

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

SOW No.: SW846 CLP-M

Sample ID.	Lab Sample No.
SPMW-01	950030
SPMW-05	950031
SPMW-10R	950032
SPMW-02	950033
SPMW-06R	950034
SPMW-08	950035
SPMW-09	950036
SPMW-03	950466
SPMW-07	950467
SPMW-07 DUP	950468
SPOB-34	950469
SPOB-12R2	950470
SPMW-11R2	950471
SPMW-12	950472
SPMW-13	950473
SPMW-04	950474
SPIS-24	950475
SPIS-24 DUP	950476
SPIS-23	950477
SPIS-23D	950477D
SPIS-23S	950477S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

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

Comments: See Attatched Case Narrative

Signature: Michael K. Perry Name: Michael Perry

Date: 12/1/06 Title: Laboratory Director

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPIS-23

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950477

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.1			MS
7440-41-7	Beryllium	5.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.0	U		MS
7439-96-5	Manganese	266			MS
7440-02-0	Nickel	8.8			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPIS-24

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950475

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.2			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	23.9			MS
7439-96-5	Manganese	371			MS
7440-02-0	Nickel	12.1			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPIS-24 DUP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950476

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.2			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	17.5			MS
7439-96-5	Manganese	356			MS
7440-02-0	Nickel	11.1			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-01

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950030

Level (low/med): LOW Date Received: 10/25/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	5.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.0	U		MS
7439-96-5	Manganese	16.6			MS
7440-02-0	Nickel	7.1			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-02

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950033

Level (low/med): LOW Date Received: 10/25/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.2			MS
7439-96-5	Manganese	153			MS
7440-02-0	Nickel	4.8			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
SPMW-03

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950466

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.0	U		MS
7439-96-5	Manganese	58.1			MS
7440-02-0	Nickel	5.2			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-04

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950474

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	5.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.3			MS
7439-96-5	Manganese	22.8			MS
7440-02-0	Nickel	6.0			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-05

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950031

Level (low/med): LOW Date Received: 10/25/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0			MS
7440-41-7	Beryllium	5.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	3.0			MS
7439-96-5	Manganese	43.9			MS
7440-02-0	Nickel	23.7			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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Columbia Analytical Services

METALS

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-06R

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950034

Level (low/med): LOW Date Received: 10/25/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.4			MS
7440-41-7	Beryllium	5.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	4.0			MS
7439-96-5	Manganese	3840			MS
7440-02-0	Nickel	37.2			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-07

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950467

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	2.3			MS
7439-96-5	Manganese	407			MS
7440-02-0	Nickel	8.0			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-07 DUP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950468

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	3.8			MS
7439-96-5	Manganese	391			MS
7440-02-0	Nickel	8.2			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-08

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950035

Level (low/med): LOW Date Received: 10/25/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.3			MS
7439-96-5	Manganese	1350			MS
7440-02-0	Nickel	12.2			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-09

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950036

Level (low/med): LOW Date Received: 10/25/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	5.5			MS
7440-43-9	Cadmium	11.0			MS
7440-50-8	Copper	2520			MS
7439-96-5	Manganese	15200			MS
7440-02-0	Nickel	682			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-10R

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950032

Level (low/med): LOW Date Received: 10/25/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.8			MS
7440-41-7	Beryllium	5.0	U		MS
7440-43-9	Cadmium	1.1			MS
7440-50-8	Copper	5.2			MS
7439-96-5	Manganese	585			MS
7440-02-0	Nickel	72.7			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

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Columbia Analytical Services

METALS
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-11R2

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950471

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	5.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.7			MS
7439-96-5	Manganese	56.2			MS
7440-02-0	Nickel	19.6			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-12

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950472

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.6			MS
7439-96-5	Manganese	73.5			MS
7440-02-0	Nickel	11.8			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Form I - IN

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPMW-13

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950473

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.0	U		MS
7439-96-5	Manganese	246			MS
7440-02-0	Nickel	3.3			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Form I - IN

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPOB-12R2

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950470

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	2.0			MS
7439-96-5	Manganese	78.9			MS
7440-02-0	Nickel	17.3			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Form I - IN

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPOB-34

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Matrix (soil/water): WATER Lab Sample ID: 950469

Level (low/med): LOW Date Received: 10/26/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10.4			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-50-8	Copper	1.1			MS
7439-96-5	Manganese	409			MS
7440-02-0	Nickel	10.7			MS

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Form I - IN

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	50	50	100	50	50	100	50	100	MS
Cadmium	50	49	98	50	53	106	53	106	MS
Nickel	50	50	100	50	51	102	51	102	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				50	49	98	49	98	MS
Cadmium				50	52	104	51	102	MS
Nickel				50	50	100	49	98	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				50	50	100	48	96	MS
Cadmium				50	52	104	52	104	MS
Nickel				50	53	106	53	106	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				50	50	100			MS
Cadmium				50	50	100			MS
Nickel				50	53	106			MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Beryllium	50	46	92	50	49	98	49	98	MS
Cadmium	50	49	98	50	50	100	49	98	MS
Copper	50	50	100	50	51	102	48	96	MS
Manganese	50	49	98	50	48	96	49	98	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Beryllium				50	51	102	50	100	MS
Cadmium				50	51	102	52	104	MS
Copper				50	49	98	50	100	MS
Manganese				50	49	98	50	100	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Beryllium				50	50	100			MS
Cadmium				50	52	104			MS
Copper				50	50	100			MS
Manganese				50	50	100			MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Beryllium	50	49	98	50	47	94	51	102	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Beryllium				50	52	104	49	98	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	50	50	100	50	53	106	53	106	MS
Beryllium	50	49	98	50	52	104	52	104	MS
Cadmium	50	50	100	50	51	102	52	104	MS
Manganese	50	53	106	50	54	108	54	108	MS
Nickel	50	52	104	50	53	106	53	106	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				50	52	104	50	100	MS
Beryllium				50	51	102	50	100	MS
Cadmium				50	51	102	50	100	MS
Manganese				50	52	104	52	104	MS
Nickel				50	51	102	50	100	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				50	53	106	53	106	MS
Beryllium				50	53	106	53	106	MS
Cadmium				50	52	104	52	104	MS
Manganese				50	54	108	54	108	MS
Nickel				50	54	108	55	110	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				50	52	104			MS
Beryllium				50	52	104			MS
Cadmium				50	53	106			MS
Manganese				50	55	110			MS
Nickel				50	54	108			MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	50	54	108	50	52	104	52	104	MS
Manganese	50	53	106	50	53	106	52	104	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper				50	51	102	51	102	MS
Manganese				50	53	106	52	104	MS

Comments:

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Initial Calibration Source: ACCUSTANDARD

Continuing Calibration Source: ACCUSTANDARD

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper				50	51	102			MS
Manganese				50	51	102			MS

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.0	1.02	102	1.01	101
Cadmium				1.0	1.02	102	1.04	104
Nickel				1.0	1.09	109	1.07	107

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.0			1.01	101
Cadmium				1.0			1.06	106
Nickel				1.0			1.08	108

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.0			1.00	100
Cadmium				1.0			1.00	100
Nickel				1.0			1.13	113

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Beryllium				1.0	0.99	99	1.01	101
Cadmium				1.0	0.98	98	1.06	106
Copper				1.0	1.03	103	1.03	103
Manganese				1.0	1.01	101	1.06	106

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Beryllium				1.0	1.05	105	1.10	110

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.0	1.08	108	1.05	105
Beryllium				1.0	1.02	102	1.04	104
Cadmium				1.0	1.01	101	0.99	99
Manganese				1.0	1.15	115	1.12	112
Nickel				1.0	0.98	98	0.91	91

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.0			1.06	106
Beryllium				1.0			1.05	105
Cadmium				1.0			1.02	102
Manganese				1.0			1.10	110
Nickel				1.0			0.93	93

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				1.0			1.04	104
Beryllium				1.0			1.01	101
Cadmium				1.0			1.02	102
Manganese				1.0			1.10	110
Nickel				1.0			0.95	95

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				1.0	1.03	103	1.05	105
Manganese				1.0	1.11	111	1.07	107

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				1.0			1.00	100
Manganese				1.0			1.08	108

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

AA CRDL Standard Source: _____

ICP CRDL Standard Source: INORGANIC VENTURES

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				1.0			1.01	101
Manganese				1.0			1.07	107

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Cadmium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Nickel	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			1.000	U	1.000	U	1.000	U			MS
Cadmium			1.000	U	1.000	U	1.000	U			MS
Nickel			1.000	U	1.000	U	1.000	U			MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			1.000	U							MS
Cadmium			1.000	U							MS
Nickel			1.000	U							MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Beryllium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Cadmium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Copper	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Manganese	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C		M
Beryllium			1.000	U	1.000	U							MS
Cadmium			1.000	U	1.000	U							MS
Copper			1.000	U	1.000	U							MS
Manganese			1.000	U	1.000	U							MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C		M
Beryllium	1.000	U	1.000	U	1.000	U	1.000	U					MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Beryllium			1.000	U							MS

Comments:

Form III - IN

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Beryllium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Cadmium	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Manganese	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Nickel	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C		M
Arsenic			1.000	U	1.000	U	1.000	U					MS
Beryllium			1.000	U	1.000	U	1.000	U					MS
Cadmium			1.000	U	1.000	U	1.000	U					MS
Manganese			1.000	U	1.000	U	1.000	U					MS
Nickel			1.000	U	1.000	U	1.000	U					MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			1.000	U							MS
Beryllium			1.000	U							MS
Cadmium			1.000	U							MS
Manganese			1.000	U							MS
Nickel			1.000	U							MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Manganese	1.000	U	1.000	U	1.000	U	1.000	U			MS

Comments:

METALS

-3-

BLANKS

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Copper			1.000	U	1.000	U					MS
Manganese			1.000	U	1.000	U					MS

Comments:

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ICP ID Number: PE ICPMS ICS Source: INORGANIC VENTURES

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.00	20.00	0.60	19.19	96			
Cadmium	0.00	20.00	0.03	19.78	99			
Nickel	0.00	20.00	0.55	18.49	92			

METALS

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ICP INTERFERENCE CHECK SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ICP ID Number: PE ICPMS ICS Source: INORGANIC VENTURES

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Beryllium	0.00		-0.01	-0.01				
Cadmium	0.00	20.00	0.02	20.03	100			
Copper	0.00	20.00	1.21	18.52	93			
Manganese	0.54	20.00	0.32	18.86	94			

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ICP ID Number: PE ICPMS ICS Source: INORGANIC VENTURES

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Beryllium	0.00		0.02	0.08				

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ICP ID Number: PE ICPMS ICS Source: INORGANIC VENTURES

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.00	20.00	0.77	20.95	105			
Beryllium	0.00		0.01	0.08				
Cadmium	0.00	20.00	0.04	20.27	101			
Manganese	0.54	20.00	0.32	20.88	104			
Nickel	0.00	20.00	0.49	20.28	101			

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ICP ID Number: PE ICPMS ICS Source: INORGANIC VENTURES

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper	0.00	20.00	1.09	18.49	92			
Manganese	0.54	20.00	0.26	19.71	99			

METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

SPIS-23S

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	22.40		2.14		20.0	101		MS
Beryllium	75 - 125	19.30		5.00	U	20.0	96		MS
Cadmium	75 - 125	19.40		1.00	U	20.0	97		MS
Copper	75 - 125	19.80		1.00	U	20.0	99		MS
Manganese		286.00		266.00		20.0	100		MS
Nickel	75 - 125	30.70		8.82		20.0	109		MS

Comments:

METALS
-5B-
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

SPIS-23A

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS _____ SDG NO.: 950030

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

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic		20.6		2.1		20	92		MS
Beryllium		19.0		1.0	U	20	95		MS
Cadmium		19.4		1.0	U	20	97		MS
Copper		21.0		1.0	U	20	105		MS
Manganese		45.5		26.6		20	94		MS
Nickel		28.9		8.8		20	100		MS

Comments:

METALS
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DUPLICATES

SAMPLE NO.

SPIS-23D

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

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

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

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.0	2.14		2.26		5		MS
Beryllium		5.00	U	5.00	U			MS
Cadmium		1.00	U	1.00	U			MS
Copper		1.00	U	1.00	U			MS
Manganese		266.00		269.00		1		MS
Nickel		8.82		9.35		6		MS

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Solid LCS Source: _____

Aqueous LCS Source: ACCUSTANDARD

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Arsenic	20	19.50	98					
Cadmium	20	21.20	106					
Nickel	20	23.10	116					

Comments: _____

METALS

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LABORATORY CONTROL SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Solid LCS Source: _____

Aqueous LCS Source: ACCUSTANDARD

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Beryllium	20	17.30	86					
Cadmium	20	18.60	93					
Copper	20	21.40	107					
Manganese	20	20.30	102					

Comments: _____

METALS

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LABORATORY CONTROL SAMPLE

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Solid LCS Source: _____

Aqueous LCS Source: ACCUSTANDARD

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Arsenic	20	19.70	98					
Beryllium	20	19.30	96					
Cadmium	20	20.30	102					
Copper	20	21.30	106					
Manganese	20	23.30	116					
Nickel	20	22.60	113					

Comments: _____

METALS

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ICP SERIAL DILUTIONS

SAMPLE NO.

SPMW-01L

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	1.00	U	5.00	U			MS
Beryllium	1.00	U	5.00	U			MS
Cadmium	1.00	U	5.00	U			MS
Copper	1.00	U	5.00	U			MS
Manganese	16.57		17.07		3		MS
Nickel	7.11		6.60		7		MS

Comments:

Form IX - IN

METALS

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ICP SERIAL DILUTIONS

SAMPLE NO.

SPIS-23L

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	2.14		5.00	U	100.0		MS
Beryllium	1.00	U	5.00	U			MS
Cadmium	1.00	U	5.00	U			MS
Copper	1.00	U	5.00	U			MS
Manganese	26.65		28.08		5		MS
Nickel	8.82		8.31		6		MS

Comments:

Form IX - IN

METALS
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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ICP ID Number: PE ICPMS Date: 1/2/03

Flame AA ID Number: _____

Furnace AA ID Number:

Analyte	Isotope	Back-ground	PQL (ug/L)	IDL (ug/L)	M
Arsenic	75		1.00	1.00	MS
Beryllium	9		1.00	1.00	MS
Cadmium	111		1.00	1.00	MS
Copper	63		1.00	1.00	MS
Manganese	55		1.00	1.00	MS
Nickel	60		1.00	1.00	MS

Comments:

METALS
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ICP LINEAR RANGES (QUARTERLY)

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ICP ID Number: PE ICPMS Date: 8/28/06

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	0.100	200	MS
Beryllium	0.100	200	MS
Cadmium	0.100	200	MS
Copper	0.100	200	MS
Manganese	0.100	200	MS
Nickel	0.100	200	MS

Comments:

METALS

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PREPARATION LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
SPMW-03	10/31/06	50.0	50.0
SPMW-07	10/31/06	50.0	50.0
SPMW-07 DUP	10/31/06	50.0	50.0
SPOB-34	10/31/06	50.0	50.0
SPOB-12R2	10/31/06	50.0	50.0
SPMW-11R2	10/31/06	50.0	50.0
SPMW-12	10/31/06	50.0	50.0
SPMW-13	10/31/06	50.0	50.0
SPMW-04	10/31/06	50.0	50.0
SPIS-24	10/31/06	50.0	50.0
SPIS-24 DUP	10/31/06	50.0	50.0
SPIS-23	10/31/06	50.0	50.0
SPIS-23D	10/31/06	50.0	50.0
SPIS-23S	10/31/06	50.0	50.0
LCSW	10/31/06	50.0	50.0
PBW	10/31/06	50.0	50.0

Comments:

METALS

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PREPARATION LOG

ontract: r2634493

ab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

ethod: MS

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
SPMW-03	11/15/06	50.0	50.0
SPMW-07	11/15/06	50.0	50.0
SPMW-07 DUP	11/15/06	50.0	50.0
SPOB-34	11/15/06	50.0	50.0
SPOB-12R2	11/15/06	50.0	50.0
SPMW-11R2	11/15/06	50.0	50.0
SPMW-12	11/15/06	50.0	50.0
SPMW-13	11/15/06	50.0	50.0
SPMW-04	11/15/06	50.0	50.0
SPIS-24	11/15/06	50.0	50.0
SPIS-24 DUP	11/15/06	50.0	50.0
SPIS-23	11/15/06	50.0	50.0
SPIS-23D	11/15/06	50.0	50.0
SPIS-23S	11/15/06	50.0	50.0
LCSW	11/15/06	50.0	50.0
PBW	11/15/06	50.0	50.0

Comments:

METALS

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PREPARATION LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 950030

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
SPMW-01	11/15/06	50.0	50.0
SPMW-05	11/15/06	50.0	50.0
SPMW-10R	11/15/06	50.0	50.0
SPMW-02	11/15/06	50.0	50.0
SPMW-06R	11/15/06	50.0	50.0
SPMW-08	11/15/06	50.0	50.0
SPMW-09	11/15/06	50.0	50.0
LCSW	11/15/06	50.0	50.0
PBW	11/15/06	50.0	50.0

Comments:

Instrument Tuning Report

File Name: epa.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.025	580	2090	0.691	
Be	9.012	9.028	2037	2070	0.708	
Mg	23.985	23.978	5673	2080	0.740	
Co	58.933	58.929	14164	2100	0.701	
Rh	102.905	102.929	24878	2130	0.711	
In	114.904	114.878	27783	2150	0.697	
Ba	137.905	137.929	33394	2170	0.670	
Ce	139.905	139.879	33870	2160	0.696	
Pb	207.977	207.979	50438	2220	0.693	
U	238.050	237.975	57736	2250	0.695	

Report Date/Time: Monday, November 13, 2006 09:21:48

Instrument Tuning Report

File Name: epa.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.027	580	2090	0.709	
Be	9.012	9.028	2032	2070	0.720	
Mg	23.985	23.979	5661	2080	0.733	
Co	58.933	58.928	14165	2100	0.703	
Rh	102.905	102.929	24872	2130	0.713	
In	114.904	114.928	27801	2150	0.708	
Ba	137.905	137.879	33388	2170	0.708	
Ce	139.905	139.929	33864	2160	0.710	
Pb	207.977	207.978	50426	2220	0.693	
U	238.050	238.026	57747	2250	0.692	

Instrument Tuning Report

File Name: epa.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.027	582	2090	0.707	
Be	9.012	9.028	2035	2070	0.714	
Mg	23.985	24.029	5671	2080	0.729	
Co	58.933	58.929	14163	2100	0.707	
Rh	102.905	102.879	24865	2130	0.719	
In	114.904	114.878	27794	2150	0.711	
Ba	137.905	137.929	33393	2170	0.693	
Ce	139.905	139.879	33857	2160	0.710	
Pb	207.977	207.979	50426	2220	0.698	
U	238.050	238.076	57753	2250	0.705	

Report Date/Time: Monday, November 20, 2006 09:09:52

Instrument Tuning Report

File Name: epa.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.025	579	2090	0.701	
Be	9.012	8.978	2036	2070	0.704	
Mg	23.985	23.978	5663	2080	0.725	
Co	58.933	58.928	14167	2100	0.700	
Rh	102.905	102.929	24873	2130	0.720	
In	114.904	114.928	27790	2150	0.702	
Ba	137.905	137.929	33401	2170	0.693	
Ce	139.905	139.928	33877	2160	0.710	
Pb	207.977	207.928	50426	2220	0.701	
U	238.050	238.076	57741	2250	0.703	

Columbia Analytical Services

METALS
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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/13/06 End Date: 11/13/06

Sample ID.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	13:39				X			X										X								
Standard 1	1.00	13:44				X			X										X								
Standard 2	1.00	13:50				X			X										X								
Standard 3	1.00	13:56				X			X										X								
ICV1	1.00	14:02				X			X										X								
ICB1	1.00	14:08				X			X										X								
CRDL1	1.00	14:14				X			X										X								
ICS-A1	1.00	14:20				X			X										X								
ICS-AB1	1.00	14:26				X			X										X								
CCV1	1.00	14:32				X			X										X								
CCB1	1.00	14:38				X			X										X								
QC Std 8	1.00	14:44				X			X										X								
ZZZZZZ	1.00	14:50																									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:10																									
ZZZZZZ	5.00	15:16																									
ZZZZZZ	1.00	15:22																									
ZZZZZZ	1.00	15:28																									
ZZZZZZ	1.00	15:34																									
ZZZZZZ	1.00	15:40																									
ZZZZZZ	1.00	15:46																									
ZZZZZZ	1.00	15:52																									
ZZZZZZ	1.00	15:58																									
ZZZZZZ	1.00	16:04																									
ZZZZZZ	1.00	16:10																									
ZZZZZZ	1.00	16:16																									
ZZZZZZ	1.00	16:22																									
ZZZZZZ	1.00	16:28																									
CRDL2	1.00	16:34				X			X										X								
HLCCV2	1.00	16:40				X			X										X								
CCV3	1.00	16:46				X			X										X								
CCB3	1.00	16:52				X			X										X								

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

Form XIV - IN

Columbia Analytical Services

METALS
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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/13/06 End Date: 11/13/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
PBW	1.00	16:58				X			X										X								
LCSW	1.00	17:03				X			X										X								
ZZZZZZ	1.00	17:12																									
ZZZZZZ	10.00	17:18																									
ZZZZZZ	10.00	17:24																									
ZZZZZZ	10.00	17:30																									
ZZZZZZ	10.00	17:35																									
ZZZZZZ	10.00	17:41																									
ZZZZZZ	10.00	17:47																									
ZZZZZZ	10.00	17:53																									
CCV4	1.00	17:59				X			X										X								
CCB4	1.00	18:05				X			X										X								
ZZZZZZ	10.00	18:11																									
ZZZZZZ	10.00	18:17																									
ZZZZZZ	10.00	18:23																									
ZZZZZZ	10.00	18:29																									
ZZZZZZ	10.00	18:35																									
ZZZZZZ	10.00	18:41																									
ZZZZZZ	10.00	18:47																									
ZZZZZZ	10.00	18:53																									
ZZZZZZ	10.00	18:59																									
ZZZZZZ	1.00	19:05																									
ZZZZZZ	1.00	19:11																									
ZZZZZZ	100.00	19:17																									
ZZZZZZ	100.00	19:23																									
ZZZZZZ	100.00	19:29																									
ZZZZZZ	100.00	19:35																									
ZZZZZZ	100.00	19:41																									
ZZZZZZ	100.00	19:47																									
ZZZZZZ	1.00	19:53																									
CRDL3	1.00	19:59				X			X										X								
CCV6	1.00	20:05				X			X										X								
CCB6	1.00	20:11				X			X										X								

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

Form XIV - IN

METALS
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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/13/06 End Date: 11/13/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SPMW-03	1.00	20:17				X			X										X								
SPMW-07	1.00	20:23				X			X										X								
SPMW-07 DUP	1.00	20:29				X			X										X								
SPOB-34	1.00	20:35				X			X										X								
SPOB-12R2	1.00	20:41				X			X										X								
SPMW-11R2	1.00	20:47				X			X										X								
SPMW-12	1.00	20:53				X			X										X								
SPMW-13	1.00	20:59				X			X										X								
SPMW-04	1.00	21:05				X													X								
CCV7	1.00	21:10				X			X										X								
CCB7	1.00	21:16				X			X										X								
SPIS-24	1.00	21:22				X			X										X								
SPIS-24 DUP	1.00	21:28				X			X										X								
SPIS-23	1.00	21:34				X													X								
SPIS-23D	1.00	21:40				X													X								
SPIS-23S	1.00	21:46				X													X								
SPIS-23A	1.00	21:52				X													X								
SPIS-23L	5.00	21:58				X													X								
ZZZZZZ	10.00	22:04																									
ZZZZZZ	10.00	22:10																									
CCV8	1.00	22:16				X			X										X								
CCB8	1.00	22:22				X			X										X								
ZZZZZZ	10.00	22:28																									
ZZZZZZ	10.00	22:34																									
ZZZZZZ	10.00	22:40																									
ZZZZZZ	10.00	22:46																									
CRDL4	1.00	22:52				X			X										X								
CCV9	1.00	22:58				X			X										X								
CCB9	1.00	23:04				X			X										X								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 1

Columbia Analytical Services

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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/17/06 End Date: 11/17/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	15:28						X	X				X				X										
Standard 1	1.00	15:34						X	X				X				X										
Standard 2	1.00	15:40						X	X				X				X										
Standard 3	1.00	15:46						X	X				X				X										
ICV2	1.00	15:51						X	X				X				X										
ICB2	1.00	15:57						X	X				X				X										
CRDL1	1.00	16:03						X	X				X				X										
ICS-A1	1.00	16:09						X	X				X				X										
ICS-AB1	1.00	16:15						X	X				X				X										
CCV1	1.00	16:21						X	X				X				X										
CCB1	1.00	16:27						X	X				X				X										
QC Std 8	1.00	16:33						X	X				X				X										
PBW	1.00	16:39						X	X				X				X										
LCSW	1.00	16:45						X	X				X				X										
SPMW-03	1.00	16:51						X					X				X										
SPMW-07	10.00	16:57															X										
SPMW-07	1.00	17:03						X					X														
SPMW-07 DUP	10.00	17:09															X										
SPMW-07 DUP	1.00	17:15						X					X														
SPOB-34	10.00	17:21															X										
SPOB-34	1.00	17:27						X					X														
CCV2	1.00	17:33						X	X				X				X										
CCB2	1.00	17:39						X	X				X				X										
SPOB-12R2	1.00	17:45											X				X										
SPMW-11R2	1.00	17:51											X				X										
SPMW-12	1.00	17:57											X				X										
SPMW-13	10.00	18:03															X										
SPMW-13	1.00	18:09											X														
SPMW-04	1.00	18:15							X				X				X										
SPIS-24	10.00	18:21															X										
SPIS-24	1.00	18:26											X														
SPIS-24 DUP	10.00	18:32															X										
CCV3	1.00	18:38						X	X				X				X										

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 1

Form XIV - IN

METALS
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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/17/06 End Date: 11/17/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB3	1.00	18:44						X	X				X				X										
SPIS-24 DUP	1.00	18:50											X														
SPIS-23	10.00	18:56															X										
SPIS-23D	10.00	19:02															X										
SPIS-23S	10.00	19:08															X										
SPIS-23A	10.00	19:14															X										
SPIS-23L	10.00	19:20															X										
SPIS-23	1.00	19:26							X				X														
SPIS-23D	1.00	19:32							X				X														
SPIS-23S	1.00	19:38							X				X														
CCV4	1.00	19:44						X	X				X				X										
CCB4	1.00	19:50						X	X				X				X										
SPIS-23A	1.00	19:56							X				X														
SPIS-23L	5.00	20:02							X				X														
ZZZZZZ	100.00	20:08																									
ZZZZZZ	100.00	20:14																									
ZZZZZZ	100.00	20:20																									
ZZZZZZ	100.00	20:26																									
ZZZZZZ	100.00	20:32																									
ZZZZZZ	100.00	20:38																									
ZZZZZZ	1.00	20:44																									
CRDL2	1.00	20:50						X	X				X				X										
HLCCV2	1.00	20:56						X	X				X				X										
CCV5	1.00	21:02						X	X				X				X										
CCB5	1.00	21:08						X	X				X				X										

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form ~~14~~ 108

Columbia Analytical Services

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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/20/06 End Date: 11/20/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	09:28						X																			
Standard 1	1.00	09:34						X																			
Standard 2	1.00	09:40						X																			
Standard 3	1.00	09:46						X																			
ICV3	1.00	09:52						X																			
ICB3	1.00	09:58						X																			
CRDL1	1.00	10:04						X																			
ICS-A1	1.00	10:10						X																			
ICS-AB1	1.00	10:16						X																			
CCV1	1.00	10:22						X																			
CCB1	1.00	10:28						X																			
QC Std 8	1.00	10:34						X																			
ZZZZZZ	1.00	10:40																									
ZZZZZZ	1.00	10:46																									
SPOB-12R2	1.00	10:52						X																			
ZZZZZZ	1.00	10:58																									
SPMW-12	1.00	11:04						X																			
SPMW-13	1.00	11:10						X																			
ZZZZZZ	1.00	11:16																									
SPIS-24	1.00	11:22						X																			
SPIS-24 DUP	1.00	11:28						X																			
CCV2	1.00	11:34						X																			
CCB2	1.00	11:40						X																			
ZZZZZZ	1.00	11:45																									
ZZZZZZ	1.00	11:51																									
ZZZZZZ	1.00	11:57																									
ZZZZZZ	1.00	12:03																									
ZZZZZZ	5.00	12:09																									
ZZZZZZ	10.00	12:15																									
ZZZZZZ	10.00	12:23																									
ZZZZZZ	10.00	12:29																									
ZZZZZZ	10.00	12:35																									
ZZZZZZ	10.00	12:41																									

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

Form XIV - IN

METALS
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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/20/06 End Date: 11/20/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	10.00	12:47																									
SPMW-11R2	5.00	12:53						X																			
SPMW-04	5.00	12:59						X																			
SPIS-23	5.00	13:05						X																			
SPIS-23D	5.00	13:11						X																			
CCV3	1.00	13:17						X																			
CCB3	1.00	13:23						X																			
SPIS-23S	5.00	13:29						X																			
SPIS-23A	5.00	13:35						X																			
SPIS-23L	5.00	13:40						X																			
CRDL2	1.00	13:46						X																			
HLCCV2	1.00	13:52						X																			
CCV4	1.00	13:58						X																			
CCB4	1.00	14:04						X																			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 1

Columbia Analytical Services

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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/21/06 End Date: 11/21/06

Sample ID.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	09:33				X		X	X								X		X								
Standard 1	1.00	09:38				X		X	X								X		X								
Standard 2	1.00	09:44				X		X	X								X		X								
Standard 3	1.00	09:50				X		X	X								X		X								
ICV4	1.00	09:56				X		X	X								X		X								
ICB4	1.00	10:02				X		X	X								X		X								
CRDL1	1.00	10:08				X		X	X								X		X								
ICS-A1	1.00	10:14				X		X	X								X		X								
ICS-AB1	1.00	10:20				X		X	X								X		X								
CCV1	1.00	10:26				X		X	X								X		X								
CCB1	1.00	10:32				X		X	X								X		X								
QC Std 8	1.00	10:38				X		X	X								X		X								
PBW	1.00	10:44				X		X	X								X		X								
LCSW	1.00	10:50				X		X	X								X		X								
ZZZZZZ	2.00	10:56																									
SPMW-01	1.00	11:02				X			X								X		X								
ZZZZZZ	1.00	11:08																									
ZZZZZZ	1.00	11:14																									
ZZZZZZ	1.00	11:20																									
SPMW-01L	5.00	11:26				X			X								X		X								
SPMW-05	1.00	11:32				X			X								X		X								
CCV2	1.00	11:38				X		X	X								X		X								
CCB2	1.00	11:44				X		X	X								X		X								
SPMW-10R	1.00	11:50				X			X										X								
SPMW-02	1.00	11:56				X		X	X										X								
SPMW-06R	1.00	12:02				X			X										X								
SPMW-08	1.00	12:08				X		X	X										X								
SPMW-09	1.00	12:14				X			X																		
CRDL2	1.00	12:19				X		X	X								X		X								
ZZZZZZ	1.00	12:25																									
CCV3	1.00	12:31				X		X	X								X		X								
CCB3	1.00	12:37				X		X	X								X		X								
SPMW-01	5.00	12:49						X																			

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

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Form XIV - IN

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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/21/06 End Date: 11/21/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	5.00	12:55																									
ZZZZZZ	5.00	13:01																									
CCV4	1.00	13:07				X		X	X								X		X								
CCB4	1.00	13:13				X		X	X								X		X								
ZZZZZZ	5.00	13:18																									
SPMW-01L	5.00	13:24						X																			
SPMW-05	5.00	13:30						X																			
SPMW-10R	5.00	13:36						X																			
SPMW-06R	100.00	13:42															X										
SPMW-06R	5.00	13:48						X																			
SPMW-08	20.00	13:54															X										
SPMW-09	500.00	14:00															X										
SPMW-09	100.00	14:06																									
CCV5	1.00	14:12				X		X	X								X		X								
CCB5	1.00	14:18				X		X	X								X		X								
SPMW-09	5.00	14:24						X											X								
CRDL3	1.00	14:30				X		X	X								X		X								
HLCCV2	1.00	14:36				X		X	X								X		X								
CCV6	1.00	14:42				X		X	X								X		X								
CCB6	1.00	14:48				X		X	X								X		X								
SPMW-10R	10.00	15:04															X										
CRDL4	1.00	15:10				X		X	X								X		X								
CCV7	1.00	15:15				X		X	X								X		X								
CCB7	1.00	15:21				X		X	X								X		X								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 1A

Columbia Analytical Services

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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/22/06 End Date: 11/22/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.00	09:48											X				X										
Standard 1	1.00	09:54											X				X										
Standard 2	1.00	10:00											X				X										
Standard 3	1.00	10:06											X				X										
ICV5	1.00	10:12											X				X										
ICB5	1.00	10:18											X				X										
CRDL1	1.00	10:24											X				X										
ICS-A1	1.00	10:30											X				X										
ICS-AB1	1.00	10:36											X				X										
CCV1	1.00	10:42											X				X										
CCB1	1.00	10:48											X				X										
QC Std 8	1.00	10:54											X				X										
PBW	1.00	11:00											X														
LCSW	1.00	11:06											X														
ZZZZZZ	1.00	11:12																									
ZZZZZZ	1.00	11:18																									
ZZZZZZ	1.00	11:24																									
ZZZZZZ	1.00	11:30																									
ZZZZZZ	5.00	11:36																									
ZZZZZZ	1.00	11:42																									
ZZZZZZ	1.00	11:48																									
CCV2	1.00	11:54											X				X										
CCB2	1.00	11:59											X				X										
SPMW-02	5.00	12:05															X										
SPMW-02	1.00	12:11											X														
SPMW-06R	1.00	12:17											X														
SPMW-08	1.00	12:23											X														
SPMW-09	100.00	12:29											X														
CRDL2	1.00	12:35											X				X										
HLCCV2	1.00	12:41											X				X										
CRDL3	1.00	12:47											X				X										
CCV3	1.00	12:53											X				X										
CCB3	1.00	12:59											X				X										

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

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ANALYSIS RUN LOG

Contract: r2634493

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 950030

Instrument ID Number: PE ICPMS Method: MS

Start Date: 11/22/06 End Date: 11/22/06

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:29																									
ZZZZZZ	1.00	13:35																									
ZZZZZZ	1.00	13:41																									
CCV4	1.00	13:47											X				X										
CCB4	1.00	13:53											X				X										
SPMW-01	1.00	14:04											X														
ZZZZZZ	1.00	14:10																									
ZZZZZZ	1.00	14:16																									
ZZZZZZ	1.00	14:22																									
SPMW-01L	5.00	14:28											X														
SPMW-05	1.00	14:34											X														
SPMW-10R	1.00	14:40											X														
CRDL4	1.00	14:46											X				X										
CCV5	1.00	14:52											X				X										
CCB5	1.00	14:58											X				X										

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

METALS

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

ab Name: Columbia Analytical Services Contract: r2634493

ab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

CP-MS Instrument ID: PE ICPMS Start Date: 11/13/2006 End Date: 11/13/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
Blank	Blank	13:39	100		100		100		100		100			
Standard 1	Standard 1	13:44	99		98		98		101		99			
Standard 2	Standard 2	13:50	96		96		97		100		96			
Standard 3	Standard 3	13:56	94		98		97		100		97			
ICV1	ICV1	14:02	93		95		97		98		96			
ICB1	ICB1	14:08	94		97		98		98		95			
CRDL1	CRDL1	14:14	95		95		96		99		95			
ICS-A1	ICS-A1	14:20	91		104		94		92		91			
ICS-AB1	ICS-AB1	14:26	89		102		93		93		92			
CCV1	CCV1	14:32	93		96		91		95		93			
CCB1	CCB1	14:38	92		98		94		96		96			
QC Std 8	QC Std 8	14:44	94		99		95		99		95			
CRDL2	CRDL2	16:34	98		99		94		99		99			
HLCCV2	HLCCV2	16:40	95		96		91		96		94			
CCV3	CCV3	16:46	97		96		93		97		95			
CCB3	CCB3	16:52	97		98		95		99		98			
PBW-M399013	PBW	16:58	101		100		100		102		99			
LCSW-M39901	LCSW	17:03	105		109		109		109		108			
CCV4	CCV4	17:59	97		99		97		98		97			
CCB4	CCB4	18:05	98		99		96		99		97			
CRDL3	CRDL3	19:59	100		101		98		103		101			
CCV6	CCV6	20:05	97		101		99		102		99			
CCB6	CCB6	20:11	100		100		97		102		99			
950466	SPMW-03	20:17	102		106		124		103		102			
950467	SPMW-07	20:23	100		109		114		102		99			
950468	SPMW-07 DUP	20:29	103		111		117		106		104			
950469	SPOB-34	20:35	107		110		122		110		107			
950470	SPOB-12R2	20:41	108		109		129	*	112		108			
950471	SPMW-11R2	20:47	109		110		133	*	116		112			
950472	SPMW-12	20:53	112		114		134	*	118		116			
950473	SPMW-13	20:59	120		116		133	*	120		118			
950474	SPMW-04	21:05	117		114		138	*	121		118			
CCV7	CCV7	21:10	108		99		105		107		106			
CCB7	CCB7	21:16	109		100		104		108		107			
950475	SPIS-24	21:22	115		111		135	*	115		112			
950476	SPIS-24 DUP	21:28	113		111		131	*	113		114			
950477	SPIS-23	21:34	119		114		143	*	124		120			
950477D	SPIS-23D	21:40	121		110		138	*	121		118			
950477S	SPIS-23S	21:46	116		109		137	*	119		119			
950477A	SPIS-23A	21:52	116		109		139	*	118		118			
950477L	SPIS-23L	21:58	116		103		120		116		119			
CCV8	CCV8	22:16	112		95		108		107		110			
CCB8	CCB8	22:22	111		96		111		111		113			
CRDL4	CRDL4	22:52	111		96		111		111		113			
CCV9	CCV9	22:58	108		93		107		109		109			

METALS

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: r2634493

Lab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

ICP-MS Instrument ID: PE ICPMS Start Date: 11/13/2006 End Date: 11/13/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
CCB9	CCB9	23:04	110		95		110		107		110			

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: r2634493

Lab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

ICP-MS Instrument ID: PE ICPMS Start Date: 11/17/2006 End Date: 11/17/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
Blank	Blank	15:28	100		100		100		100		100			
Standard 1	Standard 1	15:34	101		103		103		101		101			
Standard 2	Standard 2	15:40	99		99		98		100		98			
Standard 3	Standard 3	15:46	96		100		98		98		96			
ICV2	ICV2	15:51	99		98		100		98		95			
ICB2	ICB2	15:57	96		97		96		97		94			
CRDL1	CRDL1	16:03	96		98		98		100		97			
ICS-A1	ICS-A1	16:09	96		109		99		98		95			
ICS-AB1	ICS-AB1	16:15	96		109		100		99		93			
CCV1	CCV1	16:21	95		103		98		99		95			
CCB1	CCB1	16:27	97		100		99		96		93			
QC Std 8	QC Std 8	16:33	94		101		96		97		94			
PBW-M399014	PBW	16:39	94		101		97		98		96			
LCSW-M39901	LCSW	16:45	98		107		109		104		98			
950466	SPMW-03	16:51	96		107		119		101		95			
950467	SPMW-07	16:57	95		106		101		98		94			
950467	SPMW-07	17:03	97		113		116		101		96			
950468	SPMW-07 DUP	17:09	95		110		102		102		96			
950468	SPMW-07 DUP	17:15	98		116		119		105		97			
950469	SPOB-34	17:21	98		109		106		103		97			
950469	SPOB-34	17:27	98		115		118		103		97			
CCV2	CCV2	17:33	98		106		105		104		97			
CCB2	CCB2	17:39	96		104		102		102		97			
950470	SPOB-12R2	17:45	99		110		128	*	103		98			
950471	SPMW-11R2	17:51	100		111		128	*	104		97			
950472	SPMW-12	17:57	100		112		127	*	105		100			
950473	SPMW-13	18:03	100		107		105		104		100			
950473	SPMW-13	18:09	103		113		122		108		101			
950474	SPMW-04	18:15	103		111		131	*	108		100			
950475	SPIS-24	18:21	100		104		104		103		100			
950475	SPIS-24	18:26	99		107		123		104		100			
950476	SPIS-24 DUP	18:32	102		105		109		105		101			
CCV3	CCV3	18:38	101		103		104		103		100			
CCB3	CCB3	18:44	99		101		103		104		100			
950476	SPIS-24 DUP	18:50	103		107		122		105		102			
950477	SPIS-23	18:56	100		104		107		106		102			
950477D	SPIS-23D	19:02	102		101		104		104		100			
950477S	SPIS-23S	19:08	102		100		104		105		101			
950477A	SPIS-23A	19:14	99		102		104		105		100			
950477L	SPIS-23L	19:20	100		99		101		101		99			
950477	SPIS-23	19:26	105		111		123		110		103			
950477D	SPIS-23D	19:32	103		109		128	*	112		105			
950477S	SPIS-23S	19:38	106		108		125		109		104			
CCV4	CCV4	19:44	103		100		105		105		101			
CCB4	CCB4	19:50	100		98		103		106		103			

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: r2634493

Lab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

ICP-MS Instrument ID: PE ICPMS Start Date: 11/17/2006 End Date: 11/17/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
950477A	SPIS-23A	19:56	100		105		122		108		102			
950477L	SPIS-23L	20:02	106		102		108		106		104			
CRDL2	CRDL2	20:50	104		93		101		104		103			
HLCCV2	HLCCV2	20:56	95		90		96		99		96			
CCV5	CCV5	21:02	101		92		98		98		99			
CCB5	CCB5	21:08	100		92		101		99		100			

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

ab Name: Columbia Analytical Services Contract: r2634493

ab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

CP-MS Instrument ID: PE ICPMS Start Date: 11/20/2006 End Date: 11/20/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
Blank	Blank	09:28	100		100		100		100		100			
Standard 1	Standard 1	09:34	94		98		101		99		100			
Standard 2	Standard 2	09:40	97		97		97		97		98			
Standard 3	Standard 3	09:46	95		96		97		95		97			
ICV3	ICV3	09:52	93		94		96		93		94			
ICB3	ICB3	09:58	93		94		95		97		95			
CRDL1	CRDL1	10:04	95		95		96		95		96			
ICS-A1	ICS-A1	10:10	90		103		98		95		91			
ICS-AB1	ICS-AB1	10:16	88		102		98		94		91			
CCV1	CCV1	10:22	91		97		96		94		91			
CCB1	CCB1	10:28	90		99		97		97		94			
QC Std 8	QC Std 8	10:34	90		94		93		91		89			
950470	SPOB-12R2	10:52	93		102		118		97		92			
950472	SPMW-12	11:04	94		107		120		99		95			
950473	SPMW-13	11:10	98		112		119		106		98			
950475	SPIS-24	11:22	96		108		119		103		99			
950476	SPIS-24 DUP	11:28	97		108		120		106		100			
CCV2	CCV2	11:34	96		100		101		99		96			
CCB2	CCB2	11:40	97		98		99		100		97			
950471	SPMW-11R2	12:53	96		94		100		99		98			
950474	SPMW-04	12:59	98		95		100		100		97			
950477	SPIS-23	13:05	95		94		102		99		97			
950477D	SPIS-23D	13:11	95		95		99		102		98			
CCV3	CCV3	13:17	94		93		95		99		95			
CCB3	CCB3	13:23	94		94		95		97		96			
950477S	SPIS-23S	13:29	96		91		99		98		96			
950477A	SPIS-23A	13:35	94		94		100		98		98			
950477L	SPIS-23L	13:40	93		93		96		99		97			
CRDL2	CRDL2	13:46	95		90		96		98		95			
HLCCV2	HLCCV2	13:52	96		94		98		98		99			
CCV4	CCV4	13:58	91		90		95		95		95			
CCB4	CCB4	14:04	91		88		92		96		94			

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

ab Name: Columbia Analytical Services Contract: r2634493

ab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

CP-MS Instrument ID: PE ICPMS Start Date: 11/21/2006 End Date: 11/21/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
Blank	Blank	09:33	100		100		100		100		100			
Standard 1	Standard 1	09:38	96		98		95		101		99			
Standard 2	Standard 2	09:44	99		97		98		95		97			
Standard 3	Standard 3	09:50	98		100		99		96		97			
ICV4	ICV4	09:56	93		96		97		93		95			
ICB4	ICB4	10:02	99		98		99		96		97			
CRDL1	CRDL1	10:08	102		98		99		99		96			
ICS-A1	ICS-A1	10:14	92		108		100		94		93			
ICS-AB1	ICS-AB1	10:20	94		112		104		99		95			
CCV1	CCV1	10:26	94		102		99		100		95			
CCB1	CCB1	10:32	97		104		99		98		95			
QC Std 8	QC Std 8	10:38	95		99		98		95		93			
PBW-M399014	PBW	10:44	96		100		101		98		95			
LCSW-M39901	LCSW	10:50	98		105		103		102		97			
950030	SPMW-01	11:02	102		107		122		104		103			
950030L	SPMW-01L	11:26	101		108		106		99		98			
950031	SPMW-05	11:32	104		112		126	*	104		100			
CCV2	CCV2	11:38	96		102		100		99		96			
CCB2	CCB2	11:44	98		104		100		97		99			
950032	SPMW-10R	11:50	102		111		127	*	103		103			
950033	SPMW-02	11:56	102		106		116		104		100			
950034	SPMW-06R	12:02	101		109		123		101		100			
950035	SPMW-08	12:08	103		113		118		107		102			
950036	SPMW-09	12:14	109		116		137	*	106		112			
CRDL2	CRDL2	12:19	101		111		106		106		104			
CCV3	CCV3	12:31	99		106		102		100		101			
CCB3	CCB3	12:37	101		102		99		99		98			
950030	SPMW-01	12:49	99		103		105		103		99			
CCV4	CCV4	13:07	96		105		102		99		97			
CCB4	CCB4	13:13	100		100		98		98		96			
950030L	SPMW-01L	13:24	95		101		96		98		95			
950031	SPMW-05	13:30	99		102		100		99		97			
950032	SPMW-10R	13:36	98		101		103		99		96			
950034	SPMW-06R	13:42	95		99		96		98		97			
950034	SPMW-06R	13:48	101		104		101		99		98			
950035	SPMW-08	13:54	98		99		100		97		97			
950036	SPMW-09	14:00	95		100		97		97		97			
950036	SPMW-09	14:06	95		100		97		97		97			
CCV5	CCV5	14:12	95		98		97		95		95			
CCB5	CCB5	14:18	96		98		98		99		98			
950036	SPMW-09	14:24	99		102		111		101		99			
CRDL3	CRDL3	14:30	99		105		103		102		100			
HLCCV2	HLCCV2	14:36	92		96		95		94		91			
CCV6	CCV6	14:42	93		96		94		96		92			
CCB6	CCB6	14:48	95		100		99		97		97			

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: r2634493

Lab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

ICP-MS Instrument ID: PE ICPMS Start Date: 11/21/2006 End Date: 11/21/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
950032	SPMW-10R	15:04	95		98		98		94		94			
CRDL4	CRDL4	15:10	99		98		97		96		97			
CCV7	CCV7	15:15	95		96		94		93		94			
CCB7	CCB7	15:21	94		94		94		96		94			

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

ab Name: Columbia Analytical Services Contract: r2634493

ab Code: _____ Case No.: _____ NRAS No. _____ SDG NO.: 950030

CP-MS Instrument ID: PE ICPMS Start Date: 11/22/2006 End Date: 11/22/2006

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Tb	Q	Element Ge	Q	Element Sc	Q	Element In	Q	Element Ho	Q	Element	Q
Blank	Blank	09:48	100		100		100		100		100			
Standard 1	Standard 1	09:54	96		98		98		100		99			
Standard 2	Standard 2	10:00	94		99		98		101		99			
Standard 3	Standard 3	10:06	95		96		98		98		95			
ICV5	ICV5	10:12	93		92		95		96		93			
ICB5	ICB5	10:18	93		97		100		100		97			
CRDL1	CRDL1	10:24	96		96		97		97		96			
ICS-A1	ICS-A1	10:30	95		108		103		97		93			
ICS-AB1	ICS-AB1	10:36	95		113		110		101		94			
CCV1	CCV1	10:42	93		104		107		102		95			
CCB1	CCB1	10:48	96		108		107		102		96			
QC Std 8	QC Std 8	10:54	94		100		100		98		93			
PBW-M399014	PBW	11:00	96		101		101		99		93			
LCSW-M39901	LCSW	11:06	98		111		113		106		100			
CCV2	CCV2	11:54	97		106		106		103		95			
CCB2	CCB2	11:59	99		110		107		104		99			
950033	SPMW-02	12:05	97		110		110		104		99			
950033	SPMW-02	12:11	98		112		121		109		98			
950034	SPMW-06R	12:17	99		114		130	*	106		98			
950035	SPMW-08	12:23	100		119		126	*	109		97			
950036	SPMW-09	12:29	99		114		112		108		99			
CRDL2	CRDL2	12:35	98		108		107		106		97			
HLCCV2	HLCCV2	12:41	95		106		109		104		95			
CRDL3	CRDL3	12:47	96		108		109		107		98			
CCV3	CCV3	12:53	96		104		105		104		94			
CCB3	CCB3	12:59	96		104		107		109		98			
CCV4	CCV4	13:47	95		101		101		99		94			
CCB4	CCB4	13:53	94		104		105		104		97			
950030	SPMW-01	14:04	98		114		133	*	115		99			
950030L	SPMW-01L	14:28	98		109		111		106		95			
950031	SPMW-05	14:34	96		117		135	*	107		96			
950032	SPMW-10R	14:40	99		121		140	*	111		100			
CRDL4	CRDL4	14:46	99		111		109		105		99			
CCV5	CCV5	14:52	97		107		105		103		96			
CCB5	CCB5	14:58	97		108		109		106		99			

Metals Cover Page

Analyst: SDeVito **Date:** 11/13/06 **Instrument:** ELAN

Data File: 111306A **Reviewed By:** SD 11/14/06 **Entered By:** SD 11/14/06

Approval: DCB 11/15/06

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
137370	As Mn	M3990125	6020		
137371	As Cd Cu Ni	M3990131	6020	Mn Cu	950474,477 Cd

Package Data:

Client Sub#	Package	Analytes Used	Failed Metals	Batch ID	Stds Attached?	Tranferred To LIMS	Raw Data Copied?
34171	5 / ASP	As Mn		M3990125	Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
34493	5 / ASP	As Cd Cu Ni		M3990131	Yes / No	MARRS / Run above	Yes / No
	5 / ASP	950474,477 Cd			Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, November 13, 2006 09:22:26
Sample Description:
Method File: c:\elandata\Method\EPA DAILY.mth
Dataset File: c:\elandata\Dataset\Daily2006\Sample.235
Tuning File: c:\elandata\Tuning\epa.tun
Optimization File: c:\elandata\Optimize\epa2.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 60
Current Dead Time (ns): 60

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	47098.0	47098.019	303.127	0.6
	Rh	102.9	376577.7	376577.691	2223.957	0.6
	In	114.9	379778.7	379778.676	2284.919	0.6
	Pb	208.0	147664.9	147664.944	1469.767	1.0
	U	238.1	291073.4	291073.416	3106.844	1.1
⌈>	Ba	137.9	291192.9	291192.915	2385.007	0.8
⌊	Ba++	69.0	9308.3	0.032	0.001	2.1
⌈>	Ce	139.9	405606.0	405606.020	3555.242	0.9
⌊	CeO	155.9	7711.3	0.019	0.001	2.9
	Bkgd	220.0	40.8	40.804	11.146	27.3

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
8.00	Lens Voltage
1500.00	ICP RF Power
-1832.50	Analog Stage Voltage
1017.50	Pulse Stage Voltage
70.00	Discriminator Threshold
-2.50	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	6.0	11347.2
Co	59	29	7.8	163395.3
In	115	29	8.0	266809.4

Elan 9000 Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, November 13, 2006 13:39:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\Blank.001

SDell'lo 11/13/06

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	63.001	6.9					ug/L
	Al	27	2334.350	3.1					ug/L
>	Sc	45	381869.082	0.6					ug/L
	V	51	4488.603	4.4					ug/L
	Cr	52	15368.650	2.1					ug/L
	Cr	53	814.381	3.3					ug/L
	Mn	55	494.020	6.9					ug/L
	Co	59	188.671	15.8					ug/L
	Ni	60	136.669	7.9					ug/L
	Ni	62	143.669	5.3					ug/L
	Cu	63	212.338	4.4					ug/L
	Cu	65	189.671	5.0					ug/L
	Zn	66	1515.486	0.5					ug/L
	Zn	67	342.344	10.8					ug/L
	Zn	68	1170.427	2.6					ug/L
>	Ge	72	244883.968	1.0					ug/L
	As	75	124.002	9.5					ug/L
	Se	77	216.736	0.5					ug/L
	Se	78	16119.238	0.7					mg/L
	Se	82	1872.010	0.4					ug/L
	Kr	83	1902.236	0.9					mg/L
	Y	89	408188.389	3.0					ug/L
	Mo	95	112.002	7.1					ug/L
	Mo	97	64.001	10.9					ug/L
	Mo	98	98.282	4.3					ug/L
	Rh	103	340052.119	0.9					ug/L
	Ag	107	91.335	8.8					ug/L
	Ag	109	75.668	14.5					ug/L
	Cd	111	218.275	11.2					ug/L
	Cd	114	58.957	7.1					ug/L
>	In	115	358352.924	2.5					ug/L
	Sb	121	107.668	2.8					ug/L
	Sb	123	79.665	26.4					ug/L
	Ba	135	46.667	2.5					ug/L
	Ba	137	47.001	16.6					ug/L
>	Tb	159	411268.087	2.5					ug/L
>	Ho	165	390096.908	0.3					ug/L
	Tl	203	60.001	1.7					ug/L
	Tl	205	78.001	5.9					ug/L
	Pb	208	320.672	3.2					ug/L

Pb	206	87.335	12.7		ug/L
Pb	207	77.001	6.5		ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, November 13, 2006 13:44:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\Standard 1.002

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	11136.549	1.8	63.001	10.00000	0.222	2.2	ug/L
	Al	27	74017.759	2.1	2334.350	10.00000	0.227	2.3	ug/L
>	Sc	45	372969.477	1.0	381869.082				ug/L
	V	51	174855.607	2.0	4488.603	10.00000	0.225	2.3	ug/L
	Cr	52	166634.834	3.0	15368.650	10.00000	0.250	2.5	ug/L
	Cr	53	18652.713	2.4	814.381	10.00000	0.172	1.7	ug/L
	Mn	55	219199.293	3.5	494.020	10.00000	0.299	3.0	ug/L
	Co	59	181792.108	1.0	188.671	10.00000	0.073	0.7	ug/L
	Ni	60	40661.709	1.2	136.669	10.00000	0.050	0.5	ug/L
	Ni	62	6138.321	1.2	143.669	10.00000	0.154	1.5	ug/L
	Cu	63	93967.149	1.3	212.338	10.00000	0.195	2.0	ug/L
	Cu	65	45692.076	1.9	189.671	10.00000	0.116	1.2	ug/L
	Zn	66	28441.409	1.4	1515.486	10.00000	0.173	1.7	ug/L
	Zn	67	5005.554	3.4	342.344	10.00000	0.475	4.8	ug/L
	Zn	68	21587.149	2.2	1170.427	10.00000	0.131	1.3	ug/L
>	Ge	72	240060.900	1.0	244883.968				ug/L
	As	75	32227.883	2.7	124.002	10.00000	0.321	3.2	ug/L
	Se	77	2570.063	0.8	216.736	10.00000	0.029	0.3	ug/L
	Se	78	23730.867	1.3	16119.238	10.00000	0.644	6.4	mg/L
	Se	82	4928.257	2.3	1872.010	10.00000	0.217	2.2	ug/L
	Kr	83	1803.547	3.4	1902.236				mg/L
	Y	89	398766.292	1.2	408188.389				ug/L
	Mo	95	55065.994	3.0	112.002	10.00000	0.054	0.5	ug/L
	Mo	97	34578.945	1.2	64.001	10.00000	0.177	1.8	ug/L
	Mo	98	85150.785	0.6	98.282	10.00000	0.256	2.6	ug/L
	Rh	103	338294.321	0.9	340052.119				ug/L
	Ag	107	145541.901	1.5	91.335	10.00000	0.238	2.4	ug/L
	Ag	109	134469.641	1.0	75.668	10.00000	0.189	1.9	ug/L
	Cd	111	32340.252	1.5	218.275	10.00000	0.433	4.3	ug/L
	Cd	114	71391.933	1.1	58.957	10.00000	0.394	3.9	ug/L
>	In	115	363168.405	2.8	358352.924				ug/L
	Sb	121	100482.186	0.7	107.668	10.00000	0.246	2.5	ug/L
	Sb	123	76744.832	1.5	79.665	10.00000	0.225	2.3	ug/L
	Ba	135	24371.511	2.5	46.667	10.00000	0.294	2.9	ug/L
	Ba	137	41965.500	1.4	47.001	10.00000	0.207	2.1	ug/L
>	Tb	159	405842.826	1.4	411268.087				ug/L
>	Ho	165	384614.072	1.8	390096.908				ug/L
	Tl	203	84282.944	1.1	60.001	10.00000	0.242	2.4	ug/L
	Tl	205	193943.228	1.7	78.001	10.00000	0.049	0.5	ug/L
	Pb	208	264733.642	0.5	320.672	10.00000	0.149	1.5	ug/L

Pb	206	67526.181	1.2	87.335	10.00000	0.219	2.2	ug/L
Pb	207	57422.066	0.4	77.001	10.00000	0.157	1.6	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, November 13, 2006 13:50:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\Standard 2.003

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	22225.488	0.6	63.001	20.03161	0.274	1.4	ug/L
	Al	27	260757.907	1.4	2334.350	21.97293	0.154	0.7	ug/L
>	Sc	45	370258.282	0.7	381869.082				ug/L
	V	51	344298.910	2.3	4488.603	20.01731	0.469	2.3	ug/L
	Cr	52	306922.988	2.0	15368.650	19.87783	0.467	2.4	ug/L
	Cr	53	36597.902	1.7	814.381	20.04027	0.472	2.4	ug/L
	Mn	55	422007.115	2.3	494.020	19.92897	0.620	3.1	ug/L
	Co	59	360553.716	0.9	188.671	20.04519	0.377	1.9	ug/L
	Ni	60	80161.347	2.6	136.669	20.02687	0.827	4.1	ug/L
	Ni	62	11675.958	0.9	143.669	19.92195	0.720	3.6	ug/L
	Cu	63	183625.770	2.1	212.338	19.98993	0.919	4.6	ug/L
	Cu	65	88155.181	2.2	189.671	19.94231	0.840	4.2	ug/L
	Zn	66	53273.951	0.9	1515.486	19.91878	0.718	3.6	ug/L
	Zn	67	9491.163	0.5	342.344	19.99923	0.557	2.8	ug/L
	Zn	68	40055.436	0.5	1170.427	19.88159	0.636	3.2	ug/L
>	Ge	72	235572.815	2.7	244883.968				ug/L
	As	75	63373.386	1.4	124.002	20.01578	0.285	1.4	ug/L
	Se	77	4897.772	1.1	216.736	20.05455	0.407	2.0	ug/L
	Se	78	31481.363	0.5	16119.238	20.10579	0.957	4.8	mg/L
	Se	82	7982.688	0.3	1872.010	20.07508	0.641	3.2	ug/L
	Kr	83	1778.541	3.3	1902.236				mg/L
	Y	89	395527.008	2.2	408188.389				ug/L
	Mo	95	110613.739	0.7	112.002	20.06667	0.162	0.8	ug/L
	Mo	97	67391.588	3.2	64.001	19.94426	0.713	3.6	ug/L
	Mo	98	168807.694	1.5	98.282	20.01031	0.237	1.2	ug/L
	Rh	103	330210.868	1.0	340052.119				ug/L
	Ag	107	283494.706	1.2	91.335	19.93895	0.199	1.0	ug/L
	Ag	109	264736.889	1.8	75.668	19.98196	0.380	1.9	ug/L
	Cd	111	62522.479	1.5	218.275	19.91910	0.241	1.2	ug/L
	Cd	114	138908.564	0.7	58.957	19.93360	0.193	1.0	ug/L
>	In	115	359085.230	0.4	358352.924				ug/L
	Sb	121	193836.022	1.5	107.668	19.90023	0.243	1.2	ug/L
	Sb	123	148896.739	0.6	79.665	19.92399	0.189	0.9	ug/L
	Ba	135	47648.646	0.5	46.667	20.03427	0.270	1.3	ug/L
	Ba	137	80952.449	0.7	47.001	19.97935	0.423	2.1	ug/L
>	Tb	159	393702.630	1.5	411268.087				ug/L
>	Ho	165	372730.456	0.5	390096.908				ug/L
	Tl	203	161832.962	0.9	60.001	19.96288	0.260	1.3	ug/L
	Tl	205	375365.373	2.4	78.001	19.99511	0.497	2.5	ug/L
	Pb	208	514624.588	1.1	320.672	20.01365	0.298	1.5	ug/L

Pb	206	133312.165	2.1	87.335	20.07518	0.491	2.4	ug/L
Pb	207	111603.566	1.5	77.001	20.01319	0.391	2.0	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, November 13, 2006 13:56:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\Standard 3.004

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	109618.767	1.3	63.001	99.95484	0.568	0.6	ug/L
	Al	27	642093.954	3.0	2334.350	96.16474	3.008	3.1	ug/L
>	Sc	45	370056.253	0.7	381869.082				ug/L
	V	51	1588651.424	3.5	4488.603	99.66122	3.426	3.4	ug/L
	Cr	52	1398378.989	2.3	15368.650	99.70894	2.532	2.5	ug/L
	Cr	53	175263.604	1.7	814.381	99.88771	1.973	2.0	ug/L
	Mn	55	1964969.113	0.6	494.020	99.56566	1.673	1.7	ug/L
	Co	59	1714365.648	1.8	188.671	99.69997	2.594	2.6	ug/L
	Ni	60	385139.216	1.7	136.669	99.75006	1.444	1.4	ug/L
	Ni	62	57497.923	0.6	143.669	99.88604	1.607	1.6	ug/L
	Cu	63	880047.175	0.8	212.338	99.72562	1.482	1.5	ug/L
	Cu	65	426600.065	1.6	189.671	99.76651	2.277	2.3	ug/L
	Zn	66	251300.924	2.6	1515.486	99.73438	3.196	3.2	ug/L
	Zn	67	43698.043	0.5	342.344	99.66206	1.072	1.1	ug/L
	Zn	68	184426.306	2.8	1170.427	99.60410	2.409	2.4	ug/L
>	Ge	72	238767.887	1.0	244883.968				ug/L
	As	75	309930.171	1.6	124.002	99.83830	2.302	2.3	ug/L
	Se	77	23348.865	0.3	216.736	99.88297	0.706	0.7	ug/L
	Se	78	90847.915	1.7	16119.238	99.65551	3.048	3.1	mg/L
	Se	82	32903.769	1.0	1872.010	99.97700	0.779	0.8	ug/L
	Kr	83	1800.879	3.1	1902.236				mg/L
	Y	89	392801.376	0.5	408188.389				ug/L
	Mo	95	539382.967	2.2	112.002	99.90377	2.157	2.2	ug/L
	Mo	97	327895.722	3.2	64.001	99.86266	3.199	3.2	ug/L
	Mo	98	827314.455	1.3	98.282	99.91304	1.211	1.2	ug/L
	Rh	103	319844.560	2.3	340052.119				ug/L
	Ag	107	1324580.155	3.2	91.335	99.65769	3.325	3.3	ug/L
	Ag	109	1245200.434	1.3	75.668	99.70190	1.387	1.4	ug/L
	Cd	111	303341.095	1.4	218.275	99.85299	1.392	1.4	ug/L
	Cd	114	674877.724	2.0	58.957	99.85106	1.862	1.9	ug/L
>	In	115	358760.423	0.1	358352.924				ug/L
	Sb	121	931128.880	1.2	107.668	99.78783	1.239	1.2	ug/L
	Sb	123	716761.676	0.5	79.665	99.80382	0.373	0.4	ug/L
	Ba	135	233025.276	1.0	46.667	99.98588	2.795	2.8	ug/L
	Ba	137	397781.529	1.2	47.001	99.99238	0.786	0.8	ug/L
>	Tb	159	387261.841	1.9	411268.087				ug/L
>	Ho	165	378931.947	0.4	390096.908				ug/L
	Tl	203	768498.765	3.3	60.001	99.65722	2.944	3.0	ug/L
	Tl	205	1693678.779	1.5	78.001	99.40012	1.141	1.1	ug/L
	Pb	208	2444831.352	0.9	320.672	99.67341	0.528	0.5	ug/L

Pb	206	643727.575	0.8	87.335	99.77048	0.428	0.4	ug/L
Pb	207	537503.292	2.2	77.001	99.74206	1.844	1.8	ug/L

Quantitative Analysis Calibration Report

File Name: 111306A.cal
File Path: C:\elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.00	0.00	0.999998
Al	26.982	Linear Thru Zero	0.02	0.00	0.982849
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V	50.944	Linear Thru Zero	0.04	0.00	0.999885
Cr	51.941	Linear Thru Zero	0.04	0.00	0.999911
Cr	52.941	Linear Thru Zero	0.00	0.00	0.999987
Mn	54.938	Linear Thru Zero	0.08	0.00	0.999810
Co	58.933	Linear Thru Zero	0.07	0.00	0.999909
Ni	59.933	Linear Thru Zero	0.02	0.00	0.999937
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999985
Cu	62.930	Linear Thru Zero	0.04	0.00	0.999925
Cu	64.928	Linear Thru Zero	0.02	0.00	0.999945
Zn	65.926	Linear Thru Zero	0.01	0.00	0.999928
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999886
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999839
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.01	0.00	0.999974
Se	76.920	Linear Thru Zero	0.00	0.00	0.999986
Se	77.917	Linear Thru Zero	0.00	0.00	0.999878
Se	81.917	Linear Thru Zero	0.00	0.00	0.999998
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Mo	94.906	Linear Thru Zero	0.02	0.00	0.999990
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999980
Mo	97.906	Linear Thru Zero	0.02	0.00	0.999992
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
Ag	106.905	Linear Thru Zero	0.04	0.00	0.999882
Ag	108.905	Linear Thru Zero	0.03	0.00	0.999911
Cd	110.904	Linear Thru Zero	0.01	0.00	0.999977
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999977
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb	120.904	Linear Thru Zero	0.03	0.00	0.999952
Sb	122.904	Linear Thru Zero	0.02	0.00	0.999960
Ba	134.906	Linear Thru Zero	0.01	0.00	1.000000
Ba	136.905	Linear Thru Zero	0.01	0.00	1.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Tl	202.972	Linear Thru Zero	0.02	0.00	0.999882
Tl	204.975	Linear Thru Zero	0.04	0.00	0.999640
Pb	207.977	Linear Thru Zero	0.06	0.00	0.999893

Pb	205.975	Linear Thru Zero	0.02	0.00	0.999946
Pb	206.976	Linear Thru Zero	0.01	0.00	0.999933

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, November 13, 2006 14:02:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 1.005

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	52704.693	1.5	63.001	48.09880	0.369	0.8	ug/L
	Al	27	322132.694	1.0	2334.350	48.14396	0.209	0.4	ug/L
>	Sc	45	369518.508	0.8	381869.082				ug/L
	V	51	803554.742	2.4	4488.603	50.34545	0.957	1.9	ug/L
	Cr	52	694369.112	1.4	15368.650	49.04572	1.027	2.1	ug/L
	Cr	53	85857.240	1.0	814.381	48.77165	0.458	0.9	ug/L
	Mn	55	1014139.529	0.9	494.020	52.94084	1.074	2.0	ug/L
	Co	59	854490.378	1.4	188.671	51.19173	0.198	0.4	ug/L
	Ni	60	187862.545	2.8	136.669	50.11160	0.768	1.5	ug/L
	Ni	62	28544.114	2.9	143.669	50.99124	2.212	4.3	ug/L
	Cu	63	452382.951	0.1	212.338	52.81421	0.826	1.6	ug/L
	Cu	65	213810.548	1.9	189.671	51.51101	1.662	3.2	ug/L
	Zn	66	131661.271	2.3	1515.486	53.58057	2.016	3.8	ug/L
	Zn	67	22197.079	0.4	342.344	51.80244	0.797	1.5	ug/L
	Zn	68	95770.262	2.0	1170.427	53.00659	0.269	0.5	ug/L
>	Ge	72	231722.941	1.5	244883.968				ug/L
	As	75	149467.192	2.5	124.002	49.58109	0.515	1.0	ug/L
	Se	77	12082.086	0.5	216.736	52.83436	0.659	1.2	ug/L
	Se	78	52990.422	0.6	16119.238	51.58130	1.430	2.8	mg/L
	Se	82	17771.797	0.6	1872.010	53.04044	0.479	0.9	ug/L
	Kr	83	1763.871	1.3	1902.236				mg/L
	Y	89	393798.821	1.9	408188.389				ug/L
	Mo	95	262602.484	0.7	112.002	49.70327	0.494	1.0	ug/L
	Mo	97	159811.089	1.9	64.001	49.74918	1.684	3.4	ug/L
	Mo	98	413941.198	1.4	98.282	51.09806	1.358	2.7	ug/L
	Rh	103	320181.987	1.1	340052.119				ug/L
	Ag	107	651480.053	0.7	91.335	50.09628	0.752	1.5	ug/L
	Ag	109	615419.219	2.5	75.668	50.36402	1.436	2.9	ug/L
	Cd	111	146258.040	1.8	218.275	49.18008	1.411	2.9	ug/L
	Cd	114	337216.136	0.8	58.957	50.99896	1.173	2.3	ug/L
>	In	115	351036.349	1.5	358352.924				ug/L
	Sb	121	453247.756	1.6	107.668	49.64536	1.158	2.3	ug/L
	Sb	123	344207.801	1.9	79.665	48.97573	0.186	0.4	ug/L
	Ba	135	117584.931	0.2	46.667	50.89770	0.965	1.9	ug/L
	Ba	137	194612.882	1.7	47.001	49.35764	0.138	0.3	ug/L
>	Tb	159	383764.339	1.9	411268.087				ug/L
>	Ho	165	372512.962	1.6	390096.908				ug/L
	Tl	203	373378.679	2.1	60.001	49.25381	0.801	1.6	ug/L
	Tl	205	861510.330	0.3	78.001	51.43909	0.691	1.3	ug/L
	Pb	208	1214518.019	0.4	320.672	50.37248	0.955	1.9	ug/L

Pb	206	315606.287	1.1	87.335	49.76579	1.298	2.6	ug/L
Pb	207	255465.853	0.3	77.001	48.22701	0.885	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	96.198				
	Al	27	96.288				
>	Sc	45		96.766			
	V	51	100.691				
	Cr	52	98.091				
	Cr	53	97.543				
	Mn	55	105.882				
	Co	59	102.383				
	Ni	60	100.223				
	Ni	62	101.982				
	Cu	63	105.628				
	Cu	65	103.022				
	Zn	66	107.161				
	Zn	67	103.605				
	Zn	68	106.013				
>	Ge	72		94.626			
	As	75	99.162				
	Se	77	105.669				
	Se	78	103.163				
	Se	82	106.081				
	Kr	83					
	Y	89					
	Mo	95	99.407				
	Mo	97	99.498				
	Mo	98	102.196				
	Rh	103					
	Ag	107	100.193				
	Ag	109	100.728				
	Cd	111	98.360				
	Cd	114	101.998				
>	In	115		97.958			
	Sb	121	99.291				
	Sb	123	97.951				
	Ba	135	101.795				
	Ba	137	98.715				
>	Tb	159		93.312			
>	Ho	165		95.492			
	Tl	203	98.508				
	Tl	205	102.878				
	Pb	208	100.745				
	Pb	206	99.532				
	Pb	207	96.454				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, November 13, 2006 14:08:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 2.006

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.668	15.3	63.001	-0.00001	0.008	58999.9	ug/L
	Al	27	2505.402	0.4	2334.350	0.03279	0.002	6.4	ug/L
>	Sc	45	373805.020	0.5	381869.082				ug/L
	V	51	4315.375	3.2	4488.603	-0.00488	0.009	176.1	ug/L
	Cr	52	14501.086	1.3	15368.650	-0.03870	0.017	42.8	ug/L
	Cr	53	733.706	4.6	814.381	-0.03591	0.021	59.2	ug/L
	Mn	55	500.020	3.6	494.020	0.00116	0.001	66.5	ug/L
	Co	59	186.337	4.1	188.671	0.00024	0.000	154.0	ug/L
	Ni	60	158.336	25.8	136.669	0.00693	0.011	158.3	ug/L
	Ni	62	131.002	7.0	143.669	-0.01362	0.018	130.4	ug/L
	Cu	63	237.339	12.3	212.338	0.00367	0.003	86.9	ug/L
	Cu	65	201.671	5.9	189.671	0.00434	0.003	60.1	ug/L
	Zn	66	1498.150	4.4	1515.486	0.01376	0.028	205.0	ug/L
	Zn	67	307.675	2.3	342.344	-0.05351	0.015	27.7	ug/L
	Zn	68	1139.756	5.2	1170.427	0.00481	0.028	592.1	ug/L
>	Ge	72	236586.500	0.7	244883.968				ug/L
	As	75	219.005	5.7	124.002	0.03225	0.004	12.0	ug/L
	Se	77	228.270	2.9	216.736	0.08233	0.032	39.4	ug/L
	Se	78	15622.491	2.3	16119.238	0.06867	0.605	880.6	mg/L
	Se	82	1804.662	1.3	1872.010	-0.01216	0.117	959.7	ug/L
	Kr	83	1818.884	5.4	1902.236				mg/L
	Y	89	390408.873	1.3	408188.389				ug/L
	Mo	95	864.721	15.3	112.002	0.14309	0.023	16.3	ug/L
	Mo	97	504.687	17.8	64.001	0.13770	0.026	19.1	ug/L
	Mo	98	1245.236	11.4	98.282	0.14200	0.016	11.3	ug/L
	Rh	103	323445.551	1.1	340052.119				ug/L
	Ag	107	167.003	3.0	91.335	0.00599	0.001	8.4	ug/L
	Ag	109	156.670	8.7	75.668	0.00679	0.001	18.4	ug/L
	Cd	111	203.496	6.3	218.275	-0.00332	0.005	152.0	ug/L
	Cd	114	60.502	15.2	58.957	0.00042	0.001	304.0	ug/L
>	In	115	350409.590	1.1	358352.924				ug/L
	Sb	121	1461.478	13.2	107.668	0.14870	0.020	13.2	ug/L
	Sb	123	1142.270	15.9	79.665	0.15158	0.024	15.8	ug/L
	Ba	135	55.334	15.2	46.667	0.00503	0.004	70.8	ug/L
	Ba	137	46.334	19.6	47.001	0.00059	0.002	387.8	ug/L
>	Tb	159	384930.504	0.5	411268.087				ug/L
>	Ho	165	372252.869	1.0	390096.908				ug/L
	Tl	203	81.668	10.6	60.001	0.00323	0.001	37.4	ug/L
	Tl	205	151.336	8.5	78.001	0.00460	0.001	18.0	ug/L
	Pb	208	430.675	3.8	320.672	0.00517	0.001	11.2	ug/L

Pb	206	118.669	9.1	87.335	0.00557	0.002	27.2	ug/L
Pb	207	97.668	4.1	77.001	0.00457	0.001	12.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.888			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		96.612			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.783			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		93.596			
>	Ho	165		95.426			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 13, 2006 14:14:47
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 3.007

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1141.423	1.7	63.001	1.00008	0.002	0.2	ug/L
	Al	27	71627.448	3.3	2334.350	10.57334	0.293	2.8	ug/L
>	Sc	45	365011.421	1.5	381869.082				ug/L
	V	51	21573.522	0.4	4488.603	1.10242	0.019	1.7	ug/L
	Cr	52	30787.420	1.8	15368.650	1.17613	0.024	2.0	ug/L
	Cr	53	2691.462	3.1	814.381	1.11102	0.072	6.5	ug/L
	Mn	55	21946.417	1.5	494.020	1.12164	0.014	1.3	ug/L
	Co	59	18418.526	2.7	188.671	1.09278	0.007	0.7	ug/L
	Ni	60	4196.766	3.9	136.669	1.08664	0.065	6.0	ug/L
	Ni	62	722.372	2.4	143.669	1.05257	0.046	4.4	ug/L
	Cu	63	9410.072	1.8	212.338	1.07549	0.015	1.4	ug/L
	Cu	65	4702.040	1.8	189.671	1.09038	0.030	2.7	ug/L
	Zn	66	16689.198	1.6	1515.486	6.27729	0.249	4.0	ug/L
	Zn	67	2712.135	1.6	342.344	5.65767	0.223	3.9	ug/L
	Zn	68	12169.001	1.1	1170.427	6.19594	0.176	2.8	ug/L
>	Ge	72	231740.911	2.1	244883.968				ug/L
	As	75	3202.648	2.5	124.002	1.02425	0.011	1.0	ug/L
	Se	77	453.946	0.8	216.736	1.10750	0.055	4.9	ug/L
	Se	78	16816.661	0.6	16119.238	2.13987	0.346	16.2	mg/L
	Se	82	2081.793	1.4	1872.010	1.02925	0.091	8.8	ug/L
	Kr	83	1758.537	2.4	1902.236				mg/L
	Y	89	385142.011	1.7	408188.389				ug/L
	Mo	95	5993.214	1.0	112.002	1.09950	0.009	0.8	ug/L
	Mo	97	3467.757	3.2	64.001	1.04629	0.033	3.1	ug/L
	Mo	98	8931.007	1.3	98.282	1.07654	0.011	1.1	ug/L
	Rh	103	327204.872	1.2	340052.119				ug/L
	Ag	107	14255.994	1.5	91.335	1.07541	0.015	1.4	ug/L
	Ag	109	13304.078	0.7	75.668	1.06883	0.008	0.8	ug/L
	Cd	111	3278.298	1.1	218.275	1.01767	0.013	1.3	ug/L
	Cd	114	6927.756	2.3	58.957	1.02563	0.026	2.5	ug/L
>	In	115	355557.742	0.2	358352.924				ug/L
	Sb	121	10282.110	1.6	107.668	1.10040	0.016	1.5	ug/L
	Sb	123	7875.054	1.4	79.665	1.09543	0.013	1.2	ug/L
	Ba	135	2462.055	3.3	46.667	1.02397	0.038	3.7	ug/L
	Ba	137	4315.827	1.7	47.001	1.05999	0.025	2.4	ug/L
>	Tb	159	392289.102	0.9	411268.087				ug/L
>	Ho	165	371676.265	0.6	390096.908				ug/L
	Tl	203	8129.044	1.0	60.001	1.06734	0.012	1.1	ug/L
	Tl	205	18772.316	2.4	78.001	1.11886	0.025	2.2	ug/L
	Pb	208	26622.470	1.2	320.672	1.09401	0.011	1.0	ug/L

Pb	206	6873.236	1.0	87.335	1.07309	0.013	1.2	ug/L
Pb	207	5782.064	1.9	77.001	1.08021	0.020	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.008				
	Al	27	105.733				
>	Sc	45		95.585			
	V	51	110.242				
	Cr	52	117.613				
	Cr	53	111.102				
	Mn	55	112.164				
	Co	59	109.278				
	Ni	60	108.664				
	Ni	62	105.257				
	Cu	63	107.549				
	Cu	65	109.038				
	Zn	66	125.546				
	Zn	67	113.153				
	Zn	68	123.919				
>	Ge	72		94.633			
	As	75	102.425				
	Se	77	110.750				
	Se	78	213.987				
	Se	82	102.925				
	Kr	83					
	Y	89					
	Mo	95	109.950				
	Mo	97	104.629				
	Mo	98	107.654				
	Rh	103					
	Ag	107	107.541				
	Ag	109	106.883				
	Cd	111	101.767				
	Cd	114	102.563				
>	In	115		99.220			
	Sb	121	110.040				
	Sb	123	109.543				
	Ba	135	102.397				
	Ba	137	105.999				
>	Tb	159		95.385			
>	Ho	165		95.278			
	Tl	203	106.734				
	Tl	205	111.886				
	Pb	208	109.401				
	Pb	206	107.309				
	Pb	207	108.021				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, November 13, 2006 14:20:44
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 4.008

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.001	17.0	63.001	-0.00472	0.010	217.4	ug/L
	Al	27	126847492.833	2.2	2334.350	19661.79322	1038.151	5.3	ug/L
>	Sc	45	359221.813	3.4	381869.082				ug/L
	V	51	2931.424	16.2	4488.603	-0.08385	0.029	34.3	ug/L
	Cr	52	26897.286	2.1	15368.650	0.92584	0.103	11.2	ug/L
	Cr	53	7566.178	3.3	814.381	4.01703	0.297	7.4	ug/L
	Mn	55	14959.900	1.2	494.020	0.68609	0.020	3.0	ug/L
	Co	59	1081.414	3.0	188.671	0.04824	0.002	4.9	ug/L
	Ni	60	2400.703	0.7	136.669	0.54834	0.013	2.4	ug/L
	Ni	62	2055.941	2.7	143.669	3.11071	0.107	3.4	ug/L
	Cu	63	6647.050	1.2	212.338	0.68239	0.008	1.2	ug/L
	Cu	65	2668.454	2.8	189.671	0.54187	0.026	4.8	ug/L
	Zn	66	5552.572	1.4	1515.486	1.48727	0.059	3.9	ug/L
	Zn	67	2232.988	4.2	342.344	4.03926	0.119	2.9	ug/L
	Zn	68	2737.144	4.1	1170.427	0.77432	0.081	10.4	ug/L
>	Ge	72	254855.622	1.7	244883.968				ug/L
	As	75	2120.958	1.9	124.002	0.60130	0.001	0.2	ug/L
	Se	77	885.780	1.7	216.736	2.67112	0.105	3.9	ug/L
	Se	78	16008.793	0.1	16119.238	-0.94908	0.322	34.0	mg/L
	Se	82	1878.278	1.4	1872.010	-0.21048	0.054	25.5	ug/L
	Kr	83	1887.899	2.1	1902.236				mg/L
	Y	89	392097.019	0.9	408188.389				ug/L
	Mo	95	2157236.414	6.8	112.002	433.03370	25.513	5.9	ug/L
	Mo	97	1280028.191	1.7	64.001	422.70086	10.095	2.4	ug/L
	Mo	98	3538861.921	1.1	98.282	463.34086	4.062	0.9	ug/L
	Rh	103	305099.742	1.4	340052.119				ug/L
	Ag	107	382.679	2.5	91.335	0.02434	0.001	3.9	ug/L
	Ag	109	351.011	0.9	75.668	0.02440	0.000	0.8	ug/L
	Cd	111	288.782	48.1	218.275	0.03098	0.049	157.6	ug/L
	Cd	114	4523.819	3.9	58.957	0.71706	0.034	4.7	ug/L
>	In	115	330957.215	1.0	358352.924				ug/L
	Sb	121	3401.395	3.9	107.668	0.38361	0.014	3.6	ug/L
	Sb	123	2534.506	1.0	79.665	0.37154	0.008	2.0	ug/L
	Ba	135	139.669	7.3	46.667	0.04332	0.004	9.4	ug/L
	Ba	137	187.004	6.2	47.001	0.03766	0.003	7.5	ug/L
>	Tb	159	373124.959	1.7	411268.087				ug/L
>	Ho	165	354680.072	2.5	390096.908				ug/L
	Tl	203	2246.993	7.1	60.001	0.30360	0.016	5.2	ug/L
	Tl	205	5346.108	7.9	78.001	0.33055	0.020	5.9	ug/L
	Pb	208	1530.403	0.3	320.672	0.05399	0.002	2.9	ug/L

Pb	206	405.014	2.6	87.335	0.05397	0.003	5.7	ug/L
Pb	207	327.343	3.4	77.001	0.05109	0.004	7.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	98.309				
>	Sc	45		94.069			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.072			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	108.258				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		92.355			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		90.725			
>	Ho	165		90.921			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, November 13, 2006 14:26:40
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 5.009

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57.334	3.6	63.001	-0.00092	0.002	236.2	ug/L
	Al	27	121960409.003	1.1	2334.350	19196.08521	440.464	2.3	ug/L
>	Sc	45	353444.064	2.0	381869.082				ug/L
	V	51	-3674.038	75.2	4488.603	-0.51324	0.178	34.6	ug/L
	Cr	52	311060.109	1.6	15368.650	22.40629	0.729	3.3	ug/L
	Cr	53	42703.231	0.7	814.381	25.14840	0.347	1.4	ug/L
	Mn	55	422157.750	1.1	494.020	20.38278	0.090	0.4	ug/L
	Co	59	346472.254	2.3	188.671	19.20772	0.310	1.6	ug/L
	Ni	60	74970.159	1.0	136.669	18.49375	0.154	0.8	ug/L
	Ni	62	13364.516	3.2	143.669	21.95419	0.684	3.1	ug/L
	Cu	63	177190.287	2.2	212.338	19.13489	0.523	2.7	ug/L
	Cu	65	83501.803	1.2	189.671	18.59164	0.305	1.6	ug/L
	Zn	66	53226.336	1.7	1515.486	19.67867	0.461	2.3	ug/L
	Zn	67	9494.502	2.3	342.344	20.04740	0.515	2.6	ug/L
	Zn	68	35813.493	1.5	1170.427	17.94712	0.362	2.0	ug/L
>	Ge	72	250304.757	0.6	244883.968				ug/L
	As	75	62563.597	0.1	124.002	19.19144	0.134	0.7	ug/L
	Se	77	831.508	2.3	216.736	2.51204	0.096	3.8	ug/L
	Se	78	15636.449	1.7	16119.238	-1.06086	0.415	39.2	mg/L
	Se	82	1828.534	1.9	1872.010	-0.26053	0.107	40.9	ug/L
	Kr	83	1864.894	1.2	1902.236				mg/L
	Y	89	380011.838	1.6	408188.389				ug/L
	Mo	95	2068789.291	7.8	112.002	413.83205	27.180	6.6	ug/L
	Mo	97	1241754.075	0.8	64.001	408.70458	7.612	1.9	ug/L
	Mo	98	3509694.965	1.3	98.282	458.06140	10.409	2.3	ug/L
	Rh	103	299347.430	0.7	340052.119				ug/L
	Ag	107	249753.058	1.0	91.335	20.29639	0.178	0.9	ug/L
	Ag	109	239373.421	1.4	75.668	20.70237	0.139	0.7	ug/L
	Cd	111	55771.400	1.7	218.275	19.77666	0.179	0.9	ug/L
	Cd	114	131839.663	0.5	58.957	21.07101	0.363	1.7	ug/L
>	In	115	332068.064	1.4	358352.924				ug/L
	Sb	121	3227.324	1.0	107.668	0.36224	0.009	2.4	ug/L
	Sb	123	2373.187	3.5	79.665	0.34591	0.009	2.7	ug/L
	Ba	135	158.670	8.7	46.667	0.05355	0.007	12.3	ug/L
	Ba	137	221.005	4.1	47.001	0.04795	0.002	5.2	ug/L
>	Tb	159	364182.220	0.4	411268.087				ug/L
>	Ho	165	358911.433	0.5	390096.908				ug/L
	Tl	203	2107.621	4.6	60.001	0.28099	0.012	4.2	ug/L
	Tl	205	4948.520	3.8	78.001	0.30216	0.010	3.3	ug/L
	Pb	208	1775.091	2.1	320.672	0.06371	0.001	1.9	ug/L

Pb	206	462.684	2.2	87.335	0.06257	0.002	2.5	ug/L
Pb	207	384.013	5.6	77.001	0.06135	0.004	6.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	95.980				
>	Sc	45		92.556			
	V	51					
	Cr	52	112.031				
	Cr	53	125.742				
	Mn	55	101.914				
	Co	59	96.039				
	Ni	60	92.469				
	Ni	62	109.771				
	Cu	63	95.674				
	Cu	65	92.958				
	Zn	66	98.393				
	Zn	67	100.237				
	Zn	68	89.736				
>	Ge	72		102.214			
	As	75	95.957				
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	103.458				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107	101.482				
	Ag	109	103.512				
	Cd	111	98.883				
	Cd	114	105.355				
>	In	115		92.665			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		88.551			
>	Ho	165		92.006			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 14:32:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.010

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	49077.606	1.6	63.001	47.75773	0.641	1.3	ug/L
	Al	27	311945.704	0.9	2334.350	49.72384	0.540	1.1	ug/L
>	Sc	45	346549.091	0.3	381869.082				ug/L
	V	51	799869.719	0.6	4488.603	53.45679	0.477	0.9	ug/L
	Cr	52	707291.404	1.7	15368.650	53.35777	0.992	1.9	ug/L
	Cr	53	82654.206	2.5	814.381	50.07585	1.283	2.6	ug/L
	Mn	55	1001914.865	2.0	494.020	51.79186	0.269	0.5	ug/L
	Co	59	821249.208	1.0	188.671	48.73943	1.005	2.1	ug/L
	Ni	60	192236.681	0.8	136.669	50.80297	0.798	1.6	ug/L
	Ni	62	28513.326	1.8	143.669	50.42559	0.092	0.2	ug/L
	Cu	63	445320.570	0.9	212.338	51.49860	1.246	2.4	ug/L
	Cu	65	224682.002	1.6	189.671	53.60315	0.734	1.4	ug/L
	Zn	66	129942.364	1.5	1515.486	52.34627	0.277	0.5	ug/L
	Zn	67	22455.774	0.8	342.344	51.91125	1.082	2.1	ug/L
	Zn	68	99141.690	1.7	1170.427	54.36766	0.342	0.6	ug/L
>	Ge	72	233955.185	1.6	244883.968				ug/L
	As	75	153048.923	1.0	124.002	50.30452	1.304	2.6	ug/L
	Se	77	12287.053	1.3	216.736	53.22125	0.359	0.7	ug/L
	Se	78	54288.006	2.8	16119.238	52.66339	3.066	5.8	mg/L
	Se	82	17655.150	0.7	1872.010	52.10476	1.300	2.5	ug/L
	Kr	83	1791.544	3.3	1902.236				mg/L
	Y	89	385351.254	1.2	408188.389				ug/L
	Mo	95	257356.107	0.5	112.002	50.51305	0.159	0.3	ug/L
	Mo	97	165355.799	0.7	64.001	53.36904	0.512	1.0	ug/L
	Mo	98	402329.477	1.1	98.282	51.49544	0.599	1.2	ug/L
	Rh	103	324787.462	1.0	340052.119				ug/L
	Ag	107	650201.336	2.8	91.335	51.84951	1.589	3.1	ug/L
	Ag	109	601355.302	1.5	75.668	51.03052	0.591	1.2	ug/L
	Cd	111	152033.703	1.8	218.275	53.01046	0.901	1.7	ug/L
	Cd	114	333803.840	4.3	58.957	52.34147	2.129	4.1	ug/L
>	In	115	338477.686	0.3	358352.924				ug/L
	Sb	121	441757.296	1.0	107.668	50.17418	0.547	1.1	ug/L
	Sb	123	339206.972	0.6	79.665	50.05772	0.413	0.8	ug/L
	Ba	135	112157.752	2.3	46.667	48.50293	0.328	0.7	ug/L
	Ba	137	193676.005	1.5	47.001	49.10555	1.558	3.2	ug/L
>	Tb	159	384005.104	1.7	411268.087				ug/L
>	Ho	165	362824.114	1.9	390096.908				ug/L
	Tl	203	378703.379	2.2	60.001	51.29722	1.281	2.5	ug/L
	Tl	205	880016.889	1.6	78.001	53.94420	0.688	1.3	ug/L
	Pb	208	1232071.871	1.2	320.672	52.46352	0.889	1.7	ug/L

Pb	206	315422.477	1.1	87.335	51.06294	1.091	2.1	ug/L
Pb	207	262161.448	0.2	77.001	50.81590	1.024	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	95.515				
	Al	27	99.448				
>	Sc	45		90.751			
	V	51	106.914				
	Cr	52	106.716				
	Cr	53	100.152				
	Mn	55	103.584				
	Co	59	97.479				
	Ni	60	101.606				
	Ni	62	100.851				
	Cu	63	102.997				
	Cu	65	107.206				
	Zn	66	104.693				
	Zn	67	103.823				
	Zn	68	108.735				
>	Ge	72		95.537			
	As	75	100.609				
	Se	77	106.442				
	Se	78	105.327				
	Se	82	104.210				
	Kr	83					
	Y	89					
	Mo	95	101.026				
	Mo	97	106.738				
	Mo	98	102.991				
	Rh	103					
	Ag	107	103.699				
	Ag	109	102.061				
	Cd	111	106.021				
	Cd	114	104.683				
>	In	115		94.454			
	Sb	121	100.348				
	Sb	123	100.115				
	Ba	135	97.006				
	Ba	137	98.211				
>	Tb	159		93.371			
>	Ho	165		93.009			
	Tl	203	102.594				
	Tl	205	107.888				
	Pb	208	104.927				
	Pb	206	102.126				
	Pb	207	101.632				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 14:38:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.011

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56.667	10.3	63.001	-0.00243	0.005	204.8	ug/L
	Al	27	2674.789	0.9	2334.350	0.07459	0.008	10.7	ug/L
>	Sc	45	358890.334	1.4	381869.082				ug/L
	V	51	4370.113	4.7	4488.603	0.00983	0.013	131.4	ug/L
	Cr	52	14611.616	2.2	15368.650	0.01245	0.017	138.3	ug/L
	Cr	53	1378.461	3.8	814.381	0.36223	0.040	11.2	ug/L
	Mn	55	526.355	5.3	494.020	0.00205	0.001	66.7	ug/L
	Co	59	181.004	7.6	188.671	-0.00025	0.001	330.7	ug/L
	Ni	60	172.004	9.0	136.669	0.00968	0.004	39.5	ug/L
	Ni	62	145.336	3.8	143.669	0.00712	0.009	124.8	ug/L
	Cu	63	262.340	9.0	212.338	0.00602	0.002	40.9	ug/L
	Cu	65	226.005	13.4	189.671	0.00915	0.007	72.5	ug/L
	Zn	66	1475.479	4.1	1515.486	-0.00564	0.020	350.8	ug/L
	Zn	67	378.346	6.5	342.344	0.09561	0.059	61.6	ug/L
	Zn	68	1122.087	2.5	1170.427	-0.01525	0.014	90.9	ug/L
>	Ge	72	240685.807	0.8	244883.968				ug/L
	As	75	228.339	13.4	124.002	0.03407	0.010	30.2	ug/L
	Se	77	254.537	4.0	216.736	0.17781	0.044	24.9	ug/L
	Se	78	15628.412	2.1	16119.238	-0.28039	0.515	183.5	mg/L
	Se	82	1799.861	1.5	1872.010	-0.12731	0.119	93.6	ug/L
	Kr	83	1799.879	2.5	1902.236				mg/L
	Y	89	394852.075	1.0	408188.389				ug/L
	Mo	95	1061.079	11.3	112.002	0.18332	0.023	12.7	ug/L
	Mo	97	651.032	2.8	64.001	0.18639	0.006	3.4	ug/L
	Mo	98	1690.951	13.8	98.282	0.20017	0.029	14.6	ug/L
	Rh	103	320446.509	0.5	340052.119				ug/L
	Ag	107	165.337	2.1	91.335	0.00604	0.000	4.9	ug/L
	Ag	109	141.336	3.5	75.668	0.00568	0.000	7.8	ug/L
	Cd	111	190.705	17.1	218.275	-0.00679	0.011	159.8	ug/L
	Cd	114	53.401	5.6	58.957	-0.00053	0.000	81.4	ug/L
>	In	115	345551.182	0.5	358352.924				ug/L
	Sb	121	1247.107	13.9	107.668	0.12722	0.019	15.1	ug/L
	Sb	123	905.183	10.2	79.665	0.11975	0.013	11.0	ug/L
	Ba	135	45.001	8.0	46.667	0.00089	0.002	215.4	ug/L
	Ba	137	50.001	17.1	47.001	0.00176	0.003	145.7	ug/L
>	Tb	159	379142.947	2.8	411268.087				ug/L
>	Ho	165	373265.552	0.9	390096.908				ug/L
	Tl	203	178.337	10.4	60.001	0.01592	0.002	15.5	ug/L
	Tl	205	368.345	11.9	78.001	0.01751	0.003	15.5	ug/L
	Pb	208	417.675	1.4	320.672	0.00459	0.000	6.3	ug/L

Pb	206	107.002	9.2	87.335	0.00369	0.002	41.9	ug/L
Pb	207	101.002	4.5	77.001	0.00515	0.001	14.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		93.983			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.286			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.428			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.189			
>	Ho	165		95.685			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, November 13, 2006 14:44:34
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 8.012

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	102982.796	0.7	63.001	96.30540	0.825	0.9	ug/L
	Al	27	616148.382	0.9	2334.350	94.63353	1.429	1.5	ug/L
>	Sc	45	360838.432	0.6	381869.082				ug/L
	V	51	1566013.920	2.4	4488.603	100.75484	2.327	2.3	ug/L
	Cr	52	1399081.291	0.1	15368.650	102.33316	0.613	0.6	ug/L
	Cr	53	176711.470	0.9	814.381	103.29908	1.201	1.2	ug/L
	Mn	55	1939030.393	0.6	494.020	97.28142	1.264	1.3	ug/L
	Co	59	1707567.497	0.3	188.671	98.32886	1.886	1.9	ug/L
	Ni	60	384901.424	0.8	136.669	98.72850	2.430	2.5	ug/L
	Ni	62	57760.755	1.4	143.669	99.36672	2.745	2.8	ug/L
	Cu	63	885069.266	2.0	212.338	99.32801	3.339	3.4	ug/L
	Cu	65	428418.178	2.3	189.671	99.22151	3.450	3.5	ug/L
	Zn	66	251880.434	0.0	1515.486	98.97587	1.706	1.7	ug/L
	Zn	67	44180.598	1.5	342.344	99.79263	3.015	3.0	ug/L
	Zn	68	187194.410	3.2	1170.427	100.15735	4.786	4.8	ug/L
>	Ge	72	241153.240	1.7	244883.968				ug/L
	As	75	314326.818	1.0	124.002	100.26663	2.431	2.4	ug/L
	Se	77	23334.625	0.3	216.736	98.84116	1.827	1.8	ug/L
	Se	78	89065.580	1.6	16119.238	96.14555	3.703	3.9	mg/L
	Se	82	32565.708	0.4	1872.010	97.87591	2.134	2.2	ug/L
	Kr	83	1752.535	2.4	1902.236				mg/L
	Y	89	388754.452	1.2	408188.389				ug/L
	Mo	95	537363.458	0.4	112.002	101.16550	1.036	1.0	ug/L
	Mo	97	326578.280	0.7	64.001	101.09901	1.604	1.6	ug/L
	Mo	98	801594.611	1.8	98.282	98.39907	2.014	2.0	ug/L
	Rh	103	321597.104	3.4	340052.119				ug/L
	Ag	107	1329941.904	3.3	91.335	101.70410	3.526	3.5	ug/L
	Ag	109	1247819.325	1.3	75.668	101.54971	1.292	1.3	ug/L
	Cd	111	296808.705	1.0	218.275	99.31371	1.933	1.9	ug/L
	Cd	114	662417.009	1.3	58.957	99.61176	0.359	0.4	ug/L
>	In	115	352980.480	0.9	358352.924				ug/L
	Sb	121	930090.032	1.1	107.668	101.30910	0.705	0.7	ug/L
	Sb	123	718826.554	0.7	79.665	101.74031	1.571	1.5	ug/L
	Ba	135	229776.402	2.3	46.667	99.02230	1.161	1.2	ug/L
	Ba	137	397862.707	2.2	47.001	100.47265	0.553	0.6	ug/L
>	Tb	159	385427.788	1.7	411268.087				ug/L
>	Ho	165	370439.849	0.3	390096.908				ug/L
	Tl	203	763149.205	2.0	60.001	101.24195	2.268	2.2	ug/L
	Tl	205	1707021.825	0.1	78.001	102.48307	0.189	0.2	ug/L
	Pb	208	2463862.427	0.9	320.672	102.75582	1.216	1.2	ug/L

Pb	206	653983.408	1.6	87.335	103.68848	1.892	1.8	ug/L
Pb	207	539625.766	1.7	77.001	102.43980	2.017	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	96.305				
	Al	27	94.634				
>	Sc	45		94.493			
	V	51	100.755				
	Cr	52	102.333				
	Cr	53	103.299				
	Mn	55	97.281				
	Co	59	98.329				
	Ni	60	98.729				
	Ni	62	99.367				
	Cu	63	99.328				
	Cu	65	99.222				
	Zn	66	98.976				
	Zn	67	99.793				
	Zn	68	100.157				
>	Ge	72		98.477			
	As	75	100.267				
	Se	77	98.841				
	Se	78					
	Se	82	97.876				
	Kr	83					
	Y	89					
	Mo	95	101.165				
	Mo	97	101.099				
	Mo	98	98.399				
	Rh	103					
	Ag	107	101.704				
	Ag	109	101.550				
	Cd	111	99.314				
	Cd	114	99.612				
>	In	115		98.501			
	Sb	121	101.309				
	Sb	123	101.740				
	Ba	135	99.022				
	Ba	137	100.473				
>	Tb	159		93.717			
>	Ho	165		94.961			
	Tl	203	101.242				
	Tl	205	102.483				
	Pb	208	102.756				
	Pb	206	103.688				
	Pb	207	102.440				

Elan 9000 Method 6020 - Summary Report

Sample ID: 945866

Sample Date/Time: Monday, November 13, 2006 14:50:32
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\945866.013

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	69.668	15.9	63.001	-0.00038	0.009	2446.6	ug/L
	Al	27	30577.646	1.7	2334.350	3.65530	0.165	4.5	ug/L
>	Sc	45	426050.531	3.7	381869.082				ug/L
	V	51	4913.721	8.8	4488.603	-0.00486	0.026	535.0	ug/L
	Cr	52	26521.418	2.4	15368.650	0.58858	0.082	14.0	ug/L
	Cr	53	3784.566	6.2	814.381	1.43378	0.175	12.2	ug/L
	Mn	55	6134269.326	1.8	494.020	292.06429	6.622	2.3	ug/L
	Co	59	11756.406	1.7	188.671	0.63159	0.004	0.6	ug/L
	Ni	60	22965.848	2.8	136.669	5.55526	0.124	2.2	ug/L
	Ni	62	2824.507	3.1	143.669	4.37675	0.132	3.0	ug/L
	Cu	63	10286.784	2.4	212.338	1.07217	0.040	3.7	ug/L
	Cu	65	1665.516	1.2	189.671	0.32280	0.003	1.0	ug/L
	Zn	66	14665.376	2.0	1515.486	4.90951	0.048	1.0	ug/L
	Zn	67	3637.831	3.1	342.344	7.08926	0.313	4.4	ug/L
	Zn	68	16464.088	2.9	1170.427	7.78531	0.181	2.3	ug/L
>	Ge	72	254146.821	1.3	244883.968				ug/L
	As	75	8175.423	0.7	124.002	2.43606	0.023	0.9	ug/L
	Se	77	487.814	1.1	216.736	1.06620	0.019	1.8	ug/L
	Se	78	17830.322	2.6	16119.238	1.37504	0.663	48.2	mg/L
	Se	82	2048.718	0.3	1872.010	0.32077	0.086	26.7	ug/L
	Kr	83	1993.258	0.8	1902.236				mg/L
	Y	89	421436.300	1.3	408188.389				ug/L
	Mo	95	13678.034	4.5	112.002	2.57528	0.159	6.2	ug/L
	Mo	97	8782.725	6.1	64.001	2.72191	0.214	7.9	ug/L
	Mo	98	21846.222	8.8	98.282	2.69300	0.287	10.7	ug/L
	Rh	103	336457.539	1.6	340052.119				ug/L
	Ag	107	1179.095	1.8	91.335	0.08395	0.001	0.7	ug/L
	Ag	109	1135.422	5.3	75.668	0.08709	0.006	7.3	ug/L
	Cd	111	74.174	55.4	218.275	-0.04696	0.014	29.6	ug/L
	Cd	114	146.441	20.0	58.957	0.01351	0.005	35.9	ug/L
>	In	115	350417.050	1.9	358352.924				ug/L
	Sb	121	2366.390	37.0	107.668	0.24932	0.101	40.6	ug/L
	Sb	123	1734.764	37.3	79.665	0.23740	0.097	40.9	ug/L
	Ba	135	128996.155	1.5	46.667	52.11465	0.914	1.8	ug/L
	Ba	137	215277.802	0.9	47.001	50.96959	0.687	1.3	ug/L
>	Tb	159	411100.410	0.7	411268.087				ug/L
>	Ho	165	388108.035	1.3	390096.908				ug/L
	Tl	203	751.375	6.2	60.001	0.08763	0.007	7.7	ug/L
	Tl	205	1678.186	3.3	78.001	0.09174	0.004	4.1	ug/L
	Pb	208	2617.185	2.9	320.672	0.09151	0.004	4.1	ug/L

Pb	206	695.703	5.7	87.335	0.09214	0.006	6.5	ug/L
Pb	207	560.024	5.0	77.001	0.08762	0.006	6.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		111.570			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.783			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.785			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.959			
>	Ho	165		99.490			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 945866D

Sample Date/Time: Monday, November 13, 2006 14:58:47
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\945866D.014

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	63.001	10.4	63.001	-0.00579	0.006	101.5	ug/L
	Al	27	25987.105	4.5	2334.350	3.04861	0.170	5.6	ug/L
>	Sc	45	426623.385	1.4	381869.082				ug/L
	V	51	4890.831	6.0	4488.603	-0.00673	0.016	239.7	ug/L
	Cr	52	25748.977	0.6	15368.650	0.53650	0.023	4.3	ug/L
	Cr	53	3938.971	3.6	814.381	1.50444	0.076	5.1	ug/L
	Mn	55	5845936.429	0.8	494.020	277.85767	5.177	1.9	ug/L
	Co	59	11565.137	1.7	188.671	0.62024	0.020	3.3	ug/L
	Ni	60	22472.822	1.3	136.669	5.42659	0.103	1.9	ug/L
	Ni	62	2703.466	2.4	143.669	4.17063	0.064	1.5	ug/L
	Cu	63	9753.140	3.6	212.338	1.01318	0.033	3.3	ug/L
	Cu	65	1503.151	3.6	189.671	0.28652	0.011	3.8	ug/L
	Zn	66	14565.867	1.7	1515.486	4.86314	0.082	1.7	ug/L
	Zn	67	3693.857	5.3	342.344	7.19109	0.311	4.3	ug/L
	Zn	68	15690.916	1.0	1170.427	7.37781	0.109	1.5	ug/L
>	Ge	72	254596.721	1.5	244883.968				ug/L
	As	75	7890.814	1.8	124.002	2.34561	0.036	1.5	ug/L
	Se	77	465.613	2.7	216.736	0.97274	0.042	4.4	ug/L
	Se	78	17536.364	2.8	16119.238	0.97101	0.707	72.8	mg/L
	Se	82	1955.563	1.7	1872.010	0.02983	0.182	610.7	ug/L
	Kr	83	1971.253	5.3	1902.236				mg/L
	Y	89	418402.013	2.1	408188.389				ug/L
	Mo	95	12251.456	1.3	112.002	2.20863	0.069	3.1	ug/L
	Mo	97	7469.759	4.6	64.001	2.21559	0.123	5.5	ug/L
	Mo	98	19172.104	0.5	98.282	2.26231	0.038	1.7	ug/L
	Rh	103	328054.892	1.9	340052.119				ug/L
	Ag	107	978.067	6.0	91.335	0.06540	0.005	7.2	ug/L
	Ag	109	896.391	1.8	75.668	0.06442	0.002	2.6	ug/L
	Cd	111	121.726	19.8	218.275	-0.03267	0.007	22.5	ug/L
	Cd	114	132.092	78.9	58.957	0.01060	0.015	145.3	ug/L
>	In	115	365376.444	1.8	358352.924				ug/L
	Sb	121	916.726	4.7	107.668	0.08498	0.006	6.9	ug/L
	Sb	123	696.961	10.5	79.665	0.08431	0.011	13.5	ug/L
	Ba	135	125831.254	1.4	46.667	51.56239	0.621	1.2	ug/L
	Ba	137	218204.006	1.3	47.001	52.40922	1.303	2.5	ug/L
>	Tb	159	405304.156	1.2	411268.087				ug/L
>	Ho	165	387425.020	1.5	390096.908				ug/L
	Tl	203	772.377	4.6	60.001	0.09039	0.003	3.3	ug/L
	Tl	205	1658.183	10.3	78.001	0.09067	0.009	9.4	ug/L
	Pb	208	2365.821	2.5	320.672	0.08164	0.001	1.1	ug/L

Pb	206	605.695	3.5	87.335	0.07867	0.003	3.4	ug/L
Pb	207	515.354	1.1	77.001	0.07969	0.002	2.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		111.720			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.966			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.960			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.550			
>	Ho	165		99.315			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 945866S

Sample Date/Time: Monday, November 13, 2006 15:04:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\945866S.015

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	21812.744	2.9	63.001	17.28365	0.609	3.5	ug/L
	Al	27	181201.038	0.7	2334.350	23.38622	0.454	1.9	ug/L
>	Sc	45	424877.991	2.4	381869.082				ug/L
	V	51	397404.841	1.0	4488.603	21.50858	0.583	2.7	ug/L
	Cr	52	362902.589	1.6	15368.650	21.71894	0.866	4.0	ug/L
	Cr	53	43431.988	0.5	814.381	21.21382	0.626	3.0	ug/L
	Mn	55	6549190.794	1.1	494.020	307.47535	7.124	2.3	ug/L
	Co	59	428858.529	1.6	188.671	23.09342	0.440	1.9	ug/L
	Ni	60	110356.378	1.0	136.669	26.45610	0.634	2.4	ug/L
	Ni	62	16376.578	2.2	143.669	26.17482	0.720	2.7	ug/L
	Cu	63	220060.257	1.4	212.338	23.07943	0.088	0.4	ug/L
	Cu	65	105918.620	0.8	189.671	22.91072	0.181	0.8	ug/L
	Zn	66	66279.253	1.9	1515.486	23.91805	0.436	1.8	ug/L
	Zn	67	12495.487	1.4	342.344	25.83982	0.740	2.9	ug/L
	Zn	68	55348.430	1.0	1170.427	27.24391	0.151	0.6	ug/L
>	Ge	72	257764.980	1.5	244883.968				ug/L
	As	75	73731.178	1.3	124.002	21.97358	0.610	2.8	ug/L
	Se	77	4814.657	0.8	216.736	18.34109	0.162	0.9	ug/L
	Se	78	30706.473	1.1	16119.238	16.88548	0.843	5.0	mg/L
	Se	82	7722.844	1.0	1872.010	17.14215	0.148	0.9	ug/L
	Kr	83	1932.243	3.2	1902.236				mg/L
	Y	89	431249.957	0.9	408188.389				ug/L
	Mo	95	138909.905	0.3	112.002	25.58586	0.108	0.4	ug/L
	Mo	97	87846.849	1.2	64.001	26.60752	0.368	1.4	ug/L
	Mo	98	221087.538	1.0	98.282	26.55909	0.196	0.7	ug/L
	Rh	103	332016.737	1.5	340052.119				ug/L
	Ag	107	289400.015	1.6	91.335	21.66086	0.425	2.0	ug/L
	Ag	109	268508.393	1.8	75.668	21.38774	0.384	1.8	ug/L
	Cd	111	64262.344	1.0	218.275	20.99227	0.239	1.1	ug/L
	Cd	114	146118.318	0.7	58.957	21.50506	0.098	0.5	ug/L
>	In	115	360550.956	0.6	358352.924				ug/L
	Sb	121	210822.728	1.0	107.668	22.47214	0.135	0.6	ug/L
	Sb	123	158947.755	1.1	79.665	22.01539	0.387	1.8	ug/L
	Ba	135	181042.704	3.0	46.667	72.39579	2.462	3.4	ug/L
	Ba	137	300247.324	0.7	47.001	70.36998	1.964	2.8	ug/L
>	Tb	159	415458.863	2.2	411268.087				ug/L
>	Ho	165	392185.554	1.1	390096.908				ug/L
	Tl	203	175907.626	0.1	60.001	22.03756	0.246	1.1	ug/L
	Tl	205	417753.241	0.5	78.001	23.68719	0.143	0.6	ug/L
	Pb	208	569044.869	0.4	320.672	22.40706	0.185	0.8	ug/L

I	Pb	206	146290.683	0.4	87.335	21.89869	0.240	1.1	ug/L
L	Pb	207	120123.823	0.9	77.001	21.53051	0.415	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		111.263			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.260			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.613			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.019			
>	Ho	165		100.535			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 945866A

Sample Date/Time: Monday, November 13, 2006 15:10:42
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\945866A.016

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	20847.588	0.9	63.001	16.82822	0.304	1.8	ug/L
	Al	27	164370.322	1.1	2334.350	21.59276	0.683	3.2	ug/L
>	Sc	45	417026.768	2.7	381869.082				ug/L
	V	51	370442.605	3.7	4488.603	20.42858	1.325	6.5	ug/L
	Cr	52	330685.780	1.6	15368.650	20.09002	0.891	4.4	ug/L
	Cr	53	41794.343	2.7	814.381	20.78149	0.315	1.5	ug/L
	Mn	55	6251185.079	0.7	494.020	303.47080	3.633	1.2	ug/L
	Co	59	398793.440	0.8	188.671	22.20601	0.097	0.4	ug/L
	Ni	60	107522.080	1.7	136.669	26.65689	0.738	2.8	ug/L
	Ni	62	14885.433	1.2	143.669	24.58580	0.100	0.4	ug/L
	Cu	63	205889.444	0.3	212.338	22.33133	0.163	0.7	ug/L
	Cu	65	97303.964	2.4	189.671	21.76783	0.731	3.4	ug/L
	Zn	66	60924.847	0.7	1515.486	22.70723	0.079	0.3	ug/L
	Zn	67	12157.652	1.7	342.344	25.99710	0.251	1.0	ug/L
	Zn	68	51034.335	1.8	1170.427	25.95155	0.597	2.3	ug/L
>	Ge	72	249244.845	1.1	244883.968				ug/L
	As	75	69813.308	1.8	124.002	21.51483	0.627	2.9	ug/L
	Se	77	4497.947	1.6	216.736	17.68756	0.178	1.0	ug/L
	Se	78	30485.674	1.6	16119.238	17.89398	1.029	5.8	mg/L
	Se	82	7301.131	0.9	1872.010	16.62806	0.038	0.2	ug/L
	Kr	83	1953.915	3.1	1902.236				mg/L
	Y	89	411719.163	3.0	408188.389				ug/L
	Mo	95	134035.647	2.1	112.002	24.91752	0.879	3.5	ug/L
	Mo	97	81038.381	2.1	64.001	24.77094	0.809	3.3	ug/L
	Mo	98	202081.809	1.7	98.282	24.49517	0.411	1.7	ug/L
	Rh	103	321093.743	1.1	340052.119				ug/L
	Ag	107	278036.998	1.2	91.335	21.00085	0.518	2.5	ug/L
	Ag	109	263686.655	0.9	75.668	21.19681	0.479	2.3	ug/L
	Cd	111	59328.422	2.9	218.275	19.54828	0.408	2.1	ug/L
	Cd	114	134082.258	0.1	58.957	19.91327	0.294	1.5	ug/L
>	In	115	357335.185	1.4	358352.924				ug/L
	Sb	121	195461.385	0.6	107.668	21.02341	0.179	0.9	ug/L
	Sb	123	150756.622	0.6	79.665	21.07038	0.390	1.9	ug/L
	Ba	135	176924.407	2.2	46.667	75.61875	2.769	3.7	ug/L
	Ba	137	299188.527	0.6	47.001	74.92425	1.490	2.0	ug/L
>	Tb	159	388755.687	1.6	411268.087				ug/L
>	Ho	165	377262.541	1.3	390096.908				ug/L
	Tl	203	162854.666	1.2	60.001	21.20791	0.150	0.7	ug/L
	Tl	205	382739.528	0.3	78.001	22.56157	0.289	1.3	ug/L
	Pb	208	531590.443	1.3	320.672	21.75994	0.298	1.4	ug/L

Pb	206	137486.000	1.2	87.335	21.39589	0.418	2.0	ug/L
Pb	207	113079.553	1.0	77.001	21.07059	0.477	2.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		109.207			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.781			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.716			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.526			
>	Ho	165		96.710			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 945866L

Sample Date/Time: Monday, November 13, 2006 15:16:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\945866L.017

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	64.334	17.9	63.001	0.00055	0.010	1900.5	ug/L
	Al	27	16514.192	3.5	2334.350	2.03695	0.096	4.7	ug/L
>	Sc	45	386474.267	1.0	381869.082				ug/L
	V	51	4497.793	9.8	4488.603	-0.00283	0.024	857.1	ug/L
	Cr	52	17675.571	1.3	15368.650	0.14641	0.012	8.1	ug/L
	Cr	53	1839.555	2.0	814.381	0.55656	0.016	2.9	ug/L
	Mn	55	1155957.031	3.2	494.020	56.21364	1.117	2.0	ug/L
	Co	59	2386.366	3.6	188.671	0.12250	0.001	0.8	ug/L
	Ni	60	4468.912	5.8	136.669	1.07899	0.101	9.4	ug/L
	Ni	62	650.032	3.0	143.669	0.84302	0.037	4.4	ug/L
	Cu	63	2571.089	1.6	212.338	0.25651	0.013	5.1	ug/L
	Cu	65	762.376	2.8	189.671	0.12799	0.005	3.7	ug/L
	Zn	66	4874.808	1.2	1515.486	1.27964	0.081	6.3	ug/L
	Zn	67	1122.087	2.0	342.344	1.70902	0.051	3.0	ug/L
	Zn	68	4498.926	0.5	1170.427	1.72820	0.071	4.1	ug/L
>	Ge	72	248755.252	3.3	244883.968				ug/L
	As	75	1716.527	2.6	124.002	0.49218	0.016	3.3	ug/L
	Se	77	274.071	3.9	216.736	0.22347	0.029	12.8	ug/L
	Se	78	16024.266	1.6	16119.238	-0.42718	0.860	201.4	mg/L
	Se	82	1819.865	1.5	1872.010	-0.24997	0.109	43.7	ug/L
	Kr	83	1829.552	0.9	1902.236				mg/L
	Y	89	410055.334	1.7	408188.389				ug/L
	Mo	95	2508.403	1.8	112.002	0.44679	0.005	1.2	ug/L
	Mo	97	1510.819	3.7	64.001	0.44365	0.020	4.6	ug/L
	Mo	98	3825.267	1.4	98.282	0.45300	0.004	1.0	ug/L
	Rh	103	333714.226	0.7	340052.119				ug/L
	Ag	107	304.675	5.2	91.335	0.01619	0.001	7.2	ug/L
	Ag	109	279.674	7.8	75.668	0.01648	0.002	11.8	ug/L
	Cd	111	169.695	18.3	218.275	-0.01579	0.010	62.7	ug/L
	Cd	114	21.513	185.4	58.957	-0.00551	0.006	107.7	ug/L
>	In	115	356550.372	0.9	358352.924				ug/L
	Sb	121	549.690	10.6	107.668	0.04769	0.006	12.1	ug/L
	Sb	123	404.707	11.4	79.665	0.04558	0.006	13.6	ug/L
	Ba	135	26232.157	1.5	46.667	10.68736	0.071	0.7	ug/L
	Ba	137	44138.370	1.3	47.001	10.54567	0.197	1.9	ug/L
>	Tb	159	407058.704	1.0	411268.087				ug/L
>	Ho	165	387412.501	1.9	390096.908				ug/L
	Tl	203	262.673	4.2	60.001	0.02578	0.002	6.5	ug/L
	Tl	205	580.026	3.7	78.001	0.02887	0.002	5.8	ug/L
	Pb	208	944.697	1.9	320.672	0.02498	0.001	2.1	ug/L

Pb	206	242.006	5.4	87.335	0.02353	0.001	5.9	ug/L
Pb	207	210.338	3.4	77.001	0.02430	0.001	2.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.206			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.581			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.497			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.976			
>	Ho	165		99.312			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 945867

Sample Date/Time: Monday, November 13, 2006 15:22:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\945867.018

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	65.668	4.9	63.001	-0.00683	0.002	23.8	ug/L
	Al	27	49953.788	1.2	2334.350	5.78698	0.044	0.8	ug/L
>	Sc	45	453472.089	1.6	381869.082				ug/L
	V	51	4850.286	4.7	4488.603	-0.02470	0.009	36.1	ug/L
	Cr	52	27879.169	0.2	15368.650	0.56657	0.028	5.0	ug/L
	Cr	53	4304.822	2.5	814.381	1.55916	0.028	1.8	ug/L
	Mn	55	5779565.580	0.9	494.020	260.26784	3.984	1.5	ug/L
	Co	59	11535.428	1.3	188.671	0.58547	0.012	2.0	ug/L
	Ni	60	22725.171	0.4	136.669	5.19816	0.094	1.8	ug/L
	Ni	62	2730.142	4.1	143.669	3.98259	0.234	5.9	ug/L
	Cu	63	12444.080	2.9	212.338	1.23003	0.044	3.6	ug/L
	Cu	65	2302.008	2.6	189.671	0.43525	0.009	2.0	ug/L
	Zn	66	20990.620	2.1	1515.486	6.85487	0.045	0.7	ug/L
	Zn	67	4990.544	0.4	342.344	9.42566	0.177	1.9	ug/L
	Zn	68	21285.365	1.2	1170.427	9.66086	0.242	2.5	ug/L
>	Ge	72	268704.651	1.5	244883.968				ug/L
	As	75	8522.775	0.7	124.002	2.40166	0.043	1.8	ug/L
	Se	77	491.615	2.2	216.736	0.97339	0.017	1.7	ug/L
	Se	78	17619.070	1.9	16119.238	-0.07363	0.696	945.2	mg/L
	Se	82	2011.843	2.6	1872.010	-0.12057	0.139	115.5	ug/L
	Kr	83	1975.587	3.1	1902.236				mg/L
	Y	89	441900.211	0.7	408188.389				ug/L
	Mo	95	12776.916	0.8	112.002	2.20674	0.015	0.7	ug/L
	Mo	97	7562.839	1.0	64.001	2.14851	0.027	1.2	ug/L
	Mo	98	19644.358	1.8	98.282	2.22080	0.011	0.5	ug/L
	Rh	103	343308.688	0.4	340052.119				ug/L
	Ag	107	833.717	1.3	91.335	0.05216	0.002	3.0	ug/L
	Ag	109	763.376	3.7	75.668	0.05148	0.003	5.4	ug/L
	Cd	111	65.424	67.1	218.275	-0.05167	0.014	26.3	ug/L
	Cd	114	93.287	97.6	58.957	0.00437	0.013	294.8	ug/L
>	In	115	381247.167	1.3	358352.924				ug/L
	Sb	121	529.356	7.8	107.668	0.04181	0.004	8.8	ug/L
	Sb	123	391.593	11.1	79.665	0.04019	0.005	13.3	ug/L
	Ba	135	162098.915	1.6	46.667	64.97957	1.916	2.9	ug/L
	Ba	137	276304.727	1.9	47.001	64.91119	2.161	3.3	ug/L
>	Tb	159	414449.076	1.6	411268.087				ug/L
>	Ho	165	409576.111	0.8	390096.908				ug/L
	Tl	203	740.707	7.9	60.001	0.08131	0.007	8.4	ug/L
	Tl	205	1778.543	12.6	78.001	0.09212	0.012	13.1	ug/L
	Pb	208	2672.195	2.5	320.672	0.08812	0.003	3.5	ug/L

Pb	206	726.372	3.5	87.335	0.09104	0.004	4.8	ug/L
Pb	207	539.356	3.5	77.001	0.07875	0.004	4.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		118.751			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		109.727			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.389			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.773			
>	Ho	165		104.993			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 946569

Sample Date/Time: Monday, November 13, 2006 15:28:34
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\946569.019

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	172.670	0.3	63.001	0.07961	0.002	2.3	ug/L
	Al	27	189695.364	0.7	2334.350	24.14746	0.325	1.3	ug/L
>	Sc	45	430876.163	1.1	381869.082				ug/L
	V	51	5379.862	10.8	4488.603	0.01694	0.030	175.5	ug/L
	Cr	52	34225.513	2.6	15368.650	1.04496	0.044	4.2	ug/L
	Cr	53	3382.054	2.2	814.381	1.21142	0.053	4.4	ug/L
	Mn	55	18983031.444	1.4	494.020	831.62209	18.658	2.2	ug/L
	Co	59	46786.472	2.0	188.671	2.34154	0.070	3.0	ug/L
	Ni	60	24829.522	1.4	136.669	5.52769	0.180	3.3	ug/L
	Ni	62	4567.632	4.1	143.669	6.63285	0.340	5.1	ug/L
	Cu	63	10279.106	1.7	212.338	0.98385	0.035	3.6	ug/L
	Cu	65	4364.522	5.1	189.671	0.83968	0.054	6.5	ug/L
	Zn	66	67553.755	1.6	1515.486	22.71855	0.354	1.6	ug/L
	Zn	67	10865.522	1.3	342.344	20.82339	0.697	3.3	ug/L
	Zn	68	50372.982	1.6	1170.427	23.04353	0.390	1.7	ug/L
>	Ge	72	276259.372	2.0	244883.968				ug/L
	As	75	3145.625	1.1	124.002	0.83734	0.023	2.8	ug/L
	Se	77	290.338	3.4	216.736	0.17158	0.053	31.0	ug/L
	Se	78	17879.234	2.2	16119.238	-0.33988	0.810	238.3	mg/L
	Se	82	1407.119	8.9	1872.010	-1.96299	0.273	13.9	ug/L
	Kr	83	1374.461	6.4	1902.236				mg/L
	Y	89	457134.315	2.2	408188.389				ug/L
	Mo	95	1102.417	5.6	112.002	0.16969	0.011	6.4	ug/L
	Mo	97	611.695	1.9	64.001	0.15425	0.003	2.1	ug/L
	Mo	98	1456.976	2.5	98.282	0.15223	0.004	2.7	ug/L
	Rh	103	351263.419	0.8	340052.119				ug/L
	Ag	107	334.677	2.5	91.335	0.01660	0.001	3.6	ug/L
	Ag	109	329.343	5.2	75.668	0.01853	0.001	7.1	ug/L
	Cd	111	446.333	2.3	218.275	0.06513	0.003	5.3	ug/L
	Cd	114	648.405	21.9	58.957	0.08073	0.019	24.1	ug/L
>	In	115	384702.001	0.2	358352.924				ug/L
	Sb	121	907.725	2.7	107.668	0.07918	0.002	2.9	ug/L
	Sb	123	710.374	2.3	79.665	0.08115	0.002	2.8	ug/L
	Ba	135	63933.288	0.6	46.667	25.03666	0.324	1.3	ug/L
	Ba	137	107067.149	0.4	47.001	24.57489	0.229	0.9	ug/L
>	Tb	159	423969.344	1.3	411268.087				ug/L
>	Ho	165	412689.801	0.6	390096.908				ug/L
	Tl	203	178.337	5.7	60.001	0.01368	0.001	9.7	ug/L
	Tl	205	339.010	5.7	78.001	0.01383	0.001	8.3	ug/L
	Pb	208	21682.249	0.3	320.672	0.79908	0.003	0.4	ug/L

Pb	206	5787.067	1.4	87.335	0.81050	0.007	0.8	ug/L
Pb	207	4472.578	1.9	77.001	0.74829	0.010	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		112.833			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		112.812			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.353			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.088			
>	Ho	165		105.792			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 946572

Sample Date/Time: Monday, November 13, 2006 15:34:32
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\946572.020

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	93.001	10.3	63.001	0.01753	0.008	43.2	ug/L
	Al	27	182898.000	3.5	2334.350	23.38504	0.858	3.7	ug/L
>	Sc	45	428769.473	0.2	381869.082				ug/L
	V	51	6231.456	8.7	4488.603	0.06472	0.030	45.9	ug/L
	Cr	52	36762.660	3.0	15368.650	1.21328	0.069	5.7	ug/L
	Cr	53	3686.852	0.9	814.381	1.36982	0.015	1.1	ug/L
	Mn	55	81255923.121	0.7	494.020	3702.52431	33.199	0.9	ug/L
	Co	59	399121.217	1.5	188.671	20.86138	0.523	2.5	ug/L
	Ni	60	166864.306	2.3	136.669	38.83147	0.383	1.0	ug/L
	Ni	62	27732.371	2.9	143.669	43.19127	1.911	4.4	ug/L
	Cu	63	44118.957	2.2	212.338	4.47321	0.139	3.1	ug/L
	Cu	65	19396.408	0.6	189.671	4.03687	0.055	1.4	ug/L
	Zn	66	212166.188	1.0	1515.486	75.56845	1.758	2.3	ug/L
	Zn	67	34490.611	2.8	342.344	70.49676	1.721	2.4	ug/L
	Zn	68	162205.390	0.5	1170.427	78.64548	1.101	1.4	ug/L
>	Ge	72	265570.917	1.6	244883.968				ug/L
	As	75	5088.271	2.9	124.002	1.43496	0.026	1.8	ug/L
	Se	77	362.675	0.6	216.736	0.49565	0.030	6.1	ug/L
	Se	78	18507.413	1.4	16119.238	1.22440	0.093	7.6	mg/L
	Se	82	1667.167	0.7	1872.010	-1.04894	0.089	8.5	ug/L
	Kr	83	1523.488	3.5	1902.236				mg/L
	Y	89	432695.889	0.8	408188.389				ug/L
	Mo	95	1250.106	3.9	112.002	0.20265	0.008	4.0	ug/L
	Mo	97	427.349	3.6	64.001	0.10611	0.006	5.4	ug/L
	Mo	98	984.123	2.2	98.282	0.10280	0.003	2.5	ug/L
	Rh	103	340620.475	1.4	340052.119				ug/L
	Ag	107	227.672	2.5	91.335	0.00965	0.001	5.6	ug/L
	Ag	109	171.670	10.0	75.668	0.00719	0.001	16.9	ug/L
	Cd	111	1295.866	1.2	218.275	0.33988	0.006	1.8	ug/L
	Cd	114	2770.531	6.6	58.957	0.38678	0.026	6.7	ug/L
>	In	115	371864.000	1.1	358352.924				ug/L
	Sb	121	2251.994	3.9	107.668	0.22127	0.007	3.1	ug/L
	Sb	123	1696.708	1.0	79.665	0.21688	0.005	2.2	ug/L
	Ba	135	166759.186	1.4	46.667	66.98364	0.557	0.8	ug/L
	Ba	137	279188.600	1.6	47.001	65.71692	0.507	0.8	ug/L
>	Tb	159	413485.398	0.9	411268.087				ug/L
>	Ho	165	394080.141	1.5	390096.908				ug/L
	Tl	203	486.352	3.2	60.001	0.05309	0.002	2.9	ug/L
	Tl	205	1091.416	7.8	78.001	0.05720	0.006	9.6	ug/L
	Pb	208	116402.509	1.1	320.672	4.55130	0.022	0.5	ug/L

Pb	206	30557.913	2.1	87.335	4.54153	0.065	1.4	ug/L
Pb	207	24550.356	0.6	77.001	4.36839	0.092	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		112.282			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.448			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.770			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.539			
>	Ho	165		101.021			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 946573

Sample Date/Time: Monday, November 13, 2006 15:40:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\946573.021

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	472.018	4.2	63.001	0.31885	0.012	3.8	ug/L
	Al	27	1597539.911	0.8	2334.350	208.54781	3.994	1.9	ug/L
>	Sc	45	425411.444	1.3	381869.082				ug/L
	V	51	3947.168	23.7	4488.603	-0.05787	0.049	85.3	ug/L
	Cr	52	162248.124	1.6	15368.650	9.10013	0.278	3.1	ug/L
	Cr	53	19074.998	0.8	814.381	9.04801	0.111	1.2	ug/L
	Mn	55	15635391.396	0.8	494.020	691.05135	17.029	2.5	ug/L
	Co	59	428274.907	1.8	188.671	21.70906	0.520	2.4	ug/L
	Ni	60	62037.222	3.7	136.669	13.99105	0.823	5.9	ug/L
	Ni	62	10385.906	1.3	143.669	15.52637	0.219	1.4	ug/L
	Cu	63	57480.144	1.0	212.338	5.65883	0.169	3.0	ug/L
	Cu	65	27715.959	0.8	189.671	5.61190	0.146	2.6	ug/L
	Zn	66	267248.946	1.0	1515.486	92.45225	2.500	2.7	ug/L
	Zn	67	43005.116	0.9	342.344	85.44091	2.708	3.2	ug/L
	Zn	68	194205.211	0.8	1170.427	91.43872	2.648	2.9	ug/L
>	Ge	72	273855.536	2.2	244883.968				ug/L
	As	75	6079.611	1.8	124.002	1.66920	0.021	1.3	ug/L
	Se	77	400.143	5.5	216.736	0.59497	0.104	17.5	ug/L
	Se	78	18121.537	3.0	16119.238	0.12657	1.097	866.7	mg/L
	Se	82	1839.203	2.4	1872.010	-0.71321	0.039	5.5	ug/L
	Kr	83	1754.869	4.7	1902.236				mg/L
	Y	89	726495.629	1.0	408188.389				ug/L
	Mo	95	6565.653	3.4	112.002	1.13611	0.046	4.1	ug/L
	Mo	97	3926.631	1.0	64.001	1.11797	0.012	1.1	ug/L
	Mo	98	9994.708	1.8	98.282	1.13623	0.026	2.3	ug/L
	Rh	103	344236.084	1.2	340052.119				ug/L
	Ag	107	603.695	1.6	91.335	0.03631	0.000	1.3	ug/L
	Ag	109	615.029	3.9	75.668	0.04076	0.002	4.2	ug/L
	Cd	111	998.936	0.3	218.275	0.24096	0.002	1.0	ug/L
	Cd	114	1491.863	4.8	58.957	0.20116	0.009	4.4	ug/L
>	In	115	377252.455	0.6	358352.924				ug/L
	Sb	121	1552.494	2.5	107.668	0.14670	0.005	3.1	ug/L
	Sb	123	1173.400	2.9	79.665	0.14428	0.004	2.9	ug/L
	Ba	135	137122.345	0.7	46.667	53.64426	0.913	1.7	ug/L
	Ba	137	228538.501	0.9	47.001	52.39249	0.587	1.1	ug/L
>	Tb	159	424570.761	1.0	411268.087				ug/L
>	Ho	165	413499.999	1.5	390096.908				ug/L
	Tl	203	442.349	1.5	60.001	0.04502	0.001	1.9	ug/L
	Tl	205	959.398	7.4	78.001	0.04719	0.004	9.2	ug/L
	Pb	208	154548.033	0.2	320.672	5.76290	0.079	1.4	ug/L

Pb	206	41527.645	1.5	87.335	5.88591	0.004	0.1	ug/L
Pb	207	31897.601	2.1	77.001	5.41245	0.157	2.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		111.402			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.831			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.274			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.235			
>	Ho	165		105.999			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 15:46:28
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.022

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51825.843	0.6	63.001	48.83578	0.398	0.8	ug/L
	Al	27	306964.195	2.2	2334.350	47.37141	1.598	3.4	ug/L
>	Sc	45	357920.274	1.4	381869.082				ug/L
	V	51	803021.070	0.7	4488.603	51.95772	0.413	0.8	ug/L
	Cr	52	691166.691	1.7	15368.650	50.43300	1.125	2.2	ug/L
	Cr	53	85996.724	1.7	814.381	50.45148	0.833	1.7	ug/L
	Mn	55	1005972.631	0.8	494.020	51.14918	1.314	2.6	ug/L
	Co	59	853591.020	0.5	188.671	49.81951	1.382	2.8	ug/L
	Ni	60	189301.453	2.1	136.669	49.20674	1.992	4.0	ug/L
	Ni	62	28448.435	1.6	143.669	49.48513	1.666	3.4	ug/L
	Cu	63	460925.558	1.4	212.338	52.42412	1.939	3.7	ug/L
	Cu	65	221564.827	2.5	189.671	52.00384	2.464	4.7	ug/L
	Zn	66	134142.177	1.5	1515.486	53.14510	0.477	0.9	ug/L
	Zn	67	22973.191	1.7	342.344	52.24058	2.104	4.0	ug/L
	Zn	68	96828.933	0.3	1170.427	52.20010	1.137	2.2	ug/L
>	Ge	72	237948.078	2.2	244883.968				ug/L
	As	75	154741.878	1.4	124.002	50.01699	1.702	3.4	ug/L
	Se	77	12246.860	1.3	216.736	52.14425	0.604	1.2	ug/L
	Se	78	53457.838	1.3	16119.238	50.32488	2.168	4.3	mg/L
	Se	82	17741.333	0.8	1872.010	51.41704	1.472	2.9	ug/L
	Kr	83	1672.852	4.8	1902.236				mg/L
	Y	89	391182.817	0.9	408188.389				ug/L
	Mo	95	259832.339	0.9	112.002	48.40121	0.232	0.5	ug/L
	Mo	97	160900.492	2.0	64.001	49.28155	0.686	1.4	ug/L
	Mo	98	415273.227	0.4	98.282	50.44594	0.334	0.7	ug/L
	Rh	103	320678.216	0.6	340052.119				ug/L
	Ag	107	664594.740	0.7	91.335	50.29667	0.490	1.0	ug/L
	Ag	109	640747.631	0.5	75.668	51.60750	0.466	0.9	ug/L
	Cd	111	152952.570	3.1	218.275	50.60723	1.253	2.5	ug/L
	Cd	114	341574.693	1.7	58.957	50.84282	1.368	2.7	ug/L
>	In	115	356645.935	1.0	358352.924				ug/L
	Sb	121	456047.801	0.9	107.668	49.16410	0.927	1.9	ug/L
	Sb	123	349192.902	0.4	79.665	48.90999	0.689	1.4	ug/L
	Ba	135	119411.757	1.4	46.667	51.39645	0.760	1.5	ug/L
	Ba	137	198327.224	2.1	47.001	50.02306	0.854	1.7	ug/L
>	Tb	159	385870.248	1.0	411268.087				ug/L
>	Ho	165	377624.973	1.8	390096.908				ug/L
	Tl	203	389898.783	1.8	60.001	50.73603	0.268	0.5	ug/L
	Tl	205	890712.194	1.7	78.001	52.45742	0.446	0.8	ug/L
	Pb	208	1263965.204	0.5	320.672	51.71227	0.723	1.4	ug/L

Pb	206	328374.460	2.5	87.335	51.06179	0.530	1.0	ug/L
Pb	207	267082.272	1.4	77.001	49.73411	0.742	1.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	97.672				
	Al	27	94.743				
>	Sc	45		93.729			
	V	51	103.915				
	Cr	52	100.866				
	Cr	53	100.903				
	Mn	55	102.298				
	Co	59	99.639				
	Ni	60	98.413				
	Ni	62	98.970				
	Cu	63	104.848				
	Cu	65	104.008				
	Zn	66	106.290				
	Zn	67	104.481				
	Zn	68	104.400				
>	Ge	72		97.168			
	As	75	100.034				
	Se	77	104.288				
	Se	78	100.650				
	Se	82	102.834				
	Kr	83					
	Y	89					
	Mo	95	96.802				
	Mo	97	98.563				
	Mo	98	100.892				
	Rh	103					
	Ag	107	100.593				
	Ag	109	103.215				
	Cd	111	101.214				
	Cd	114	101.686				
>	In	115		99.524			
	Sb	121	98.328				
	Sb	123	97.820				
	Ba	135	102.793				
	Ba	137	100.046				
>	Tb	159		93.825			
>	Ho	165		96.803			
	Tl	203	101.472				
	Tl	205	104.915				
	Pb	208	103.425				
	Pb	206	102.124				
	Pb	207	99.468				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 15:52:26
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.023

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.001	15.8	63.001	-0.00526	0.008	155.1	ug/L
	Al	27	2497.399	3.7	2334.350	0.04421	0.017	39.5	ug/L
>	Sc	45	361619.683	0.8	381869.082				ug/L
	V	51	4235.573	4.1	4488.603	-0.00097	0.011	1130.3	ug/L
	Cr	52	14172.521	2.4	15368.650	-0.02813	0.023	82.3	ug/L
	Cr	53	953.064	2.5	814.381	0.10654	0.013	12.3	ug/L
	Mn	55	607.695	2.0	494.020	0.00617	0.001	21.3	ug/L
	Co	59	142.336	4.1	188.671	-0.00249	0.000	8.6	ug/L
	Ni	60	144.336	14.8	136.669	0.00267	0.006	238.8	ug/L
	Ni	62	144.003	11.5	143.669	0.00478	0.026	549.9	ug/L
	Cu	63	309.009	2.1	212.338	0.01130	0.001	11.7	ug/L
	Cu	65	217.005	7.2	189.671	0.00711	0.004	50.1	ug/L
	Zn	66	1483.480	1.8	1515.486	-0.00207	0.016	793.0	ug/L
	Zn	67	327.010	8.0	342.344	-0.02093	0.066	317.7	ug/L
	Zn	68	1173.428	3.5	1170.427	0.01306	0.035	267.0	ug/L
>	Ge	72	240637.494	2.3	244883.968				ug/L
	As	75	200.338	6.6	124.002	0.02517	0.005	21.7	ug/L
	Se	77	240.003	2.5	216.736	0.11580	0.015	13.3	ug/L
	Se	78	15590.908	0.6	16119.238	-0.32041	0.472	147.5	mg/L
	Se	82	1777.190	3.3	1872.010	-0.19522	0.284	145.5	ug/L
	Kr	83	1759.203	3.5	1902.236				mg/L
	Y	89	396084.438	3.0	408188.389				ug/L
	Mo	95	736.040	12.3	112.002	0.11692	0.016	14.1	ug/L
	Mo	97	478.019	12.0	64.001	0.12748	0.017	13.1	ug/L
	Mo	98	1119.883	17.5	98.282	0.12470	0.024	18.9	ug/L
	Rh	103	322207.526	0.5	340052.119				ug/L
	Ag	107	166.337	17.6	91.335	0.00577	0.002	39.5	ug/L
	Ag	109	139.669	13.5	75.668	0.00524	0.002	30.1	ug/L
	Cd	111	194.307	1.9	218.275	-0.00734	0.001	10.1	ug/L
	Cd	114	58.963	12.5	58.957	0.00007	0.001	1410.1	ug/L
>	In	115	355202.942	0.8	358352.924				ug/L
	Sb	121	1255.108	13.9	107.668	0.12429	0.019	14.9	ug/L
	Sb	123	958.942	17.5	79.665	0.12372	0.023	18.6	ug/L
	Ba	135	48.001	14.6	46.667	0.00148	0.003	210.0	ug/L
	Ba	137	54.667	11.8	47.001	0.00242	0.001	61.8	ug/L
>	Tb	159	392628.496	1.4	411268.087				ug/L
>	Ho	165	383614.172	0.9	390096.908				ug/L
	Tl	203	82.001	21.4	60.001	0.00295	0.002	75.7	ug/L
	Tl	205	153.670	8.9	78.001	0.00447	0.001	18.8	ug/L
	Pb	208	451.676	2.4	320.672	0.00549	0.000	6.0	ug/L

Pb	206	115.669	11.5	87.335	0.00457	0.002	47.6	ug/L
Pb	207	119.335	12.8	77.001	0.00799	0.003	33.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		94.697			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.266			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.121			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.468			
>	Ho	165		98.338			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 946577

Sample Date/Time: Monday, November 13, 2006 15:58:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\946577.024

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.668	13.1	63.001	-0.00889	0.006	69.3	ug/L
	Al	27	149969.292	0.8	2334.350	18.41223	0.231	1.3	ug/L
>	Sc	45	444822.078	1.2	381869.082				ug/L
	V	51	8290.241	7.5	4488.603	0.16007	0.029	18.0	ug/L
	Cr	52	38139.459	0.4	15368.650	1.21359	0.036	2.9	ug/L
	Cr	53	3404.730	4.1	814.381	1.17001	0.075	6.4	ug/L
	Mn	55	151180.321	1.3	494.020	6.93235	0.107	1.5	ug/L
	Co	59	2155.634	3.4	188.671	0.10312	0.004	3.4	ug/L
	Ni	60	10053.832	3.2	136.669	2.33113	0.095	4.1	ug/L
	Ni	62	1688.522	6.2	143.669	2.42657	0.185	7.6	ug/L
	Cu	63	39390.336	3.3	212.338	4.02964	0.105	2.6	ug/L
	Cu	65	18478.321	2.0	189.671	3.88243	0.112	2.9	ug/L
	Zn	66	157683.238	1.2	1515.486	56.55964	0.472	0.8	ug/L
	Zn	67	24203.341	0.9	342.344	49.73731	0.191	0.4	ug/L
	Zn	68	114946.667	1.9	1170.427	56.10801	1.477	2.6	ug/L
>	Ge	72	262962.643	0.9	244883.968				ug/L
	As	75	1920.907	0.4	124.002	0.52306	0.003	0.5	ug/L
	Se	77	370.208	4.2	216.736	0.53855	0.047	8.8	ug/L
	Se	78	17764.462	0.8	16119.238	0.54862	0.150	27.3	mg/L
	Se	82	2151.412	7.0	1872.010	0.41439	0.476	114.9	ug/L
	Kr	83	2027.601	8.6	1902.236				mg/L
	Y	89	433509.644	1.1	408188.389				ug/L
	Mo	95	1975.590	13.4	112.002	0.33506	0.048	14.4	ug/L
	Mo	97	1215.435	11.0	64.001	0.34047	0.041	12.0	ug/L
	Mo	98	3080.625	11.1	98.282	0.34989	0.041	11.7	ug/L
	Rh	103	342718.204	0.6	340052.119				ug/L
	Ag	107	2499.400	1.7	91.335	0.17592	0.003	1.4	ug/L
	Ag	109	2355.023	2.5	75.668	0.17724	0.004	2.5	ug/L
	Cd	111	298.613	17.6	218.275	0.02367	0.017	72.3	ug/L
	Cd	114	284.815	23.0	58.957	0.03229	0.010	30.3	ug/L
>	In	115	369074.870	1.0	358352.924				ug/L
	Sb	121	1338.456	16.2	107.668	0.12797	0.023	18.1	ug/L
	Sb	123	975.844	13.0	79.665	0.12099	0.017	14.2	ug/L
	Ba	135	26742.441	0.3	46.667	10.69255	0.209	2.0	ug/L
	Ba	137	44968.846	2.7	47.001	10.54024	0.196	1.9	ug/L
>	Tb	159	414891.118	2.0	411268.087				ug/L
>	Ho	165	399987.099	1.7	390096.908				ug/L
	Tl	203	138.003	11.3	60.001	0.00939	0.002	19.9	ug/L
	Tl	205	285.674	5.4	78.001	0.01145	0.001	9.3	ug/L
	Pb	208	59465.721	0.5	320.672	2.28482	0.042	1.8	ug/L

Pb	206	15512.917	1.9	87.335	2.26489	0.004	0.2	ug/L
Pb	207	12175.011	1.6	77.001	2.12749	0.063	3.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		116.485			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.383			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.992			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.881			
>	Ho	165		102.535			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 946582

Sample Date/Time: Monday, November 13, 2006 16:04:22
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\946582.025

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	66.001	17.5	63.001	-0.00452	0.010	220.0	ug/L
	Al	27	200943.560	1.6	2334.350	25.27040	0.832	3.3	ug/L
>	Sc	45	436552.364	2.0	381869.082				ug/L
	V	51	5607.973	5.2	4488.603	0.02570	0.021	83.5	ug/L
	Cr	52	35584.511	1.3	15368.650	1.10150	0.072	6.5	ug/L
	Cr	53	3469.090	0.6	814.381	1.23226	0.043	3.5	ug/L
	Mn	55	58718764.192	1.7	494.020	2534.60597	29.826	1.2	ug/L
	Co	59	32124.813	2.5	188.671	1.58085	0.050	3.2	ug/L
	Ni	60	21880.604	4.0	136.669	4.79774	0.293	6.1	ug/L
	Ni	62	3459.086	1.1	143.669	4.88703	0.083	1.7	ug/L
	Cu	63	66130.083	2.0	212.338	6.36268	0.227	3.6	ug/L
	Cu	65	32695.678	0.9	189.671	6.47247	0.096	1.5	ug/L
	Zn	66	347413.955	2.3	1515.486	117.51660	0.304	0.3	ug/L
	Zn	67	53830.847	0.6	342.344	104.63106	2.565	2.5	ug/L
	Zn	68	259932.448	1.0	1170.427	119.72739	2.703	2.3	ug/L
>	Ge	72	280347.620	2.3	244883.968				ug/L
	As	75	197895.754	1.3	124.002	54.29725	1.910	3.5	ug/L
	Se	77	286.805	4.0	216.736	0.14202	0.025	17.5	ug/L
	Se	78	18136.566	2.0	16119.238	-0.34712	0.785	226.3	mg/L
	Se	82	1814.664	1.3	1872.010	-0.89903	0.063	7.0	ug/L
	Kr	83	1820.551	3.9	1902.236				mg/L
	Y	89	434066.967	2.7	408188.389				ug/L
	Mo	95	11702.663	1.5	112.002	2.05210	0.022	1.1	ug/L
	Mo	97	7022.363	3.0	64.001	2.02565	0.054	2.7	ug/L
	Mo	98	17629.573	1.0	98.282	2.02413	0.023	1.1	ug/L
	Rh	103	347979.950	1.8	340052.119				ug/L
	Ag	107	469.351	0.8	91.335	0.02689	0.000	1.7	ug/L
	Ag	109	381.679	3.5	75.668	0.02316	0.001	4.6	ug/L
	Cd	111	347.159	3.4	218.275	0.03735	0.003	8.4	ug/L
	Cd	114	394.124	21.2	58.957	0.04701	0.012	24.9	ug/L
>	In	115	375215.859	0.6	358352.924				ug/L
	Sb	121	768.710	2.5	107.668	0.06723	0.002	3.2	ug/L
	Sb	123	605.027	2.4	79.665	0.06946	0.002	3.5	ug/L
	Ba	135	100228.185	1.1	46.667	38.90198	0.829	2.1	ug/L
	Ba	137	173494.100	2.3	47.001	39.47147	1.434	3.6	ug/L
>	Tb	159	427907.355	1.4	411268.087				ug/L
>	Ho	165	397260.965	0.6	390096.908				ug/L
	Tl	203	122.669	11.5	60.001	0.00761	0.002	21.7	ug/L
	Tl	205	269.007	7.1	78.001	0.01062	0.001	10.6	ug/L
	Pb	208	241108.766	1.5	320.672	9.36543	0.181	1.9	ug/L

Pb	206	63514.117	1.3	87.335	9.37772	0.070	0.8	ug/L
Pb	207	50268.365	2.0	77.001	8.88616	0.217	2.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		114.320			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		114.482			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.706			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		104.046			
>	Ho	165		101.836			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948169

Sample Date/Time: Monday, November 13, 2006 16:10:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948169.026

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.334	21.2	63.001	-0.00662	0.011	166.4	ug/L
	Al	27	18920.321	2.8	2334.350	2.23353	0.055	2.5	ug/L
>	Sc	45	408890.164	1.8	381869.082				ug/L
	V	51	5543.361	4.0	4488.603	0.04188	0.007	17.6	ug/L
	Cr	52	24884.016	1.2	15368.650	0.54994	0.027	5.0	ug/L
	Cr	53	1804.213	0.3	814.381	0.48319	0.018	3.6	ug/L
	Mn	55	8474.393	2.3	494.020	0.37190	0.014	3.8	ug/L
	Co	59	433.016	6.6	188.671	0.01254	0.002	13.3	ug/L
	Ni	60	775.044	6.5	136.669	0.15084	0.014	9.5	ug/L
	Ni	62	262.340	0.2	143.669	0.17755	0.006	3.2	ug/L
	Cu	63	3071.265	6.0	212.338	0.29761	0.018	6.0	ug/L
	Cu	65	1495.483	4.3	189.671	0.27941	0.010	3.6	ug/L
	Zn	66	5461.845	2.7	1515.486	1.42126	0.031	2.2	ug/L
	Zn	67	945.730	3.4	342.344	1.23821	0.074	6.0	ug/L
	Zn	68	3964.983	2.8	1170.427	1.36792	0.061	4.5	ug/L
>	Ge	72	258814.599	1.3	244883.968				ug/L
	As	75	256.673	2.7	124.002	0.03735	0.002	5.9	ug/L
	Se	77	247.537	7.2	216.736	0.07397	0.078	105.4	ug/L
	Se	78	17297.395	3.2	16119.238	0.31658	0.436	137.7	mg/L
	Se	82	1814.264	0.7	1872.010	-0.48654	0.104	21.4	ug/L
	Kr	83	1811.215	1.9	1902.236				mg/L
	Y	89	429657.031	2.3	408188.389				ug/L
	Mo	95	472.351	5.3	112.002	0.06122	0.003	5.3	ug/L
	Mo	97	253.673	15.8	64.001	0.05287	0.011	20.5	ug/L
	Mo	98	641.345	12.2	98.282	0.06066	0.008	12.9	ug/L
	Rh	103	348336.787	1.0	340052.119				ug/L
	Ag	107	87.335	22.6	91.335	-0.00071	0.001	203.9	ug/L
	Ag	109	71.334	15.1	75.668	-0.00072	0.001	103.0	ug/L
	Cd	111	261.736	11.6	218.275	0.00885	0.009	107.3	ug/L
	Cd	114	-12.839	728.4	58.957	-0.01038	0.013	124.3	ug/L
>	In	115	382727.647	1.6	358352.924				ug/L
	Sb	121	277.007	2.9	107.668	0.01629	0.001	7.5	ug/L
	Sb	123	188.753	5.5	79.665	0.01354	0.002	11.1	ug/L
	Ba	135	735.373	3.1	46.667	0.27314	0.012	4.6	ug/L
	Ba	137	1227.103	3.1	47.001	0.27424	0.005	1.8	ug/L
>	Tb	159	418551.126	1.3	411268.087				ug/L
>	Ho	165	407324.408	0.9	390096.908				ug/L
	Tl	203	51.001	7.8	60.001	-0.00141	0.000	34.8	ug/L
	Tl	205	53.001	16.1	78.001	-0.00156	0.000	28.7	ug/L
	Pb	208	1767.091	1.0	320.672	0.05433	0.001	1.5	ug/L

Pb	206	457.684	4.8	87.335	0.05286	0.003	6.3	ug/L
Pb	207	381.679	2.9	77.001	0.05202	0.002	3.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		107.076			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.689			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.802			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.771			
>	Ho	165		104.416			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: FBlank 10/13

Sample Date/Time: Monday, November 13, 2006 16:16:19
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\FBlank.027

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	66.001	16.9	63.001	-0.00162	0.010	629.7	ug/L
	Al	27	48365.434	0.7	2334.350	6.17369	0.212	3.4	ug/L
>	Sc	45	413196.385	2.6	381869.082				ug/L
	V	51	5832.024	4.6	4488.603	0.05501	0.015	27.0	ug/L
	Cr	52	28734.417	1.7	15368.650	0.78218	0.060	7.7	ug/L
	Cr	53	2201.646	1.6	814.381	0.67736	0.026	3.8	ug/L
	Mn	55	47553.983	4.9	494.020	2.17006	0.166	7.6	ug/L
	Co	59	767.043	2.8	188.671	0.02990	0.002	7.0	ug/L
	Ni	60	1775.874	1.5	136.669	0.38420	0.017	4.5	ug/L
	Ni	62	432.349	7.3	143.669	0.44159	0.064	14.4	ug/L
	Cu	63	9394.720	1.1	212.338	0.94519	0.023	2.4	ug/L
	Cu	65	4251.127	0.6	189.671	0.86156	0.025	2.9	ug/L
	Zn	66	100252.777	0.6	1515.486	35.82329	1.216	3.4	ug/L
	Zn	67	15098.484	0.9	342.344	30.79969	0.734	2.4	ug/L
	Zn	68	69436.208	2.3	1170.427	33.72553	1.670	5.0	ug/L
>	Ge	72	262555.464	2.7	244883.968				ug/L
	As	75	218.672	6.2	124.002	0.02508	0.002	9.0	ug/L
	Se	77	252.337	0.9	216.736	0.07895	0.034	42.6	ug/L
	Se	78	17594.137	1.1	16119.238	0.38216	0.350	91.7	mg/L
	Se	82	1854.673	1.0	1872.010	-0.44310	0.166	37.6	ug/L
	Kr	83	1752.202	1.2	1902.236				mg/L
	Y	89	443692.046	1.1	408188.389				ug/L
	Mo	95	435.349	10.3	112.002	0.05323	0.007	12.6	ug/L
	Mo	97	255.006	9.2	64.001	0.05181	0.007	12.9	ug/L
	Mo	98	575.748	5.4	98.282	0.05196	0.003	5.7	ug/L
	Rh	103	359035.539	0.4	340052.119				ug/L
	Ag	107	7004.346	1.5	91.335	0.47703	0.002	0.4	ug/L
	Ag	109	6638.377	2.1	75.668	0.48220	0.018	3.8	ug/L
	Cd	111	290.889	5.8	218.275	0.01599	0.005	28.3	ug/L
	Cd	114	282.513	32.8	58.957	0.02977	0.013	44.2	ug/L
>	In	115	390721.397	1.6	358352.924				ug/L
	Sb	121	412.348	3.4	107.668	0.02904	0.002	6.5	ug/L
	Sb	123	329.705	7.6	79.665	0.03103	0.003	8.9	ug/L
	Ba	135	6914.604	1.7	46.667	2.68637	0.011	0.4	ug/L
	Ba	137	11732.037	0.2	47.001	2.67884	0.041	1.5	ug/L
>	Tb	159	424637.588	1.4	411268.087				ug/L
>	Ho	165	409258.721	1.3	390096.908				ug/L
	Tl	203	56.001	5.4	60.001	-0.00083	0.000	40.0	ug/L
	Tl	205	94.335	12.6	78.001	0.00068	0.001	86.2	ug/L
	Pb	208	9384.501	0.9	320.672	0.34166	0.007	2.2	ug/L

Pb	206	2457.387	3.6	87.335	0.33967	0.017	4.9	ug/L
Pb	207	1960.250	3.7	77.001	0.32293	0.009	2.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		108.204			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.216			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.033			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.251			
>	Ho	165		104.912			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: FBlank

Sample Date/Time: Monday, November 13, 2006 16:22:17
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\FBlank.028

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58.334	11.2	63.001	-0.00640	0.006	87.7	ug/L
	Al	27	38342.775	3.0	2334.350	4.99726	0.160	3.2	ug/L
>	Sc	45	399553.336	0.4	381869.082				ug/L
	V	51	5844.737	5.9	4488.603	0.06687	0.019	28.7	ug/L
	Cr	52	27082.881	1.5	15368.650	0.73438	0.025	3.4	ug/L
	Cr	53	1959.250	1.2	814.381	0.58708	0.017	3.0	ug/L
	Mn	55	7059.729	3.6	494.020	0.31090	0.013	4.3	ug/L
	Co	59	407.681	23.7	188.671	0.01150	0.005	44.5	ug/L
	Ni	60	942.063	5.5	136.669	0.19425	0.014	7.1	ug/L
	Ni	62	282.674	11.6	143.669	0.21752	0.055	25.4	ug/L
	Cu	63	9776.497	1.7	212.338	1.01487	0.010	1.0	ug/L
	Cu	65	4605.652	1.4	189.671	0.96644	0.011	1.1	ug/L
	Zn	66	7339.972	1.5	1515.486	2.15577	0.024	1.1	ug/L
	Zn	67	1272.443	1.0	342.344	1.97352	0.046	2.3	ug/L
	Zn	68	5629.958	1.9	1170.427	2.24747	0.073	3.2	ug/L
>	Ge	72	254782.155	0.7	244883.968				ug/L
	As	75	181.337	4.3	124.002	0.01580	0.002	14.1	ug/L
	Se	77	243.670	0.6	216.736	0.07352	0.001	1.9	ug/L
	Se	78	17675.499	1.0	16119.238	1.12603	0.362	32.2	mg/L
	Se	82	1844.537	0.8	1872.010	-0.31063	0.072	23.2	ug/L
	Kr	83	1877.564	1.4	1902.236				mg/L
	Y	89	433930.854	2.7	408188.389				ug/L
	Mo	95	339.677	5.8	112.002	0.03880	0.003	7.9	ug/L
	Mo	97	216.338	7.4	64.001	0.04292	0.005	12.1	ug/L
	Mo	98	460.221	5.4	98.282	0.04077	0.003	7.6	ug/L
	Rh	103	354107.200	0.4	340052.119				ug/L
	Ag	107	1865.894	1.4	91.335	0.12607	0.001	1.1	ug/L
	Ag	109	1731.197	3.7	75.668	0.12518	0.003	2.8	ug/L
	Cd	111	219.586	6.6	218.275	-0.00346	0.005	145.5	ug/L
	Cd	114	-62.215	146.5	58.957	-0.01741	0.013	73.6	ug/L
>	In	115	378849.552	1.1	358352.924				ug/L
	Sb	121	241.673	3.6	107.668	0.01298	0.001	8.2	ug/L
	Sb	123	182.383	9.0	79.665	0.01293	0.002	15.3	ug/L
	Ba	135	4944.850	2.1	46.667	1.91254	0.056	2.9	ug/L
	Ba	137	8439.357	2.1	47.001	1.92028	0.052	2.7	ug/L
>	Tb	159	425422.063	0.9	411268.087				ug/L
>	Ho	165	399456.957	0.9	390096.908				ug/L
	Tl	203	49.334	6.5	60.001	-0.00149	0.000	23.5	ug/L
	Tl	205	58.667	3.5	78.001	-0.00118	0.000	12.5	ug/L
	Pb	208	8440.095	1.3	320.672	0.31375	0.002	0.6	ug/L

Pb	206	2173.972	4.8	87.335	0.30651	0.014	4.7	ug/L
Pb	207	1792.211	1.1	77.001	0.30168	0.004	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		104.631			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.042			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.720			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.442			
>	Ho	165		102.399			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: FBlank

Sample Date/Time: Monday, November 13, 2006 16:28:15
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990125
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\FBlank.029

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	64.668	7.9	63.001	-0.00038	0.004	1074.1	ug/L
	Al	27	70295.616	0.5	2334.350	9.56911	0.100	1.0	ug/L
>	Sc	45	394562.565	0.7	381869.082				ug/L
	V	51	5209.681	12.7	4488.603	0.03391	0.041	120.3	ug/L
	Cr	52	24770.681	1.7	15368.650	0.60111	0.037	6.2	ug/L
	Cr	53	1714.860	0.5	814.381	0.46900	0.011	2.3	ug/L
	Mn	55	6375.836	1.8	494.020	0.27752	0.003	1.1	ug/L
	Co	59	399.680	4.6	188.671	0.01102	0.001	8.3	ug/L
	Ni	60	1093.416	2.9	136.669	0.23024	0.009	3.7	ug/L
	Ni	62	291.341	5.6	143.669	0.23012	0.025	10.9	ug/L
	Cu	63	19305.536	2.2	212.338	2.02133	0.047	2.3	ug/L
	Cu	65	9378.703	1.5	189.671	2.00716	0.034	1.7	ug/L
	Zn	66	6332.135	1.7	1515.486	1.77208	0.023	1.3	ug/L
	Zn	67	1087.415	4.0	342.344	1.56851	0.102	6.5	ug/L
	Zn	68	4669.355	0.4	1170.427	1.75127	0.010	0.6	ug/L
>	Ge	72	255500.369	0.8	244883.968				ug/L
	As	75	157.336	4.9	124.002	0.00841	0.002	23.2	ug/L
	Se	77	255.471	1.5	216.736	0.11847	0.023	19.7	ug/L
	Se	78	17443.077	2.5	16119.238	0.77501	0.533	68.8	mg/L
	Se	82	1831.268	1.4	1872.010	-0.36663	0.036	9.8	ug/L
	Kr	83	1842.556	3.2	1902.236				mg/L
	Y	89	429070.559	1.9	408188.389				ug/L
	Mo	95	306.009	9.2	112.002	0.03434	0.005	15.2	ug/L
	Mo	97	179.670	6.7	64.001	0.03368	0.003	10.1	ug/L
	Mo	98	391.365	5.1	98.282	0.03407	0.002	6.9	ug/L
	Rh	103	341193.218	2.6	340052.119				ug/L
	Ag	107	127.002	3.9	91.335	0.00241	0.000	16.7	ug/L
	Ag	109	112.002	13.9	75.668	0.00265	0.001	46.8	ug/L
	Cd	111	250.735	11.0	218.275	0.00829	0.009	104.3	ug/L
	Cd	114	40.585	119.8	58.957	-0.00291	0.007	238.9	ug/L
>	In	115	369068.619	0.4	358352.924				ug/L
	Sb	121	186.337	10.4	107.668	0.00786	0.002	24.9	ug/L
	Sb	123	140.690	8.9	79.665	0.00794	0.002	22.3	ug/L
	Ba	135	544.690	9.0	46.667	0.20073	0.022	11.0	ug/L
	Ba	137	874.388	1.0	47.001	0.19527	0.000	0.1	ug/L
>	Tb	159	412412.371	1.1	411268.087				ug/L
>	Ho	165	393207.992	2.6	390096.908				ug/L
	Tl	203	41.334	21.8	60.001	-0.00238	0.001	51.8	ug/L
	Tl	205	61.334	18.5	78.001	-0.00097	0.001	75.7	ug/L
	Pb	208	6079.264	2.0	320.672	0.22623	0.005	2.0	ug/L

Pb	206	1570.497	5.6	87.335	0.22138	0.009	4.2	ug/L
Pb	207	1291.113	5.2	77.001	0.21720	0.015	6.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.324			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.335			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.990			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.278			
>	Ho	165		100.798			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 13, 2006 16:34:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 3.030

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1085.082	6.5	63.001	0.96434	0.054	5.6	ug/L
	Al	27	69967.230	1.4	2334.350	10.49908	0.023	0.2	ug/L
>	Sc	45	359005.232	1.2	381869.082				ug/L
	V	51	21933.099	1.9	4488.603	1.14888	0.042	3.7	ug/L
	Cr	52	31720.583	1.6	15368.650	1.28355	0.063	4.9	ug/L
	Cr	53	2780.492	2.7	814.381	1.18935	0.059	5.0	ug/L
	Mn	55	22433.058	2.6	494.020	1.09223	0.041	3.8	ug/L
	Co	59	18656.048	1.3	188.671	1.05466	0.009	0.9	ug/L
	Ni	60	4352.514	2.1	136.669	1.07336	0.047	4.4	ug/L
	Ni	62	746.041	1.9	143.669	1.03228	0.049	4.8	ug/L
	Cu	63	9868.606	1.3	212.338	1.07513	0.032	2.9	ug/L
	Cu	65	4992.212	1.8	189.671	1.10387	0.036	3.3	ug/L
	Zn	66	17270.720	1.6	1515.486	6.17982	0.085	1.4	ug/L
	Zn	67	2802.833	1.8	342.344	5.55764	0.028	0.5	ug/L
	Zn	68	12470.117	2.1	1170.427	6.03763	0.270	4.5	ug/L
>	Ge	72	243178.633	2.2	244883.968				ug/L
	As	75	3317.027	2.7	124.002	1.01106	0.047	4.6	ug/L
	Se	77	448.012	1.9	216.736	0.98762	0.071	7.2	ug/L
	Se	78	16682.441	0.4	16119.238	0.88777	0.560	63.1	mg/L
	Se	82	2047.718	1.3	1872.010	0.59849	0.179	29.9	ug/L
	Kr	83	1745.867	0.7	1902.236				mg/L
	Y	89	400563.088	0.4	408188.389				ug/L
	Mo	95	5583.926	1.0	112.002	1.02136	0.009	0.9	ug/L
	Mo	97	3486.431	3.5	64.001	1.05073	0.050	4.8	ug/L
	Mo	98	8732.128	1.7	98.282	1.05070	0.023	2.2	ug/L
	Rh	103	329004.960	1.4	340052.119				ug/L
	Ag	107	14792.933	0.3	91.335	1.11446	0.013	1.2	ug/L
	Ag	109	13542.799	1.6	75.668	1.08631	0.006	0.5	ug/L
	Cd	111	3343.512	0.8	218.275	1.03761	0.011	1.1	ug/L
	Cd	114	7228.355	1.5	58.957	1.06902	0.032	3.0	ug/L
>	In	115	356142.804	1.5	358352.924				ug/L
	Sb	121	9953.710	2.8	107.668	1.06301	0.016	1.5	ug/L
	Sb	123	7794.773	2.3	79.665	1.08231	0.015	1.4	ug/L
	Ba	135	2474.393	5.1	46.667	0.99997	0.071	7.1	ug/L
	Ba	137	4312.159	2.0	47.001	1.02879	0.038	3.7	ug/L
>	Tb	159	403874.086	2.4	411268.087				ug/L
>	Ho	165	385669.081	1.9	390096.908				ug/L
	Tl	203	8482.734	1.0	60.001	1.07372	0.027	2.5	ug/L
	Tl	205	19737.883	1.7	78.001	1.13417	0.035	3.1	ug/L
	Pb	208	27772.877	1.7	320.672	1.10036	0.036	3.2	ug/L

Pb	206	7180.498	1.0	87.335	1.08081	0.029	2.7	ug/L
Pb	207	6085.949	1.5	77.001	1.09635	0.035	3.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	96.434				
	Al	27	104.991				
>	Sc	45		94.013			
	V	51	114.888				
	Cr	52	128.355				
	Cr	53	118.935				
	Mn	55	109.223				
	Co	59	105.466				
	Ni	60	107.336				
	Ni	62	103.228				
	Cu	63	107.513				
	Cu	65	110.387				
	Zn	66	123.596				
	Zn	67	111.153				
	Zn	68	120.753				
>	Ge	72		99.304			
	As	75	101.106				
	Se	77	98.762				
	Se	78	88.777				
	Se	82	59.849				
	Kr	83					
	Y	89					
	Mo	95	102.136				
	Mo	97	105.073				
	Mo	98	105.070				
	Rh	103					
	Ag	107	111.446				
	Ag	109	108.631				
	Cd	111	103.761				
	Cd	114	106.902				
>	In	115		99.383			
	Sb	121	106.301				
	Sb	123	108.231				
	Ba	135	99.997				
	Ba	137	102.879				
>	Tb	159		98.202			
>	Ho	165		98.865			
	Tl	203	107.372				
	Tl	205	113.417				
	Pb	208	110.036				
	Pb	206	108.081				
	Pb	207	109.635				

Elan 9000 Method 6020 - Summary Report

Sample ID: HLCCV2

Sample Date/Time: Monday, November 13, 2006 16:40:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\HLCCV2.031

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	210816.489	2.1	63.001	204.00363	6.095	3.0	ug/L
	Al	27	1248587.131	2.5	2334.350	198.75012	6.799	3.4	ug/L
>	Sc	45	348872.904	1.0	381869.082				ug/L
	V	51	3478695.276	1.2	4488.603	231.87066	4.582	2.0	ug/L
	Cr	52	3020556.059	1.1	15368.650	229.83224	1.911	0.8	ug/L
	Cr	53	343524.053	2.7	814.381	208.19671	7.503	3.6	ug/L
	Mn	55	4222346.373	1.0	494.020	216.79637	1.330	0.6	ug/L
	Co	59	3605802.124	1.3	188.671	212.48694	4.224	2.0	ug/L
	Ni	60	781410.335	0.5	136.669	205.13655	3.898	1.9	ug/L
	Ni	62	114560.622	2.8	143.669	201.90375	6.257	3.1	ug/L
	Cu	63	1719300.258	1.9	212.338	197.47517	6.356	3.2	ug/L
	Cu	65	859958.116	1.0	189.671	203.80910	1.141	0.6	ug/L
	Zn	66	503249.286	0.8	1515.486	202.96447	1.780	0.9	ug/L
	Zn	67	88140.364	2.2	342.344	204.54517	7.474	3.7	ug/L
	Zn	68	380201.660	2.7	1170.427	208.72263	3.170	1.5	ug/L
>	Ge	72	235645.036	1.4	244883.968				ug/L
	As	75	622230.100	1.3	124.002	203.14629	4.485	2.2	ug/L
	Se	77	46549.653	0.5	216.736	202.72945	3.917	1.9	ug/L
	Se	78	167899.631	1.6	16119.238	204.81609	5.691	2.8	mg/L
	Se	82	64022.744	1.0	1872.010	202.83950	3.741	1.8	ug/L
	Kr	83	1725.529	1.6	1902.236				mg/L
	Y	89	385797.756	1.1	408188.389				ug/L
	Mo	95	1047427.073	0.6	112.002	202.61717	5.356	2.6	ug/L
	Mo	97	657027.482	2.6	64.001	208.96691	6.923	3.3	ug/L
	Mo	98	1588022.216	1.1	98.282	200.28843	5.470	2.7	ug/L
	Rh	103	324988.040	1.3	340052.119				ug/L
	Ag	107	2922230.850	1.1	91.335	229.62804	7.682	3.3	ug/L
	Ag	109	2703009.564	1.1	75.668	226.03747	7.252	3.2	ug/L
	Cd	111	608606.795	1.4	218.275	209.24123	2.431	1.2	ug/L
	Cd	114	1319330.069	3.8	58.957	203.74065	3.730	1.8	ug/L
>	In	115	343694.123	2.5	358352.924				ug/L
	Sb	121	1807743.226	0.3	107.668	202.31290	4.447	2.2	ug/L
	Sb	123	1401571.442	1.3	79.665	203.80749	5.484	2.7	ug/L
	Ba	135	462862.180	1.8	46.667	196.78034	3.659	1.9	ug/L
	Ba	137	788761.619	0.5	47.001	196.49907	1.724	0.9	ug/L
>	Tb	159	390755.148	0.5	411268.087				ug/L
>	Ho	165	367403.283	2.1	390096.908				ug/L
	Tl	203	1505036.264	1.4	60.001	201.33498	1.536	0.8	ug/L
	Tl	205	3877360.825	0.2	78.001	234.77781	4.761	2.0	ug/L
	Pb	208	5166762.719	0.2	320.672	217.33320	4.418	2.0	ug/L

Pb	206	1247406.085	0.7	87.335	199.46236	3.455	1.7	ug/L
Pb	207	1070152.519	0.7	77.001	204.88550	3.496	1.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		91.359			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		96.227			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		95.909			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.012			
>	Ho	165		94.183			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 16:46:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.032

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50888.457	2.1	63.001	48.55040	2.759	5.7	ug/L
	Al	27	323115.510	2.0	2334.350	50.45422	1.226	2.4	ug/L
>	Sc	45	353979.205	3.8	381869.082				ug/L
	V	51	814624.911	1.3	4488.603	53.33319	1.414	2.7	ug/L
	Cr	52	708235.971	3.1	15368.650	52.32533	2.257	4.3	ug/L
	Cr	53	82246.141	2.1	814.381	48.79165	0.847	1.7	ug/L
	Mn	55	1022617.625	1.7	494.020	52.48707	0.120	0.2	ug/L
	Co	59	836914.260	1.3	188.671	49.31672	1.198	2.4	ug/L
	Ni	60	192816.493	0.7	136.669	50.59193	0.703	1.4	ug/L
	Ni	62	28929.419	0.8	143.669	50.81354	1.293	2.5	ug/L
	Cu	63	450832.248	1.2	212.338	51.75380	0.360	0.7	ug/L
	Cu	65	222327.635	0.5	189.671	52.67148	1.158	2.2	ug/L
	Zn	66	132264.621	2.0	1515.486	52.91130	1.056	2.0	ug/L
	Zn	67	22842.501	2.0	342.344	52.44114	1.723	3.3	ug/L
	Zn	68	97959.689	2.9	1170.427	53.32110	1.058	2.0	ug/L
>	Ge	72	235641.891	1.8	244883.968				ug/L
	As	75	154047.933	1.7	124.002	50.27691	1.737	3.5	ug/L
	Se	77	12272.163	0.6	216.736	52.77948	1.150	2.2	ug/L
	Se	78	54467.087	2.9	16119.238	52.37298	2.866	5.5	mg/L
	Se	82	17696.705	0.8	1872.010	51.82732	1.361	2.6	ug/L
	Kr	83	1739.532	2.1	1902.236				mg/L
	Y	89	386430.083	1.7	408188.389				ug/L
	Mo	95	259383.632	1.4	112.002	49.46097	0.731	1.5	ug/L
	Mo	97	164329.747	0.4	64.001	51.52762	0.604	1.2	ug/L
	Mo	98	406104.370	1.0	98.282	50.50078	0.894	1.8	ug/L
	Rh	103	325369.381	1.8	340052.119				ug/L
	Ag	107	663498.722	1.8	91.335	51.40686	1.427	2.8	ug/L
	Ag	109	623369.874	0.7	75.668	51.39544	0.726	1.4	ug/L
	Cd	111	155944.365	0.3	218.275	52.82669	0.454	0.9	ug/L
	Cd	114	342716.230	0.5	58.957	52.21186	0.526	1.0	ug/L
>	In	115	348415.185	1.0	358352.924				ug/L
	Sb	121	458506.986	0.8	107.668	50.59307	0.487	1.0	ug/L
	Sb	123	345897.168	1.4	79.665	49.59294	0.937	1.9	ug/L
	Ba	135	117898.839	1.8	46.667	49.37091	1.890	3.8	ug/L
	Ba	137	202364.866	1.9	47.001	49.66681	2.092	4.2	ug/L
>	Tb	159	396806.487	2.3	411268.087				ug/L
>	Ho	165	371772.815	0.7	390096.908				ug/L
	Tl	203	383878.343	0.7	60.001	50.74105	0.639	1.3	ug/L
	Tl	205	890025.432	1.4	78.001	53.24452	1.074	2.0	ug/L
	Pb	208	1249324.961	1.3	320.672	51.91299	0.977	1.9	ug/L

Pb	206	322159.133	0.7	87.335	50.88938	0.673	1.3	ug/L
Pb	207	268445.092	0.9	77.001	50.77079	0.639	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	97.101				
	Al	27	100.908				
>	Sc	45		92.696			
	V	51	106.666				
	Cr	52	104.651				
	Cr	53	97.583				
	Mn	55	104.974				
	Co	59	98.633				
	Ni	60	101.184				
	Ni	62	101.627				
	Cu	63	103.508				
	Cu	65	105.343				
	Zn	66	105.823				
	Zn	67	104.882				
	Zn	68	106.642				
>	Ge	72		96.226			
	As	75	100.554				
	Se	77	105.559				
	Se	78	104.746				
	Se	82	103.655				
	Kr	83					
	Y	89					
	Mo	95	98.922				
	Mo	97	103.055				
	Mo	98	101.002				
	Rh	103					
	Ag	107	102.814				
	Ag	109	102.791				
	Cd	111	105.653				
	Cd	114	104.424				
>	In	115		97.227			
	Sb	121	101.186				
	Sb	123	99.186				
	Ba	135	98.742				
	Ba	137	99.334				
>	Tb	159		96.484			
>	Ho	165		95.303			
	Tl	203	101.482				
	Tl	205	106.489				
	Pb	208	103.826				
	Pb	206	101.779				
	Pb	207	101.542				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 16:52:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.033

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	60.001	15.3	63.001	0.00031	0.009	3094.8	ug/L
	Al	27	2489.730	2.3	2334.350	0.04218	0.009	21.5	ug/L
>	Sc	45	362371.841	1.7	381869.082				ug/L
	V	51	4396.054	4.8	4488.603	0.00888	0.016	178.8	ug/L
	Cr	52	14799.289	3.7	15368.650	0.01605	0.044	276.9	ug/L
	Cr	53	782.711	1.0	814.381	0.00585	0.006	101.8	ug/L
	Mn	55	543.023	4.0	494.020	0.00287	0.001	46.2	ug/L
	Co	59	149.003	8.4	188.671	-0.00211	0.001	31.7	ug/L
	Ni	60	134.336	4.1	136.669	-0.00002	0.002	7809.8	ug/L
	Ni	62	136.669	10.3	143.669	-0.00835	0.020	242.6	ug/L
	Cu	63	246.006	9.9	212.338	0.00418	0.003	71.4	ug/L
	Cu	65	211.338	6.8	189.671	0.00573	0.003	58.3	ug/L
	Zn	66	1531.489	3.4	1515.486	0.01603	0.024	151.6	ug/L
	Zn	67	303.675	1.1	342.344	-0.07554	0.009	11.9	ug/L
	Zn	68	1201.432	3.4	1170.427	0.02668	0.015	56.1	ug/L
>	Ge	72	240979.270	1.7	244883.968				ug/L
	As	75	227.672	8.2	124.002	0.03368	0.005	14.5	ug/L
	Se	77	239.670	1.0	216.736	0.11305	0.019	17.1	ug/L
	Se	78	15727.514	0.4	16119.238	-0.17409	0.259	148.9	mg/L
	Se	82	1769.521	0.9	1872.010	-0.22993	0.143	62.2	ug/L
	Kr	83	1714.860	3.0	1902.236				mg/L
	Y	89	396042.457	0.3	408188.389				ug/L
	Mo	95	965.067	19.2	112.002	0.16021	0.029	18.3	ug/L
	Mo	97	605.695	22.1	64.001	0.16712	0.035	21.1	ug/L
	Mo	98	1497.838	21.1	98.282	0.17117	0.033	19.0	ug/L
	Rh	103	327774.525	2.9	340052.119				ug/L
	Ag	107	185.671	6.0	91.335	0.00730	0.000	6.0	ug/L
	Ag	109	169.003	8.8	75.668	0.00766	0.001	11.5	ug/L
	Cd	111	217.464	4.3	218.275	0.00088	0.005	608.9	ug/L
	Cd	114	59.726	18.3	58.957	0.00021	0.001	635.5	ug/L
>	In	115	353249.405	3.2	358352.924				ug/L
	Sb	121	1804.882	11.6	107.668	0.18461	0.018	9.6	ug/L
	Sb	123	1372.598	11.1	79.665	0.18271	0.016	8.6	ug/L
	Ba	135	44.667	12.3	46.667	-0.00024	0.002	990.4	ug/L
	Ba	137	53.667	17.6	47.001	0.00196	0.002	113.9	ug/L
>	Tb	159	398987.961	0.6	411268.087				ug/L
>	Ho	165	381847.292	0.3	390096.908				ug/L
	Tl	203	88.001	9.9	60.001	0.00376	0.001	28.8	ug/L
	Tl	205	173.337	19.0	78.001	0.00565	0.002	33.7	ug/L
	Pb	208	482.010	2.9	320.672	0.00680	0.000	7.3	ug/L

Pb	206	130.002	10.3	87.335	0.00685	0.002	30.0	ug/L
Pb	207	112.669	9.0	77.001	0.00687	0.002	26.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		94.894			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.405			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.576			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.014			
>	Ho	165		97.885			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: PBW-M3990131

Sample Date/Time: Monday, November 13, 2006 16:58:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\PBW-M3990131.034

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57.001	21.3	63.001	-0.00528	0.011	213.3	ug/L
	Al	27	301247.454	0.7	2334.350	43.47218	0.812	1.9	ug/L
>	Sc	45	382487.546	1.7	381869.082				ug/L
	V	51	5324.170	1.3	4488.603	0.05047	0.007	13.1	ug/L
	Cr	52	21449.117	0.7	15368.650	0.42244	0.021	4.9	ug/L
	Cr	53	1287.779	5.2	814.381	0.26192	0.047	17.9	ug/L
	Mn	55	1679.519	2.0	494.020	0.05879	0.003	4.7	ug/L
	Co	59	231.006	11.2	188.671	0.00240	0.001	44.6	ug/L
	Ni	60	423.348	2.6	136.669	0.07277	0.006	8.8	ug/L
	Ni	62	172.003	2.1	143.669	0.04886	0.010	20.8	ug/L
	Cu	63	1793.211	1.4	212.338	0.17524	0.008	4.4	ug/L
	Cu	65	991.736	1.7	189.671	0.18363	0.011	6.1	ug/L
	Zn	66	3149.627	1.8	1515.486	0.63931	0.048	7.5	ug/L
	Zn	67	579.359	3.9	342.344	0.53561	0.092	17.2	ug/L
	Zn	68	2470.391	2.8	1170.427	0.69290	0.075	10.8	ug/L
>	Ge	72	244413.872	3.4	244883.968				ug/L
	As	75	233.339	13.7	124.002	0.03432	0.008	22.1	ug/L
	Se	77	246.337	1.6	216.736	0.12725	0.034	26.5	ug/L
	Se	78	16878.549	1.0	16119.238	1.04403	0.906	86.7	mg/L
	Se	82	1792.926	1.5	1872.010	-0.23467	0.118	50.3	ug/L
	Kr	83	1821.217	3.0	1902.236				mg/L
	Y	89	408801.730	3.3	408188.389				ug/L
	Mo	95	1019.075	23.6	112.002	0.16439	0.039	23.9	ug/L
	Mo	97	663.369	37.4	64.001	0.17826	0.069	38.7	ug/L
	Mo	98	1474.617	34.4	98.282	0.16253	0.056	34.3	ug/L
	Rh	103	341025.016	0.3	340052.119				ug/L
	Ag	107	107.002	5.8	91.335	0.00104	0.001	49.1	ug/L
	Ag	109	88.668	6.5	75.668	0.00092	0.000	47.1	ug/L
	Cd	111	216.886	5.7	218.275	-0.00162	0.005	321.7	ug/L
	Cd	114	-114.357	306.5	58.957	-0.02572	0.051	199.3	ug/L
>	In	115	364616.729	2.3	358352.924				ug/L
	Sb	121	1104.085	14.1	107.668	0.10469	0.014	13.2	ug/L
	Sb	123	852.698	17.3	79.665	0.10547	0.018	16.6	ug/L
	Ba	135	195.004	5.1	46.667	0.05935	0.003	5.3	ug/L
	Ba	137	255.340	4.7	47.001	0.04890	0.003	6.5	ug/L
>	Tb	159	414190.948	1.4	411268.087				ug/L
>	Ho	165	386652.280	1.0	390096.908				ug/L
	Tl	203	53.334	15.7	60.001	-0.00078	0.001	140.6	ug/L
	Tl	205	92.001	6.1	78.001	0.00084	0.000	31.8	ug/L
	Pb	208	861.692	7.5	320.672	0.02174	0.003	12.3	ug/L

Pb	206	228.672	10.1	87.335	0.02159	0.004	16.2	ug/L
Pb	207	190.671	5.0	77.001	0.02081	0.002	9.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		100.162			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.808			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.748			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.711			
>	Ho	165		99.117			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: LCSW-M3990131

Sample Date/Time: Monday, November 13, 2006 17:03:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\LCSW-M3990131.035

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity		Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23592.587	0.9	63.001		19.05554	0.629	3.3	ug/L
	Al	27	236591.350	3.2	2334.350		31.24702	1.914	6.1	ug/L
>	Sc	45	417050.325	2.8	381869.082					ug/L
	V	51	431690.995	2.0	4488.603		23.84147	1.080	4.5	ug/L
	Cr	52	386051.608	2.4	15368.650		23.63767	1.295	5.5	ug/L
	Cr	53	46194.191	2.4	814.381		23.01526	0.105	0.5	ug/L
	Mn	55	537753.322	2.0	494.020	122%	24.32145	0.813	3.3	ug/L
	Co	59	456532.039	2.8	188.671		23.70313	0.750	3.2	ug/L
	Ni	60	99984.139	2.5	136.669		23.10949	0.932	4.0	ug/L
	Ni	62	14491.402	1.1	143.669		22.29761	0.597	2.7	ug/L
	Cu	63	241378.894	1.6	212.338	122%	24.41627	0.776	3.2	ug/L
	Cu	65	116440.453	1.4	189.671		24.29080	0.685	2.8	ug/L
	Zn	66	58401.548	1.6	1515.486		20.23067	0.313	1.5	ug/L
	Zn	67	10588.497	1.9	342.344		20.96394	0.079	0.4	ug/L
	Zn	68	43489.962	1.0	1170.427		20.48891	0.121	0.6	ug/L
>	Ge	72	267352.903	1.6	244883.968					ug/L
	As	75	67785.280	1.3	124.002		19.46886	0.257	1.3	ug/L
	Se	77	4694.522	0.5	216.736		17.18899	0.305	1.8	ug/L
	Se	78	31667.502	2.4	16119.238		16.67215	1.208	7.2	mg/L
	Se	82	7670.796	0.8	1872.010		16.17074	0.479	3.0	ug/L
	Kr	83	1830.886	4.7	1902.236					mg/L
	Y	89	434866.793	2.2	408188.389					ug/L
	Mo	95	137389.360	0.7	112.002		23.30100	0.104	0.4	ug/L
	Mo	97	83876.849	0.6	64.001		23.39181	0.087	0.4	ug/L
	Mo	98	215929.352	0.7	98.282		23.88559	0.057	0.2	ug/L
	Rh	103	363724.015	2.8	340052.119					ug/L
	Ag	107	327611.424	1.5	91.335		22.58143	0.484	2.1	ug/L
	Ag	109	304229.850	1.1	75.668		22.31716	0.402	1.8	ug/L
	Cd	111	70595.128	1.9	218.275		21.23890	0.547	2.6	ug/L
	Cd	114	154729.857	1.1	58.957		20.96952	0.076	0.4	ug/L
>	In	115	391538.860	0.8	358352.924					ug/L
	Sb	121	224650.660	1.3	107.668		22.05043	0.107	0.5	ug/L
	Sb	123	168345.645	2.0	79.665		21.47209	0.545	2.5	ug/L
	Ba	135	57408.330	1.4	46.667		22.07599	0.276	1.3	ug/L
	Ba	137	98465.301	0.6	47.001		22.19513	0.189	0.9	ug/L
>	Tb	159	431671.781	0.8	411268.087					ug/L
>	Ho	165	419739.852	1.5	390096.908					ug/L
	Tl	203	193819.369	2.3	60.001		22.69408	0.833	3.7	ug/L
	Tl	205	446696.825	1.4	78.001		23.66510	0.079	0.3	ug/L
	Pb	208	628971.760	0.1	320.672		23.14335	0.321	1.4	ug/L

Pb	206	163310.242	1.6	87.335	22.84062	0.152	0.7	ug/L
Pb	207	134240.329	1.0	77.001	22.48328	0.492	2.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		109.213			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		109.175			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.261			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		104.961			
>	Ho	165		107.599			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: LCSW-M3990131

Sample Date/Time: Monday, November 13, 2006 17:12:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\LCSW-M3990131.036

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23920.528	1.7	63.001	19.41674	0.679	3.5	ug/L
	Al	27	284547.935	2.5	2334.350	37.79692	0.276	0.7	ug/L
>	Sc	45	414997.160	2.8	381869.082				ug/L
	V	51	436321.994	3.7	4488.603	24.23120	1.614	6.7	ug/L
	Cr	52	388460.372	0.8	15368.650	23.90752	0.910	3.8	ug/L
	Cr	53	45704.817	2.1	814.381	22.90002	1.102	4.8	ug/L
	Mn	55	545878.915	2.4	494.020	25.45414	0.848	3.3	ug/L
	Co	59	441574.595	1.5	188.671	23.63431	0.126	0.5	ug/L
	Ni	60	100338.991	2.2	136.669	23.90773	0.738	3.1	ug/L
	Ni	62	14999.304	1.1	143.669	23.80696	0.287	1.2	ug/L
	Cu	63	240605.515	0.7	212.338	25.08933	0.417	1.7	ug/L
	Cu	65	116309.520	2.4	189.671	25.01700	0.845	3.4	ug/L
	Zn	66	57778.532	1.0	1515.486	20.64898	0.353	1.7	ug/L
	Zn	67	10759.383	1.6	342.344	22.00398	0.513	2.3	ug/L
	Zn	68	44076.078	2.5	1170.427	21.44104	0.745	3.5	ug/L
>	Ge	72	259297.099	1.0	244883.968				ug/L
	As	75	67959.003	0.8	124.002	20.12636	0.283	1.4	ug/L
	Se	77	4709.798	2.1	216.736	17.81262	0.579	3.3	ug/L
	Se	78	32268.576	1.5	16119.238	18.56796	0.906	4.9	mg/L
	Se	82	7767.685	1.1	1872.010	17.13915	0.339	2.0	ug/L
	Kr	83	1827.219	1.6	1902.236				mg/L
	Y	89	444567.809	1.8	408188.389				ug/L
	Mo	95	137486.931	0.5	112.002	23.21404	0.464	2.0	ug/L
	Mo	97	83388.662	0.9	64.001	23.15356	0.582	2.5	ug/L
	Mo	98	213903.984	1.4	98.282	23.55549	0.487	2.1	ug/L
	Rh	103	362813.136	2.4	340052.119				ug/L
	Ag	107	330178.404	0.6	91.335	22.65387	0.319	1.4	ug/L
	Ag	109	304391.077	0.8	75.668	22.22550	0.199	0.9	ug/L
	Cd	111	71250.225	0.1	218.275	21.33824	0.367	1.7	ug/L
	Cd	114	157319.483	1.5	58.957	21.22965	0.688	3.2	ug/L
>	In	115	393365.534	1.7	358352.924				ug/L
	Sb	121	224009.212	1.5	107.668	21.89266	0.651	3.0	ug/L
	Sb	123	173334.746	0.1	79.665	22.00768	0.346	1.6	ug/L
	Ba	135	57550.281	0.4	46.667	21.76894	0.490	2.3	ug/L
	Ba	137	98890.327	1.1	47.001	21.93032	0.753	3.4	ug/L
>	Tb	159	438993.591	2.4	411268.087				ug/L
>	Ho	165	416442.652	1.7	390096.908				ug/L
	Tl	203	193674.316	0.1	60.001	22.85239	0.349	1.5	ug/L
	Tl	205	448713.185	0.9	78.001	23.96281	0.333	1.4	ug/L
	Pb	208	633816.412	1.3	320.672	23.50550	0.342	1.5	ug/L

Pb	206	161512.940	1.3	87.335	22.77137	0.428	1.9	ug/L
Pb	207	135668.674	1.7	77.001	22.90357	0.625	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		108.675			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.886			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.770			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		106.741			
>	Ho	165		106.754			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950466 D.10

Sample Date/Time: Monday, November 13, 2006 17:18:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950466 D.10.037

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58.667	18.2	63.001	-0.00269	0.008	306.7	ug/L
	Al	27	53575.876	0.6	2334.350	7.65927	0.231	3.0	ug/L
>	Sc	45	372687.619	2.7	381869.082				ug/L
	V	51	4932.672	1.8	4488.603	0.03472	0.014	39.3	ug/L
	Cr	52	17854.290	2.2	15368.650	0.20542	0.061	29.9	ug/L
	Cr	53	1170.427	4.1	814.381	0.21336	0.010	4.7	ug/L
	Mn	55	118923.194	1.5	494.020	5.83671	0.124	2.1	ug/L
	Co	59	601.028	1.9	188.671	0.02329	0.001	2.3	ug/L
	Ni	60	2014.597	2.9	136.669	0.47303	0.013	2.8	ug/L
	Ni	62	354.344	6.0	143.669	0.35624	0.039	11.0	ug/L
	Cu	63	1662.182	2.3	212.338	0.15975	0.005	3.3	ug/L
	Cu	65	879.722	7.1	189.671	0.15690	0.015	9.6	ug/L
	Zn	66	1423.803	2.4	1515.486	-0.03714	0.013	35.8	ug/L
	Zn	67	357.011	2.0	342.344	0.03080	0.018	58.8	ug/L
	Zn	68	1340.455	1.2	1170.427	0.08823	0.008	9.6	ug/L
>	Ge	72	245532.517	0.7	244883.968				ug/L
	As	75	261.007	5.9	124.002	0.04281	0.004	10.0	ug/L
	Se	77	239.870	4.8	216.736	0.09481	0.052	54.7	ug/L
	Se	78	16096.776	1.7	16119.238	-0.08453	0.276	326.2	mg/L
	Se	82	1770.921	1.1	1872.010	-0.33153	0.076	23.0	ug/L
	Kr	83	1773.540	1.5	1902.236				mg/L
	Y	89	395113.708	0.6	408188.389				ug/L
	Mo	95	454.350	2.1	112.002	0.06219	0.001	2.3	ug/L
	Mo	97	264.007	9.3	64.001	0.05978	0.008	12.8	ug/L
	Mo	98	603.345	2.4	98.282	0.05995	0.002	2.6	ug/L
	Rh	103	328813.172	0.3	340052.119				ug/L
	Ag	107	92.668	14.1	91.335	-0.00001	0.001	9342.0	ug/L
	Ag	109	74.001	3.6	75.668	-0.00023	0.000	86.7	ug/L
	Cd	111	220.840	1.7	218.275	-0.00028	0.001	369.5	ug/L
	Cd	114	75.674	18.6	58.957	0.00231	0.002	90.2	ug/L
>	In	115	363965.005	0.5	358352.924				ug/L
	Sb	121	261.007	5.3	107.668	0.01603	0.002	9.8	ug/L
	Sb	123	212.390	5.3	79.665	0.01804	0.001	8.0	ug/L
	Ba	135	4078.038	1.3	46.667	1.67020	0.030	1.8	ug/L
	Ba	137	7019.360	2.4	47.001	1.69217	0.030	1.8	ug/L
>	Tb	159	401150.908	0.7	411268.087				ug/L
>	Ho	165	386267.118	3.1	390096.908				ug/L
	Tl	203	91.335	4.4	60.001	0.00406	0.000	7.8	ug/L
	Tl	205	155.336	6.6	78.001	0.00451	0.001	18.7	ug/L
	Pb	208	732.020	1.7	320.672	0.01659	0.000	2.8	ug/L

Pb	206	196.671	7.3	87.335	0.01682	0.003	18.2	ug/L
Pb	207	165.003	10.0	77.001	0.01615	0.003	17.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.596			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.265			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.566			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.540			
>	Ho	165		99.018			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950467 D.10

Sample Date/Time: Monday, November 13, 2006 17:24:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950467 D.10.038

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	67.334	5.2	63.001	0.00649	0.004	63.6	ug/L
	Al	27	14099.059	1.2	2334.350	1.80391	0.038	2.1	ug/L
>	Sc	45	365802.694	1.5	381869.082				ug/L
	V	51	5347.486	4.0	4488.603	0.06686	0.018	27.6	ug/L
	Cr	52	21778.649	2.3	15368.650	0.51505	0.059	11.4	ug/L
	Cr	53	1412.134	1.5	814.381	0.36608	0.012	3.3	ug/L
	Mn	55	867508.854	1.3	494.020	43.33349	0.932	2.2	ug/L
	Co	59	2426.711	4.4	188.671	0.12845	0.006	4.3	ug/L
	Ni	60	2981.898	6.5	136.669	0.72726	0.048	6.5	ug/L
	Ni	62	384.346	5.8	143.669	0.41596	0.036	8.6	ug/L
	Cu	63	3059.926	3.1	212.338	0.31850	0.009	2.9	ug/L
	Cu	65	1656.181	1.9	189.671	0.33885	0.010	2.9	ug/L
	Zn	66	28517.004	1.7	1515.486	10.63626	0.263	2.5	ug/L
	Zn	67	4491.589	2.8	342.344	9.41070	0.194	2.1	ug/L
	Zn	68	20916.426	0.2	1170.427	10.58979	0.098	0.9	ug/L
>	Ge	72	242128.433	0.9	244883.968				ug/L
	As	75	356.011	5.9	124.002	0.07421	0.008	10.3	ug/L
	Se	77	241.070	4.0	216.736	0.11402	0.042	36.9	ug/L
	Se	78	15998.818	1.2	16119.238	0.08159	0.385	472.4	mg/L
	Se	82	1837.869	0.6	1872.010	-0.04097	0.087	211.7	ug/L
	Kr	83	1765.871	1.8	1902.236				mg/L
	Y	89	395968.421	0.8	408188.389				ug/L
	Mo	95	1228.103	1.4	112.002	0.20986	0.005	2.4	ug/L
	Mo	97	762.042	1.3	64.001	0.21578	0.004	2.0	ug/L
	Mo	98	1857.359	3.2	98.282	0.21552	0.008	3.7	ug/L
	Rh	103	326227.577	0.6	340052.119				ug/L
	Ag	107	87.668	9.7	91.335	-0.00019	0.001	341.4	ug/L
	Ag	109	70.001	19.2	75.668	-0.00038	0.001	292.3	ug/L
	Cd	111	210.785	10.4	218.275	-0.00161	0.007	447.9	ug/L
	Cd	114	102.037	29.6	58.957	0.00655	0.004	67.0	ug/L
>	In	115	353953.991	0.8	358352.924				ug/L
	Sb	121	369.679	7.0	107.668	0.02860	0.003	8.8	ug/L
	Sb	123	262.307	9.8	79.665	0.02591	0.004	13.6	ug/L
	Ba	135	17151.152	3.7	46.667	7.09450	0.146	2.1	ug/L
	Ba	137	29333.497	0.4	47.001	7.12016	0.097	1.4	ug/L
>	Tb	159	400492.449	1.7	411268.087				ug/L
>	Ho	165	380744.650	1.7	390096.908				ug/L
	Tl	203	272.674	4.2	60.001	0.02765	0.002	6.6	ug/L
	Tl	205	572.692	6.8	78.001	0.02903	0.003	9.3	ug/L
	Pb	208	699.352	5.3	320.672	0.01567	0.001	6.6	ug/L

Pb	206	187.337	7.1	87.335	0.01573	0.002	10.4	ug/L
Pb	207	149.670	1.7	77.001	0.01376	0.000	0.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		95.793			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.875			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.772			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.380			
>	Ho	165		97.603			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950468 D.10

Sample Date/Time: Monday, November 13, 2006 17:30:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950468 D.10.039

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	64.001	18.9	63.001	0.00280	0.011	388.1	ug/L
	Al	27	10530.088	0.7	2334.350	1.24604	0.016	1.3	ug/L
>	Sc	45	369283.699	1.3	381869.082				ug/L
	V	51	5260.467	2.6	4488.603	0.05798	0.007	12.5	ug/L
	Cr	52	20540.827	1.5	15368.650	0.41013	0.015	3.7	ug/L
	Cr	53	1313.783	3.7	814.381	0.30174	0.018	6.1	ug/L
	Mn	55	872660.198	0.2	494.020	42.70553	0.957	2.2	ug/L
	Co	59	2699.131	1.5	188.671	0.14099	0.005	3.8	ug/L
	Ni	60	2993.235	4.9	136.669	0.71510	0.048	6.7	ug/L
	Ni	62	399.014	4.9	143.669	0.42786	0.047	11.0	ug/L
	Cu	63	4182.091	0.9	212.338	0.43444	0.006	1.4	ug/L
	Cu	65	2159.302	4.4	189.671	0.44511	0.031	7.1	ug/L
	Zn	66	9322.640	2.4	1515.486	3.00460	0.043	1.4	ug/L
	Zn	67	1690.855	1.6	342.344	2.98818	0.137	4.6	ug/L
	Zn	68	7184.170	3.5	1170.427	3.15176	0.141	4.5	ug/L
>	Ge	72	247194.253	2.2	244883.968				ug/L
	As	75	363.012	8.4	124.002	0.07395	0.008	10.6	ug/L
	Se	77	235.137	3.6	216.736	0.06799	0.014	20.7	ug/L
	Se	78	15873.342	0.7	16119.238	-0.50332	0.467	92.7	mg/L
	Se	82	1837.536	0.6	1872.010	-0.15977	0.155	97.0	ug/L
	Kr	83	1773.540	2.2	1902.236				mg/L
	Y	89	401276.386	1.2	408188.389				ug/L
	Mo	95	1203.432	2.8	112.002	0.19726	0.005	2.4	ug/L
	Mo	97	746.041	0.7	64.001	0.20275	0.002	0.8	ug/L
	Mo	98	1794.859	4.7	98.282	0.20026	0.013	6.5	ug/L
	Rh	103	320911.546	1.0	340052.119				ug/L
	Ag	107	80.335	19.8	91.335	-0.00096	0.001	124.5	ug/L
	Ag	109	70.001	22.2	75.668	-0.00057	0.001	226.8	ug/L
	Cd	111	225.351	6.4	218.275	0.00060	0.004	681.7	ug/L
	Cd	114	94.806	17.4	58.957	0.00501	0.003	51.8	ug/L
>	In	115	366833.338	1.5	358352.924				ug/L
	Sb	121	302.009	11.5	107.668	0.02014	0.004	20.5	ug/L
	Sb	123	243.973	3.8	79.665	0.02212	0.001	4.8	ug/L
	Ba	135	17035.904	2.1	46.667	7.25035	0.154	2.1	ug/L
	Ba	137	29468.642	0.7	47.001	7.35677	0.051	0.7	ug/L
>	Tb	159	389357.113	0.2	411268.087				ug/L
>	Ho	165	380647.583	1.8	390096.908				ug/L
	Tl	203	292.341	5.4	60.001	0.03022	0.003	9.0	ug/L
	Tl	205	616.029	4.9	78.001	0.03154	0.001	3.9	ug/L
	Pb	208	861.026	0.2	320.672	0.02226	0.001	2.8	ug/L

Pb	206	226.339	7.4	87.335	0.02180	0.003	13.7	ug/L
Pb	207	197.004	4.7	77.001	0.02251	0.001	5.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		96.704			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.943			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.366			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.672			
>	Ho	165		97.578			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950469 D.10

Sample Date/Time: Monday, November 13, 2006 17:35:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950469 D.10.040

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56.001	11.7	63.001	-0.00499	0.006	114.6	ug/L
	Al	27	13639.625	1.8	2334.350	1.69501	0.030	1.8	ug/L
>	Sc	45	372778.910	1.3	381869.082				ug/L
	V	51	4620.477	5.3	4488.603	0.01498	0.017	112.3	ug/L
	Cr	52	30857.350	2.1	15368.650	1.13474	0.068	6.0	ug/L
	Cr	53	2578.092	4.3	814.381	1.01311	0.051	5.0	ug/L
	Mn	55	889820.832	1.5	494.020	42.83842	0.484	1.1	ug/L
	Co	59	1072.413	2.2	188.671	0.04860	0.002	4.4	ug/L
	Ni	60	3970.319	2.4	136.669	0.94351	0.036	3.8	ug/L
	Ni	62	479.685	3.8	143.669	0.55012	0.033	6.0	ug/L
	Cu	63	1456.809	1.0	212.338	0.13352	0.005	3.4	ug/L
	Cu	65	847.718	1.9	189.671	0.14522	0.000	0.2	ug/L
	Zn	66	115154.995	0.3	1515.486	43.10957	0.928	2.2	ug/L
	Zn	67	17531.935	1.9	342.344	37.53049	0.628	1.7	ug/L
	Zn	68	83335.568	2.1	1170.427	42.42683	0.622	1.5	ug/L
>	Ge	72	251218.870	2.0	244883.968				ug/L
	As	75	3679.182	2.5	124.002	1.08805	0.035	3.2	ug/L
	Se	77	217.203	2.0	216.736	-0.02088	0.024	113.3	ug/L
	Se	78	15583.563	1.0	16119.238	-1.19526	0.457	38.2	mg/L
	Se	82	1759.052	1.0	1872.010	-0.49132	0.159	32.4	ug/L
	Kr	83	1835.887	2.7	1902.236				mg/L
	Y	89	402568.641	1.5	408188.389				ug/L
	Mo	95	1296.447	1.5	112.002	0.22062	0.001	0.4	ug/L
	Mo	97	789.045	6.3	64.001	0.22227	0.019	8.7	ug/L
	Mo	98	2014.283	1.8	98.282	0.23264	0.001	0.2	ug/L
	Rh	103	330161.066	2.3	340052.119				ug/L
	Ag	107	74.668	19.0	91.335	-0.00122	0.001	97.3	ug/L
	Ag	109	47.334	5.3	75.668	-0.00226	0.000	9.7	ug/L
	Cd	111	248.291	4.8	218.275	0.01023	0.004	37.7	ug/L
	Cd	114	127.703	28.9	58.957	0.01021	0.005	51.5	ug/L
>	In	115	356960.297	1.9	358352.924				ug/L
	Sb	121	151.003	11.6	107.668	0.00471	0.002	39.6	ug/L
	Sb	123	113.938	7.0	79.665	0.00483	0.001	17.7	ug/L
	Ba	135	37254.142	1.8	46.667	15.31603	0.325	2.1	ug/L
	Ba	137	62365.136	1.1	47.001	15.03077	0.221	1.5	ug/L
>	Tb	159	403632.016	0.4	411268.087				ug/L
>	Ho	165	389079.471	1.8	390096.908				ug/L
	Tl	203	154.003	19.8	60.001	0.01185	0.004	29.9	ug/L
	Tl	205	318.676	2.6	78.001	0.01377	0.000	2.6	ug/L
	Pb	208	1056.370	2.9	320.672	0.02927	0.002	6.6	ug/L

Pb	206	276.674	8.1	87.335	0.02862	0.003	11.4	ug/L
Pb	207	232.339	5.3	77.001	0.02815	0.003	10.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.620			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.587			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.611			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.143			
>	Ho	165		99.739			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950470 D.10

Sample Date/Time: Monday, November 13, 2006 17:41:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950470 D.10.041

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.001	6.3	63.001	-0.00650	0.003	46.3	ug/L
	Al	27	32214.805	0.7	2334.350	4.40749	0.034	0.8	ug/L
>	Sc	45	377397.271	0.4	381869.082				ug/L
	V	51	5081.967	4.5	4488.603	0.03988	0.015	38.2	ug/L
	Cr	52	22225.489	0.8	15368.650	0.49730	0.018	3.5	ug/L
	Cr	53	1499.817	3.3	814.381	0.39008	0.026	6.6	ug/L
	Mn	55	175515.711	2.7	494.020	8.48899	0.388	4.6	ug/L
	Co	59	1858.226	3.5	188.671	0.09268	0.003	3.7	ug/L
	Ni	60	6815.188	1.6	136.669	1.65537	0.062	3.7	ug/L
	Ni	62	1007.738	7.3	143.669	1.43661	0.153	10.7	ug/L
	Cu	63	2910.538	4.1	212.338	0.29205	0.010	3.4	ug/L
	Cu	65	1501.150	1.9	189.671	0.29274	0.009	3.0	ug/L
	Zn	66	119940.614	1.4	1515.486	45.22842	1.571	3.5	ug/L
	Zn	67	17875.669	2.0	342.344	38.54073	1.157	3.0	ug/L
	Zn	68	83935.859	1.8	1170.427	43.02952	1.337	3.1	ug/L
>	Ge	72	249608.312	2.1	244883.968				ug/L
	As	75	288.675	8.9	124.002	0.05016	0.010	19.4	ug/L
	Se	77	216.269	7.1	216.736	-0.01946	0.055	281.9	ug/L
	Se	78	15906.889	1.3	16119.238	-0.65426	0.677	103.5	mg/L
	Se	82	1782.591	2.7	1872.010	-0.38612	0.109	28.3	ug/L
	Kr	83	1713.860	0.7	1902.236				mg/L
	Y	89	403622.495	2.0	408188.389				ug/L
	Mo	95	251.673	7.2	112.002	0.02551	0.004	14.2	ug/L
	Mo	97	141.669	7.0	64.001	0.02329	0.003	11.4	ug/L
	Mo	98	306.989	3.1	98.282	0.02492	0.001	5.6	ug/L
	Rh	103	326617.777	1.1	340052.119				ug/L
	Ag	107	81.335	16.7	91.335	-0.00080	0.001	129.1	ug/L
	Ag	109	60.334	16.8	75.668	-0.00127	0.001	64.8	ug/L
	Cd	111	279.987	8.4	218.275	0.01958	0.008	42.4	ug/L
	Cd	114	198.869	5.8	58.957	0.02046	0.001	7.2	ug/L
>	In	115	361533.714	0.7	358352.924				ug/L
	Sb	121	170.003	15.6	107.668	0.00653	0.003	43.8	ug/L
	Sb	123	127.938	5.7	79.665	0.00657	0.001	15.8	ug/L
	Ba	135	10094.879	1.4	46.667	4.15428	0.070	1.7	ug/L
	Ba	137	16704.229	1.9	47.001	4.03542	0.104	2.6	ug/L
>	Tb	159	401910.365	0.8	411268.087				ug/L
>	Ho	165	384687.584	1.6	390096.908				ug/L
	Tl	203	128.002	11.3	60.001	0.00878	0.002	18.8	ug/L
	Tl	205	241.339	2.7	78.001	0.00950	0.000	1.7	ug/L
	Pb	208	1221.713	1.1	320.672	0.03638	0.001	3.4	ug/L

Pb	206	313.342	3.4	87.335	0.03472	0.002	6.9	ug/L
Pb	207	282.008	7.3	77.001	0.03765	0.003	8.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.829			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.929			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.888			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.725			
>	Ho	165		98.613			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950471 D.10

Sample Date/Time: Monday, November 13, 2006 17:47:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950471 D.10.042

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	62.001	10.6	63.001	-0.00032	0.006	1866.7	ug/L
	Al	27	173490.771	2.5	2334.350	25.17746	0.442	1.8	ug/L
>	Sc	45	378122.950	1.5	381869.082				ug/L
	V	51	5434.511	8.7	4488.603	0.06126	0.034	55.4	ug/L
	Cr	52	27727.336	1.5	15368.650	0.88291	0.060	6.8	ug/L
	Cr	53	2187.976	1.7	814.381	0.77436	0.034	4.4	ug/L
	Mn	55	105362.565	4.7	494.020	5.05626	0.248	4.9	ug/L
	Co	59	2216.650	2.3	188.671	0.11196	0.003	2.7	ug/L
	Ni	60	7819.080	3.0	136.669	1.89335	0.073	3.9	ug/L
	Ni	62	1296.114	2.6	143.669	1.90382	0.074	3.9	ug/L
	Cu	63	1996.259	2.4	212.338	0.19184	0.007	3.7	ug/L
	Cu	65	1054.411	0.9	189.671	0.19145	0.003	1.7	ug/L
	Zn	66	149800.620	0.7	1515.486	56.30248	0.106	0.2	ug/L
	Zn	67	22785.690	3.1	342.344	49.06099	1.766	3.6	ug/L
	Zn	68	105803.230	1.4	1170.427	54.09111	0.927	1.7	ug/L
>	Ge	72	250948.779	0.8	244883.968				ug/L
	As	75	365.012	8.2	124.002	0.07291	0.008	11.4	ug/L
	Se	77	229.803	2.7	216.736	0.03158	0.022	68.4	ug/L
	Se	78	15989.711	0.9	16119.238	-0.66570	0.306	46.0	mg/L
	Se	82	1768.054	0.7	1872.010	-0.45981	0.062	13.5	ug/L
	Kr	83	1746.867	1.2	1902.236				mg/L
	Y	89	410884.111	1.8	408188.389				ug/L
	Mo	95	217.338	3.7	112.002	0.01850	0.001	4.8	ug/L
	Mo	97	130.002	2.3	64.001	0.01911	0.001	2.6	ug/L
	Mo	98	259.694	7.5	98.282	0.01874	0.003	13.8	ug/L
	Rh	103	331667.207	1.9	340052.119				ug/L
	Ag	107	65.668	26.2	91.335	-0.00204	0.001	66.9	ug/L
	Ag	109	50.667	3.0	75.668	-0.00211	0.000	7.4	ug/L
	Cd	111	256.185	5.9	218.275	0.01037	0.005	49.3	ug/L
	Cd	114	201.347	3.3	58.957	0.02034	0.001	5.6	ug/L
>	In	115	367754.849	1.9	358352.924				ug/L
	Sb	121	140.003	10.0	107.668	0.00309	0.001	47.1	ug/L
	Sb	123	122.181	10.5	79.665	0.00547	0.001	26.4	ug/L
	Ba	135	3805.241	3.2	46.667	1.57082	0.050	3.2	ug/L
	Ba	137	6258.412	1.1	47.001	1.52083	0.004	0.3	ug/L
>	Tb	159	397694.726	1.1	411268.087				ug/L
>	Ho	165	389600.665	0.6	390096.908				ug/L
	Tl	203	75.334	10.7	60.001	0.00194	0.001	49.6	ug/L
	Tl	205	150.670	4.4	78.001	0.00416	0.000	10.0	ug/L
	Pb	208	2456.164	2.9	320.672	0.08472	0.003	4.0	ug/L

Pb	206	656.032	2.8	87.335	0.08577	0.003	3.7	ug/L
Pb	207	532.022	3.1	77.001	0.08216	0.003	3.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.019			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.477			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.624			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.700			
>	Ho	165		99.873			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950472 D.10

Sample Date/Time: Monday, November 13, 2006 17:53:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950472 D.10.043

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56.667	14.2	63.001	-0.00490	0.007	139.9	ug/L
	Al	27	59586.887	1.1	2334.350	8.46347	0.147	1.7	ug/L
>	Sc	45	376533.222	2.3	381869.082				ug/L
	V	51	5515.794	1.8	4488.603	0.06749	0.009	13.9	ug/L
	Cr	52	17912.414	1.8	15368.650	0.19578	0.034	17.4	ug/L
	Cr	53	961.398	1.0	814.381	0.08939	0.018	20.1	ug/L
	Mn	55	141827.568	1.2	494.020	7.01962	0.106	1.5	ug/L
	Co	59	1672.518	1.5	188.671	0.08463	0.002	2.3	ug/L
	Ni	60	4853.129	3.0	136.669	1.19774	0.037	3.1	ug/L
	Ni	62	702.703	3.2	143.669	0.95512	0.033	3.4	ug/L
	Cu	63	1862.227	2.4	212.338	0.18336	0.004	2.2	ug/L
	Cu	65	1060.745	1.9	189.671	0.19991	0.003	1.6	ug/L
	Zn	66	102753.645	0.4	1515.486	39.60596	0.119	0.3	ug/L
	Zn	67	15700.601	0.7	342.344	34.59420	0.303	0.9	ug/L
	Zn	68	73961.508	0.4	1170.427	38.77288	0.378	1.0	ug/L
>	Ge	72	243637.046	0.6	244883.968				ug/L
	As	75	517.688	3.1	124.002	0.12451	0.005	3.7	ug/L
	Se	77	250.804	3.1	216.736	0.14888	0.037	24.6	ug/L
	Se	78	16074.350	0.7	16119.238	0.04939	0.262	531.4	mg/L
	Se	82	1813.464	1.3	1872.010	-0.15465	0.047	30.5	ug/L
	Kr	83	1829.886	2.4	1902.236				mg/L
	Y	89	407146.463	1.9	408188.389				ug/L
	Mo	95	464.018	3.5	112.002	0.06413	0.004	5.7	ug/L
	Mo	97	270.340	6.7	64.001	0.06183	0.006	9.9	ug/L
	Mo	98	617.380	2.9	98.282	0.06174	0.002	2.9	ug/L
	Rh	103	339803.269	2.0	340052.119				ug/L
	Ag	107	67.668	6.0	91.335	-0.00185	0.000	15.3	ug/L
	Ag	109	48.334	11.8	75.668	-0.00225	0.000	19.0	ug/L
	Cd	111	225.015	3.7	218.275	0.00122	0.003	273.5	ug/L
	Cd	114	144.150	10.2	58.957	0.01233	0.002	17.6	ug/L
>	In	115	363344.574	0.8	358352.924				ug/L
	Sb	121	160.003	5.7	107.668	0.00538	0.001	17.1	ug/L
	Sb	123	128.387	6.3	79.665	0.00655	0.001	19.3	ug/L
	Ba	135	3473.092	0.2	46.667	1.40299	0.028	2.0	ug/L
	Ba	137	5807.415	2.6	47.001	1.38243	0.063	4.5	ug/L
>	Tb	159	405921.885	1.9	411268.087				ug/L
>	Ho	165	383304.531	1.1	390096.908				ug/L
	Tl	203	106.668	16.0	60.001	0.00611	0.002	34.6	ug/L
	Tl	205	212.338	5.7	78.001	0.00787	0.001	7.3	ug/L
	Pb	208	1827.096	1.4	320.672	0.06096	0.002	2.9	ug/L

Pb	206	475.685	4.0	87.335	0.05975	0.003	5.0	ug/L
Pb	207	397.013	5.0	77.001	0.05896	0.003	5.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.603			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.491			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.393			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.700			
>	Ho	165		98.259			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 17:59:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.044

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	53000.552	1.2	63.001	48.30052	1.559	3.2	ug/L
	Al	27	340304.526	0.5	2334.350	50.81143	1.845	3.6	ug/L
>	Sc	45	370303.590	3.3	381869.082				ug/L
	V	51	818699.229	0.5	4488.603	51.22761	1.577	3.1	ug/L
	Cr	52	721451.414	0.6	15368.650	50.92929	2.011	3.9	ug/L
	Cr	53	87513.852	2.5	814.381	49.62371	0.484	1.0	ug/L
	Mn	55	1028136.525	0.9	494.020	51.39882	1.478	2.9	ug/L
	Co	59	865161.308	1.5	188.671	49.65019	1.790	3.6	ug/L
	Ni	60	195597.577	0.8	136.669	49.99710	2.125	4.3	ug/L
	Ni	62	29959.396	1.4	143.669	51.24159	1.501	2.9	ug/L
	Cu	63	464943.296	2.9	212.338	51.97664	1.767	3.4	ug/L
	Cu	65	225371.987	1.7	189.671	51.98319	1.161	2.2	ug/L
	Zn	66	137789.418	2.8	1515.486	53.66648	0.392	0.7	ug/L
	Zn	67	23407.400	1.5	342.344	52.33349	2.057	3.9	ug/L
	Zn	68	101596.237	0.3	1170.427	53.88615	2.104	3.9	ug/L
>	Ge	72	242080.956	3.5	244883.968				ug/L
	As	75	154064.454	1.3	124.002	48.94916	1.101	2.2	ug/L
	Se	77	12571.008	0.6	216.736	52.65209	1.821	3.5	ug/L
	Se	78	55304.611	1.8	16119.238	51.55870	2.989	5.8	mg/L
	Se	82	18236.868	1.1	1872.010	52.02556	1.520	2.9	ug/L
	Kr	83	1736.865	2.3	1902.236				mg/L
	Y	89	402663.821	1.9	408188.389				ug/L
	Mo	95	263827.031	1.5	112.002	50.02172	1.283	2.6	ug/L
	Mo	97	166689.274	0.3	64.001	51.96543	0.906	1.7	ug/L
	Mo	98	415359.342	1.5	98.282	51.34310	0.202	0.4	ug/L
	Rh	103	330093.789	0.6	340052.119				ug/L
	Ag	107	672863.021	1.3	91.335	51.82647	1.177	2.3	ug/L
	Ag	109	629014.362	2.1	75.668	51.54866	0.380	0.7	ug/L
	Cd	111	154630.126	2.1	218.275	52.07302	1.063	2.0	ug/L
	Cd	114	350777.903	1.8	58.957	53.12290	0.541	1.0	ug/L
>	In	115	350472.217	1.4	358352.924				ug/L
	Sb	121	469026.664	1.7	107.668	51.45249	0.950	1.8	ug/L
	Sb	123	350249.710	1.4	79.665	49.91795	0.058	0.1	ug/L
	Ba	135	119600.087	1.3	46.667	49.79849	0.470	0.9	ug/L
	Ba	137	201601.973	1.8	47.001	49.19380	0.794	1.6	ug/L
>	Tb	159	398867.737	1.2	411268.087				ug/L
>	Ho	165	378307.100	2.1	390096.908				ug/L
	Tl	203	393160.296	0.2	60.001	51.08144	0.992	1.9	ug/L
	Tl	205	914903.906	1.0	78.001	53.79120	0.612	1.1	ug/L
	Pb	208	1272161.777	0.8	320.672	51.95423	0.666	1.3	ug/L

Pb	206	328086.023	1.0	87.335	50.93640	0.676	1.3	ug/L
Pb	207	270572.773	0.4	77.001	50.29959	0.897	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	96.601				
	Al	27	101.623				
>	Sc	45		96.971			
	V	51	102.455				
	Cr	52	101.859				
	Cr	53	99.247				
	Mn	55	102.798				
	Co	59	99.300				
	Ni	60	99.994				
	Ni	62	102.483				
	Cu	63	103.953				
	Cu	65	103.966				
	Zn	66	107.333				
	Zn	67	104.667				
	Zn	68	107.772				
>	Ge	72		98.855			
	As	75	97.898				
	Se	77	105.304				
	Se	78	103.117				
	Se	82	104.051				
	Kr	83					
	Y	89					
	Mo	95	100.043				
	Mo	97	103.931				
	Mo	98	102.686				
	Rh	103					
	Ag	107	103.653				
	Ag	109	103.097				
	Cd	111	104.146				
	Cd	114	106.246				
>	In	115		97.801			
	Sb	121	102.905				
	Sb	123	99.836				
	Ba	135	99.597				
	Ba	137	98.388				
>	Tb	159		96.985			
>	Ho	165		96.978			
	Tl	203	102.163				
	Tl	205	107.582				
	Pb	208	103.908				
	Pb	206	101.873				
	Pb	207	100.599				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 18:05:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.045

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57.334	17.1	63.001	-0.00292	0.009	292.6	ug/L
	Al	27	2505.402	2.8	2334.350	0.04048	0.014	35.3	ug/L
>	Sc	45	366353.047	1.5	381869.082				ug/L
	V	51	4837.695	3.1	4488.603	0.03372	0.005	14.5	ug/L
	Cr	52	16033.577	2.6	15368.650	0.09374	0.013	14.3	ug/L
	Cr	53	732.039	2.8	814.381	-0.02853	0.005	19.0	ug/L
	Mn	55	491.353	5.6	494.020	0.00005	0.001	1876.2	ug/L
	Co	59	135.336	4.5	188.671	-0.00296	0.000	11.9	ug/L
	Ni	60	143.336	21.4	136.669	0.00201	0.008	401.5	ug/L
	Ni	62	132.002	10.7	143.669	-0.01767	0.029	162.0	ug/L
	Cu	63	230.339	2.1	212.338	0.00219	0.001	31.9	ug/L
	Cu	65	200.004	5.6	189.671	0.00272	0.003	96.3	ug/L
	Zn	66	1557.161	3.1	1515.486	0.02089	0.006	29.3	ug/L
	Zn	67	333.343	1.8	342.344	-0.01420	0.013	94.9	ug/L
	Zn	68	1222.102	3.2	1170.427	0.03274	0.028	85.5	ug/L
>	Ge	72	242979.831	2.1	244883.968				ug/L
	As	75	173.670	1.8	124.002	0.01605	0.002	9.7	ug/L
	Se	77	223.803	3.0	216.736	0.03711	0.019	51.3	ug/L
	Se	78	15806.256	1.2	16119.238	-0.23554	0.657	278.8	mg/L
	Se	82	1770.055	2.0	1872.010	-0.27619	0.022	8.0	ug/L
	Kr	83	1761.204	2.0	1902.236				mg/L
	Y	89	400994.369	3.5	408188.389				ug/L
	Mo	95	779.378	19.0	112.002	0.12517	0.027	21.6	ug/L
	Mo	97	498.020	20.2	64.001	0.13382	0.030	22.7	ug/L
	Mo	98	1133.444	21.7	98.282	0.12648	0.029	23.3	ug/L
	Rh	103	334663.192	0.7	340052.119				ug/L
	Ag	107	151.670	4.9	91.335	0.00466	0.001	11.9	ug/L
	Ag	109	140.336	7.3	75.668	0.00530	0.001	15.1	ug/L
	Cd	111	209.017	6.0	218.275	-0.00235	0.004	180.0	ug/L
	Cd	114	57.701	13.3	58.957	-0.00010	0.001	1173.3	ug/L
>	In	115	354763.272	0.4	358352.924				ug/L
	Sb	121	1263.777	15.3	107.668	0.12538	0.020	16.3	ug/L
	Sb	123	1006.081	15.0	79.665	0.13053	0.021	15.9	ug/L
	Ba	135	43.001	19.0	46.667	-0.00118	0.003	272.1	ug/L
	Ba	137	49.001	20.1	47.001	0.00067	0.002	335.6	ug/L
>	Tb	159	403863.208	1.1	411268.087				ug/L
>	Ho	165	379820.399	2.0	390096.908				ug/L
	Tl	203	85.668	11.0	60.001	0.00354	0.001	39.7	ug/L
	Tl	205	140.003	16.1	78.001	0.00375	0.001	33.8	ug/L
	Pb	208	438.675	3.7	320.672	0.00515	0.001	11.9	ug/L

Pb	206	103.668	6.4	87.335	0.00287	0.001	25.4	ug/L
Pb	207	110.669	10.9	77.001	0.00662	0.002	34.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		95.937			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.222			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.998			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.200			
>	Ho	165		97.366			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950473 D.10

Sample Date/Time: Monday, November 13, 2006 18:11:49
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950473 D.10.046

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.001		63.001	-0.00117	0.001	76.1	ug/L
	Al	27	9943.696	1.2	2334.350	1.12440	0.039	3.5	ug/L
>	Sc	45	377766.144	1.7	381869.082				ug/L
	V	51	4978.140	2.9	4488.603	0.03329	0.014	41.3	ug/L
	Cr	52	16865.224	2.4	15368.650	0.11774	0.044	37.6	ug/L
	Cr	53	907.059	4.8	814.381	0.05681	0.020	35.9	ug/L
	Mn	55	528239.445	1.7	494.020	25.66698	1.245	4.9	ug/L
	Co	59	811.714	1.5	188.671	0.03460	0.002	6.1	ug/L
	Ni	60	1329.120	8.1	136.669	0.29634	0.037	12.4	ug/L
	Ni	62	192.671	6.7	143.669	0.07749	0.011	14.1	ug/L
	Cu	63	1115.753	0.5	212.338	0.09785	0.003	3.5	ug/L
	Cu	65	623.030	3.7	189.671	0.09664	0.009	8.9	ug/L
	Zn	66	27911.958	2.0	1515.486	10.10191	0.497	4.9	ug/L
	Zn	67	4400.539	1.0	342.344	8.93759	0.416	4.7	ug/L
	Zn	68	20333.650	1.3	1170.427	9.98485	0.484	4.8	ug/L
>	Ge	72	249046.712	3.3	244883.968				ug/L
	As	75	273.341	1.3	124.002	0.04555	0.003	7.6	ug/L
	Se	77	245.804	1.7	216.736	0.10613	0.049	46.6	ug/L
	Se	78	16266.733	1.4	16119.238	-0.13984	0.959	685.6	mg/L
	Se	82	1814.398	1.0	1872.010	-0.27197	0.182	66.9	ug/L
	Kr	83	1785.876	2.6	1902.236				mg/L
	Y	89	401410.698	1.5	408188.389				ug/L
	Mo	95	892.391	12.3	112.002	0.14024	0.019	13.9	ug/L
	Mo	97	550.024	10.8	64.001	0.14367	0.017	12.1	ug/L
	Mo	98	1398.595	9.8	98.282	0.15266	0.016	10.4	ug/L
	Rh	103	332172.790	0.8	340052.119				ug/L
	Ag	107	84.335	17.6	91.335	-0.00070	0.001	157.8	ug/L
	Ag	109	69.668	8.2	75.668	-0.00063	0.000	68.7	ug/L
	Cd	111	235.304	2.8	218.275	0.00353	0.002	60.7	ug/L
	Cd	114	71.436	33.2	58.957	0.00157	0.003	218.3	ug/L
>	In	115	368282.882	0.3	358352.924				ug/L
	Sb	121	582.026	8.9	107.668	0.04921	0.005	10.7	ug/L
	Sb	123	458.984	4.8	79.665	0.05115	0.003	5.5	ug/L
	Ba	135	5253.708	1.5	46.667	2.14800	0.020	0.9	ug/L
	Ba	137	8997.278	1.3	47.001	2.16330	0.016	0.7	ug/L
>	Tb	159	402813.914	1.2	411268.087				ug/L
>	Ho	165	390223.681	0.4	390096.908				ug/L
	Tl	203	112.335	5.7	60.001	0.00659	0.001	11.4	ug/L
	Tl	205	222.005	15.9	78.001	0.00821	0.002	25.2	ug/L
	Pb	208	596.681	2.7	320.672	0.01093	0.001	6.3	ug/L

Pb	206	164.003	10.4	87.335	0.01154	0.003	22.7	ug/L
Pb	207	130.336	9.7	77.001	0.00961	0.002	24.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.926			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.700			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.771			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.944			
>	Ho	165		100.032			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950474 D.10

Sample Date/Time: Monday, November 13, 2006 18:17:47
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950474 D.10.047

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.667	22.8	63.001	-0.00406	0.012	306.9	ug/L
	Al	27	29715.276	5.2	2334.350	3.88886	0.267	6.9	ug/L
>	Sc	45	391006.486	1.6	381869.082				ug/L
	V	51	5081.904	0.7	4488.603	0.02900	0.007	23.7	ug/L
	Cr	52	18971.762	1.1	15368.650	0.22075	0.009	4.3	ug/L
	Cr	53	1148.424	2.2	814.381	0.17043	0.010	5.9	ug/L
	Mn	55	47353.970	0.4	494.020	2.23680	0.017	0.7	ug/L
	Co	59	592.360	5.4	188.671	0.02175	0.001	6.7	ug/L
	Ni	60	2417.708	2.3	136.669	0.55578	0.018	3.3	ug/L
	Ni	62	443.683	4.6	143.669	0.48428	0.040	8.3	ug/L
	Cu	63	1504.151	1.4	212.338	0.13718	0.004	2.6	ug/L
	Cu	65	764.376	2.3	189.671	0.12521	0.002	1.9	ug/L
	Zn	66	103431.658	0.9	1515.486	38.31502	0.702	1.8	ug/L
	Zn	67	15570.690	1.2	342.344	32.94949	0.380	1.2	ug/L
	Zn	68	74731.139	2.5	1170.427	37.64379	0.683	1.8	ug/L
>	Ge	72	253408.660	1.0	244883.968				ug/L
	As	75	258.007	1.3	124.002	0.03937	0.000	0.8	ug/L
	Se	77	227.870	4.7	216.736	0.01486	0.051	340.8	ug/L
	Se	78	15940.485	1.2	16119.238	-0.92466	0.103	11.2	mg/L
	Se	82	1764.053	2.1	1872.010	-0.52406	0.144	27.5	ug/L
	Kr	83	1751.202	3.9	1902.236				mg/L
	Y	89	411978.442	0.9	408188.389				ug/L
	Mo	95	434.349	7.8	112.002	0.05857	0.006	10.1	ug/L
	Mo	97	272.007	2.9	64.001	0.06219	0.002	3.6	ug/L
	Mo	98	605.082	4.9	98.282	0.06017	0.003	4.9	ug/L
	Rh	103	339899.214	1.4	340052.119				ug/L
	Ag	107	82.001	15.0	91.335	-0.00079	0.001	120.6	ug/L
	Ag	109	58.001	3.4	75.668	-0.00149	0.000	11.7	ug/L
	Cd	111	253.153	2.2	218.275	0.01026	0.002	22.1	ug/L
	Cd	114	118.102	4.9	58.957	0.00850	0.001	9.9	ug/L
>	In	115	363791.190	0.8	358352.924				ug/L
	Sb	121	332.677	7.0	107.668	0.02362	0.003	11.0	ug/L
	Sb	123	236.221	5.6	79.665	0.02134	0.002	8.9	ug/L
	Ba	135	5722.022	2.1	46.667	2.28818	0.067	2.9	ug/L
	Ba	137	9770.824	2.0	47.001	2.29692	0.046	2.0	ug/L
>	Tb	159	412128.272	0.9	411268.087				ug/L
>	Ho	165	391456.462	0.8	390096.908				ug/L
	Tl	203	102.668	6.9	60.001	0.00534	0.001	18.4	ug/L
	Tl	205	179.004	3.9	78.001	0.00573	0.000	8.3	ug/L
	Pb	208	1143.375	1.2	320.672	0.03243	0.000	1.1	ug/L

Pb	206	293.675	1.2	87.335	0.03092	0.001	1.8	ug/L
Pb	207	251.006	6.3	77.001	0.03120	0.003	8.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		102.393			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.481			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.518			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.209			
>	Ho	165		100.349			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950475 D.10

Sample Date/Time: Monday, November 13, 2006 18:23:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950475 D.10.048

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	52.667	10.5	63.001	-0.00862	0.005	56.4	ug/L
	Al	27	78291.825	3.6	2334.350	11.19139	0.435	3.9	ug/L
>	Sc	45	377618.573	0.2	381869.082				ug/L
	V	51	5406.744	3.3	4488.603	0.05969	0.011	18.7	ug/L
	Cr	52	17656.538	2.8	15368.650	0.17363	0.033	19.2	ug/L
	Cr	53	924.061	4.1	814.381	0.06659	0.021	30.9	ug/L
	Mn	55	799543.466	1.1	494.020	38.82888	0.849	2.2	ug/L
	Co	59	2347.688	3.3	188.671	0.12026	0.007	5.4	ug/L
	Ni	60	4754.071	3.0	136.669	1.14686	0.053	4.6	ug/L
	Ni	62	630.364	4.2	143.669	0.80821	0.034	4.2	ug/L
	Cu	63	22451.774	2.4	212.338	2.41711	0.099	4.1	ug/L
	Cu	65	11269.062	1.6	189.671	2.48504	0.083	3.3	ug/L
	Zn	66	190870.105	2.8	1515.486	72.45529	1.835	2.5	ug/L
	Zn	67	28646.121	2.3	342.344	62.36653	2.198	3.5	ug/L
	Zn	68	136950.184	0.4	1170.427	70.74592	1.200	1.7	ug/L
>	Ge	72	249051.911	1.6	244883.968				ug/L
	As	75	572.692	1.6	124.002	0.13796	0.002	1.7	ug/L
	Se	77	252.270	5.4	216.736	0.13260	0.074	55.7	ug/L
	Se	78	16075.663	1.4	16119.238	-0.39977	0.496	123.9	mg/L
	Se	82	1818.932	0.9	1872.010	-0.26129	0.072	27.6	ug/L
	Kr	83	1775.874	3.5	1902.236				mg/L
	Y	89	415229.404	1.4	408188.389				ug/L
	Mo	95	921.727	2.5	112.002	0.15051	0.005	3.2	ug/L
	Mo	97	589.027	4.2	64.001	0.16045	0.008	4.8	ug/L
	Mo	98	1375.031	1.6	98.282	0.15470	0.002	1.5	ug/L
	Rh	103	340761.216	0.3	340052.119				ug/L
	Ag	107	87.335	0.7	91.335	-0.00029	0.000	20.1	ug/L
	Ag	109	71.001	6.1	75.668	-0.00036	0.000	90.6	ug/L
	Cd	111	286.828	3.6	218.275	0.02280	0.004	16.7	ug/L
	Cd	114	223.027	3.0	58.957	0.02437	0.001	4.0	ug/L
>	In	115	357679.456	0.5	358352.924				ug/L
	Sb	121	5620.284	1.6	107.668	0.59263	0.007	1.2	ug/L
	Sb	123	4161.970	0.2	79.665	0.57024	0.002	0.3	ug/L
	Ba	135	12304.535	1.3	46.667	4.93788	0.050	1.0	ug/L
	Ba	137	21295.059	1.8	47.001	5.01598	0.118	2.3	ug/L
>	Tb	159	412481.561	2.3	411268.087				ug/L
>	Ho	165	383764.260	1.0	390096.908				ug/L
	Tl	203	219.672	11.2	60.001	0.02057	0.003	14.8	ug/L
	Tl	205	457.684	7.9	78.001	0.02207	0.002	8.4	ug/L
	Pb	208	6095.605	2.7	320.672	0.23271	0.006	2.4	ug/L

Pb	206	1544.825	4.3	87.335	0.22325	0.008	3.5	ug/L
Pb	207	1310.116	4.4	77.001	0.22627	0.012	5.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.887			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.702			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.812			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.295			
>	Ho	165		98.377			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950476 D.10

Sample Date/Time: Monday, November 13, 2006 18:29:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950476 D.10.049

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.001	17.1	63.001	-0.00031	0.010	3297.8	ug/L
	Al	27	39510.217	2.8	2334.350	5.56041	0.156	2.8	ug/L
>	Sc	45	372434.923	1.4	381869.082				ug/L
	V	51	5124.638	2.6	4488.603	0.04668	0.007	14.5	ug/L
	Cr	52	17091.017	2.0	15368.650	0.15081	0.037	24.2	ug/L
	Cr	53	883.722	4.4	814.381	0.05099	0.024	48.0	ug/L
	Mn	55	772710.421	1.0	494.020	37.60824	0.286	0.8	ug/L
	Co	59	2431.046	2.0	188.671	0.12516	0.002	2.0	ug/L
	Ni	60	4503.597	4.9	136.669	1.08677	0.053	4.9	ug/L
	Ni	62	613.029	0.9	143.669	0.78195	0.009	1.1	ug/L
	Cu	63	17367.923	1.6	212.338	1.86821	0.026	1.4	ug/L
	Cu	65	8465.049	1.8	189.671	1.85985	0.031	1.7	ug/L
	Zn	66	181593.289	2.1	1515.486	69.07117	1.468	2.1	ug/L
	Zn	67	28799.991	2.6	342.344	62.83774	1.518	2.4	ug/L
	Zn	68	134744.653	2.2	1170.427	69.75533	1.563	2.2	ug/L
>	Ge	72	248445.926	0.3	244883.968				ug/L
	As	75	538.689	5.4	124.002	0.12786	0.009	7.1	ug/L
	Se	77	253.271	6.1	216.736	0.13857	0.066	47.8	ug/L
	Se	78	16064.183	0.4	16119.238	-0.36901	0.038	10.4	mg/L
	Se	82	1817.798	0.3	1872.010	-0.25172	0.030	12.1	ug/L
	Kr	83	1790.877	2.9	1902.236				mg/L
	Y	89	403636.052	1.4	408188.389				ug/L
	Mo	95	865.054	2.1	112.002	0.13688	0.002	1.4	ug/L
	Mo	97	531.689	4.3	64.001	0.13998	0.011	7.8	ug/L
	Mo	98	1198.674	0.9	98.282	0.13061	0.005	3.8	ug/L
	Rh	103	331391.230	1.2	340052.119				ug/L
	Ag	107	80.335	5.2	91.335	-0.00094	0.000	14.0	ug/L
	Ag	109	58.667	6.5	75.668	-0.00144	0.000	26.5	ug/L
	Cd	111	269.676	4.9	218.275	0.01536	0.002	10.3	ug/L
	Cd	114	176.569	20.9	58.957	0.01688	0.005	27.3	ug/L
>	In	115	364775.544	3.1	358352.924				ug/L
	Sb	121	3292.017	2.5	107.668	0.33556	0.008	2.3	ug/L
	Sb	123	2561.896	1.3	79.665	0.33998	0.011	3.2	ug/L
	Ba	135	12256.129	1.1	46.667	5.05644	0.121	2.4	ug/L
	Ba	137	20988.609	0.8	47.001	5.08111	0.072	1.4	ug/L
>	Tb	159	401300.317	1.7	411268.087				ug/L
>	Ho	165	391619.063	1.8	390096.908				ug/L
	Tl	203	243.006	6.5	60.001	0.02297	0.003	11.1	ug/L
	Tl	205	453.017	1.2	78.001	0.02129	0.001	2.5	ug/L
	Pb	208	4157.780	1.4	320.672	0.15135	0.001	0.6	ug/L

Pb	206	1072.746	1.0	87.335	0.14777	0.002	1.4	ug/L
Pb	207	897.057	0.7	77.001	0.14724	0.002	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.529			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.455			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.792			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.576			
>	Ho	165		100.390			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477 D.10

Sample Date/Time: Monday, November 13, 2006 18:35:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477 D.10.050

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.667	18.3	63.001	-0.01113	0.007	65.6	ug/L
	Al	27	23318.481	0.9	2334.350	3.04870	0.107	3.5	ug/L
>	Sc	45	382889.096	2.2	381869.082				ug/L
	V	51	5012.408	1.2	4488.603	0.03124	0.009	29.4	ug/L
	Cr	52	16907.304	0.8	15368.650	0.10459	0.020	19.4	ug/L
	Cr	53	895.724	1.4	814.381	0.04389	0.008	18.3	ug/L
	Mn	55	583269.048	1.2	494.020	27.72082	0.579	2.1	ug/L
	Co	59	1219.768	2.1	188.671	0.05587	0.001	1.8	ug/L
	Ni	60	3306.023	4.7	136.669	0.76940	0.038	5.0	ug/L
	Ni	62	424.015	5.3	143.669	0.44931	0.043	9.7	ug/L
	Cu	63	1165.427	2.4	212.338	0.10051	0.003	3.2	ug/L
	Cu	65	631.364	5.4	189.671	0.09532	0.006	6.4	ug/L
	Zn	66	161373.996	1.5	1515.486	59.87328	1.376	2.3	ug/L
	Zn	67	24542.007	2.0	342.344	52.17118	1.247	2.4	ug/L
	Zn	68	111816.705	1.3	1170.427	56.41761	1.037	1.8	ug/L
>	Ge	72	254403.646	1.0	244883.968				ug/L
	As	75	884.723	8.5	124.002	0.22847	0.020	8.8	ug/L
	Se	77	230.537	4.5	216.736	0.02198	0.047	213.5	ug/L
	Se	78	16031.842	0.7	16119.238	-0.88823	0.094	10.6	mg/L
	Se	82	1794.126	1.5	1872.010	-0.45489	0.056	12.3	ug/L
	Kr	83	1756.203	1.4	1902.236				mg/L
	Y	89	411213.948	0.4	408188.389				ug/L
	Mo	95	959.065	3.8	112.002	0.15235	0.006	4.2	ug/L
	Mo	97	586.026	1.9	64.001	0.15446	0.005	3.5	ug/L
	Mo	98	1406.523	3.2	98.282	0.15368	0.006	4.1	ug/L
	Rh	103	331783.362	1.5	340052.119				ug/L
	Ag	107	71.001	12.7	91.335	-0.00168	0.001	35.0	ug/L
	Ag	109	47.667	5.3	75.668	-0.00235	0.000	9.2	ug/L
	Cd	111	265.159	1.3	218.275	0.01314	0.002	16.7	ug/L
	Cd	114	145.873	8.8	58.957	0.01232	0.002	18.0	ug/L
>	In	115	368219.930	1.9	358352.924				ug/L
	Sb	121	219.005	5.7	107.668	0.01131	0.001	8.8	ug/L
	Sb	123	152.939	8.9	79.665	0.00964	0.002	18.8	ug/L
	Ba	135	15239.408	0.7	46.667	6.35787	0.050	0.8	ug/L
	Ba	137	25127.419	1.9	47.001	6.14964	0.110	1.8	ug/L
>	Tb	159	397057.893	0.9	411268.087				ug/L
>	Ho	165	400424.717	0.5	390096.908				ug/L
	Tl	203	144.669	6.9	60.001	0.01020	0.001	12.3	ug/L
	Tl	205	287.008	3.6	78.001	0.01149	0.001	5.2	ug/L
	Pb	208	2056.786	3.9	320.672	0.06666	0.003	4.2	ug/L

Pb	206	547.024	9.7	87.335	0.06708	0.008	11.3	ug/L
Pb	207	431.349	5.4	77.001	0.06188	0.004	6.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		100.267			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.887			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.753			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.545			
>	Ho	165		102.647			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477D D.10

Sample Date/Time: Monday, November 13, 2006 18:41:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477D D.10.051

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51.667	9.1	63.001	-0.01063	0.004	36.1	ug/L
	Al	27	20729.961	1.1	2334.350	2.64026	0.076	2.9	ug/L
>	Sc	45	386955.293	1.5	381869.082				ug/L
	V	51	5163.149	2.1	4488.603	0.03698	0.004	10.3	ug/L
	Cr	52	17284.079	0.5	15368.650	0.11812	0.022	18.6	ug/L
	Cr	53	876.722	8.3	814.381	0.02828	0.040	143.2	ug/L
	Mn	55	598687.512	2.2	494.020	28.17508	0.529	1.9	ug/L
	Co	59	1203.099	4.9	188.671	0.05434	0.003	6.2	ug/L
	Ni	60	3374.050	3.1	136.669	0.77808	0.028	3.7	ug/L
	Ni	62	462.017	7.8	143.669	0.50402	0.062	12.2	ug/L
	Cu	63	1454.142	4.2	212.338	0.12973	0.007	5.1	ug/L
	Cu	65	829.383	3.4	189.671	0.13706	0.005	3.8	ug/L
	Zn	66	134220.994	0.8	1515.486	49.21030	0.628	1.3	ug/L
	Zn	67	20300.569	1.3	342.344	42.59936	0.806	1.9	ug/L
	Zn	68	94975.118	0.8	1170.427	47.35506	0.169	0.4	ug/L
>	Ge	72	256880.092	0.6	244883.968				ug/L
	As	75	881.722	6.7	124.002	0.22512	0.018	7.9	ug/L
	Se	77	232.203	4.4	216.736	0.01935	0.036	188.6	ug/L
	Se	78	16043.622	0.5	16119.238	-1.06642	0.063	6.0	mg/L
	Se	82	1801.128	0.8	1872.010	-0.48585	0.075	15.5	ug/L
	Kr	83	1753.202	1.3	1902.236				mg/L
	Y	89	416038.841	1.5	408188.389				ug/L
	Mo	95	898.391	2.1	112.002	0.14245	0.008	5.7	ug/L
	Mo	97	567.025	4.4	64.001	0.14982	0.009	6.3	ug/L
	Mo	98	1403.004	2.0	98.282	0.15419	0.003	1.8	ug/L
	Rh	103	336302.258	2.3	340052.119				ug/L
	Ag	107	57.667	5.3	91.335	-0.00262	0.000	13.2	ug/L
	Ag	109	52.667	11.6	75.668	-0.00192	0.001	31.0	ug/L
	Cd	111	270.593	5.2	218.275	0.01546	0.006	41.8	ug/L
	Cd	114	198.075	8.7	58.957	0.01996	0.002	9.2	ug/L
>	In	115	366162.869	3.0	358352.924				ug/L
	Sb	121	196.004	8.4	107.668	0.00904	0.002	19.3	ug/L
	Sb	123	142.023	6.1	79.665	0.00827	0.001	11.7	ug/L
	Ba	135	15522.270	2.3	46.667	6.25833	0.142	2.3	ug/L
	Ba	137	25926.531	1.1	47.001	6.13237	0.066	1.1	ug/L
>	Tb	159	410829.306	0.3	411268.087				ug/L
>	Ho	165	395045.428	2.2	390096.908				ug/L
	Tl	203	128.002	16.1	60.001	0.00839	0.003	33.5	ug/L
	Tl	205	253.673	4.8	78.001	0.00984	0.001	6.8	ug/L
	Pb	208	2215.805	1.6	320.672	0.07398	0.002	2.4	ug/L

Pb	206	566.692	3.2	87.335	0.07117	0.005	6.3	ug/L
Pb	207	473.018	2.4	77.001	0.07033	0.001	1.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.332			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.899			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.179			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.893			
>	Ho	165		101.269			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477S D.10

Sample Date/Time: Monday, November 13, 2006 18:47:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477S D.10.052

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	2600.098	0.9	63.001	2.27137	0.024	1.1	ug/L
	Al	27	35389.736	3.5	2334.350	4.88007	0.273	5.6	ug/L
>	Sc	45	377291.101	1.9	381869.082				ug/L
	V	51	45158.834	0.5	4488.603	2.51347	0.065	2.6	ug/L
	Cr	52	50062.504	2.8	15368.650	2.46701	0.153	6.2	ug/L
	Cr	53	4893.819	0.6	814.381	2.29683	0.061	2.6	ug/L
	Mn	55	625249.459	2.4	494.020	29.92967	0.653	2.2	ug/L
	Co	59	43428.309	1.1	188.671	2.37686	0.028	1.2	ug/L
	Ni	60	12457.433	2.6	136.669	3.01746	0.115	3.8	ug/L
	Ni	62	1717.194	1.6	143.669	2.58269	0.025	0.9	ug/L
	Cu	63	23439.834	2.5	212.338	2.48763	0.037	1.5	ug/L
	Cu	65	11248.366	0.9	189.671	2.44472	0.052	2.1	ug/L
	Zn	66	140327.216	1.6	1515.486	52.36371	0.822	1.6	ug/L
	Zn	67	21871.224	2.2	342.344	46.74484	0.571	1.2	ug/L
	Zn	68	100579.058	1.3	1170.427	51.06162	1.231	2.4	ug/L
>	Ge	72	252578.551	1.4	244883.968				ug/L
	As	75	8313.562	0.9	124.002	2.49365	0.042	1.7	ug/L
	Se	77	752.834	3.6	216.736	2.15979	0.097	4.5	ug/L
	Se	78	17718.034	0.2	16119.238	1.37250	0.346	25.2	mg/L
	Se	82	2503.309	0.6	1872.010	1.74194	0.125	7.2	ug/L
	Kr	83	1775.207	3.5	1902.236				mg/L
	Y	89	406625.703	1.5	408188.389				ug/L
	Mo	95	13795.882	1.1	112.002	2.45331	0.024	1.0	ug/L
	Mo	97	8314.896	1.1	64.001	2.43236	0.027	1.1	ug/L
	Mo	98	21281.055	2.5	98.282	2.47654	0.072	2.9	ug/L
	Rh	103	329825.845	3.4	340052.119				ug/L
	Ag	107	30906.189	1.5	91.335	2.24405	0.009	0.4	ug/L
	Ag	109	29123.429	1.0	75.668	2.25146	0.029	1.3	ug/L
	Cd	111	7330.758	1.4	218.275	2.26569	0.032	1.4	ug/L
	Cd	114	16084.787	2.2	58.957	2.29568	0.074	3.2	ug/L
>	In	115	370648.693	1.9	358352.924				ug/L
	Sb	121	22565.072	1.3	107.668	2.32980	0.041	1.7	ug/L
	Sb	123	17575.004	3.0	79.665	2.35762	0.034	1.5	ug/L
	Ba	135	20673.486	0.8	46.667	8.42296	0.042	0.5	ug/L
	Ba	137	35010.742	0.6	47.001	8.36632	0.105	1.3	ug/L
>	Tb	159	406866.550	0.9	411268.087				ug/L
>	Ho	165	392030.833	1.3	390096.908				ug/L
	Tl	203	18829.775	1.7	60.001	2.35330	0.055	2.3	ug/L
	Tl	205	43707.099	1.2	78.001	2.47522	0.019	0.8	ug/L
	Pb	208	62951.507	1.0	320.672	2.46865	0.041	1.7	ug/L

Pb	206	16184.532	1.5	87.335	2.41185	0.027	1.1	ug/L
Pb	207	13370.521	2.1	77.001	2.38531	0.075	3.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.801			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.142			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.431			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.930			
>	Ho	165		100.496			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477A D.10

Sample Date/Time: Monday, November 13, 2006 18:53:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477A D.10.053

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	22896.310	1.3	63.001	20.33737	0.487	2.4	ug/L
	Al	27	185066.496	2.1	2334.350	26.81309	0.822	3.1	ug/L
>	Sc	45	379290.622	3.6	381869.082				ug/L
	V	51	360353.825	2.8	4488.603	21.84905	0.375	1.7	ug/L
	Cr	52	326516.342	1.5	15368.650	21.90196	0.775	3.5	ug/L
	Cr	53	37851.515	2.4	814.381	20.69814	0.458	2.2	ug/L
	Mn	55	1020822.990	1.1	494.020	49.35609	1.250	2.5	ug/L
	Co	59	367784.056	3.1	188.671	20.39519	0.138	0.7	ug/L
	Ni	60	84148.696	2.2	136.669	20.77801	0.752	3.6	ug/L
	Ni	62	12806.964	2.0	143.669	21.03884	0.425	2.0	ug/L
	Cu	63	194445.838	3.6	212.338	21.00055	0.217	1.0	ug/L
	Cu	65	94755.631	0.7	189.671	21.11874	0.654	3.1	ug/L
	Zn	66	191120.135	2.4	1515.486	72.22176	2.032	2.8	ug/L
	Zn	67	29899.843	0.5	342.344	64.84266	2.510	3.9	ug/L
	Zn	68	137383.991	1.1	1170.427	70.68216	3.224	4.6	ug/L
>	Ge	72	250293.568	3.7	244883.968				ug/L
	As	75	65149.681	1.1	124.002	20.00093	0.610	3.1	ug/L
	Se	77	4983.023	0.9	216.736	19.62576	0.771	3.9	ug/L
	Se	78	31024.563	1.2	16119.238	18.43826	1.396	7.6	mg/L
	Se	82	8085.121	1.1	1872.010	18.96529	1.075	5.7	ug/L
	Kr	83	1748.534	2.2	1902.236				mg/L
	Y	89	412962.694	1.3	408188.389				ug/L
	Mo	95	113960.402	0.4	112.002	21.33702	0.124	0.6	ug/L
	Mo	97	71576.809	0.9	64.001	22.03708	0.123	0.6	ug/L
	Mo	98	182324.780	1.4	98.282	22.26499	0.099	0.4	ug/L
	Rh	103	333709.814	1.5	340052.119				ug/L
	Ag	107	281931.764	0.8	91.335	21.45266	0.153	0.7	ug/L
	Ag	109	268482.405	1.9	75.668	21.74117	0.318	1.5	ug/L
	Cd	111	62730.095	0.8	218.275	20.83446	0.370	1.8	ug/L
	Cd	114	144720.291	3.1	58.957	21.65240	0.551	2.5	ug/L
>	In	115	354643.765	1.0	358352.924				ug/L
	Sb	121	203072.665	0.9	107.668	22.00672	0.046	0.2	ug/L
	Sb	123	150148.829	0.9	79.665	21.14132	0.069	0.3	ug/L
	Ba	135	66156.241	1.1	46.667	26.75067	0.230	0.9	ug/L
	Ba	137	108914.258	1.1	47.001	25.81201	0.095	0.4	ug/L
>	Tb	159	410582.175	0.8	411268.087				ug/L
>	Ho	165	390551.543	1.2	390096.908				ug/L
	Tl	203	163140.078	2.0	60.001	20.52636	0.636	3.1	ug/L
	Tl	205	392324.360	0.5	78.001	22.33983	0.348	1.6	ug/L
	Pb	208	537479.255	0.4	320.672	21.25211	0.166	0.8	ug/L

Pb	206	137323.332	1.1	87.335	20.64028	0.066	0.3	ug/L
Pb	207	113275.018	2.1	77.001	20.38893	0.633	3.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.325			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.209			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.965			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.833			
>	Ho	165		100.117			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477L D.10

Sample Date/Time: Monday, November 13, 2006 18:59:34
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477L D.10.054

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.001	16.1	63.001	-0.00076	0.010	1291.6	ug/L
	Al	27	24025.520	3.6	2334.350	3.21987	0.167	5.2	ug/L
>	Sc	45	375499.541	1.6	381869.082				ug/L
	V	51	4958.869	3.9	4488.603	0.03397	0.017	49.6	ug/L
	Cr	52	16250.348	4.7	15368.650	0.08145	0.069	85.1	ug/L
	Cr	53	754.708	3.3	814.381	-0.02589	0.017	65.9	ug/L
	Mn	55	122818.012	0.6	494.020	5.96534	0.035	0.6	ug/L
	Co	59	378.679	6.3	188.671	0.01050	0.002	14.5	ug/L
	Ni	60	862.053	5.2	136.669	0.18044	0.012	6.6	ug/L
	Ni	62	199.004	4.5	143.669	0.08946	0.011	12.2	ug/L
	Cu	63	515.688	1.0	212.338	0.03279	0.001	2.9	ug/L
	Cu	65	368.679	6.7	189.671	0.03979	0.007	16.4	ug/L
	Zn	66	153354.469	1.0	1515.486	58.32087	0.817	1.4	ug/L
	Zn	67	22842.164	1.7	342.344	49.75934	1.421	2.9	ug/L
	Zn	68	110885.521	2.2	1170.427	57.38281	1.804	3.1	ug/L
>	Ge	72	248118.019	1.2	244883.968				ug/L
	As	75	283.341	3.6	124.002	0.04892	0.004	8.0	ug/L
	Se	77	216.469	1.2	216.736	-0.01288	0.018	137.2	ug/L
	Se	78	15711.854	1.7	16119.238	-0.78696	0.581	73.8	mg/L
	Se	82	1757.119	1.0	1872.010	-0.43193	0.057	13.2	ug/L
	Kr	83	1779.541	0.4	1902.236				mg/L
	Y	89	411776.163	2.0	408188.389				ug/L
	Mo	95	299.675	5.0	112.002	0.03429	0.003	9.5	ug/L
	Mo	97	191.337	3.2	64.001	0.03829	0.002	6.3	ug/L
	Mo	98	429.813	1.0	98.282	0.03959	0.001	2.3	ug/L
	Rh	103	337977.523	0.9	340052.119				ug/L
	Ag	107	90.335	1.7	91.335	-0.00014	0.000	129.5	ug/L
	Ag	109	74.334	11.4	75.668	-0.00017	0.001	384.5	ug/L
	Cd	111	256.464	7.6	218.275	0.01183	0.007	60.3	ug/L
	Cd	114	132.952	5.2	58.957	0.01077	0.001	9.4	ug/L
>	In	115	361842.671	1.0	358352.924				ug/L
	Sb	121	498.353	11.9	107.668	0.04145	0.007	16.5	ug/L
	Sb	123	382.567	9.3	79.665	0.04175	0.005	13.1	ug/L
	Ba	135	3060.593	1.8	46.667	1.23488	0.012	1.0	ug/L
	Ba	137	5097.276	1.7	47.001	1.21246	0.021	1.7	ug/L
>	Tb	159	405553.065	0.9	411268.087				ug/L
>	Ho	165	389847.555	2.5	390096.908				ug/L
	Tl	203	93.668	17.4	60.001	0.00424	0.002	46.8	ug/L
	Tl	205	155.670	3.5	78.001	0.00444	0.000	8.6	ug/L
	Pb	208	1440.730	3.3	320.672	0.04443	0.003	5.7	ug/L

Pb	206	363.678	5.6	87.335	0.04171	0.004	10.1	ug/L
Pb	207	313.676	8.5	77.001	0.04273	0.005	12.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.332			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.321			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.974			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.610			
>	Ho	165		99.936			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 19:05:33
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.055

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55893.389	1.1	63.001	51.45804	0.217	0.4	ug/L
	Al	27	347009.346	1.7	2334.350	52.34093	0.539	1.0	ug/L
>	Sc	45	366341.922	1.3	381869.082				ug/L
	V	51	818876.681	2.5	4488.603	51.77688	1.930	3.7	ug/L
	Cr	52	731795.682	1.7	15368.650	52.20846	1.292	2.5	ug/L
	Cr	53	86091.975	3.5	814.381	49.33228	1.573	3.2	ug/L
	Mn	55	1050489.263	1.6	494.020	51.95118	0.882	1.7	ug/L
	Co	59	850468.188	3.9	188.671	48.26294	1.258	2.6	ug/L
	Ni	60	193426.571	2.5	136.669	48.88355	0.366	0.7	ug/L
	Ni	62	30111.949	1.7	143.669	50.94326	0.157	0.3	ug/L
	Cu	63	459989.202	2.7	212.338	50.86462	0.445	0.9	ug/L
	Cu	65	227607.730	1.9	189.671	51.93832	0.590	1.1	ug/L
	Zn	66	137999.755	1.3	1515.486	53.18821	0.447	0.8	ug/L
	Zn	67	23676.495	1.5	342.344	52.35429	0.574	1.1	ug/L
	Zn	68	102922.527	1.9	1170.427	54.00026	1.684	3.1	ug/L
>	Ge	72	244583.167	1.8	244883.968				ug/L
	As	75	153856.398	1.6	124.002	48.35872	0.122	0.3	ug/L
	Se	77	12716.095	1.0	216.736	52.68315	0.877	1.7	ug/L
	Se	78	55226.047	2.8	16119.238	50.67550	2.643	5.2	mg/L
	Se	82	18512.072	0.2	1872.010	52.27405	0.904	1.7	ug/L
	Kr	83	1740.199	1.2	1902.236				mg/L
	Y	89	406913.863	2.6	408188.389				ug/L
	Mo	95	265433.072	0.6	112.002	49.41771	0.993	2.0	ug/L
	Mo	97	165315.870	2.3	64.001	50.61534	1.809	3.6	ug/L
	Mo	98	427467.292	0.5	98.282	51.89247	0.496	1.0	ug/L
	Rh	103	336774.386	1.7	340052.119				ug/L
	Ag	107	675518.226	1.6	91.335	51.08798	0.852	1.7	ug/L
	Ag	109	641825.967	1.1	75.668	51.65925	0.757	1.5	ug/L
	Cd	111	155418.961	2.8	218.275	51.39346	1.358	2.6	ug/L
	Cd	114	358937.089	2.7	58.957	53.38278	1.420	2.7	ug/L
>	In	115	356901.369	1.4	358352.924				ug/L
	Sb	121	475502.429	0.6	107.668	51.22778	1.003	2.0	ug/L
	Sb	123	354845.219	0.4	79.665	49.66732	0.663	1.3	ug/L
	Ba	135	122685.418	0.7	46.667	50.34227	0.284	0.6	ug/L
	Ba	137	204249.069	2.4	47.001	49.11336	0.962	2.0	ug/L
>	Tb	159	404736.317	0.8	411268.087				ug/L
>	Ho	165	385446.056	2.8	390096.908				ug/L
	Tl	203	389895.032	1.1	60.001	49.73107	1.484	3.0	ug/L
	Tl	205	922505.040	2.3	78.001	53.23417	0.815	1.5	ug/L
	Pb	208	1285515.438	1.6	320.672	51.52953	0.626	1.2	ug/L

Pb	206	329503.936	3.5	87.335	50.19387	0.362	0.7	ug/L
Pb	207	272682.267	0.5	77.001	49.76555	1.365	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	102.916				
	Al	27	104.682				
>	Sc	45		95.934			
	V	51	103.554				
	Cr	52	104.417				
	Cr	53	98.665				
	Mn	55	103.902				
	Co	59	96.526				
	Ni	60	97.767				
	Ni	62	101.887				
	Cu	63	101.729				
	Cu	65	103.877				
	Zn	66	106.376				
	Zn	67	104.709				
	Zn	68	108.001				
>	Ge	72		99.877			
	As	75	96.717				
	Se	77	105.366				
	Se	78	101.351				
	Se	82	104.548				
	Kr	83					
	Y	89					
	Mo	95	98.835				
	Mo	97	101.231				
	Mo	98	103.785				
	Rh	103					
	Ag	107	102.176				
	Ag	109	103.318				
	Cd	111	102.787				
	Cd	114	106.766				
>	In	115		99.595			
	Sb	121	102.456				
	Sb	123	99.335				
	Ba	135	100.685				
	Ba	137	98.227				
>	Tb	159		98.412			
>	Ho	165		98.808			
	Tl	203	99.462				
	Tl	205	106.468				
	Pb	208	103.059				
	Pb	206	100.388				
	Pb	207	99.531				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 19:11:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.056

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.667	12.2	63.001	-0.00600	0.007	111.7	ug/L
	Al	27	2565.421	2.3	2334.350	0.04366	0.004	8.6	ug/L
>	Sc	45	371907.367	2.1	381869.082				ug/L
	V	51	4808.979	2.1	4488.603	0.02745	0.008	28.6	ug/L
	Cr	52	15803.462	0.5	15368.650	0.06033	0.029	47.8	ug/L
	Cr	53	704.370	3.0	814.381	-0.05061	0.004	7.1	ug/L
	Mn	55	480.352	4.6	494.020	-0.00075	0.001	91.1	ug/L
	Co	59	153.336	10.4	188.671	-0.00202	0.001	50.1	ug/L
	Ni	60	129.336	18.6	136.669	-0.00192	0.006	320.3	ug/L
	Ni	62	128.002	1.6	143.669	-0.02710	0.007	25.1	ug/L
	Cu	63	242.339	11.5	212.338	0.00322	0.003	84.4	ug/L
	Cu	65	185.004	12.9	189.671	-0.00109	0.006	578.3	ug/L
	Zn	66	1574.498	3.5	1515.486	0.02139	0.021	97.1	ug/L
	Zn	67	298.008	2.9	342.344	-0.10069	0.033	32.6	ug/L
	Zn	68	1237.438	2.6	1170.427	0.03416	0.031	89.5	ug/L
>	Ge	72	245544.752	2.1	244883.968				ug/L
	As	75	185.671	6.3	124.002	0.01920	0.003	16.0	ug/L
	Se	77	222.870	0.7	216.736	0.02347	0.013	56.7	ug/L
	Se	78	16071.412	1.4	16119.238	-0.10798	0.710	657.7	mg/L
	Se	82	1793.926	1.1	1872.010	-0.25779	0.169	65.4	ug/L
	Kr	83	1783.875	0.6	1902.236				mg/L
	Y	89	406661.988	2.9	408188.389				ug/L
	Mo	95	814.716	20.3	112.002	0.12636	0.031	24.7	ug/L
	Mo	97	503.021	17.8	64.001	0.12979	0.028	21.3	ug/L
	Mo	98	1195.856	14.9	98.282	0.12886	0.022	17.2	ug/L
	Rh	103	334752.249	1.1	340052.119				ug/L
	Ag	107	179.337	6.0	91.335	0.00625	0.001	11.7	ug/L
	Ag	109	144.336	9.2	75.668	0.00518	0.001	19.0	ug/L
	Cd	111	214.525	7.7	218.275	-0.00315	0.006	191.2	ug/L
	Cd	114	58.413	9.1	58.957	-0.00032	0.001	240.1	ug/L
>	In	115	368544.452	1.1	358352.924				ug/L
	Sb	121	1437.140	15.5	107.668	0.13852	0.024	17.6	ug/L
	Sb	123	1075.981	11.8	79.665	0.13487	0.018	13.7	ug/L
	Ba	135	48.667	10.1	46.667	0.00102	0.002	189.9	ug/L
	Ba	137	60.001	17.6	47.001	0.00324	0.003	80.1	ug/L
>	Tb	159	406695.774	0.4	411268.087				ug/L
>	Ho	165	391327.828	1.2	390096.908				ug/L
	Tl	203	72.334	20.1	60.001	0.00154	0.002	125.6	ug/L
	Tl	205	145.003	11.4	78.001	0.00380	0.001	26.9	ug/L
	Pb	208	434.009	6.8	320.672	0.00444	0.001	30.3	ug/L

Pb	206	118.669	6.1	87.335	0.00467	0.001	27.8	ug/L
Pb	207	103.002	3.9	77.001	0.00463	0.001	19.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.391			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.270			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.844			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.888			
>	Ho	165		100.316			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956 D.100

Sample Date/Time: Monday, November 13, 2006 19:17:28
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956 D.100.057

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.667	26.7	63.001	-0.00699	0.013	188.2	ug/L
	Al	27	23498.003	2.9	2334.350	3.10817	0.115	3.7	ug/L
>	Sc	45	379049.329	0.7	381869.082				ug/L
	V	51	4752.167	2.6	4488.603	0.01822	0.007	39.5	ug/L
	Cr	52	16040.589	2.4	15368.650	0.05520	0.021	38.9	ug/L
	Cr	53	744.374	7.2	814.381	-0.03582	0.029	80.6	ug/L
	Mn	55	1487241.469	1.9	494.020	71.24398	0.537	0.8	ug/L
	Co	59	3035.250	2.4	188.671	0.15621	0.003	2.0	ug/L
	Ni	60	751.375	1.2	136.669	0.14960	0.004	3.0	ug/L
	Ni	62	223.005	8.2	143.669	0.12311	0.026	21.4	ug/L
	Cu	63	578.026	2.4	212.338	0.03850	0.002	5.6	ug/L
	Cu	65	325.676	4.9	189.671	0.02877	0.003	9.7	ug/L
	Zn	66	151781.941	1.9	1515.486	56.70531	1.068	1.9	ug/L
	Zn	67	22635.934	1.8	342.344	48.42897	1.000	2.1	ug/L
	Zn	68	106923.569	2.4	1170.427	54.35014	2.159	4.0	ug/L
>	Ge	72	252498.632	1.5	244883.968				ug/L
	As	75	7350.981	0.4	124.002	2.20124	0.040	1.8	ug/L
	Se	77	209.403	3.2	216.736	-0.05715	0.037	64.5	ug/L
	Se	78	15848.624	1.1	16119.238	-0.96268	0.518	53.8	mg/L
	Se	82	1766.721	0.6	1872.010	-0.49684	0.051	10.3	ug/L
	Kr	83	1817.550	0.8	1902.236				mg/L
	Y	89	418153.781	1.0	408188.389				ug/L
	Mo	95	1884.232	1.3	112.002	0.31970	0.004	1.1	ug/L
	Mo	97	1128.754	3.8	64.001	0.31581	0.011	3.4	ug/L
	Mo	98	2894.959	1.0	98.282	0.32917	0.002	0.6	ug/L
	Rh	103	339019.795	0.7	340052.119				ug/L
	Ag	107	76.001	17.4	91.335	-0.00129	0.001	82.4	ug/L
	Ag	109	62.001	4.8	75.668	-0.00122	0.000	20.3	ug/L
	Cd	111	266.476	5.9	218.275	0.01364	0.005	37.2	ug/L
	Cd	114	145.805	14.6	58.957	0.01230	0.003	24.1	ug/L
>	In	115	367839.403	1.5	358352.924				ug/L
	Sb	121	495.020	4.6	107.668	0.04019	0.002	4.8	ug/L
	Sb	123	372.778	4.9	79.665	0.03951	0.002	4.4	ug/L
	Ba	135	666.700	1.9	46.667	0.25100	0.008	3.0	ug/L
	Ba	137	1072.080	4.1	47.001	0.24305	0.009	3.5	ug/L
>	Tb	159	410542.209	1.0	411268.087				ug/L
>	Ho	165	388858.516	2.0	390096.908				ug/L
	Tl	203	91.668	10.3	60.001	0.00404	0.001	32.1	ug/L
	Tl	205	154.336	2.9	78.001	0.00438	0.000	6.5	ug/L
	Pb	208	1141.375	5.4	320.672	0.03268	0.003	9.5	ug/L

Pb	206	291.675	1.7	87.335	0.03092	0.001	3.7	ug/L
Pb	207	252.340	8.4	77.001	0.03182	0.005	15.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.262			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.109			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.647			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.824			
>	Ho	165		99.683			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956D D.100

Sample Date/Time: Monday, November 13, 2006 19:23:27
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956D D.100.058

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.667	13.7	63.001	-0.00704	0.007	104.5	ug/L
	Al	27	22846.174	1.5	2334.350	3.00784	0.166	5.5	ug/L
>	Sc	45	379979.514	3.6	381869.082				ug/L
	V	51	4840.415	3.9	4488.603	0.02297	0.008	35.4	ug/L
	Cr	52	16274.376	2.0	15368.650	0.06988	0.047	67.3	ug/L
	Cr	53	726.706	1.6	814.381	-0.04626	0.017	36.9	ug/L
	Mn	55	1491950.841	0.7	494.020	71.47860	0.674	0.9	ug/L
	Co	59	2957.554	1.3	188.671	0.15196	0.003	1.9	ug/L
	Ni	60	770.710	1.9	136.669	0.15433	0.005	3.2	ug/L
	Ni	62	216.338	9.5	143.669	0.11243	0.035	31.4	ug/L
	Cu	63	546.023	0.5	212.338	0.03506	0.000	0.7	ug/L
	Cu	65	295.342	9.4	189.671	0.02205	0.006	25.7	ug/L
	Zn	66	151613.849	2.5	1515.486	56.64512	1.616	2.9	ug/L
	Zn	67	22670.384	3.8	342.344	48.49603	1.564	3.2	ug/L
	Zn	68	108357.033	0.8	1170.427	55.07208	0.777	1.4	ug/L
>	Ge	72	252481.349	0.7	244883.968				ug/L
	As	75	7292.597	2.2	124.002	2.18322	0.048	2.2	ug/L
	Se	77	209.469	0.9	216.736	-0.05709	0.009	16.4	ug/L
	Se	78	15829.475	1.6	16119.238	-0.98938	0.397	40.1	mg/L
	Se	82	1779.923	0.7	1872.010	-0.45673	0.040	8.7	ug/L
	Kr	83	1744.534	4.2	1902.236				mg/L
	Y	89	413995.637	1.0	408188.389				ug/L
	Mo	95	1802.213	2.1	112.002	0.30472	0.010	3.2	ug/L
	Mo	97	1130.755	2.4	64.001	0.31622	0.007	2.3	ug/L
	Mo	98	2777.957	2.3	98.282	0.31523	0.011	3.3	ug/L
	Rh	103	342286.190	0.3	340052.119				ug/L
	Ag	107	75.334	3.3	91.335	-0.00135	0.000	17.4	ug/L
	Ag	109	54.667	4.6	75.668	-0.00180	0.000	12.1	ug/L
	Cd	111	242.841	1.4	218.275	0.00599	0.001	22.8	ug/L
	Cd	114	137.034	4.6	58.957	0.01103	0.001	7.8	ug/L
>	In	115	368061.031	0.9	358352.924				ug/L
	Sb	121	320.676	9.8	107.668	0.02193	0.003	13.8	ug/L
	Sb	123	243.530	0.3	79.665	0.02195	0.000	0.9	ug/L
	Ba	135	674.701	6.0	46.667	0.25351	0.017	6.5	ug/L
	Ba	137	1066.412	1.3	47.001	0.24111	0.003	1.1	ug/L
>	Tb	159	411575.812	0.3	411268.087				ug/L
>	Ho	165	393441.732	1.3	390096.908				ug/L
	Tl	203	90.001	16.4	60.001	0.00367	0.002	47.2	ug/L
	Tl	205	159.003	12.8	78.001	0.00453	0.001	23.2	ug/L
	Pb	208	1115.374	1.8	320.672	0.03110	0.001	1.8	ug/L

Pb	206	288.008	3.9	87.335	0.02986	0.002	7.1	ug/L
Pb	207	236.672	5.8	77.001	0.02844	0.003	9.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.505			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.102			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.709			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.075			
>	Ho	165		100.857			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956S D.100

Sample Date/Time: Monday, November 13, 2006 19:29:26
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956S D.100.059

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	322.343	11.8	63.001	0.24195	0.039	16.1	ug/L
	Al	27	23157.715	3.0	2334.350	3.17981	0.142	4.5	ug/L
>	Sc	45	366032.213	1.4	381869.082				ug/L
	V	51	8651.106	3.3	4488.603	0.27647	0.011	4.0	ug/L
	Cr	52	19581.525	3.4	15368.650	0.35327	0.037	10.6	ug/L
	Cr	53	1138.756	0.7	814.381	0.20733	0.005	2.5	ug/L
	Mn	55	1483845.938	1.2	494.020	73.22090	2.794	3.8	ug/L
	Co	59	7205.520	1.9	188.671	0.39730	0.010	2.5	ug/L
	Ni	60	1678.186	1.3	136.669	0.38908	0.020	5.1	ug/L
	Ni	62	341.344	3.2	143.669	0.33527	0.035	10.3	ug/L
	Cu	63	2712.469	1.3	212.338	0.27589	0.008	2.8	ug/L
	Cu	65	1400.132	1.7	189.671	0.27588	0.016	5.8	ug/L
	Zn	66	151512.612	1.3	1515.486	58.29795	1.265	2.2	ug/L
	Zn	67	22563.737	1.6	342.344	49.73089	1.584	3.2	ug/L
	Zn	68	109661.318	1.3	1170.427	57.41360	1.498	2.6	ug/L
>	Ge	72	245329.465	3.3	244883.968				ug/L
	As	75	7983.238	3.4	124.002	2.46832	0.169	6.8	ug/L
	Se	77	265.404	0.9	216.736	0.20373	0.042	20.6	ug/L
	Se	78	16290.585	0.6	16119.238	0.19861	0.697	350.8	mg/L
	Se	82	1852.473	2.1	1872.010	-0.06866	0.178	258.7	ug/L
	Kr	83	1792.211	3.3	1902.236				mg/L
	Y	89	413917.707	1.1	408188.389				ug/L
	Mo	95	2985.231	0.4	112.002	0.52584	0.002	0.4	ug/L
	Mo	97	1895.234	2.0	64.001	0.55108	0.011	2.0	ug/L
	Mo	98	4667.855	0.9	98.282	0.54536	0.005	0.9	ug/L
	Rh	103	340635.659	1.0	340052.119				ug/L
	Ag	107	3256.002	1.0	91.335	0.23526	0.002	0.9	ug/L
	Ag	109	2996.902	3.2	75.668	0.23112	0.008	3.3	ug/L
	Cd	111	982.435	0.8	218.275	0.24789	0.003	1.2	ug/L
	Cd	114	1827.005	2.2	58.957	0.25847	0.006	2.5	ug/L
>	In	115	362977.595	0.2	358352.924				ug/L
	Sb	121	2560.086	4.8	107.668	0.25966	0.013	5.1	ug/L
	Sb	123	1939.382	1.0	79.665	0.25583	0.002	0.9	ug/L
	Ba	135	1200.765	2.6	46.667	0.46880	0.018	3.9	ug/L
	Ba	137	2026.934	4.6	47.001	0.47129	0.028	5.9	ug/L
>	Tb	159	409212.878	1.3	411268.087				ug/L
>	Ho	165	392011.280	2.6	390096.908				ug/L
	Tl	203	1950.248	1.2	60.001	0.23701	0.005	2.0	ug/L
	Tl	205	4646.676	3.0	78.001	0.25927	0.009	3.5	ug/L
	Pb	208	7203.631	0.9	320.672	0.27131	0.005	1.8	ug/L

Pb	206	1834.220	2.9	87.335	0.26168	0.001	0.2	ug/L
Pb	207	1534.823	2.2	77.001	0.26169	0.013	4.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		95.853			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.182			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.291			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.500			
>	Ho	165		100.491			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956A D.100

Sample Date/Time: Monday, November 13, 2006 19:35:25
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956A D.100.060

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	22623.570	2.2	63.001	20.53015	0.659	3.2	ug/L
	Al	27	270978.107	0.8	2334.350	40.27339	0.758	1.9	ug/L
>	Sc	45	371183.618	2.3	381869.082				ug/L
	V	51	360732.007	0.7	4488.603	22.35964	0.657	2.9	ug/L
	Cr	52	318993.195	1.3	15368.650	21.84962	0.248	1.1	ug/L
	Cr	53	36260.422	1.3	814.381	20.25472	0.741	3.7	ug/L
	Mn	55	1864721.802	1.7	494.020	93.28116	2.323	2.5	ug/L
	Co	59	365367.050	1.8	188.671	20.96881	0.577	2.8	ug/L
	Ni	60	82886.002	0.7	136.669	21.16706	0.253	1.2	ug/L
	Ni	62	12201.720	2.9	143.669	20.72769	0.327	1.6	ug/L
	Cu	63	193326.110	0.7	212.338	21.60993	0.377	1.7	ug/L
	Cu	65	96030.463	1.0	189.671	22.13619	0.280	1.3	ug/L
	Zn	66	202384.661	1.9	1515.486	79.15880	0.896	1.1	ug/L
	Zn	67	31779.144	1.9	342.344	71.34467	1.996	2.8	ug/L
	Zn	68	149550.486	0.4	1170.427	79.62120	0.821	1.0	ug/L
>	Ge	72	241865.246	1.5	244883.968				ug/L
	As	75	72395.251	2.1	124.002	22.99683	0.809	3.5	ug/L
	Se	77	5138.851	1.0	216.736	20.99031	0.431	2.1	ug/L
	Se	78	32456.557	1.1	16119.238	21.65934	1.098	5.1	mg/L
	Se	82	8283.715	0.2	1872.010	20.43782	0.324	1.6	ug/L
	Kr	83	1807.881	2.2	1902.236				mg/L
	Y	89	403089.749	2.2	408188.389				ug/L
	Mo	95	113663.617	2.2	112.002	20.87364	0.192	0.9	ug/L
	Mo	97	72272.468	1.3	64.001	21.83238	0.580	2.7	ug/L
	Mo	98	178709.310	0.4	98.282	21.41092	0.323	1.5	ug/L
	Rh	103	335094.105	2.8	340052.119				ug/L
	Ag	107	292104.411	1.7	91.335	21.80257	0.095	0.4	ug/L
	Ag	109	266588.673	0.2	75.668	21.18003	0.319	1.5	ug/L
	Cd	111	65398.125	0.6	218.275	21.30809	0.227	1.1	ug/L
	Cd	114	145903.775	0.5	58.957	21.41825	0.328	1.5	ug/L
>	In	115	361538.985	1.7	358352.924				ug/L
	Sb	121	200123.760	1.4	107.668	21.27984	0.634	3.0	ug/L
	Sb	123	152407.616	0.7	79.665	21.05263	0.265	1.3	ug/L
	Ba	135	50348.184	2.1	46.667	20.48425	0.387	1.9	ug/L
	Ba	137	86942.458	1.6	47.001	20.73485	0.284	1.4	ug/L
>	Tb	159	407964.895	0.3	411268.087				ug/L
>	Ho	165	380038.130	1.5	390096.908				ug/L
	Tl	203	165526.178	1.0	60.001	21.40028	0.309	1.4	ug/L
	Tl	205	389151.765	1.5	78.001	22.76974	0.107	0.5	ug/L
	Pb	208	539559.526	0.8	320.672	21.92516	0.159	0.7	ug/L

Pb	206	137273.444	0.4	87.335	21.20709	0.348	1.6	ug/L
Pb	207	115809.011	0.9	77.001	21.42024	0.324	1.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.202			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.767			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.889			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.197			
>	Ho	165		97.421			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956L D.100

Sample Date/Time: Monday, November 13, 2006 19:41:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956L D.100.061

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	66.334	3.5	63.001	0.00392	0.002	42.2	ug/L
	Al	27	59817.541	1.3	2334.350	8.51944	0.219	2.6	ug/L
>	Sc	45	375590.812	1.3	381869.082				ug/L
	V	51	4704.546	2.5	4488.603	0.01798	0.007	41.6	ug/L
	Cr	52	15503.566	1.6	15368.650	0.02751	0.008	29.2	ug/L
	Cr	53	715.705	2.1	814.381	-0.04804	0.011	23.2	ug/L
	Mn	55	296656.908	3.5	494.020	14.64994	0.844	5.8	ug/L
	Co	59	733.373	0.4	188.671	0.03091	0.001	3.6	ug/L
	Ni	60	333.677	6.0	136.669	0.04989	0.007	13.8	ug/L
	Ni	62	168.670	3.4	143.669	0.04259	0.011	25.2	ug/L
	Cu	63	451.683	4.9	212.338	0.02645	0.002	5.8	ug/L
	Cu	65	288.008	2.1	189.671	0.02246	0.001	6.6	ug/L
	Zn	66	149382.772	1.8	1515.486	57.59310	2.144	3.7	ug/L
	Zn	67	23090.517	1.8	342.344	50.99079	0.631	1.2	ug/L
	Zn	68	108433.995	0.2	1170.427	56.87306	1.432	2.5	ug/L
>	Ge	72	244827.394	2.4	244883.968				ug/L
	As	75	1575.498	2.7	124.002	0.45614	0.008	1.7	ug/L
	Se	77	213.069	4.7	216.736	-0.01423	0.064	451.6	ug/L
	Se	78	16212.608	2.0	16119.238	0.12957	0.426	328.4	mg/L
	Se	82	1781.124	2.5	1872.010	-0.27945	0.274	98.1	ug/L
	Kr	83	1786.543	1.4	1902.236				mg/L
	Y	89	402361.179	1.4	408188.389				ug/L
	Mo	95	691.369	8.0	112.002	0.10416	0.010	9.7	ug/L
	Mo	97	418.348	9.1	64.001	0.10481	0.012	11.2	ug/L
	Mo	98	987.235	5.8	98.282	0.10444	0.007	7.0	ug/L
	Rh	103	335318.663	0.5	340052.119				ug/L
	Ag	107	97.335	21.1	91.335	0.00027	0.002	577.2	ug/L
	Ag	109	74.668	7.7	75.668	-0.00023	0.000	211.9	ug/L
	Cd	111	252.374	9.1	218.275	0.00908	0.007	77.2	ug/L
	Cd	114	143.319	5.0	58.957	0.01195	0.001	9.0	ug/L
>	In	115	367830.766	0.8	358352.924				ug/L
	Sb	121	617.696	12.9	107.668	0.05304	0.009	16.1	ug/L
	Sb	123	506.508	12.0	79.665	0.05770	0.008	14.5	ug/L
	Ba	135	177.004	8.8	46.667	0.05352	0.007	12.4	ug/L
	Ba	137	277.341	5.6	47.001	0.05530	0.004	6.7	ug/L
>	Tb	159	406452.090	1.0	411268.087				ug/L
>	Ho	165	384316.180	1.3	390096.908				ug/L
	Tl	203	68.334	8.1	60.001	0.00119	0.001	68.0	ug/L
	Tl	205	130.669	12.6	78.001	0.00312	0.001	32.2	ug/L
	Pb	208	1121.707	1.2	320.672	0.03240	0.001	3.4	ug/L

Pb	206	286.341	4.8	87.335	0.03063	0.003	8.4	ug/L
Pb	207	254.006	3.8	77.001	0.03261	0.002	6.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.356			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.977			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.645			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.829			
>	Ho	165		98.518			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948957 D.100

Sample Date/Time: Monday, November 13, 2006 19:47:22
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948957 D.100.062

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.001	15.5	63.001	-0.00269	0.008	296.3	ug/L
	Al	27	24100.039	0.2	2334.350	3.22857	0.072	2.2	ug/L
>	Sc	45	375709.417	2.1	381869.082				ug/L
	V	51	4597.466	1.6	4488.603	0.01125	0.002	16.6	ug/L
	Cr	52	15408.387	1.0	15368.650	0.02059	0.013	61.1	ug/L
	Cr	53	747.708	1.0	814.381	-0.03000	0.013	44.0	ug/L
	Mn	55	1389733.879	0.7	494.020	67.94327	1.361	2.0	ug/L
	Co	59	3006.906	1.0	188.671	0.15803	0.001	0.9	ug/L
	Ni	60	750.041	3.4	136.669	0.15298	0.006	3.7	ug/L
	Ni	62	219.338	3.0	143.669	0.12467	0.013	10.5	ug/L
	Cu	63	524.022	4.7	212.338	0.03385	0.003	8.3	ug/L
	Cu	65	268.007	2.0	189.671	0.01726	0.002	12.7	ug/L
	Zn	66	154871.994	1.7	1515.486	59.05946	0.612	1.0	ug/L
	Zn	67	23847.648	1.2	342.344	52.13054	1.582	3.0	ug/L
	Zn	68	109322.638	1.7	1170.427	56.72888	2.039	3.6	ug/L
>	Ge	72	247465.842	1.8	244883.968				ug/L
	As	75	7346.310	0.5	124.002	2.24559	0.053	2.4	ug/L
	Se	77	215.336	4.1	216.736	-0.01504	0.043	288.9	ug/L
	Se	78	16152.919	2.0	16119.238	-0.16633	0.721	433.5	mg/L
	Se	82	1762.853	0.7	1872.010	-0.39923	0.069	17.2	ug/L
	Kr	83	1750.535	1.8	1902.236				mg/L
	Y	89	403477.559	0.9	408188.389				ug/L
	Mo	95	1778.541	3.2	112.002	0.29629	0.015	5.1	ug/L
	Mo	97	1081.748	1.1	64.001	0.29744	0.002	0.8	ug/L
	Mo	98	2710.785	1.5	98.282	0.30305	0.003	1.1	ug/L
	Rh	103	337259.601	0.2	340052.119				ug/L
	Ag	107	71.334	5.3	91.335	-0.00171	0.000	19.4	ug/L
	Ag	109	53.667	5.4	75.668	-0.00193	0.000	10.2	ug/L
	Cd	111	245.681	11.5	218.275	0.00582	0.008	143.2	ug/L
	Cd	114	133.788	7.6	58.957	0.01031	0.002	14.7	ug/L
>	In	115	372996.657	1.7	358352.924				ug/L
	Sb	121	337.677	4.9	107.668	0.02326	0.002	7.0	ug/L
	Sb	123	262.259	9.4	79.665	0.02399	0.003	11.7	ug/L
	Ba	135	652.032	5.1	46.667	0.24877	0.011	4.6	ug/L
	Ba	137	1138.089	1.1	47.001	0.26266	0.003	1.3	ug/L
>	Tb	159	404694.059	1.1	411268.087				ug/L
>	Ho	165	394223.176	0.4	390096.908				ug/L
	Tl	203	91.668	12.6	60.001	0.00387	0.001	38.3	ug/L
	Tl	205	149.670	5.7	78.001	0.00400	0.001	12.5	ug/L
	Pb	208	1158.710	0.7	320.672	0.03271	0.000	0.9	ug/L

|	Pb	206	297.008	1.8	87.335	0.03111	0.001	3.0 ug/L
L	Pb	207	255.006	6.9	77.001	0.03161	0.003	9.9 ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.387			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.054			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.086			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.402			
>	Ho	165		101.058			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948958

Sample Date/Time: Monday, November 13, 2006 19:53:20
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948958.063

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57.667	23.7	63.001	-0.01116	0.011	94.3	ug/L
	Al	27	30200.261	0.8	2334.350	3.50128	0.048	1.4	ug/L
>	Sc	45	437334.376	2.0	381869.082				ug/L
	V	51	6589.483	2.2	4488.603	0.07720	0.009	12.2	ug/L
	Cr	52	29541.901	0.8	15368.650	0.72857	0.032	4.4	ug/L
	Cr	53	1831.553	1.9	814.381	0.43545	0.003	0.8	ug/L
	Mn	55	336282.594	2.3	494.020	14.92675	0.225	1.5	ug/L
	Co	59	1138.090	9.0	188.671	0.04741	0.006	12.2	ug/L
	Ni	60	1987.590	0.3	136.669	0.41733	0.006	1.5	ug/L
	Ni	62	436.349	3.9	143.669	0.42258	0.018	4.3	ug/L
	Cu	63	5803.412	1.7	212.338	0.55360	0.005	0.9	ug/L
	Cu	65	2840.846	3.4	189.671	0.53974	0.014	2.6	ug/L
	Zn	66	12637.370	1.8	1515.486	3.83624	0.086	2.2	ug/L
	Zn	67	1955.582	1.2	342.344	3.17597	0.001	0.0	ug/L
	Zn	68	8903.511	2.1	1170.427	3.62489	0.041	1.1	ug/L
>	Ge	72	272137.906	1.2	244883.968				ug/L
	As	75	2299.007	2.1	124.002	0.61095	0.008	1.4	ug/L
	Se	77	255.004	3.9	216.736	0.05342	0.029	53.9	ug/L
	Se	78	18318.689	1.7	16119.238	0.47586	0.569	119.6	mg/L
	Se	82	1931.024	2.2	1872.010	-0.42114	0.123	29.2	ug/L
	Kr	83	1961.250	2.3	1902.236				mg/L
	Y	89	468553.755	4.2	408188.389				ug/L
	Mo	95	971.733	8.6	112.002	0.14252	0.016	11.5	ug/L
	Mo	97	551.691	11.2	64.001	0.13294	0.019	14.4	ug/L
	Mo	98	1386.702	10.8	98.282	0.14008	0.019	13.5	ug/L
	Rh	103	371327.351	0.8	340052.119				ug/L
	Ag	107	422.015	3.2	91.335	0.02191	0.001	5.8	ug/L
	Ag	109	420.015	5.1	75.668	0.02440	0.001	5.1	ug/L
	Cd	111	270.391	6.6	218.275	0.00869	0.004	47.0	ug/L
	Cd	114	115.931	52.4	58.957	0.00673	0.008	118.2	ug/L
>	In	115	395901.021	1.6	358352.924				ug/L
	Sb	121	519.021	9.8	107.668	0.03891	0.006	14.4	ug/L
	Sb	123	402.495	3.3	79.665	0.03971	0.002	6.3	ug/L
	Ba	135	1704.525	1.3	46.667	0.62940	0.010	1.6	ug/L
	Ba	137	2806.167	2.3	47.001	0.61423	0.016	2.7	ug/L
>	Tb	159	436862.138	0.4	411268.087				ug/L
>	Ho	165	428751.615	0.3	390096.908				ug/L
	Tl	203	47.001	14.7	60.001	-0.00217	0.001	35.8	ug/L
	Tl	205	64.668	9.8	78.001	-0.00109	0.000	30.6	ug/L
	Pb	208	2569.845	3.8	320.672	0.07991	0.003	4.4	ug/L

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Pb	206	678.368	3.8	87.335	0.07979	0.003	4.4	ug/L
Pb	207	560.691	5.0	77.001	0.07809	0.005	5.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		114.525			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.129			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		110.478			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		106.223			
>	Ho	165		109.909			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 13, 2006 19:59:17
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 3.064

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1233.104	0.4	63.001	1.05661	0.011	1.0	ug/L
	Al	27	76900.346	1.6	2334.350	11.08743	0.262	2.4	ug/L
>	Sc	45	374311.176	0.8	381869.082				ug/L
	V	51	22171.553	1.8	4488.603	1.10518	0.015	1.4	ug/L
	Cr	52	32108.395	0.9	15368.650	1.21436	0.012	1.0	ug/L
	Cr	53	2703.466	1.3	814.381	1.07825	0.010	0.9	ug/L
	Mn	55	22882.610	2.0	494.020	1.09459	0.034	3.1	ug/L
	Co	59	19004.171	1.5	188.671	1.05557	0.018	1.7	ug/L
	Ni	60	4439.227	1.4	136.669	1.07521	0.023	2.2	ug/L
	Ni	62	765.710	3.1	143.669	1.04279	0.055	5.2	ug/L
	Cu	63	9830.226	0.8	212.338	1.05149	0.018	1.7	ug/L
	Cu	65	4858.799	2.7	189.671	1.05342	0.032	3.0	ug/L
	Zn	66	17743.715	0.6	1515.486	6.24395	0.114	1.8	ug/L
	Zn	67	2855.184	1.5	342.344	5.56300	0.041	0.7	ug/L
	Zn	68	13037.989	1.1	1170.427	6.21578	0.049	0.8	ug/L
>	Ge	72	247491.061	1.1	244883.968				ug/L
	As	75	3381.720	0.4	124.002	1.01239	0.015	1.5	ug/L
	Se	77	445.879	1.5	216.736	0.94476	0.030	3.2	ug/L
	Se	78	17196.810	1.1	16119.238	1.16065	0.326	28.1	mg/L
	Se	82	2099.798	0.9	1872.010	0.64527	0.049	7.6	ug/L
	Kr	83	1823.218	2.6	1902.236				mg/L
	Y	89	410328.826	0.3	408188.389				ug/L
	Mo	95	5814.420	2.2	112.002	1.02248	0.025	2.4	ug/L
	Mo	97	3565.465	1.6	64.001	1.03237	0.018	1.8	ug/L
	Mo	98	9064.926	1.1	98.282	1.04850	0.009	0.8	ug/L
	Rh	103	341472.298	1.7	340052.119				ug/L
	Ag	107	15053.735	0.4	91.335	1.09011	0.008	0.8	ug/L
	Ag	109	13948.470	0.6	75.668	1.07564	0.005	0.4	ug/L
	Cd	111	3558.818	2.7	218.275	1.06347	0.034	3.2	ug/L
	Cd	114	7382.686	2.1	58.957	1.04932	0.025	2.4	ug/L
>	In	115	370431.373	0.4	358352.924				ug/L
	Sb	121	10306.807	1.6	107.668	1.05835	0.018	1.7	ug/L
	Sb	123	7911.799	1.5	79.665	1.05597	0.016	1.5	ug/L
	Ba	135	2541.413	0.9	46.667	1.00488	0.016	1.6	ug/L
	Ba	137	4540.616	1.7	47.001	1.06050	0.012	1.2	ug/L
>	Tb	159	412474.631	1.0	411268.087				ug/L
>	Ho	165	393479.867	1.1	390096.908				ug/L
	Tl	203	8676.602	0.6	60.001	1.07621	0.011	1.0	ug/L
	Tl	205	19980.124	0.7	78.001	1.12501	0.017	1.6	ug/L
	Pb	208	28267.624	1.1	320.672	1.09728	0.001	0.1	ug/L

Pb	206	7231.876	1.3	87.335	1.06649	0.017	1.6	ug/L
Pb	207	6165.342	2.1	77.001	1.08805	0.016	1.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	105.661				
	Al	27	110.874				
>	Sc	45		98.021			
	V	51	110.518				
	Cr	52	121.436				
	Cr	53	107.825				
	Mn	55	109.459				
	Co	59	105.557				
	Ni	60	107.521				
	Ni	62	104.279				
	Cu	63	105.149				
	Cu	65	105.342				
	Zn	66	124.879				
	Zn	67	111.260				
	Zn	68	124.316				
>	Ge	72		101.065			
	As	75	101.239				
	Se	77	94.476				
	Se	78	116.065				
	Se	82	64.527				
	Kr	83					
	Y	89					
	Mo	95	102.248				
	Mo	97	103.237				
	Mo	98	104.850				
	Rh	103					
	Ag	107	109.011				
	Ag	109	107.564				
	Cd	111	106.347				
	Cd	114	104.932				
>	In	115		103.371			
	Sb	121	105.835				
	Sb	123	105.597				
	Ba	135	100.488				
	Ba	137	106.050				
>	Tb	159		100.293			
>	Ho	165		100.867			
	Tl	203	107.621				
	Tl	205	112.501				
	Pb	208	109.728				
	Pb	206	106.649				
	Pb	207	108.805				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 20:05:15
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.065

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56421.937	1.0	63.001	50.59481	1.512	3.0	ug/L
	Al	27	342213.484	2.1	2334.350	50.26551	1.774	3.5	ug/L
>	Sc	45	376247.983	2.0	381869.082				ug/L
	V	51	837645.946	1.9	4488.603	51.57138	1.712	3.3	ug/L
	Cr	52	723203.313	1.0	15368.650	50.20485	1.327	2.6	ug/L
	Cr	53	88733.822	0.8	814.381	49.52732	1.313	2.7	ug/L
	Mn	55	1036280.076	2.2	494.020	50.96021	1.568	3.1	ug/L
	Co	59	890628.817	1.9	188.671	50.26013	0.527	1.0	ug/L
	Ni	60	194597.510	3.1	136.669	48.91405	1.887	3.9	ug/L
	Ni	62	29476.336	0.9	143.669	49.57821	0.455	0.9	ug/L
	Cu	63	468707.704	2.3	212.338	51.53546	0.714	1.4	ug/L
	Cu	65	222912.667	2.0	189.671	50.58411	1.476	2.9	ug/L
	Zn	66	137508.293	0.7	1515.486	52.68928	0.298	0.6	ug/L
	Zn	67	24049.561	0.9	342.344	52.88531	0.883	1.7	ug/L
	Zn	68	100456.755	2.4	1170.427	52.37974	1.580	3.0	ug/L
>	Ge	72	245988.254	1.2	244883.968				ug/L
	As	75	155181.329	1.6	124.002	48.49924	0.917	1.9	ug/L
	Se	77	12679.974	1.3	216.736	52.21843	0.537	1.0	ug/L
	Se	78	55747.169	2.2	16119.238	50.92723	1.982	3.9	mg/L
	Se	82	18420.670	0.3	1872.010	51.65272	0.849	1.6	ug/L
	Kr	83	1750.201	3.8	1902.236				mg/L
	Y	89	409827.276	1.4	408188.389				ug/L
	Mo	95	272174.434	0.6	112.002	49.33982	0.839	1.7	ug/L
	Mo	97	164613.284	2.6	64.001	49.06607	1.382	2.8	ug/L
	Mo	98	433288.127	1.7	98.282	51.22865	1.647	3.2	ug/L
	Rh	103	329815.926	0.8	340052.119				ug/L
	Ag	107	682383.129	2.3	91.335	50.24169	0.041	0.1	ug/L
	Ag	109	658655.950	0.7	75.668	51.62278	0.791	1.5	ug/L
	Cd	111	158875.878	1.1	218.275	51.15853	0.662	1.3	ug/L
	Cd	114	350413.864	0.5	58.957	50.75359	1.113	2.2	ug/L
>	In	115	366569.582	2.3	358352.924				ug/L
	Sb	121	474584.581	0.9	107.668	49.79366	1.509	3.0	ug/L
	Sb	123	360253.751	0.8	79.665	49.10637	1.241	2.5	ug/L
	Ba	135	123085.599	0.8	46.667	51.33723	0.461	0.9	ug/L
	Ba	137	206782.468	2.5	47.001	50.53808	0.857	1.7	ug/L
>	Tb	159	398197.008	0.9	411268.087				ug/L
>	Ho	165	387827.064	1.3	390096.908				ug/L
	Tl	203	395270.162	1.6	60.001	50.07998	0.204	0.4	ug/L
	Tl	205	909618.260	0.9	78.001	52.16730	1.011	1.9	ug/L
	Pb	208	1278838.814	1.3	320.672	50.93641	0.353	0.7	ug/L

Pb	206	333675.780	1.7	87.335	50.52211	0.308	0.6	ug/L
Pb	207	270282.135	3.3	77.001	48.99200	1.001	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	101.190				
	Al	27	100.531				
>	Sc	45		98.528			
	V	51	103.143				
	Cr	52	100.410				
	Cr	53	99.055				
	Mn	55	101.920				
	Co	59	100.520				
	Ni	60	97.828				
	Ni	62	99.156				
	Cu	63	103.071				
	Cu	65	101.168				
	Zn	66	105.379				
	Zn	67	105.771				
	Zn	68	104.759				
>	Ge	72		100.451			
	As	75	96.998				
	Se	77	104.437				
	Se	78	101.854				
	Se	82	103.305				
	Kr	83					
	Y	89					
	Mo	95	98.680				
	Mo	97	98.132				
	Mo	98	102.457				
	Rh	103					
	Ag	107	100.483				
	Ag	109	103.246				
	Cd	111	102.317				
	Cd	114	101.507				
>	In	115		102.293			
	Sb	121	99.587				
	Sb	123	98.213				
	Ba	135	102.674				
	Ba	137	101.076				
>	Tb	159		96.822			
>	Ho	165		99.418			
	Tl	203	100.160				
	Tl	205	104.335				
	Pb	208	101.873				
	Pb	206	101.044				
	Pb	207	97.984				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 20:11:13
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.066

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.668	4.1	63.001	0.00062	0.001	149.5	ug/L
	Al	27	2560.752	1.0	2334.350	0.04550	0.008	18.2	ug/L
>	Sc	45	369584.386	2.6	381869.082				ug/L
	V	51	4764.278	4.3	4488.603	0.02679	0.020	75.8	ug/L
	Cr	52	15893.312	3.4	15368.650	0.07426	0.057	76.4	ug/L
	Cr	53	689.369	5.4	814.381	-0.05614	0.031	54.4	ug/L
	Mn	55	496.020	2.4	494.020	0.00015	0.000	131.4	ug/L
	Co	59	139.336	18.1	188.671	-0.00279	0.001	46.4	ug/L
	Ni	60	140.336	9.5	136.669	0.00100	0.003	331.4	ug/L
	Ni	62	133.336	9.6	143.669	-0.01679	0.025	150.8	ug/L
	Cu	63	219.672	3.1	212.338	0.00088	0.001	130.2	ug/L
	Cu	65	176.670	10.7	189.671	-0.00282	0.005	174.7	ug/L
	Zn	66	1522.488	1.2	1515.486	0.00420	0.015	365.9	ug/L
	Zn	67	305.009	2.9	342.344	-0.08219	0.013	15.4	ug/L
	Zn	68	1217.434	1.9	1170.427	0.02658	0.022	83.7	ug/L
>	Ge	72	244339.365	1.6	244883.968				ug/L
	As	75	172.670	4.2	124.002	0.01540	0.002	9.9	ug/L
	Se	77	227.136	5.2	216.736	0.04611	0.053	115.8	ug/L
	Se	78	16181.180	1.1	16119.238	0.13059	0.430	328.9	mg/L
	Se	82	1814.798	1.0	1872.010	-0.16522	0.144	87.1	ug/L
	Kr	83	1787.543	2.4	1902.236				mg/L
	Y	89	402323.243	1.1	408188.389				ug/L
	Mo	95	844.719	19.1	112.002	0.13366	0.031	23.4	ug/L
	Mo	97	496.687	23.7	64.001	0.12986	0.037	28.8	ug/L
	Mo	98	1221.676	18.1	98.282	0.13372	0.028	21.0	ug/L
	Rh	103	339132.009	3.0	340052.119				ug/L
	Ag	107	179.004	8.4	91.335	0.00641	0.001	20.8	ug/L
	Ag	109	150.670	9.7	75.668	0.00583	0.001	21.9	ug/L
	Cd	111	204.829	6.4	218.275	-0.00544	0.005	97.4	ug/L
	Cd	114	47.918	20.2	58.957	-0.00173	0.002	87.9	ug/L
>	In	115	364058.474	1.6	358352.924				ug/L
	Sb	121	1417.470	15.7	107.668	0.13830	0.025	18.0	ug/L
	Sb	123	1063.010	13.4	79.665	0.13486	0.020	15.2	ug/L
	Ba	135	49.334	15.5	46.667	0.00109	0.003	261.5	ug/L
	Ba	137	50.334	16.1	47.001	0.00080	0.002	229.9	ug/L
>	Tb	159	410514.100	1.7	411268.087				ug/L
>	Ho	165	385764.807	0.5	390096.908				ug/L
	Tl	203	83.001	6.3	60.001	0.00301	0.001	21.5	ug/L
	Tl	205	150.670	8.8	78.001	0.00424	0.001	18.2	ug/L
	Pb	208	446.676	4.8	320.672	0.00519	0.001	15.2	ug/L

Pb	206	120.335	7.1	87.335	0.00518	0.001	26.1	ug/L
Pb	207	107.668	2.7	77.001	0.00575	0.001	10.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		96.783			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.778			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.592			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.817			
>	Ho	165		98.889			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950466

Sample Date/Time: Monday, November 13, 2006 20:17:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950466.067

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	78.668	10.2	63.001	0.00064	0.006	984.2	ug/L
	Al	27	600599.928	1.6	2334.350	70.47625	1.796	2.5	ug/L
>	Sc	45	471762.269	0.9	381869.082				ug/L
	V	51	11104.477	2.6	4488.603	0.27431	0.013	4.6	ug/L
	Cr	52	47936.709	3.0	15368.650	1.63672	0.085	5.2	ug/L
	Cr	53	4287.813	2.3	814.381	1.47395	0.056	3.8	ug/L
	Mn	55	1305413.404	1.9	494.020	60.87653	1.301	2.1	ug/L
	Co	59	5296.737	3.2	188.671	0.27287	0.010	3.6	ug/L
	Ni	60	22096.479	1.0	136.669	5.23547	0.040	0.8	ug/L
	Ni	62	2321.680	2.4	143.669	3.47746	0.080	2.3	ug/L
	Cu	63	14813.303	1.0	212.338	1.52207	0.020	1.3	ug/L
	Cu	65	7441.397	2.7	189.671	1.55920	0.039	2.5	ug/L
	Zn	66	9803.528	0.5	1515.486	3.01253	0.023	0.8	ug/L
	Zn	67	1964.585	4.2	342.344	3.38882	0.165	4.9	ug/L
	Zn	68	9507.850	1.8	1170.427	4.13657	0.094	2.3	ug/L
>	Ge	72	259372.495	0.2	244883.968				ug/L
	As	75	1130.755	1.4	124.002	0.29645	0.006	1.9	ug/L
	Se	77	364.475	1.4	216.736	0.53615	0.022	4.2	ug/L
	Se	78	18188.415	0.4	16119.238	1.36183	0.088	6.5	mg/L
	Se	82	1997.239	0.9	1872.010	0.04296	0.066	153.3	ug/L
	Kr	83	1894.901	1.8	1902.236				mg/L
	Y	89	449765.691	2.1	408188.389				ug/L
	Mo	95	3130.954	6.1	112.002	0.54298	0.026	4.8	ug/L
	Mo	97	2016.265	6.6	64.001	0.57740	0.031	5.3	ug/L
	Mo	98	4829.953	7.6	98.282	0.55508	0.036	6.5	ug/L
	Rh	103	343915.383	1.8	340052.119				ug/L
	Ag	107	109.002	7.3	91.335	0.00109	0.000	42.3	ug/L
	Ag	109	95.668	11.2	75.668	0.00139	0.001	66.7	ug/L
	Cd	111	385.781	5.4	218.275	0.05159	0.007	12.7	ug/L
	Cd	114	274.272	26.4	58.957	0.03065	0.010	32.2	ug/L
>	In	115	368956.891	1.5	358352.924				ug/L
	Sb	121	1454.477	14.3	107.668	0.13985	0.019	13.8	ug/L
	Sb	123	1077.017	10.4	79.665	0.13462	0.013	9.8	ug/L
	Ba	135	41055.963	0.1	46.667	16.22356	0.202	1.2	ug/L
	Ba	137	70974.058	1.7	47.001	16.44346	0.466	2.8	ug/L
>	Tb	159	419987.198	1.2	411268.087				ug/L
>	Ho	165	396341.437	2.0	390096.908				ug/L
	Tl	203	283.674	4.0	60.001	0.02761	0.001	2.8	ug/L
	Tl	205	626.697	1.9	78.001	0.03073	0.001	3.7	ug/L
	Pb	208	3737.366	0.7	320.672	0.13304	0.003	2.5	ug/L

Pb	206	959.398	1.7	87.335	0.12910	0.005	4.0	ug/L
Pb	207	800.380	1.3	77.001	0.12815	0.001	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		123.540			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.916			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.959			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.120			
>	Ho	165		101.601			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950467

Sample Date/Time: Monday, November 13, 2006 20:23:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950467.068

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	81.668	5.1	63.001	0.00758	0.004	47.9	ug/L
	Al	27	127679.988	0.6	2334.350	15.95663	0.378	2.4	ug/L
>	Sc	45	435907.768	2.5	381869.082				ug/L
	V	51	11002.250	4.7	4488.603	0.31379	0.017	5.5	ug/L
	Cr	52	76336.497	1.1	15368.650	3.59810	0.066	1.8	ug/L
	Cr	53	7693.961	1.5	814.381	3.28877	0.096	2.9	ug/L
	Mn	55	9398338.886	2.0	494.020	427.10051	9.429	2.2	ug/L
	Co	59	25694.828	2.7	188.671	1.32921	0.031	2.4	ug/L
	Ni	60	34575.277	2.1	136.669	7.99910	0.195	2.4	ug/L
	Ni	62	3041.253	4.2	143.669	4.50554	0.214	4.7	ug/L
	Cu	63	28706.991	1.8	212.338	2.89418	0.050	1.7	ug/L
	Cu	65	15402.728	4.5	189.671	3.18773	0.133	4.2	ug/L
	Zn	66	8987.936	2.4	1515.486	2.62744	0.075	2.9	ug/L
	Zn	67	3044.587	3.6	342.344	5.50701	0.210	3.8	ug/L
	Zn	68	12026.793	0.4	1170.427	5.24117	0.026	0.5	ug/L
>	Ge	72	266253.221	0.4	244883.968				ug/L
	As	75	2336.351	4.0	124.002	0.63608	0.025	3.9	ug/L
	Se	77	450.412	3.0	216.736	0.83128	0.047	5.7	ug/L
	Se	78	18606.450	0.3	16119.238	1.28522	0.072	5.6	mg/L
	Se	82	2954.324	0.9	1872.010	2.65101	0.078	3.0	ug/L
	Kr	83	1946.247	3.1	1902.236				mg/L
	Y	89	451074.797	0.9	408188.389				ug/L
	Mo	95	12096.562	1.1	112.002	2.17154	0.013	0.6	ug/L
	Mo	97	7581.523	1.5	64.001	2.24009	0.053	2.4	ug/L
	Mo	98	18245.803	2.9	98.282	2.14417	0.065	3.0	ug/L
	Rh	103	335656.548	1.0	340052.119				ug/L
	Ag	107	126.336	18.8	91.335	0.00241	0.002	70.4	ug/L
	Ag	109	90.668	13.3	75.668	0.00103	0.001	82.1	ug/L
	Cd	111	353.478	5.5	218.275	0.04190	0.005	12.5	ug/L
	Cd	114	317.921	12.4	58.957	0.03724	0.005	13.9	ug/L
>	In	115	366742.209	1.6	358352.924				ug/L
	Sb	121	2036.269	4.1	107.668	0.20194	0.008	4.0	ug/L
	Sb	123	1558.140	2.2	79.665	0.20122	0.007	3.5	ug/L
	Ba	135	174560.811	0.8	46.667	70.89487	1.476	2.1	ug/L
	Ba	137	297996.002	1.6	47.001	70.92794	2.040	2.9	ug/L
>	Tb	159	409036.917	1.3	411268.087				ug/L
>	Ho	165	386717.333	0.8	390096.908				ug/L
	Tl	203	1678.853	4.4	60.001	0.20585	0.011	5.3	ug/L
	Tl	205	3839.256	1.2	78.001	0.21636	0.003	1.2	ug/L
	Pb	208	2777.206	2.4	320.672	0.09826	0.003	2.6	ug/L

Pb	206	734.373	10.9	87.335	0.09837	0.012	12.0	ug/L
Pb	207	612.695	2.3	77.001	0.09754	0.002	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		114.151			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.726			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.341			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.457			
>	Ho	165		99.134			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950468

Sample Date/Time: Monday, November 13, 2006 20:29:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950468.069

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	88.001	9.7	63.001	0.01053	0.006	52.5	ug/L
	Al	27	87421.930	2.8	2334.350	10.50690	0.300	2.9	ug/L
>	Sc	45	448277.494	1.4	381869.082				ug/L
	V	51	12416.717	5.6	4488.603	0.37101	0.030	8.0	ug/L
	Cr	52	69794.424	0.5	15368.650	3.07925	0.037	1.2	ug/L
	Cr	53	7064.064	2.1	814.381	2.88692	0.079	2.7	ug/L
	Mn	55	10146697.195	1.2	494.020	451.93124	7.977	1.8	ug/L
	Co	59	28675.563	2.7	188.671	1.45481	0.033	2.3	ug/L
	Ni	60	36200.175	2.1	136.669	8.20835	0.160	1.9	ug/L
	Ni	62	3113.946	1.9	143.669	4.52183	0.102	2.3	ug/L
	Cu	63	40589.028	1.5	212.338	4.01942	0.036	0.9	ug/L
	Cu	65	21094.548	1.7	189.671	4.29390	0.072	1.7	ug/L
	Zn	66	10744.033	3.0	1515.486	3.17996	0.138	4.3	ug/L
	Zn	67	3279.345	2.2	342.344	5.85619	0.117	2.0	ug/L
	Zn	68	13207.262	3.0	1170.427	5.68765	0.158	2.8	ug/L
>	Ge	72	271671.084	0.7	244883.968				ug/L
	As	75	2423.377	3.9	124.002	0.64724	0.023	3.6	ug/L
	Se	77	446.679	2.1	216.736	0.78240	0.031	3.9	ug/L
	Se	78	19528.363	0.9	16119.238	1.91819	0.093	4.8	mg/L
	Se	82	2984.068	1.2	1872.010	2.56497	0.057	2.2	ug/L
	Kr	83	2029.934	1.5	1902.236				mg/L
	Y	89	461381.471	3.0	408188.389				ug/L
	Mo	95	12183.023	2.1	112.002	2.10470	0.026	1.2	ug/L
	Mo	97	7528.141	1.1	64.001	2.14022	0.024	1.1	ug/L
	Mo	98	18437.037	2.2	98.282	2.08518	0.022	1.0	ug/L
	Rh	103	352685.086	1.3	340052.119				ug/L
	Ag	107	127.669	9.5	91.335	0.00216	0.001	32.4	ug/L
	Ag	109	107.002	8.4	75.668	0.00201	0.001	41.3	ug/L
	Cd	111	363.627	10.4	218.275	0.04070	0.010	24.1	ug/L
	Cd	114	354.647	21.7	58.957	0.04083	0.012	28.7	ug/L
>	In	115	380968.738	1.9	358352.924				ug/L
	Sb	121	1966.585	2.9	107.668	0.18704	0.009	4.8	ug/L
	Sb	123	1461.461	1.8	79.665	0.18056	0.003	1.5	ug/L
	Ba	135	179566.835	0.5	46.667	70.48841	1.047	1.5	ug/L
	Ba	137	308401.768	1.0	47.001	70.94593	1.348	1.9	ug/L
>	Tb	159	423161.071	1.0	411268.087				ug/L
>	Ho	165	403794.532	0.0	390096.908				ug/L
	Tl	203	1681.186	1.8	60.001	0.19706	0.004	1.9	ug/L
	Tl	205	3918.961	2.3	78.001	0.21141	0.005	2.3	ug/L
	Pb	208	3828.714	0.6	320.672	0.13380	0.001	0.7	ug/L

Pb	206	1019.739	3.2	87.335	0.13519	0.005	3.5	ug/L
Pb	207	804.714	5.5	77.001	0.12628	0.008	6.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		117.390			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.939			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.311			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.892			
>	Ho	165		103.511			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950469

Sample Date/Time: Monday, November 13, 2006 20:35:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950469.070

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	87.335	16.1	63.001	0.00792	0.011	142.7	ug/L
	Al	27	28502.950	1.0	2334.350	3.07446	0.082	2.7	ug/L
>	Sc	45	464389.721	1.7	381869.082				ug/L
	V	51	2593.116	72.6	4488.603	-0.14383	0.093	64.8	ug/L
	Cr	52	179375.124	0.6	15368.650	9.22907	0.111	1.2	ug/L
	Cr	53	20074.018	1.0	814.381	8.70825	0.235	2.7	ug/L
	Mn	55	10012645.108	3.3	494.020	452.10623	20.528	4.5	ug/L
	Co	59	10840.825	2.5	188.671	0.55101	0.021	3.9	ug/L
	Ni	60	46602.775	1.9	136.669	10.71951	0.082	0.8	ug/L
	Ni	62	3979.323	1.0	143.669	5.92812	0.038	0.6	ug/L
	Cu	63	12880.078	2.1	212.338	1.27724	0.048	3.8	ug/L
	Cu	65	6618.694	1.4	189.671	1.33606	0.027	2.1	ug/L
	Zn	66	9844.243	0.2	1515.486	2.91074	0.061	2.1	ug/L
	Zn	67	5375.454	1.7	342.344	10.23637	0.141	1.4	ug/L
	Zn	68	21169.739	1.7	1170.427	9.62865	0.227	2.4	ug/L
>	Ge	72	268070.102	1.6	244883.968				ug/L
	As	75	36313.318	1.3	124.002	10.38315	0.042	0.4	ug/L
	Se	77	333.940	2.2	216.736	0.37201	0.038	10.1	ug/L
	Se	78	18869.702	0.7	16119.238	1.44913	0.325	22.4	mg/L
	Se	82	2088.928	0.4	1872.010	0.11450	0.080	69.6	ug/L
	Kr	83	2056.274	2.6	1902.236				mg/L
	Y	89	479649.399	2.8	408188.389				ug/L
	Mo	95	14073.350	1.9	112.002	2.35966	0.045	1.9	ug/L
	Mo	97	8852.121	0.9	64.001	2.44246	0.023	0.9	ug/L
	Mo	98	21568.803	1.4	98.282	2.36703	0.057	2.4	ug/L
	Rh	103	361477.409	0.1	340052.119				ug/L
	Ag	107	87.668	12.6	91.335	-0.00086	0.001	80.4	ug/L
	Ag	109	63.668	12.8	75.668	-0.00141	0.001	45.5	ug/L
	Cd	111	266.861	18.0	218.275	0.00820	0.014	168.7	ug/L
	Cd	114	23.408	351.8	58.957	-0.00557	0.011	200.2	ug/L
>	In	115	392945.786	1.0	358352.924				ug/L
	Sb	121	324.343	4.9	107.668	0.02018	0.001	6.1	ug/L
	Sb	123	243.869	6.6	79.665	0.01989	0.002	8.8	ug/L
	Ba	135	401896.540	1.0	46.667	151.35696	0.969	0.6	ug/L
	Ba	137	672738.193	1.8	47.001	148.47706	3.494	2.4	ug/L
>	Tb	159	441097.786	1.0	411268.087				ug/L
>	Ho	165	416340.932	1.0	390096.908				ug/L
	Tl	203	188.337	21.6	60.001	0.01465	0.005	31.3	ug/L
	Tl	205	419.015	11.4	78.001	0.01792	0.002	13.2	ug/L
	Pb	208	2490.170	2.2	320.672	0.07973	0.003	3.4	ug/L

Pb	206	644.031	2.2	87.335	0.07773	0.003	3.6	ug/L
Pb	207	538.689	1.7	77.001	0.07713	0.002	3.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		121.610			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		109.468			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.653			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		107.253			
>	Ho	165		106.728			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950470

Sample Date/Time: Monday, November 13, 2006 20:41:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950470.071

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	100.002	8.2	63.001	0.01301	0.005	40.6	ug/L
	Al	27	302099.680	3.9	2334.350	33.85874	1.199	3.5	ug/L
>	Sc	45	491257.313	0.9	381869.082				ug/L
	V	51	9100.228	4.1	4488.603	0.15756	0.016	10.2	ug/L
	Cr	52	88776.062	2.2	15368.650	3.74687	0.142	3.8	ug/L
	Cr	53	9451.453	1.9	814.381	3.62384	0.050	1.4	ug/L
	Mn	55	1811421.238	2.0	494.020	82.47318	2.416	2.9	ug/L
	Co	59	18409.164	1.3	188.671	0.95121	0.002	0.3	ug/L
	Ni	60	74544.702	1.2	136.669	17.32137	0.359	2.1	ug/L
	Ni	62	9091.716	2.5	143.669	13.98454	0.513	3.7	ug/L
	Cu	63	27150.766	1.1	212.338	2.74176	0.054	2.0	ug/L
	Cu	65	13497.396	2.8	189.671	2.79367	0.061	2.2	ug/L
	Zn	66	12863.051	2.1	1515.486	4.02319	0.038	0.9	ug/L
	Zn	67	2980.229	2.0	342.344	5.38798	0.179	3.3	ug/L
	Zn	68	13265.694	3.9	1170.427	5.85950	0.309	5.3	ug/L
>	Ge	72	265737.224	1.3	244883.968				ug/L
	As	75	1902.570	2.2	124.002	0.51203	0.019	3.7	ug/L
	Se	77	359.674	0.8	216.736	0.48299	0.023	4.7	ug/L
	Se	78	18598.378	0.9	16119.238	1.32231	0.459	34.7	mg/L
	Se	82	2114.668	1.1	1872.010	0.24138	0.109	45.2	ug/L
	Kr	83	1991.925	1.8	1902.236				mg/L
	Y	89	500951.147	1.1	408188.389				ug/L
	Mo	95	1281.445	1.5	112.002	0.19259	0.008	4.2	ug/L
	Mo	97	784.045	5.1	64.001	0.19520	0.015	7.5	ug/L
	Mo	98	1840.578	2.8	98.282	0.18784	0.005	2.9	ug/L
	Rh	103	354020.051	1.0	340052.119				ug/L
	Ag	107	152.336	3.6	91.335	0.00342	0.000	8.5	ug/L
	Ag	109	119.335	3.4	75.668	0.00252	0.000	17.2	ug/L
	Cd	111	639.989	6.5	218.275	0.11728	0.009	7.4	ug/L
	Cd	114	934.959	2.1	58.957	0.11554	0.001	0.7	ug/L
>	In	115	399398.703	2.3	358352.924				ug/L
	Sb	121	586.360	1.8	107.668	0.04491	0.001	2.8	ug/L
	Sb	123	436.260	4.4	79.665	0.04349	0.003	6.9	ug/L
	Ba	135	109261.506	1.7	46.667	40.95198	1.041	2.5	ug/L
	Ba	137	188689.609	0.8	47.001	41.44536	0.646	1.6	ug/L
>	Tb	159	443121.437	0.8	411268.087				ug/L
>	Ho	165	422125.187	2.1	390096.908				ug/L
	Tl	203	464.018	2.6	60.001	0.04647	0.001	2.2	ug/L
	Tl	205	1104.751	0.9	78.001	0.05378	0.002	2.9	ug/L
	Pb	208	3953.072	1.6	320.672	0.13205	0.005	3.7	ug/L

Pb	206	1030.407	3.5	87.335	0.13029	0.006	5.0	ug/L
Pb	207	840.384	2.5	77.001	0.12621	0.006	4.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		128.645			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.516			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		111.454			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		107.745			
>	Ho	165		108.210			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950471

Sample Date/Time: Monday, November 13, 2006 20:47:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950471.072

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	98.668	1.5	63.001	0.00985	0.002	21.6	ug/L
	Al	27	2173398.779	7.5	2334.350	237.39090	17.009	7.2	ug/L
>	Sc	45	508502.492	2.9	381869.082				ug/L
	V	51	16029.836	4.3	4488.603	0.46066	0.040	8.7	ug/L
	Cr	52	152723.231	1.8	15368.650	6.94189	0.313	4.5	ug/L
	Cr	53	17147.131	1.7	814.381	6.69525	0.206	3.1	ug/L
	Mn	55	1186031.099	0.4	494.020	53.23158	0.708	1.3	ug/L
	Co	59	23439.152	0.6	188.671	1.19701	0.011	0.9	ug/L
	Ni	60	85547.144	1.9	136.669	19.60620	0.573	2.9	ug/L
	Ni	62	13043.333	1.9	143.669	19.88253	0.599	3.0	ug/L
	Cu	63	17930.121	2.3	212.338	1.77733	0.058	3.3	ug/L
	Cu	65	8428.679	1.4	189.671	1.70373	0.019	1.1	ug/L
	Zn	66	17865.979	1.5	1515.486	5.72840	0.065	1.1	ug/L
	Zn	67	3257.002	0.7	342.344	5.86463	0.040	0.7	ug/L
	Zn	68	14726.822	2.8	1170.427	6.47100	0.204	3.1	ug/L
>	Ge	72	269495.623	1.1	244883.968				ug/L
	As	75	2578.425	1.7	124.002	0.69721	0.017	2.4	ug/L
	Se	77	345.607	3.8	216.736	0.40979	0.057	13.9	ug/L
	Se	78	18709.224	0.6	16119.238	1.14071	0.184	16.2	mg/L
	Se	82	2057.454	0.6	1872.010	-0.00741	0.049	666.4	ug/L
	Kr	83	1983.256	2.5	1902.236				mg/L
	Y	89	501866.953	2.0	408188.389				ug/L
	Mo	95	1298.781	3.3	112.002	0.18683	0.005	2.9	ug/L
	Mo	97	778.044	1.8	64.001	0.18503	0.005	2.9	ug/L
	Mo	98	1937.598	1.8	98.282	0.19006	0.003	1.7	ug/L
	Rh	103	370061.094	2.5	340052.119				ug/L
	Ag	107	96.335	1.6	91.335	-0.00062	0.000	22.3	ug/L
	Ag	109	63.334	20.0	75.668	-0.00169	0.001	51.7	ug/L
	Cd	111	608.397	7.0	218.275	0.10090	0.011	10.8	ug/L
	Cd	114	926.368	4.7	58.957	0.10958	0.006	5.7	ug/L
>	In	115	415758.109	0.9	358352.924				ug/L
	Sb	121	455.350	4.1	107.668	0.03057	0.002	6.2	ug/L
	Sb	123	347.243	4.1	79.665	0.03061	0.001	4.4	ug/L
	Ba	135	43019.854	0.5	46.667	15.87688	0.104	0.7	ug/L
	Ba	137	71279.941	0.8	47.001	15.42131	0.086	0.6	ug/L
>	Tb	159	449643.548	0.7	411268.087				ug/L
>	Ho	165	435818.398	0.7	390096.908				ug/L
	Tl	203	197.671	6.4	60.001	0.01473	0.001	9.5	ug/L
	Tl	205	380.012	2.1	78.001	0.01495	0.000	2.8	ug/L
	Pb	208	18458.221	1.2	320.672	0.64167	0.004	0.6	ug/L

Pb	206	4893.486	2.1	87.335	0.64643	0.016	2.5	ug/L
Pb	207	3780.895	0.5	77.001	0.59626	0.001	0.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		133.161			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.050			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		116.019			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		109.331			
>	Ho	165		111.721			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950472

Sample Date/Time: Monday, November 13, 2006 20:53:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950472.073

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	81.335	18.1	63.001	-0.00180	0.010	536.6	ug/L
	Al	27	615868.203	1.3	2334.350	66.88702	0.964	1.4	ug/L
>	Sc	45	509632.146	2.7	381869.082				ug/L
	V	51	14659.817	2.9	4488.603	0.39606	0.014	3.4	ug/L
	Cr	52	41335.717	2.4	15368.650	1.09010	0.038	3.5	ug/L
	Cr	53	3724.870	2.2	814.381	1.09716	0.046	4.2	ug/L
	Mn	55	1563652.061	1.6	494.020	67.95447	0.278	0.4	ug/L
	Co	59	18007.616	0.7	188.671	0.88780	0.014	1.6	ug/L
	Ni	60	53038.875	2.9	136.669	11.75604	0.398	3.4	ug/L
	Ni	62	6479.583	1.0	143.669	9.43698	0.196	2.1	ug/L
	Cu	63	16216.266	2.8	212.338	1.55348	0.052	3.3	ug/L
	Cu	65	8600.189	2.0	189.671	1.68324	0.056	3.3	ug/L
	Zn	66	11783.778	1.5	1515.486	3.44612	0.098	2.8	ug/L
	Zn	67	2136.962	5.0	342.344	3.44611	0.208	6.0	ug/L
	Zn	68	9852.931	5.3	1170.427	3.97198	0.183	4.6	ug/L
>	Ge	72	278318.616	1.4	244883.968				ug/L
	As	75	3901.619	2.5	124.002	1.03945	0.013	1.2	ug/L
	Se	77	627.290	1.4	216.736	1.41114	0.048	3.4	ug/L
	Se	78	19871.219	2.5	16119.238	1.77114	0.805	45.5	mg/L
	Se	82	2439.290	0.7	1872.010	0.86120	0.120	13.9	ug/L
	Kr	83	1995.926	3.1	1902.236				mg/L
	Y	89	503394.988	1.3	408188.389				ug/L
	Mo	95	3986.994	1.6	112.002	0.60690	0.011	1.8	ug/L
	Mo	97	2432.713	2.7	64.001	0.61015	0.014	2.3	ug/L
	Mo	98	6044.312	1.6	98.282	0.60849	0.009	1.5	ug/L
	Rh	103	373491.182	0.7	340052.119				ug/L
	Ag	107	135.669	7.9	91.335	0.00179	0.001	36.5	ug/L
	Ag	109	86.001	6.2	75.668	-0.00021	0.000	154.6	ug/L
	Cd	111	517.329	2.0	218.275	0.07284	0.003	4.7	ug/L
	Cd	114	597.483	4.8	58.957	0.06638	0.003	5.0	ug/L
>	In	115	422180.828	0.5	358352.924				ug/L
	Sb	121	587.027	3.7	107.668	0.04192	0.002	5.1	ug/L
	Sb	123	426.612	2.1	79.665	0.03938	0.001	2.7	ug/L
	Ba	135	38494.437	1.6	46.667	13.85001	0.210	1.5	ug/L
	Ba	137	65104.007	1.5	47.001	13.73306	0.206	1.5	ug/L
>	Tb	159	461132.054	0.5	411268.087				ug/L
>	Ho	165	451200.501	1.0	390096.908				ug/L
	Tl	203	317.009	6.3	60.001	0.02698	0.002	8.7	ug/L
	Tl	205	684.035	2.1	78.001	0.02928	0.001	3.4	ug/L
	Pb	208	10884.884	1.4	320.672	0.36003	0.001	0.4	ug/L

Pb	206	2912.872	1.1	87.335	0.36606	0.002	0.5	ug/L
Pb	207	2256.661	1.8	77.001	0.33793	0.010	2.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		133.457			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		113.653			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		117.811			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		112.124			
>	Ho	165		115.664			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950473

Sample Date/Time: Monday, November 13, 2006 20:59:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950473.074

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	66.001	25.8	63.001	-0.01175	0.012	104.1	ug/L
	Al	27	65478.434	3.5	2334.350	6.81197	0.091	1.3	ug/L
>	Sc	45	509094.702	2.3	381869.082				ug/L
	V	51	9497.928	4.2	4488.603	0.16085	0.021	13.2	ug/L
	Cr	52	31356.196	0.4	15368.650	0.56996	0.044	7.8	ug/L
	Cr	53	2866.522	1.2	814.381	0.74161	0.038	5.2	ug/L
	Mn	55	6281972.873	1.6	494.020	267.99282	10.849	4.0	ug/L
	Co	59	7958.211	0.7	188.671	0.37881	0.009	2.5	ug/L
	Ni	60	15232.770	6.7	136.669	3.29125	0.314	9.5	ug/L
	Ni	62	714.371	0.9	143.669	0.80301	0.025	3.2	ug/L
	Cu	63	9036.656	2.7	212.338	0.83881	0.041	4.9	ug/L
	Cu	65	4571.299	1.2	189.671	0.85667	0.013	1.6	ug/L
	Zn	66	7623.562	1.0	1515.486	1.97108	0.044	2.3	ug/L
	Zn	67	1689.521	0.6	342.344	2.50136	0.109	4.3	ug/L
	Zn	68	8124.042	3.2	1170.427	3.09547	0.134	4.3	ug/L
>	Ge	72	283805.053	2.6	244883.968				ug/L
	As	75	1403.132	4.5	124.002	0.34129	0.008	2.3	ug/L
	Se	77	556.419	2.6	216.736	1.10973	0.084	7.6	ug/L
	Se	78	19865.705	1.5	16119.238	1.33775	0.921	68.8	mg/L
	Se	82	2320.190	1.1	1872.010	0.41025	0.159	38.7	ug/L
	Kr	83	2001.260	1.6	1902.236				mg/L
	Y	89	501859.402	2.1	408188.389				ug/L
	Mo	95	5419.483	1.7	112.002	0.82005	0.029	3.5	ug/L
	Mo	97	3458.419	3.7	64.001	0.86276	0.042	4.9	ug/L
	Mo	98	8508.787	1.1	98.282	0.84864	0.019	2.2	ug/L
	Rh	103	392142.860	1.5	340052.119				ug/L
	Ag	107	119.002	15.4	91.335	0.00062	0.001	191.1	ug/L
	Ag	109	93.335	7.9	75.668	0.00019	0.000	237.9	ug/L
	Cd	111	418.859	2.6	218.275	0.04351	0.001	2.1	ug/L
	Cd	114	348.428	43.4	58.957	0.03426	0.018	52.6	ug/L
>	In	115	428570.983	2.0	358352.924				ug/L
	Sb	121	1462.143	3.5	107.668	0.11961	0.003	2.2	ug/L
	Sb	123	1072.344	2.7	79.665	0.11394	0.005	4.1	ug/L
	Ba	135	60649.518	0.9	46.667	20.43035	0.142	0.7	ug/L
	Ba	137	103303.075	0.9	47.001	20.39820	0.167	0.8	ug/L
>	Tb	159	492743.612	0.6	411268.087				ug/L
>	Ho	165	460780.095	1.6	390096.908				ug/L
	Tl	203	329.343	4.1	60.001	0.02756	0.001	4.1	ug/L
	Tl	205	714.705	5.9	78.001	0.03004	0.002	5.7	ug/L
	Pb	208	2210.468	3.6	320.672	0.06145	0.004	5.8	ug/L

Pb	206	584.360	4.1	87.335	0.06138	0.004	6.9	ug/L
Pb	207	484.686	3.7	77.001	0.06014	0.004	6.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		133.317			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		115.894			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		119.595			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		119.811			
>	Ho	165		118.119			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950474

Sample Date/Time: Monday, November 13, 2006 21:05:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950474.075

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	75.668	2.0	63.001	-0.00736	0.001	15.2	ug/L
	Al	27	243194.821	2.8	2334.350	25.25800	0.892	3.5	ug/L
>	Sc	45	528466.594	0.7	381869.082				ug/L
	V	51	10407.816	5.0	4488.603	0.18495	0.026	14.0	ug/L
	Cr	52	58357.667	3.1	15368.650	1.87215	0.108	5.8	ug/L
	Cr	53	5907.819	0.9	814.381	1.91653	0.019	1.0	ug/L
	Mn	55	522231.635	0.7	494.020	22.65941	0.396	1.7	ug/L
	Co	59	5365.781	2.4	188.671	0.25678	0.009	3.5	ug/L
	Ni	60	27276.195	2.8	136.669	6.02236	0.180	3.0	ug/L
	Ni	62	3298.686	3.0	143.669	4.67811	0.101	2.1	ug/L
	Cu	63	13582.533	2.4	212.338	1.29585	0.031	2.4	ug/L
	Cu	65	6392.515	1.4	189.671	1.23837	0.012	0.9	ug/L
	Zn	66	9082.373	2.6	1515.486	2.51777	0.105	4.2	ug/L
	Zn	67	2082.615	4.6	342.344	3.33370	0.149	4.5	ug/L
	Zn	68	9895.973	2.0	1170.427	3.98978	0.137	3.4	ug/L
>	Ge	72	278601.957	1.0	244883.968				ug/L
	As	75	1423.136	3.4	124.002	0.35399	0.011	3.0	ug/L
	Se	77	421.211	3.1	216.736	0.64606	0.046	7.0	ug/L
	Se	78	19244.313	1.7	16119.238	1.03308	0.575	55.7	mg/L
	Se	82	2152.411	0.8	1872.010	0.06311	0.102	162.2	ug/L
	Kr	83	1965.918	2.0	1902.236				mg/L
	Y	89	508337.292	0.9	408188.389				ug/L
	Mo	95	2343.686	2.9	112.002	0.33865	0.016	4.7	ug/L
	Mo	97	1505.818	1.4	64.001	0.36022	0.015	4.2	ug/L
	Mo	98	3636.668	1.7	98.282	0.35157	0.004	1.1	ug/L
	Rh	103	389745.155	1.0	340052.119				ug/L
	Ag	107	85.335	1.8	91.335	-0.00156	0.000	13.7	ug/L
	Ag	109	64.334	7.7	75.668	-0.00181	0.000	11.5	ug/L
	Cd	111	363.246	0.7	218.275	0.02706	0.003	11.8	ug/L
	Cd	114	225.640	12.3	58.957	0.01885	0.003	14.5	ug/L
>	In	115	433664.548	2.8	358352.924				ug/L
	Sb	121	677.701	1.6	107.668	0.04855	0.001	1.5	ug/L
	Sb	123	485.579	7.3	79.665	0.04486	0.004	9.6	ug/L
	Ba	135	66066.588	2.1	46.667	22.87781	0.640	2.8	ug/L
	Ba	137	113956.697	0.7	47.001	23.13074	0.480	2.1	ug/L
>	Tb	159	479552.495	2.7	411268.087				ug/L
>	Ho	165	461862.897	2.2	390096.908				ug/L
	Tl	203	339.010	3.4	60.001	0.02852	0.001	4.4	ug/L
	Tl	205	749.041	3.7	78.001	0.03163	0.001	4.1	ug/L
	Pb	208	6875.837	1.4	320.672	0.21738	0.005	2.4	ug/L

Pb	206	1807.881	4.2	87.335	0.21683	0.010	4.8	ug/L
Pb	207	1473.812	1.6	77.001	0.21062	0.007	3.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		138.389			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		113.769			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		121.016			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		116.603			
>	Ho	165		118.397			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 21:10:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.076

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59198.473	1.4	63.001	49.89607	0.452	0.9	ug/L
	Al	27	400907.895	2.7	2334.350	55.38093	1.098	2.0	ug/L
>	Sc	45	400120.786	0.7	381869.082				ug/L
	V	51	879404.190	0.9	4488.603	50.88906	0.087	0.2	ug/L
	Cr	52	753430.784	3.4	15368.650	49.14069	1.463	3.0	ug/L
	Cr	53	89975.733	1.1	814.381	47.18597	0.219	0.5	ug/L
	Mn	55	1081857.109	2.3	494.020	54.22372	0.704	1.3	ug/L
	Co	59	896088.696	0.9	188.671	51.56514	1.184	2.3	ug/L
	Ni	60	204952.606	1.8	136.669	52.50849	0.438	0.8	ug/L
	Ni	62	29968.430	1.4	143.669	51.39608	0.726	1.4	ug/L
	Cu	63	488938.339	0.7	212.338	54.82019	1.072	2.0	ug/L
	Cu	65	236632.024	3.3	189.671	54.72499	1.094	2.0	ug/L
	Zn	66	135237.626	3.3	1515.486	52.81774	1.050	2.0	ug/L
	Zn	67	24244.794	0.7	342.344	54.37619	1.042	1.9	ug/L
	Zn	68	102229.634	3.1	1170.427	54.34906	1.072	2.0	ug/L
>	Ge	72	241295.428	1.5	244883.968				ug/L
	As	75	158122.379	0.9	124.002	50.37988	0.320	0.6	ug/L
	Se	77	12822.391	0.9	216.736	53.86862	1.107	2.1	ug/L
	Se	78	57771.490	3.0	16119.238	54.96030	1.432	2.6	mg/L
	Se	82	18806.999	0.5	1872.010	54.00546	1.156	2.1	ug/L
	Kr	83	1832.553	4.7	1902.236				mg/L
	Y	89	421934.243	1.1	408188.389				ug/L
	Mo	95	283194.229	1.7	112.002	49.19359	0.658	1.3	ug/L
	Mo	97	175075.004	1.6	64.001	50.01554	1.262	2.5	ug/L
	Mo	98	437319.322	0.6	98.282	49.54218	0.700	1.4	ug/L
	Rh	103	349596.342	2.0	340052.119				ug/L
	Ag	107	736867.060	1.4	91.335	52.00489	0.870	1.7	ug/L
	Ag	109	675792.283	0.3	75.668	50.75815	0.435	0.9	ug/L
	Cd	111	169022.019	0.8	218.275	52.16424	0.929	1.8	ug/L
	Cd	114	366304.312	0.8	58.957	50.84287	0.942	1.9	ug/L
>	In	115	382449.099	1.1	358352.924				ug/L
	Sb	121	490748.663	1.3	107.668	49.33680	1.088	2.2	ug/L
	Sb	123	383380.368	1.2	79.665	50.07146	0.302	0.6	ug/L
	Ba	135	131147.144	2.0	46.667	49.23969	0.149	0.3	ug/L
	Ba	137	225225.799	1.1	47.001	49.56657	0.862	1.7	ug/L
>	Tb	159	442345.424	2.2	411268.087				ug/L
>	Ho	165	414103.908	1.3	390096.908				ug/L
	Tl	203	419889.919	1.7	60.001	49.83498	1.366	2.7	ug/L
	Tl	205	952152.727	2.3	78.001	51.13967	1.357	2.7	ug/L
	Pb	208	1327567.604	1.4	320.672	49.52152	0.392	0.8	ug/L

Pb	206	339750.895	1.8	87.335	48.17691	0.339	0.7	ug/L
Pb	207	285119.653	2.0	77.001	48.41675	1.277	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	99.792				
	Al	27	110.762				
>	Sc	45		104.780			
	V	51	101.778				
	Cr	52	98.281				
	Cr	53	94.372				
	Mn	55	108.447				
	Co	59	103.130				
	Ni	60	105.017				
	Ni	62	102.792				
	Cu	63	109.640				
	Cu	65	109.450				
	Zn	66	105.635				
	Zn	67	108.752				
	Zn	68	108.698				
>	Ge	72		98.535			
	As	75	100.760				
	Se	77	107.737				
	Se	78	109.921				
	Se	82	108.011				
	Kr	83					
	Y	89					
	Mo	95	98.387				
	Mo	97	100.031				
	Mo	98	99.084				
	Rh	103					
	Ag	107	104.010				
	Ag	109	101.516				
	Cd	111	104.328				
	Cd	114	101.686				
>	In	115		106.724			
	Sb	121	98.674				
	Sb	123	100.143				
	Ba	135	98.479				
	Ba	137	99.133				
>	Tb	159		107.556			
>	Ho	165		106.154			
	Tl	203	99.670				
	Tl	205	102.279				
	Pb	208	99.043				
	Pb	206	96.354				
	Pb	207	96.834				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 21:16:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.077

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.334	14.1	63.001	-0.00372	0.006	164.0	ug/L
	Al	27	3007.906	1.7	2334.350	0.08110	0.017	20.7	ug/L
>	Sc	45	397626.560	3.6	381869.082				ug/L
	V	51	4934.896	0.6	4488.603	0.01549	0.009	56.1	ug/L
	Cr	52	16669.158	1.7	15368.650	0.04548	0.038	82.5	ug/L
	Cr	53	823.382	4.4	814.381	-0.01313	0.009	68.0	ug/L
	Mn	55	548.690	5.5	494.020	0.00272	0.001	33.0	ug/L
	Co	59	145.669	4.0	188.671	-0.00243	0.000	11.2	ug/L
	Ni	60	136.669	12.1	136.669	0.00001	0.004	67747.5	ug/L
	Ni	62	145.003	12.9	143.669	0.00258	0.032	1224.1	ug/L
	Cu	63	264.674	7.6	212.338	0.00580	0.002	27.3	ug/L
	Cu	65	236.672	5.7	189.671	0.01085	0.004	38.9	ug/L
	Zn	66	1554.827	1.0	1515.486	0.01639	0.019	113.3	ug/L
	Zn	67	339.344	1.4	342.344	-0.00552	0.016	285.4	ug/L
	Zn	68	1237.771	2.6	1170.427	0.03688	0.027	72.0	ug/L
>	Ge	72	244555.376	2.2	244883.968				ug/L
	As	75	184.337	9.6	124.002	0.01897	0.004	22.5	ug/L
	Se	77	247.337	1.8	216.736	0.13035	0.018	13.6	ug/L
	Se	78	16945.279	0.5	16119.238	1.10477	0.508	45.9	mg/L
	Se	82	1848.538	1.6	1872.010	-0.06388	0.164	256.7	ug/L
	Kr	83	1834.554	3.3	1902.236				mg/L
	Y	89	417326.168	1.4	408188.389				ug/L
	Mo	95	861.054	17.7	112.002	0.12703	0.027	21.4	ug/L
	Mo	97	519.022	16.5	64.001	0.12701	0.026	20.2	ug/L
	Mo	98	1255.347	25.3	98.282	0.12881	0.037	28.8	ug/L
	Rh	103	360538.280	0.8	340052.119				ug/L
	Ag	107	192.337	2.3	91.335	0.00652	0.001	10.2	ug/L
	Ag	109	159.003	11.8	75.668	0.00573	0.001	25.9	ug/L
	Cd	111	227.257	5.3	218.275	-0.00269	0.004	143.1	ug/L
	Cd	114	54.583	20.6	58.957	-0.00124	0.002	130.5	ug/L
>	In	115	387712.701	2.6	358352.924				ug/L
	Sb	121	1448.808	12.1	107.668	0.13240	0.020	14.9	ug/L
	Sb	123	1144.380	13.6	79.665	0.13655	0.022	15.8	ug/L
	Ba	135	53.667	9.6	46.667	0.00105	0.002	214.3	ug/L
	Ba	137	52.667	6.7	47.001	0.00030	0.001	241.8	ug/L
>	Tb	159	448703.982	1.8	411268.087				ug/L
>	Ho	165	416668.242	0.5	390096.908				ug/L
	Tl	203	85.335	8.0	60.001	0.00251	0.001	31.9	ug/L
	Tl	205	155.670	10.6	78.001	0.00386	0.001	22.6	ug/L
	Pb	208	464.676	2.0	320.672	0.00453	0.000	8.8	ug/L

Pb	206	129.669	12.5	87.335	0.00513	0.002	45.5	ug/L
Pb	207	113.669	8.0	77.001	0.00531	0.002	29.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		104.126			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.866			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.193			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		109.103			
>	Ho	165		106.811			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950475

Sample Date/Time: Monday, November 13, 2006 21:22:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950475.078

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	86.001	9.2	63.001	0.00046	0.005	1163.7	ug/L
	Al	27	649353.734	4.5	2334.350	69.51457	3.638	5.2	ug/L
>	Sc	45	517125.564	0.8	381869.082				ug/L
	V	51	12188.562	3.4	4488.603	0.27513	0.022	7.9	ug/L
	Cr	52	35730.147	2.1	15368.650	0.76933	0.034	4.4	ug/L
	Cr	53	3096.606	2.3	814.381	0.81680	0.029	3.5	ug/L
	Mn	55	9313926.459	1.4	494.020	414.12551	5.435	1.3	ug/L
	Co	59	27177.852	0.6	188.671	1.37616	0.021	1.5	ug/L
	Ni	60	53237.450	2.6	136.669	12.06682	0.232	1.9	ug/L
	Ni	62	5810.083	1.6	143.669	8.63353	0.181	2.1	ug/L
	Cu	63	233768.346	1.0	212.338	23.22576	0.446	1.9	ug/L
	Cu	65	114237.040	2.1	189.671	23.40808	0.640	2.7	ug/L
	Zn	66	480493.903	2.2	1515.486	167.71181	4.622	2.8	ug/L
	Zn	67	71327.726	1.7	342.344	143.07954	3.678	2.6	ug/L
	Zn	68	341980.973	0.8	1170.427	162.46073	2.271	1.4	ug/L
>	Ge	72	272126.741	1.0	244883.968				ug/L
	As	75	4525.607	1.5	124.002	1.24071	0.032	2.6	ug/L
	Se	77	642.158	2.5	216.736	1.51976	0.039	2.6	ug/L
	Se	78	19747.083	2.0	16119.238	2.13629	0.518	24.3	mg/L
	Se	82	2485.904	0.5	1872.010	1.14542	0.086	7.5	ug/L
	Kr	83	2078.280	3.9	1902.236				mg/L
	Y	89	499128.075	3.4	408188.389				ug/L
	Mo	95	9394.725	3.9	112.002	1.49482	0.033	2.2	ug/L
	Mo	97	5861.787	2.1	64.001	1.53571	0.013	0.8	ug/L
	Mo	98	14844.013	0.5	98.282	1.55018	0.035	2.2	ug/L
	Rh	103	376167.159	1.4	340052.119				ug/L
	Ag	107	336.677	6.9	91.335	0.01517	0.001	7.5	ug/L
	Ag	109	285.674	7.4	75.668	0.01386	0.002	11.0	ug/L
	Cd	111	587.501	1.4	218.275	0.09660	0.002	2.2	ug/L
	Cd	114	877.223	10.8	58.957	0.10442	0.014	13.0	ug/L
>	In	115	411886.623	1.7	358352.924				ug/L
	Sb	121	58281.351	0.9	107.668	5.43018	0.079	1.5	ug/L
	Sb	123	43799.822	0.8	79.665	5.30272	0.102	1.9	ug/L
	Ba	135	141033.289	1.4	46.667	49.46095	0.776	1.6	ug/L
	Ba	137	237066.857	0.7	47.001	48.72493	0.638	1.3	ug/L
>	Tb	159	473565.938	0.8	411268.087				ug/L
>	Ho	165	438276.807	2.7	390096.908				ug/L
	Tl	203	770.710	9.5	60.001	0.07876	0.006	7.4	ug/L
	Tl	205	1832.553	5.1	78.001	0.08851	0.002	2.5	ug/L
	Pb	208	51615.385	0.1	320.672	1.80788	0.052	2.9	ug/L

Pb	206	13156.509	0.9	87.335	1.75078	0.039	2.2	ug/L
Pb	207	10964.318	0.8	77.001	1.74670	0.063	3.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		135.420			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.125			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		114.939			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		115.148			
>	Ho	165		112.351			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950476

Sample Date/Time: Monday, November 13, 2006 21:28:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950476.079

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	83.001	10.7	63.001	0.00031	0.007	2093.2	ug/L
	Al	27	311458.793	3.2	2334.350	34.25826	1.172	3.4	ug/L
>	Sc	45	500729.362	1.5	381869.082				ug/L
	V	51	10993.543	3.2	4488.603	0.23771	0.024	10.1	ug/L
	Cr	52	31826.994	1.9	15368.650	0.62237	0.057	9.2	ug/L
	Cr	53	2825.841	2.1	814.381	0.74371	0.010	1.3	ug/L
	Mn	55	9100719.325	2.7	494.020	406.10563	14.150	3.5	ug/L
	Co	59	26250.554	2.0	188.671	1.33354	0.038	2.8	ug/L
	Ni	60	49024.648	2.1	136.669	11.14789	0.171	1.5	ug/L
	Ni	62	5178.995	2.5	143.669	7.69597	0.190	2.5	ug/L
	Cu	63	178878.529	1.5	212.338	17.82800	0.395	2.2	ug/L
	Cu	65	87633.112	2.6	189.671	18.00521	0.363	2.0	ug/L
	Zn	66	417680.086	0.9	1515.486	146.21373	2.561	1.8	ug/L
	Zn	67	62684.521	1.1	342.344	126.06441	0.303	0.2	ug/L
	Zn	68	297418.127	3.2	1170.427	141.67261	3.452	2.4	ug/L
>	Ge	72	271189.521	0.9	244883.968				ug/L
	As	75	4218.777	1.2	124.002	1.15786	0.004	0.4	ug/L
	Se	77	626.957	3.7	216.736	1.47065	0.088	6.0	ug/L
	Se	78	19432.785	0.5	16119.238	1.84832	0.225	12.2	mg/L
	Se	82	2485.971	1.8	1872.010	1.16902	0.066	5.6	ug/L
	Kr	83	2008.596	2.3	1902.236				mg/L
	Y	89	490023.519	1.8	408188.389				ug/L
	Mo	95	8629.887	1.6	112.002	1.39628	0.025	1.8	ug/L
	Mo	97	5339.432	3.6	64.001	1.42221	0.057	4.0	ug/L
	Mo	98	13929.468	0.7	98.282	1.47931	0.003	0.2	ug/L
	Rh	103	371730.990	4.0	340052.119				ug/L
	Ag	107	184.004	9.0	91.335	0.00539	0.001	18.8	ug/L
	Ag	109	162.337	8.9	75.668	0.00546	0.001	20.6	ug/L
	Cd	111	617.098	1.4	218.275	0.10819	0.003	2.4	ug/L
	Cd	114	880.313	4.1	58.957	0.10675	0.006	5.3	ug/L
>	In	115	404774.885	0.8	358352.924				ug/L
	Sb	121	35486.426	1.3	107.668	3.35956	0.039	1.1	ug/L
	Sb	123	26241.128	0.5	79.665	3.22799	0.041	1.3	ug/L
	Ba	135	142114.979	0.4	46.667	50.81024	1.141	2.2	ug/L
	Ba	137	237399.346	1.7	47.001	49.73170	0.708	1.4	ug/L
>	Tb	159	464639.681	1.9	411268.087				ug/L
>	Ho	165	445672.890	1.0	390096.908				ug/L
	Tl	203	763.376	3.8	60.001	0.07662	0.003	4.0	ug/L
	Tl	205	1778.208	4.7	78.001	0.08431	0.005	5.6	ug/L
	Pb	208	33688.585	0.5	320.672	1.15530	0.011	1.0	ug/L

	Pb	206	8500.420	2.1	87.335	1.10719	0.022	2.0	ug/L
	Pb	207	7140.129	1.0	77.001	1.11300	0.021	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		131.126			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.742			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		112.954			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		112.977			
>	Ho	165		114.247			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477

Sample Date/Time: Monday, November 13, 2006 21:34:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477.080

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	77.001	7.2	63.001	-0.00792	0.004	48.1	ug/L
	Al	27	70448.253	1.2	2334.350	6.85801	0.131	1.9	ug/L
>	Sc	45	544389.955	1.2	381869.082				ug/L
	V	51	10194.684	2.5	4488.603	0.16241	0.015	9.3	ug/L
	Cr	52	31568.999	0.5	15368.650	0.47341	0.025	5.4	ug/L
	Cr	53	2646.447	2.9	814.381	0.57802	0.024	4.2	ug/L
	Mn	55	6419237.627	1.6	494.020	279.54300	4.724	1.7	ug/L
	Co	59	12470.783	1.3	188.671	0.61271	0.019	3.2	ug/L
	Ni	60	39742.611	0.9	136.669	8.81659	0.259	2.9	ug/L
	Ni	62	3313.692	3.1	143.669	4.71665	0.224	4.8	ug/L
	Cu	63	8708.302	0.8	212.338	0.82505	0.030	3.6	ug/L
	Cu	65	4539.615	1.5	189.671	0.86949	0.021	2.4	ug/L
	Zn	66	44597.521	2.7	1515.486	14.70508	0.104	0.7	ug/L
	Zn	67	8466.050	1.6	342.344	15.96004	0.653	4.1	ug/L
	Zn	68	36529.606	1.9	1170.427	16.45293	0.856	5.2	ug/L
>	Ge	72	277926.555	3.1	244883.968				ug/L
	As	75	7854.445	1.1	124.002	2.13721	0.092	4.3	ug/L
	Se	77	464.680	0.4	216.736	0.81226	0.058	7.2	ug/L
	Se	78	19401.966	1.2	16119.238	1.28240	0.972	75.8	mg/L
	Se	82	2272.710	0.3	1872.010	0.41336	0.194	46.9	ug/L
	Kr	83	2022.266	2.2	1902.236				mg/L
	Y	89	514222.056	1.8	408188.389				ug/L
	Mo	95	10242.061	2.1	112.002	1.51749	0.042	2.8	ug/L
	Mo	97	6064.934	0.8	64.001	1.47814	0.020	1.3	ug/L
	Mo	98	15671.295	2.7	98.282	1.52240	0.035	2.3	ug/L
	Rh	103	383120.827	1.4	340052.119				ug/L
	Ag	107	106.335	5.3	91.335	-0.00039	0.000	86.6	ug/L
	Ag	109	78.001	3.4	75.668	-0.00100	0.000	15.1	ug/L
	Cd	111	489.718	7.3	218.275	0.05883	0.010	17.6	ug/L
	Cd	114	543.699	23.7	58.957	0.05643	0.015	26.8	ug/L
>	In	115	442574.841	0.7	358352.924				ug/L
	Sb	121	830.383	3.8	107.668	0.06059	0.002	4.0	ug/L
	Sb	123	622.960	1.5	79.665	0.05922	0.001	1.6	ug/L
	Ba	135	178150.867	1.6	46.667	60.70898	1.113	1.8	ug/L
	Ba	137	296535.246	2.2	47.001	59.21921	1.433	2.4	ug/L
>	Tb	159	487396.142	0.3	411268.087				ug/L
>	Ho	165	467358.073	2.4	390096.908				ug/L
	Tl	203	329.343	4.0	60.001	0.02710	0.002	7.6	ug/L
	Tl	205	759.042	4.6	78.001	0.03171	0.003	7.9	ug/L
	Pb	208	10380.959	0.8	320.672	0.33061	0.008	2.4	ug/L

Pb	206	2773.823	1.0	87.335	0.33563	0.011	3.1	ug/L
Pb	207	2159.301	1.2	77.001	0.31124	0.011	3.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		142.559			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		113.493			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		123.503			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		118.511			
>	Ho	165		119.806			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477D

Sample Date/Time: Monday, November 13, 2006 21:40:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477D.081

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	82.668	9.2	63.001	-0.00277	0.005	174.1	ug/L
	Al	27	43231.292	1.4	2334.350	4.22061	0.070	1.7	ug/L
>	Sc	45	527215.504	0.3	381869.082				ug/L
	V	51	10734.766	4.3	4488.603	0.20040	0.022	10.8	ug/L
	Cr	52	32863.674	1.1	15368.650	0.58910	0.021	3.6	ug/L
	Cr	53	2682.459	1.1	814.381	0.62607	0.009	1.4	ug/L
	Mn	55	6719120.298	0.3	494.020	300.85496	5.742	1.9	ug/L
	Co	59	12727.510	2.4	188.671	0.64313	0.006	0.9	ug/L
	Ni	60	40994.997	0.3	136.669	9.35090	0.199	2.1	ug/L
	Ni	62	3273.342	2.5	143.669	4.79150	0.094	2.0	ug/L
	Cu	63	12146.636	2.0	212.338	1.19298	0.034	2.8	ug/L
	Cu	65	6519.615	0.5	189.671	1.30446	0.028	2.2	ug/L
	Zn	66	12239.106	2.2	1515.486	3.72678	0.109	2.9	ug/L
	Zn	67	3523.447	2.4	342.344	6.38590	0.064	1.0	ug/L
	Zn	68	14795.273	1.7	1170.427	6.48640	0.264	4.1	ug/L
>	Ge	72	270280.597	2.0	244883.968				ug/L
	As	75	8089.672	0.6	124.002	2.26443	0.052	2.3	ug/L
	Se	77	472.947	2.5	216.736	0.89211	0.071	7.9	ug/L
	Se	78	19781.288	1.4	16119.238	2.33595	0.431	18.5	mg/L
	Se	82	2276.511	0.8	1872.010	0.59889	0.086	14.3	ug/L
	Kr	83	2139.963	1.6	1902.236				mg/L
	Y	89	525171.551	1.4	408188.389				ug/L
	Mo	95	10350.867	3.8	112.002	1.56988	0.053	3.4	ug/L
	Mo	97	6272.756	0.7	64.001	1.56573	0.020	1.3	ug/L
	Mo	98	15841.313	1.3	98.282	1.57545	0.017	1.1	ug/L
	Rh	103	390467.855	1.5	340052.119				ug/L
	Ag	107	82.668	6.9	91.335	-0.00172	0.000	20.9	ug/L
	Ag	109	58.667	3.5	75.668	-0.00217	0.000	7.3	ug/L
	Cd	111	522.826	3.6	218.275	0.07091	0.006	7.8	ug/L
	Cd	114	530.348	5.4	58.957	0.05638	0.004	6.5	ug/L
>	In	115	432446.881	0.5	358352.924				ug/L
	Sb	121	750.708	3.0	107.668	0.05520	0.002	3.5	ug/L
	Sb	123	580.162	4.6	79.665	0.05593	0.003	5.9	ug/L
	Ba	135	178718.910	0.6	46.667	59.89537	1.075	1.8	ug/L
	Ba	137	301846.892	0.7	47.001	59.27924	0.728	1.2	ug/L
>	Tb	159	495659.127	1.5	411268.087				ug/L
>	Ho	165	460628.014	0.5	390096.908				ug/L
	Tl	203	319.009	2.2	60.001	0.02648	0.001	3.0	ug/L
	Tl	205	715.705	5.9	78.001	0.03011	0.002	7.2	ug/L
	Pb	208	12017.818	1.1	320.672	0.39042	0.004	1.1	ug/L

Pb	206	3132.287	1.2	87.335	0.38626	0.003	0.7	ug/L
Pb	207	2598.431	3.0	77.001	0.38284	0.011	2.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		138.062			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.371			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		120.676			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		120.520			
>	Ho	165		118.080			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477S

Sample Date/Time: Monday, November 13, 2006 21:46:49
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477S.082

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	26035.202	0.9	63.001	16.78469	0.231	1.4	ug/L
	Al	27	241731.377	1.8	2334.350	25.41420	0.331	1.3	ug/L
>	Sc	45	522005.257	0.8	381869.082				ug/L
	V	51	456070.730	1.6	4488.603	20.06689	0.454	2.3	ug/L
	Cr	52	395761.349	2.2	15368.650	19.14545	0.376	2.0	ug/L
	Cr	53	47075.400	0.8	814.381	18.65474	0.302	1.6	ug/L
	Mn	55	6933552.361	2.4	494.020	315.27529	3.917	1.2	ug/L
	Co	59	470698.250	1.7	188.671	24.55832	0.622	2.5	ug/L
	Ni	60	132214.287	0.9	136.669	30.70760	0.202	0.7	ug/L
	Ni	62	17695.280	1.5	143.669	27.40795	0.252	0.9	ug/L
	Cu	63	235982.029	1.4	212.338	23.97981	0.366	1.5	ug/L
	Cu	65	109821.437	1.5	189.671	23.01930	0.697	3.0	ug/L
	Zn	66	62998.964	2.5	1515.486	21.97466	0.244	1.1	ug/L
	Zn	67	12454.425	1.2	342.344	24.92386	0.624	2.5	ug/L
	Zn	68	50825.034	0.9	1170.427	24.17305	0.581	2.4	ug/L
>	Ge	72	266066.716	1.6	244883.968				ug/L
	As	75	77618.607	1.1	124.002	22.41149	0.619	2.8	ug/L
	Se	77	5221.035	1.1	216.736	19.31429	0.136	0.7	ug/L
	Se	78	34332.597	0.6	16119.238	20.02575	0.892	4.5	mg/L
	Se	82	8709.416	1.4	1872.010	19.27247	0.291	1.5	ug/L
	Kr	83	1999.593	1.2	1902.236				mg/L
	Y	89	513089.581	1.3	408188.389				ug/L
	Mo	95	161762.076	1.4	112.002	25.30505	0.193	0.8	ug/L
	Mo	97	97983.660	0.4	64.001	25.20676	0.292	1.2	ug/L
	Mo	98	256799.463	1.4	98.282	26.20104	0.180	0.7	ug/L
	Rh	103	378238.078	0.8	340052.119				ug/L
	Ag	107	332237.828	1.0	91.335	21.12161	0.382	1.8	ug/L
	Ag	109	315400.356	1.5	75.668	21.33860	0.343	1.6	ug/L
	Cd	111	75331.308	2.3	218.275	20.90140	0.523	2.5	ug/L
	Cd	114	171597.052	1.0	58.957	21.45115	0.285	1.3	ug/L
>	In	115	424503.291	0.9	358352.924				ug/L
	Sb	121	247641.245	1.8	107.668	22.42006	0.338	1.5	ug/L
	Sb	123	188727.673	1.0	79.665	22.20122	0.226	1.0	ug/L
	Ba	135	237841.341	3.3	46.667	82.61913	2.575	3.1	ug/L
	Ba	137	396609.807	0.8	47.001	80.74553	1.542	1.9	ug/L
>	Tb	159	478170.009	1.2	411268.087				ug/L
>	Ho	165	464771.687	0.9	390096.908				ug/L
	Tl	203	196880.806	2.9	60.001	20.80880	0.449	2.2	ug/L
	Tl	205	454189.628	1.1	78.001	21.72990	0.139	0.6	ug/L
	Pb	208	636946.461	0.4	320.672	21.16262	0.119	0.6	ug/L

Pb	206	166310.331	1.4	87.335	21.00578	0.266	1.3	ug/L
Pb	207	133598.830	1.2	77.001	20.20203	0.071	0.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		136.697			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.650			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		118.460			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		116.267			
>	Ho	165		119.143			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477A

Sample Date/Time: Monday, November 13, 2006 21:52:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477A.083

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23883.085	1.4	63.001	15.18198	0.539	3.5	ug/L
	Al	27	249555.459	0.7	2334.350	25.88143	0.507	2.0	ug/L
>	Sc	45	529463.685	2.3	381869.082				ug/L
	V	51	423239.011	1.3	4488.603	18.34363	0.616	3.4	ug/L
	Cr	52	374960.515	2.9	15368.650	17.81345	0.339	1.9	ug/L
	Cr	53	44704.044	1.2	814.381	17.43888	0.289	1.7	ug/L
	Mn	55	6861408.207	1.7	494.020	311.31675	4.734	1.5	ug/L
	Co	59	432832.293	3.2	188.671	22.52893	0.812	3.6	ug/L
	Ni	60	124803.165	2.3	136.669	28.92060	0.822	2.8	ug/L
	Ni	62	16607.030	0.2	143.669	25.64908	0.165	0.6	ug/L
	Cu	63	214079.551	2.9	212.338	21.70083	0.593	2.7	ug/L
	Cu	65	101268.441	2.0	189.671	21.16789	0.302	1.4	ug/L
	Zn	66	91229.918	0.8	1515.486	32.01719	0.345	1.1	ug/L
	Zn	67	16067.646	3.1	342.344	32.29392	0.928	2.9	ug/L
	Zn	68	69907.369	0.7	1170.427	33.39908	0.425	1.3	ug/L
>	Ge	72	266663.135	0.7	244883.968				ug/L
	As	75	71583.955	2.2	124.002	20.61255	0.346	1.7	ug/L
	Se	77	4816.592	1.0	216.736	17.70460	0.129	0.7	ug/L
	Se	78	33151.351	3.7	16119.238	18.51655	1.179	6.4	mg/L
	Se	82	8242.675	0.6	1872.010	17.87063	0.153	0.9	ug/L
	Kr	83	2027.600	3.8	1902.236				mg/L
	Y	89	510651.876	0.4	408188.389				ug/L
	Mo	95	150390.824	2.2	112.002	23.62033	0.099	0.4	ug/L
	Mo	97	93796.524	0.6	64.001	24.23286	0.587	2.4	ug/L
	Mo	98	245066.492	2.2	98.282	25.10470	0.060	0.2	ug/L
	Rh	103	378469.294	3.4	340052.119				ug/L
	Ag	107	311580.624	1.2	91.335	19.89265	0.528	2.7	ug/L
	Ag	109	302262.804	1.0	75.668	20.53472	0.259	1.3	ug/L
	Cd	111	70228.669	1.1	218.275	19.56257	0.341	1.7	ug/L
	Cd	114	160715.526	1.6	58.957	20.18058	0.730	3.6	ug/L
>	In	115	422788.396	2.0	358352.924				ug/L
	Sb	121	234410.801	1.2	107.668	21.31700	0.683	3.2	ug/L
	Sb	123	174332.251	0.9	79.665	20.59367	0.343	1.7	ug/L
	Ba	135	235595.737	0.9	46.667	81.78901	0.557	0.7	ug/L
	Ba	137	391492.910	0.9	47.001	79.65504	1.692	2.1	ug/L
>	Tb	159	478474.975	1.3	411268.087				ug/L
>	Ho	165	461617.978	0.9	390096.908				ug/L
	Tl	203	180585.881	2.4	60.001	19.21713	0.339	1.8	ug/L
	Tl	205	424275.898	1.4	78.001	20.43896	0.404	2.0	ug/L
	Pb	208	590454.592	0.8	320.672	19.75054	0.028	0.1	ug/L

Pb	206	152038.778	1.5	87.335	19.33361	0.300	1.6	ug/L
Pb	207	122255.531	1.0	77.001	18.61209	0.031	0.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		138.651			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.894			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		117.981			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		116.341			
>	Ho	165		118.334			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477L

Sample Date/Time: Monday, November 13, 2006 21:58:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\950477L.084

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.001	6.1	63.001	-0.01231	0.003	25.9	ug/L
	Al	27	57303.679	2.7	2334.350	6.60323	0.365	5.5	ug/L
>	Sc	45	459431.962	2.6	381869.082				ug/L
	V	51	6028.955	1.5	4488.603	0.03193	0.006	17.8	ug/L
	Cr	52	19760.265	0.7	15368.650	0.07426	0.032	43.1	ug/L
	Cr	53	1329.119	4.2	814.381	0.16174	0.040	24.7	ug/L
	Mn	55	1182239.115	1.0	494.020	56.81786	0.296	0.5	ug/L
	Co	59	2483.062	3.0	188.671	0.12630	0.004	3.1	ug/L
	Ni	60	6904.264	3.6	136.669	1.66291	0.071	4.3	ug/L
	Ni	62	692.702	2.3	143.669	0.90055	0.030	3.4	ug/L
	Cu	63	2454.720	2.5	212.338	0.24051	0.007	3.0	ug/L
	Cu	65	1455.808	3.2	189.671	0.27991	0.012	4.4	ug/L
	Zn	66	122753.491	1.4	1515.486	45.89753	0.464	1.0	ug/L
	Zn	67	19485.952	1.1	342.344	41.72140	0.611	1.5	ug/L
	Zn	68	89341.932	0.6	1170.427	45.44829	0.555	1.2	ug/L
>	Ge	72	251660.018	0.6	244883.968				ug/L
	As	75	1643.845	3.2	124.002	0.46358	0.016	3.4	ug/L
	Se	77	276.138	2.6	216.736	0.21864	0.023	10.5	ug/L
	Se	78	16999.315	2.5	16119.238	0.54848	0.651	118.7	mg/L
	Se	82	1878.012	0.8	1872.010	-0.13978	0.029	20.6	ug/L
	Kr	83	1848.223	2.1	1902.236				mg/L
	Y	89	447464.887	3.5	408188.389				ug/L
	Mo	95	1897.569	4.8	112.002	0.28212	0.015	5.4	ug/L
	Mo	97	1179.762	2.4	64.001	0.29011	0.008	2.8	ug/L
	Mo	98	2953.574	3.5	98.282	0.29545	0.010	3.3	ug/L
	Rh	103	366304.970	2.3	340052.119				ug/L
	Ag	107	138.336	5.9	91.335	0.00209	0.001	25.4	ug/L
	Ag	109	134.002	6.6	75.668	0.00318	0.001	17.5	ug/L
	Cd	111	323.667	4.1	218.275	0.01986	0.003	16.6	ug/L
	Cd	114	211.759	3.4	58.957	0.01826	0.001	5.2	ug/L
>	In	115	416426.340	0.8	358352.924				ug/L
	Sb	121	560.025	12.5	107.668	0.04014	0.006	15.6	ug/L
	Sb	123	403.848	11.3	79.665	0.03733	0.005	14.0	ug/L
	Ba	135	34730.570	0.4	46.667	12.06047	0.153	1.3	ug/L
	Ba	137	58140.377	1.2	47.001	11.83706	0.140	1.2	ug/L
>	Tb	159	477722.909	1.1	411268.087				ug/L
>	Ho	165	462503.946	1.3	390096.908				ug/L
	Tl	203	159.670	12.7	60.001	0.00940	0.002	22.1	ug/L
	Tl	205	314.676	7.6	78.001	0.01069	0.001	10.9	ug/L
	Pb	208	3005.910	1.2	320.672	0.08772	0.000	0.3	ug/L

Pb	206	772.044	3.0	87.335	0.08493	0.004	4.8	ug/L
Pb	207	632.697	0.8	77.001	0.08233	0.001	1.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		120.311			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.767			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		116.206			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		116.159			
>	Ho	165		118.561			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956 D.10

Sample Date/Time: Monday, November 13, 2006 22:04:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956 D.10.085

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.001	15.8	63.001	-0.01887	0.006	34.0	ug/L
	Al	27	79523.466	1.2	2334.350	8.57805	0.102	1.2	ug/L
>	Sc	45	495989.419	1.8	381869.082				ug/L
	V	51	5251.903	1.3	4488.603	-0.02705	0.007	27.2	ug/L
	Cr	52	17772.110	1.2	15368.650	-0.11747	0.024	20.1	ug/L
	Cr	53	1175.428	3.5	814.381	0.05019	0.011	21.8	ug/L
	Mn	55	17346666.685	1.2	494.020	751.04428	15.271	2.0	ug/L
	Co	59	33136.087	1.3	188.671	1.63602	0.054	3.3	ug/L
	Ni	60	6932.620	2.8	136.669	1.50077	0.076	5.0	ug/L
	Ni	62	925.727	2.0	143.669	1.13302	0.013	1.1	ug/L
	Cu	63	2996.235	0.8	212.338	0.26665	0.004	1.5	ug/L
	Cu	65	1073.413	3.6	189.671	0.17138	0.012	6.9	ug/L
	Zn	66	134504.534	2.4	1515.486	45.26879	0.268	0.6	ug/L
	Zn	67	20332.980	0.8	342.344	39.15654	0.768	2.0	ug/L
	Zn	68	96745.016	1.2	1170.427	44.30121	0.944	2.1	ug/L
>	Ge	72	279528.611	2.1	244883.968				ug/L
	As	75	78492.448	1.7	124.002	21.57608	0.819	3.8	ug/L
	Se	77	243.937	4.1	216.736	-0.01262	0.037	292.9	ug/L
	Se	78	17150.246	2.0	16119.238	-1.40394	0.804	57.2	mg/L
	Se	82	1843.604	0.9	1872.010	-0.80408	0.128	15.9	ug/L
	Kr	83	1882.565	4.7	1902.236				mg/L
	Y	89	489738.960	2.2	408188.389				ug/L
	Mo	95	19495.313	2.3	112.002	2.87919	0.047	1.6	ug/L
	Mo	97	11944.341	1.5	64.001	2.90254	0.071	2.4	ug/L
	Mo	98	30432.250	0.4	98.282	2.94038	0.073	2.5	ug/L
	Rh	103	413131.569	1.0	340052.119				ug/L
	Ag	107	82.001	7.4	91.335	-0.00192	0.000	24.2	ug/L
	Ag	109	54.334	5.6	75.668	-0.00257	0.000	10.2	ug/L
	Cd	111	274.308	3.8	218.275	0.00055	0.001	230.7	ug/L
	Cd	114	235.897	26.8	58.957	0.01920	0.007	35.7	ug/L
>	In	115	446825.369	2.1	358352.924				ug/L
	Sb	121	788.379	1.7	107.668	0.05630	0.001	1.1	ug/L
	Sb	123	639.248	6.2	79.665	0.06043	0.006	9.2	ug/L
	Ba	135	7615.555	2.0	46.667	2.34779	0.059	2.5	ug/L
	Ba	137	13095.416	2.4	47.001	2.37312	0.046	2.0	ug/L
>	Tb	159	534666.675	0.9	411268.087				ug/L
>	Ho	165	496276.289	1.9	390096.908				ug/L
	Tl	203	203.671	0.8	60.001	0.01261	0.000	2.8	ug/L
	Tl	205	413.681	3.4	78.001	0.01409	0.000	2.9	ug/L
	Pb	208	1424.062	2.2	320.672	0.03165	0.002	5.2	ug/L

Pb	206	361.345	5.9	87.335	0.02966	0.003	10.9	ug/L
Pb	207	311.009	2.7	77.001	0.03021	0.002	5.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		129.885			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		114.147			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		124.689			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		130.004			
>	Ho	165		127.219			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956D D.10

Sample Date/Time: Monday, November 13, 2006 22:10:44
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956D D.10.086

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58.334	15.6	63.001	-0.01055	0.008	73.2	ug/L
	Al	27	79476.657	0.5	2334.350	9.77605	0.183	1.9	ug/L
>	Sc	45	437049.373	1.9	381869.082				ug/L
	V	51	5133.841	2.7	4488.603	-0.00005	0.012	23006.0	ug/L
	Cr	52	17188.222	2.8	15368.650	-0.02389	0.048	201.8	ug/L
	Cr	53	1135.089	3.4	814.381	0.09856	0.022	22.4	ug/L
	Mn	55	14796761.896	2.8	494.020	734.07386	32.621	4.4	ug/L
	Co	59	30083.505	0.6	188.671	1.70141	0.025	1.5	ug/L
	Ni	60	6191.029	2.7	136.669	1.53584	0.072	4.7	ug/L
	Ni	62	827.716	1.9	143.669	1.16696	0.051	4.4	ug/L
	Cu	63	2583.760	1.3	212.338	0.26311	0.004	1.6	ug/L
	Cu	65	841.051	3.3	189.671	0.14934	0.009	5.7	ug/L
	Zn	66	133503.445	1.8	1515.486	51.55710	0.775	1.5	ug/L
	Zn	67	20665.137	1.9	342.344	45.71090	1.117	2.4	ug/L
	Zn	68	97303.945	2.3	1170.427	51.13004	1.251	2.4	ug/L
>	Ge	72	244024.714	2.1	244883.968				ug/L
	As	75	70400.159	0.5	124.002	22.16289	0.478	2.2	ug/L
	Se	77	250.670	3.7	216.736	0.14725	0.058	39.3	ug/L
	Se	78	17395.260	1.0	16119.238	1.73686	0.594	34.2	mg/L
	Se	82	1853.139	1.0	1872.010	-0.03634	0.174	480.0	ug/L
	Kr	83	1876.897	4.0	1902.236				mg/L
	Y	89	432755.417	0.9	408188.389				ug/L
	Mo	95	17607.100	2.8	112.002	2.83019	0.099	3.5	ug/L
	Mo	97	10685.955	1.7	64.001	2.82521	0.053	1.9	ug/L
	Mo	98	27309.222	2.6	98.282	2.87077	0.076	2.6	ug/L
	Rh	103	366397.392	2.0	340052.119				ug/L
	Ag	107	125.336	7.4	91.335	0.00136	0.001	41.7	ug/L
	Ag	109	102.668	9.8	75.668	0.00112	0.001	64.2	ug/L
	Cd	111	246.779	3.7	218.275	-0.00096	0.002	206.1	ug/L
	Cd	114	190.865	5.3	58.957	0.01596	0.002	9.6	ug/L
>	In	115	410531.035	1.0	358352.924				ug/L
	Sb	121	645.698	7.0	107.668	0.04896	0.005	9.7	ug/L
	Sb	123	484.635	4.2	79.665	0.04788	0.003	5.7	ug/L
	Ba	135	6651.721	2.6	46.667	2.31257	0.054	2.4	ug/L
	Ba	137	11688.976	0.8	47.001	2.38999	0.056	2.3	ug/L
>	Tb	159	474077.128	2.4	411268.087				ug/L
>	Ho	165	441567.137	1.3	390096.908				ug/L
	Tl	203	184.337	5.0	60.001	0.01297	0.001	10.1	ug/L
	Tl	205	394.013	11.4	78.001	0.01539	0.002	14.2	ug/L
	Pb	208	1361.390	1.8	320.672	0.03494	0.001	2.4	ug/L

Pb	206	361.345	6.6	87.335	0.03489	0.003	7.4	ug/L
Pb	207	296.675	3.7	77.001	0.03339	0.002	7.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		114.450			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.649			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		114.561			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		115.272			
>	Ho	165		113.194			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 22:16:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.087

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58351.172	0.9	63.001	47.84660	1.449	3.0	ug/L
	Al	27	453410.164	1.3	2334.350	60.98621	2.430	4.0	ug/L
>	Sc	45	411501.319	2.8	381869.082				ug/L
	V	51	862287.818	2.9	4488.603	48.52088	1.518	3.1	ug/L
	Cr	52	752468.617	0.9	15368.650	47.72715	1.783	3.7	ug/L
	Cr	53	87901.819	1.9	814.381	44.82339	1.423	3.2	ug/L
	Mn	55	1060302.087	1.2	494.020	55.09154	1.231	2.2	ug/L
	Co	59	867202.754	0.9	188.671	51.72359	1.440	2.8	ug/L
	Ni	60	200082.825	0.4	136.669	53.14309	1.364	2.6	ug/L
	Ni	62	29897.186	2.3	143.669	53.14288	0.784	1.5	ug/L
	Cu	63	462627.601	0.4	212.338	53.76027	1.190	2.2	ug/L
	Cu	65	228564.098	0.7	189.671	54.80906	1.498	2.7	ug/L
	Zn	66	135608.617	2.5	1515.486	54.91547	0.403	0.7	ug/L
	Zn	67	22598.168	2.2	342.344	52.51247	1.976	3.8	ug/L
	Zn	68	98963.860	1.1	1170.427	54.54440	1.020	1.9	ug/L
>	Ge	72	232840.339	2.2	244883.968				ug/L
	As	75	146600.752	0.7	124.002	48.41301	0.883	1.8	ug/L
	Se	77	12107.990	0.5	216.736	52.70333	1.283	2.4	ug/L
	Se	78	53944.256	1.1	16119.238	52.54798	2.209	4.2	mg/L
	Se	82	17919.580	0.9	1872.010	53.25218	0.813	1.5	ug/L
	Kr	83	1784.209	1.7	1902.236				mg/L
	Y	89	418389.120	2.8	408188.389				ug/L
	Mo	95	275592.263	1.0	112.002	47.93209	1.260	2.6	ug/L
	Mo	97	175126.611	1.3	64.001	50.09056	1.676	3.3	ug/L
	Mo	98	432041.351	2.5	98.282	48.98559	0.832	1.7	ug/L
	Rh	103	352035.664	1.4	340052.119				ug/L
	Ag	107	714560.732	1.3	91.335	50.47865	0.480	1.0	ug/L
	Ag	109	678090.721	1.2	75.668	50.99002	1.318	2.6	ug/L
	Cd	111	167172.933	1.3	218.275	51.65477	1.631	3.2	ug/L
	Cd	114	385895.224	1.8	58.957	53.61113	0.910	1.7	ug/L
>	In	115	382108.639	2.2	358352.924				ug/L
	Sb	121	502060.313	0.4	107.668	50.52520	0.929	1.8	ug/L
	Sb	123	376036.028	1.2	79.665	49.16889	1.069	2.2	ug/L
	Ba	135	132781.089	3.0	46.667	47.87288	1.713	3.6	ug/L
	Ba	137	224030.451	0.8	47.001	47.33022	0.430	0.9	ug/L
>	Tb	159	460708.454	1.3	411268.087				ug/L
>	Ho	165	428470.773	1.1	390096.908				ug/L
	Tl	203	419622.437	0.9	60.001	48.12925	0.887	1.8	ug/L
	Tl	205	963860.318	2.0	78.001	50.02503	0.639	1.3	ug/L
	Pb	208	1339666.820	0.3	320.672	48.29899	0.395	0.8	ug/L

Pb	206	340964.550	0.8	87.335	46.73038	0.264	0.6	ug/L
Pb	207	286683.973	0.9	77.001	47.04932	0.948	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	95.693				
	Al	27	121.972				
>	Sc	45		107.760			
	V	51	97.042				
	Cr	52	95.454				
	Cr	53	89.647				
	Mn	55	110.183				
	Co	59	103.447				
	Ni	60	106.286				
	Ni	62	106.286				
	Cu	63	107.521				
	Cu	65	109.618				
	Zn	66	109.831				
	Zn	67	105.025				
	Zn	68	109.089				
>	Ge	72		95.082			
	As	75	96.826				
	Se	77	105.407				
	Se	78	105.096				
	Se	82	106.504				
	Kr	83					
	Y	89					
	Mo	95	95.864				
	Mo	97	100.181				
	Mo	98	97.971				
	Rh	103					
	Ag	107	100.957				
	Ag	109	101.980				
	Cd	111	103.310				
	Cd	114	107.222				
>	In	115		106.629			
	Sb	121	101.050				
	Sb	123	98.338				
	Ba	135	95.746				
	Ba	137	94.660				
>	Tb	159		112.021			
>	Ho	165		109.837			
	Tl	203	96.258				
	Tl	205	100.050				
	Pb	208	96.598				
	Pb	206	93.461				
	Pb	207	94.099				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 22:22:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.088

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58.001	17.0	63.001	-0.00970	0.007	75.5	ug/L
	Al	27	3347.039	2.7	2334.350	0.09780	0.014	14.4	ug/L
>	Sc	45	425292.184	1.4	381869.082				ug/L
	V	51	4850.499	6.5	4488.603	-0.00798	0.020	248.5	ug/L
	Cr	52	16047.603	2.4	15368.650	-0.06669	0.037	55.3	ug/L
	Cr	53	821.382	2.4	814.381	-0.04252	0.015	34.1	ug/L
	Mn	55	572.359	5.7	494.020	0.00521	0.001	26.6	ug/L
	Co	59	146.336	4.4	188.671	-0.00200	0.000	24.3	ug/L
	Ni	60	130.336	12.7	136.669	-0.00006	0.004	6224.0	ug/L
	Ni	62	139.336	18.2	143.669	0.00424	0.048	1129.2	ug/L
	Cu	63	257.007	13.9	212.338	0.00628	0.004	63.5	ug/L
	Cu	65	215.005	14.1	189.671	0.00807	0.007	82.8	ug/L
	Zn	66	1565.496	0.8	1515.486	0.04855	0.007	15.1	ug/L
	Zn	67	319.676	11.1	342.344	-0.01667	0.083	495.6	ug/L
	Zn	68	1162.426	1.6	1170.427	0.02524	0.016	65.2	ug/L
>	Ge	72	233744.164	1.3	244883.968				ug/L
	As	75	199.004	0.9	124.002	0.02655	0.001	5.2	ug/L
	Se	77	244.404	2.8	216.736	0.16540	0.022	13.3	ug/L
	Se	78	16211.021	1.4	16119.238	1.12173	0.538	47.9	mg/L
	Se	82	1760.919	1.5	1872.010	-0.08520	0.044	51.5	ug/L
	Kr	83	1750.868	1.3	1902.236				mg/L
	Y	89	419542.644	2.0	408188.389				ug/L
	Mo	95	914.727	16.0	112.002	0.13256	0.022	16.7	ug/L
	Mo	97	537.357	21.9	64.001	0.12850	0.030	23.5	ug/L
	Mo	98	1346.886	17.4	98.282	0.13529	0.023	17.3	ug/L
	Rh	103	351259.579	2.0	340052.119				ug/L
	Ag	107	192.671	6.0	91.335	0.00628	0.001	18.5	ug/L
	Ag	109	179.337	5.3	75.668	0.00696	0.001	11.9	ug/L
	Cd	111	224.033	8.4	218.275	-0.00498	0.008	151.8	ug/L
	Cd	114	54.516	14.0	58.957	-0.00140	0.001	87.3	ug/L
>	In	115	395918.429	2.7	358352.924				ug/L
	Sb	121	1575.167	15.8	107.668	0.14127	0.022	15.7	ug/L
	Sb	123	1178.063	15.1	79.665	0.13733	0.020	14.5	ug/L
	Ba	135	57.001	12.7	46.667	0.00193	0.003	149.4	ug/L
	Ba	137	61.334	8.4	47.001	0.00198	0.001	66.8	ug/L
>	Tb	159	456110.395	1.8	411268.087				ug/L
>	Ho	165	439031.166	1.1	390096.908				ug/L
	Tl	203	92.001	11.3	60.001	0.00273	0.001	39.9	ug/L
	Tl	205	151.336	4.0	78.001	0.00322	0.000	7.0	ug/L
	Pb	208	494.344	5.2	320.672	0.00469	0.001	15.4	ug/L

Pb	206	132.669	15.0	87.335	0.00458	0.003	54.6	ug/L
Pb	207	117.002	3.7	77.001	0.00486	0.001	10.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		111.371			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.451			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		110.483			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		110.903			
>	Ho	165		112.544			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956S D.10

Sample Date/Time: Monday, November 13, 2006 22:28:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956S D.10.089

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	2736.143	1.8	63.001	2.03982	0.039	1.9	ug/L
	Al	27	94142.158	1.8	2334.350	11.53638	0.169	1.5	ug/L
>	Sc	45	440849.848	0.4	381869.082				ug/L
	V	51	45952.481	3.2	4488.603	2.15279	0.074	3.4	ug/L
	Cr	52	52151.549	1.3	15368.650	2.08149	0.027	1.3	ug/L
	Cr	53	5238.365	1.6	814.381	2.06542	0.031	1.5	ug/L
	Mn	55	14678187.583	1.7	494.020	728.74264	14.295	2.0	ug/L
	Co	59	73674.314	0.5	188.671	4.18669	0.025	0.6	ug/L
	Ni	60	15171.954	2.1	136.669	3.81611	0.051	1.3	ug/L
	Ni	62	2137.962	1.0	143.669	3.40353	0.068	2.0	ug/L
	Cu	63	24968.615	2.5	212.338	2.74854	0.044	1.6	ug/L
	Cu	65	11389.225	1.2	189.671	2.56691	0.019	0.7	ug/L
	Zn	66	141302.315	0.3	1515.486	54.66989	0.704	1.3	ug/L
	Zn	67	21505.262	0.6	342.344	47.65355	0.715	1.5	ug/L
	Zn	68	97999.190	0.7	1170.427	51.56068	0.881	1.7	ug/L
>	Ge	72	243725.751	1.0	244883.968				ug/L
	As	75	73959.186	1.3	124.002	23.30913	0.412	1.8	ug/L
	Se	77	763.368	1.7	216.736	2.31656	0.085	3.7	ug/L
	Se	78	18557.579	1.7	16119.238	3.26819	0.448	13.7	mg/L
	Se	82	2513.112	0.3	1872.010	2.04904	0.109	5.3	ug/L
	Kr	83	1817.883	3.6	1902.236				mg/L
	Y	89	433417.516	0.9	408188.389				ug/L
	Mo	95	30730.873	1.4	112.002	5.02276	0.111	2.2	ug/L
	Mo	97	18921.651	1.8	64.001	5.08848	0.211	4.1	ug/L
	Mo	98	48757.995	1.4	98.282	5.20652	0.177	3.4	ug/L
	Rh	103	356364.676	1.8	340052.119				ug/L
	Ag	107	32813.492	2.2	91.335	2.17986	0.025	1.2	ug/L
	Ag	109	31404.392	2.0	75.668	2.22134	0.036	1.6	ug/L
	Cd	111	7842.475	2.2	218.275	2.21706	0.081	3.7	ug/L
	Cd	114	17825.166	1.8	58.957	2.32898	0.104	4.5	ug/L
>	In	115	405105.352	2.7	358352.924				ug/L
	Sb	121	25731.592	1.0	107.668	2.43231	0.081	3.3	ug/L
	Sb	123	19309.322	1.2	79.665	2.37091	0.036	1.5	ug/L
	Ba	135	12868.058	1.9	46.667	4.58987	0.058	1.3	ug/L
	Ba	137	21748.565	1.6	47.001	4.55357	0.095	2.1	ug/L
>	Tb	159	463853.187	0.6	411268.087				ug/L
>	Ho	165	443971.628	2.0	390096.908				ug/L
	Tl	203	19715.496	1.6	60.001	2.17551	0.061	2.8	ug/L
	Tl	205	46945.017	1.6	78.001	2.34825	0.079	3.4	ug/L
	Pb	208	64781.630	0.2	320.672	2.24236	0.043	1.9	ug/L

Pb	206	16506.499	1.6	87.335	2.17091	0.028	1.3	ug/L
Pb	207	13641.627	0.9	77.001	2.14780	0.057	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		115.445			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.527			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		113.046			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		112.786			
>	Ho	165		113.811			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956A D.10

Sample Date/Time: Monday, November 13, 2006 22:34:38
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956A D.10.090

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	24011.118	1.0	63.001	18.80798	0.213	1.1	ug/L
	Al	27	262736.721	1.0	2334.350	33.66098	0.269	0.8	ug/L
>	Sc	45	429796.310	1.5	381869.082				ug/L
	V	51	369170.432	1.6	4488.603	19.72735	0.599	3.0	ug/L
	Cr	52	321467.306	0.2	15368.650	18.87660	0.271	1.4	ug/L
	Cr	53	36957.483	1.4	814.381	17.76591	0.232	1.3	ug/L
	Mn	55	15428840.654	1.2	494.020	787.12085	11.577	1.5	ug/L
	Co	59	403561.364	1.1	188.671	23.61811	0.543	2.3	ug/L
	Ni	60	90008.378	3.2	136.669	23.44188	0.783	3.3	ug/L
	Ni	62	13014.285	1.2	143.669	22.56873	0.209	0.9	ug/L
	Cu	63	199347.818	2.1	212.338	22.72597	0.744	3.3	ug/L
	Cu	65	97311.600	1.6	189.671	22.87320	0.254	1.1	ug/L
	Zn	66	179136.177	1.1	1515.486	71.39508	1.028	1.4	ug/L
	Zn	67	28780.568	0.4	342.344	65.82158	0.992	1.5	ug/L
	Zn	68	130345.114	2.3	1170.427	70.68482	1.091	1.5	ug/L
>	Ge	72	237189.830	1.2	244883.968				ug/L
	As	75	130225.974	0.8	124.002	42.20253	0.191	0.5	ug/L
	Se	77	4707.863	1.1	216.736	19.54575	0.100	0.5	ug/L
	Se	78	31850.260	0.8	16119.238	21.68358	0.834	3.8	mg/L
	Se	82	7934.309	0.1	1872.010	19.82409	0.291	1.5	ug/L
	Kr	83	1850.224	2.7	1902.236				mg/L
	Y	89	415123.474	0.3	408188.389				ug/L
	Mo	95	136682.156	3.0	112.002	23.33280	0.614	2.6	ug/L
	Mo	97	86374.852	3.4	64.001	24.26100	1.242	5.1	ug/L
	Mo	98	212870.828	1.5	98.282	23.70393	0.431	1.8	ug/L
	Rh	103	356360.885	0.8	340052.119				ug/L
	Ag	107	306854.381	1.6	91.335	21.28693	0.133	0.6	ug/L
	Ag	109	280092.679	2.8	75.668	20.67551	0.126	0.6	ug/L
	Cd	111	67842.251	2.4	218.275	20.54945	0.882	4.3	ug/L
	Cd	114	150348.283	1.4	58.957	20.51666	0.663	3.2	ug/L
>	In	115	389018.977	2.1	358352.924				ug/L
	Sb	121	210863.359	1.7	107.668	20.84235	0.790	3.8	ug/L
	Sb	123	161654.366	0.7	79.665	20.75389	0.295	1.4	ug/L
	Ba	135	61750.913	1.1	46.667	22.20960	0.032	0.1	ug/L
	Ba	137	106119.479	0.7	47.001	22.37519	0.404	1.8	ug/L
>	Tb	159	461536.486	1.2	411268.087				ug/L
>	Ho	165	430303.616	1.0	390096.908				ug/L
	Tl	203	173438.363	0.7	60.001	19.80241	0.233	1.2	ug/L
	Tl	205	400697.990	2.5	78.001	20.70950	0.659	3.2	ug/L
	Pb	208	545386.140	1.5	320.672	19.57312	0.456	2.3	ug/L

Pb	206	140088.763	0.6	87.335	19.11155	0.297	1.6	ug/L
Pb	207	118253.666	0.8	77.001	19.31595	0.342	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		112.551			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		96.858			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.558			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		112.223			
>	Ho	165		110.307			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956L D.10

Sample Date/Time: Monday, November 13, 2006 22:40:38
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948956L D.10.091

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58.667	6.0	63.001	-0.00738	0.003	34.9	ug/L
	Al	27	80203.972	1.6	2334.350	10.54538	0.247	2.3	ug/L
>	Sc	45	409830.821	0.7	381869.082				ug/L
	V	51	4735.327	6.2	4488.603	-0.00457	0.019	407.4	ug/L
	Cr	52	16336.502	2.8	15368.650	-0.01007	0.037	370.9	ug/L
	Cr	53	870.054	4.6	814.381	-0.00204	0.021	1013.9	ug/L
	Mn	55	1022.740	5.2	494.020	0.03055	0.003	9.8	ug/L
	Co	59	154.003	8.7	188.671	-0.00120	0.001	66.1	ug/L
	Ni	60	211.671	8.1	136.669	0.02361	0.004	18.5	ug/L
	Ni	62	160.003	5.1	143.669	0.05156	0.017	32.6	ug/L
	Cu	63	366.678	2.5	212.338	0.02060	0.001	6.0	ug/L
	Cu	65	293.341	2.6	189.671	0.02951	0.002	7.3	ug/L
	Zn	66	144841.958	2.7	1515.486	60.71127	1.514	2.5	ug/L
	Zn	67	22224.152	0.9	342.344	53.39125	0.830	1.6	ug/L
	Zn	68	102594.391	0.9	1170.427	58.49983	0.460	0.8	ug/L
>	Ge	72	225181.818	0.6	244883.968				ug/L
	As	75	161.003	15.1	124.002	0.01602	0.008	49.7	ug/L
	Se	77	231.803	3.7	216.736	0.14879	0.039	26.1	ug/L
	Se	78	16403.747	0.5	16119.238	2.22387	0.044	2.0	mg/L
	Se	82	1799.994	1.7	1872.010	0.26832	0.115	42.9	ug/L
	Kr	83	1805.214	1.7	1902.236				mg/L
	Y	89	406441.899	1.2	408188.389				ug/L
	Mo	95	376.012	8.2	112.002	0.04419	0.005	12.3	ug/L
	Mo	97	223.339	16.3	64.001	0.04393	0.010	23.7	ug/L
	Mo	98	478.850	12.3	98.282	0.04206	0.007	15.8	ug/L
	Rh	103	350434.416	1.0	340052.119				ug/L
	Ag	107	83.668	12.0	91.335	-0.00101	0.001	68.6	ug/L
	Ag	109	77.668	2.7	75.668	-0.00027	0.000	55.7	ug/L
	Cd	111	272.303	15.7	218.275	0.01166	0.013	112.3	ug/L
	Cd	114	146.891	10.1	58.957	0.01154	0.002	18.0	ug/L
>	In	115	384706.664	0.2	358352.924				ug/L
	Sb	121	629.030	11.5	107.668	0.05133	0.007	14.2	ug/L
	Sb	123	499.738	10.3	79.665	0.05380	0.007	12.6	ug/L
	Ba	135	64.001	12.2	46.667	0.00458	0.003	56.6	ug/L
	Ba	137	92.001	9.3	47.001	0.00865	0.002	25.2	ug/L
>	Tb	159	453432.958	1.7	411268.087				ug/L
>	Ho	165	427423.696	1.1	390096.908				ug/L
	Tl	203	75.668	5.0	60.001	0.00114	0.000	30.3	ug/L
	Tl	205	126.002	13.1	78.001	0.00211	0.001	43.0	ug/L
	Pb	208	1188.711	1.7	320.672	0.03027	0.001	2.8	ug/L

Pb	206	303.342	5.9	87.335	0.02852	0.002	7.2	ug/L
Pb	207	287.008	9.8	77.001	0.03337	0.005	15.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		107.322			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		91.954			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.354			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		110.252			
>	Ho	165		109.569			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948957 D.10

Sample Date/Time: Monday, November 13, 2006 22:46:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990131
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\948957 D.10.092

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.334	23.5	63.001	-0.01367	0.009	68.3	ug/L
	Al	27	79234.025	0.4	2334.350	9.59934	0.198	2.1	ug/L
>	Sc	45	443470.996	1.9	381869.082				ug/L
	V	51	4936.337	3.5	4488.603	-0.01455	0.005	34.1	ug/L
	Cr	52	17625.465	1.3	15368.650	-0.01328	0.010	72.6	ug/L
	Cr	53	1127.754	2.8	814.381	0.08725	0.025	28.9	ug/L
	Mn	55	14454041.555	3.8	494.020	711.29884	18.601	2.6	ug/L
	Co	59	29651.635	1.9	188.671	1.66450	0.048	2.9	ug/L
	Ni	60	8303.230	6.6	136.669	2.05576	0.153	7.5	ug/L
	Ni	62	1192.431	5.6	143.669	1.77294	0.115	6.5	ug/L
	Cu	63	2715.470	2.5	212.338	0.27553	0.010	3.7	ug/L
	Cu	65	917.726	3.9	189.671	0.16525	0.007	4.3	ug/L
	Zn	66	148391.345	0.1	1515.486	56.94731	0.648	1.1	ug/L
	Zn	67	22468.476	1.0	342.344	49.39389	1.035	2.1	ug/L
	Zn	68	102016.723	1.2	1170.427	53.23093	0.329	0.6	ug/L
>	Ge	72	245821.733	1.2	244883.968				ug/L
	As	75	66810.081	0.4	124.002	20.87211	0.209	1.0	ug/L
	Se	77	240.537	5.2	216.736	0.09655	0.058	60.2	ug/L
	Se	78	16828.490	1.8	16119.238	0.83798	0.587	70.1	mg/L
	Se	82	1896.549	1.1	1872.010	0.05511	0.119	215.9	ug/L
	Kr	83	1918.573	2.0	1902.236				mg/L
	Y	89	430519.541	4.2	408188.389				ug/L
	Mo	95	17225.290	0.8	112.002	2.79171	0.077	2.8	ug/L
	Mo	97	10139.934	0.7	64.001	2.70257	0.062	2.3	ug/L
	Mo	98	26983.125	2.3	98.282	2.86078	0.109	3.8	ug/L
	Rh	103	365118.635	0.6	340052.119				ug/L
	Ag	107	111.669	2.1	91.335	0.00052	0.000	28.2	ug/L
	Ag	109	95.335	4.2	75.668	0.00066	0.000	25.6	ug/L
	Cd	111	246.834	3.5	218.275	-0.00029	0.004	1448.1	ug/L
	Cd	114	161.513	11.1	58.957	0.01229	0.002	15.2	ug/L
>	In	115	407228.536	2.4	358352.924				ug/L
	Sb	121	835.384	2.4	107.668	0.06738	0.003	5.1	ug/L
	Sb	123	636.017	7.4	79.665	0.06690	0.005	7.3	ug/L
	Ba	135	6709.435	2.3	46.667	2.38395	0.058	2.4	ug/L
	Ba	137	10993.690	0.4	47.001	2.29582	0.013	0.6	ug/L
>	Tb	159	463918.813	0.4	411268.087				ug/L
>	Ho	165	446629.063	0.4	390096.908				ug/L
	Tl	203	266.674	14.1	60.001	0.02178	0.004	18.9	ug/L
	Tl	205	550.024	7.3	78.001	0.02294	0.002	8.6	ug/L
	Pb	208	1292.718	3.1	320.672	0.03202	0.001	4.3	ug/L

|	Pb	206	332.343	3.5	87.335	0.03056	0.002	5.0 ug/L
L	Pb	207	292.341	2.6	77.001	0.03215	0.001	3.6 ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		116.132			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.383			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		113.639			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		112.802			
>	Ho	165		114.492			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 13, 2006 22:52:35
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 3.093

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1253.774	1.7	63.001	0.94437	0.046	4.9	ug/L
	Al	27	95426.557	0.6	2334.350	12.19611	0.460	3.8	ug/L
>	Sc	45	423683.384	3.1	381869.082				ug/L
	V	51	23254.023	0.8	4488.603	1.00490	0.043	4.3	ug/L
	Cr	52	32963.400	1.0	15368.650	1.00252	0.045	4.5	ug/L
	Cr	53	2853.517	1.4	814.381	0.97552	0.024	2.5	ug/L
	Mn	55	23388.348	1.6	494.020	1.18436	0.035	3.0	ug/L
	Co	59	19070.989	0.8	188.671	1.12013	0.010	0.9	ug/L
	Ni	60	4393.536	2.7	136.669	1.12612	0.031	2.7	ug/L
	Ni	62	770.043	4.8	143.669	1.12395	0.085	7.6	ug/L
	Cu	63	9864.267	0.8	212.338	1.11657	0.021	1.9	ug/L
	Cu	65	4801.764	0.5	189.671	1.10215	0.012	1.1	ug/L
	Zn	66	17201.577	1.8	1515.486	6.41261	0.211	3.3	ug/L
	Zn	67	2666.453	1.8	342.344	5.48105	0.110	2.0	ug/L
	Zn	68	11861.221	0.7	1170.427	5.95313	0.121	2.0	ug/L
>	Ge	72	234182.949	1.4	244883.968				ug/L
	As	75	3165.300	2.7	124.002	1.00086	0.020	2.0	ug/L
	Se	77	457.479	3.7	216.736	1.10098	0.057	5.1	ug/L
	Se	78	17349.650	0.4	16119.238	2.61926	0.353	13.5	mg/L
	Se	82	2119.403	1.4	1872.010	1.07971	0.027	2.5	ug/L
	Kr	83	1849.890	1.3	1902.236				mg/L
	Y	89	413036.369	1.2	408188.389				ug/L
	Mo	95	6153.000	3.0	112.002	1.00679	0.045	4.4	ug/L
	Mo	97	3666.510	1.2	64.001	0.98713	0.025	2.5	ug/L
	Mo	98	9715.485	1.6	98.282	1.04565	0.019	1.8	ug/L
	Rh	103	351662.517	2.1	340052.119				ug/L
	Ag	107	15742.014	1.6	91.335	1.06043	0.006	0.6	ug/L
	Ag	109	14749.194	2.6	75.668	1.05818	0.024	2.3	ug/L
	Cd	111	3604.693	3.0	218.275	0.99812	0.033	3.3	ug/L
	Cd	114	7889.691	1.7	58.957	1.04356	0.032	3.1	ug/L
>	In	115	398124.143	1.3	358352.924				ug/L
	Sb	121	10898.233	2.3	107.668	1.04111	0.025	2.4	ug/L
	Sb	123	8405.170	0.9	79.665	1.04384	0.022	2.1	ug/L
	Ba	135	2878.193	3.2	46.667	1.02745	0.026	2.5	ug/L
	Ba	137	4822.444	2.7	47.001	1.01631	0.031	3.1	ug/L
>	Tb	159	456981.543	1.3	411268.087				ug/L
>	Ho	165	439087.980	2.1	390096.908				ug/L
	Tl	203	8777.041	1.4	60.001	0.97529	0.034	3.4	ug/L
	Tl	205	20545.175	2.2	78.001	1.03621	0.009	0.9	ug/L
	Pb	208	28968.545	0.6	320.672	1.00687	0.015	1.5	ug/L

Pb	206	7679.948	1.7	87.335	1.01428	0.005	0.5	ug/L
Pb	207	6108.966	1.2	77.001	0.96479	0.017	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	94.437				
	Al	27	121.961				
>	Sc	45		110.950			
	V	51	100.490				
	Cr	52	100.252				
	Cr	53	97.552				
	Mn	55	118.436				
	Co	59	112.013				
	Ni	60	112.612				
	Ni	62	112.395				
	Cu	63	111.657				
	Cu	65	110.215				
	Zn	66	128.252				
	Zn	67	109.621				
	Zn	68	119.063				
>	Ge	72		95.630			
	As	75	100.086				
	Se	77	110.098				
	Se	78	261.926				
	Se	82	107.971				
	Kr	83					
	Y	89					
	Mo	95	100.679				
	Mo	97	98.713				
	Mo	98	104.565				
	Rh	103					
	Ag	107	106.043				
	Ag	109	105.818				
	Cd	111	99.812				
	Cd	114	104.356				
>	In	115		111.098			
	Sb	121	104.111				
	Sb	123	104.384				
	Ba	135	102.745				
	Ba	137	101.631				
>	Tb	159		111.115			
>	Ho	165		112.559			
	Tl	203	97.529				
	Tl	205	103.621				
	Pb	208	100.687				
	Pb	206	101.428				
	Pb	207	96.479				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 13, 2006 22:58:32
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 6.094

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57978.243	0.8	63.001	47.92357	1.194	2.5	ug/L
	Al	27	436339.640	2.6	2334.350	59.14623	2.278	3.9	ug/L
>	Sc	45	408106.300	1.7	381869.082				ug/L
	V	51	851628.213	0.7	4488.603	48.31665	1.127	2.3	ug/L
	Cr	52	730405.454	2.1	15368.650	46.67781	1.808	3.9	ug/L
	Cr	53	89603.815	1.8	814.381	46.07817	1.532	3.3	ug/L
	Mn	55	1012991.431	0.4	494.020	53.56319	0.976	1.8	ug/L
	Co	59	875681.502	2.4	188.671	53.13434	0.753	1.4	ug/L
	Ni	60	194174.913	2.4	136.669	52.46682	0.525	1.0	ug/L
	Ni	62	29134.814	2.1	143.669	52.70196	0.560	1.1	ug/L
	Cu	63	463470.024	0.9	212.338	54.80600	0.861	1.6	ug/L
	Cu	65	219062.280	1.0	189.671	53.44812	0.734	1.4	ug/L
	Zn	66	130148.218	1.5	1515.486	53.64554	1.616	3.0	ug/L
	Zn	67	22695.430	1.9	342.344	53.66812	0.624	1.2	ug/L
	Zn	68	94787.796	2.1	1170.427	53.14039	0.323	0.6	ug/L
>	Ge	72	228773.780	1.5	244883.968				ug/L
	As	75	148491.268	3.1	124.002	49.89523	1.241	2.5	ug/L
	Se	77	11873.119	0.9	216.736	52.58559	0.736	1.4	ug/L
	Se	78	54009.574	1.0	16119.238	53.93048	1.843	3.4	mg/L
	Se	82	17593.085	0.3	1872.010	53.20508	0.992	1.9	ug/L
	Kr	83	1798.546	3.8	1902.236				mg/L
	Y	89	405854.069	0.7	408188.389				ug/L
	Mo	95	277048.959	0.8	112.002	47.30808	0.749	1.6	ug/L
	Mo	97	170518.312	1.8	64.001	47.87647	0.986	2.1	ug/L
	Mo	98	432428.777	1.8	98.282	48.15069	1.053	2.2	ug/L
	Rh	103	340106.010	1.4	340052.119				ug/L
	Ag	107	708535.689	2.4	91.335	49.15475	1.462	3.0	ug/L
	Ag	109	674859.453	1.0	75.668	49.82421	0.843	1.7	ug/L
	Cd	111	165504.093	2.9	218.275	50.20697	1.831	3.6	ug/L
	Cd	114	371929.149	0.4	58.957	50.73724	0.262	0.5	ug/L
>	In	115	389087.769	0.8	358352.924				ug/L
	Sb	121	490056.469	1.6	107.668	48.41857	0.613	1.3	ug/L
	Sb	123	374963.218	0.8	79.665	48.13600	0.136	0.3	ug/L
	Ba	135	131167.251	0.9	46.667	49.17803	0.852	1.7	ug/L
	Ba	137	223577.145	0.7	47.001	49.12155	0.351	0.7	ug/L
>	Tb	159	443015.323	1.4	411268.087				ug/L
>	Ho	165	426716.348	1.6	390096.908				ug/L
	Tl	203	410292.879	3.5	60.001	47.24671	1.455	3.1	ug/L
	Tl	205	924488.381	1.4	78.001	48.18463	0.707	1.5	ug/L
	Pb	208	1322892.097	0.6	320.672	47.89349	0.607	1.3	ug/L

Pb	206	346276.869	1.0	87.335	47.66450	1.158	2.4	ug/L
Pb	207	280420.658	1.3	77.001	46.20593	0.325	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	95.847				
	Al	27	118.292				
>	Sc	45		106.871			
	V	51	96.633				
	Cr	52	93.356				
	Cr	53	92.156				
	Mn	55	107.126				
	Co	59	106.269				
	Ni	60	104.934				
	Ni	62	105.404				
	Cu	63	109.612				
	Cu	65	106.896				
	Zn	66	107.291				
	Zn	67	107.336				
	Zn	68	106.281				
>	Ge	72		93.421			
	As	75	99.790				
	Se	77	105.171				
	Se	78	107.861				
	Se	82	106.410				
	Kr	83					
	Y	89					
	Mo	95	94.616				
	Mo	97	95.753				
	Mo	98	96.301				
	Rh	103					
	Ag	107	98.310				
	Ag	109	99.648				
	Cd	111	100.414				
	Cd	114	101.474				
>	In	115		108.577			
	Sb	121	96.837				
	Sb	123	96.272				
	Ba	135	98.356				
	Ba	137	98.243				
>	Tb	159		107.719			
>	Ho	165		109.387			
	Tl	203	94.493				
	Tl	205	96.369				
	Pb	208	95.787				
	Pb	206	95.329				
	Pb	207	92.412				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 13, 2006 23:04:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111306A\QC Std 7.095

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57.667	7.8	63.001	-0.00911	0.004	48.0	ug/L
	Al	27	3393.058	1.5	2334.350	0.11137	0.014	12.8	ug/L
>	Sc	45	418248.116	1.6	381869.082				ug/L
	V	51	5003.300	2.9	4488.603	0.00492	0.010	209.1	ug/L
	Cr	52	16499.817	0.6	15368.650	-0.02101	0.020	97.2	ug/L
	Cr	53	780.044	0.9	814.381	-0.05658	0.010	18.1	ug/L
	Mn	55	590.694	4.0	494.020	0.00648	0.001	23.1	ug/L
	Co	59	143.336	4.9	188.671	-0.00209	0.001	24.0	ug/L
	Ni	60	134.336	12.4	136.669	0.00140	0.005	326.5	ug/L
	Ni	62	146.336	6.8	143.669	0.01889	0.016	82.2	ug/L
	Cu	63	219.005	9.2	212.338	0.00214	0.002	104.9	ug/L
	Cu	65	196.338	11.8	189.671	0.00412	0.006	133.6	ug/L
	Zn	66	1547.493	3.8	1515.486	0.04747	0.022	46.9	ug/L
	Zn	67	310.342	6.1	342.344	-0.03091	0.052	168.3	ug/L
	Zn	68	1154.425	7.0	1170.427	0.02704	0.043	159.5	ug/L
>	Ge	72	231418.741	1.0	244883.968				ug/L
	As	75	192.337	3.8	124.002	0.02500	0.003	11.9	ug/L
	Se	77	237.203	0.9	216.736	0.14432	0.016	11.1	ug/L
	Se	78	15956.974	0.2	16119.238	0.99180	0.169	17.0	mg/L
	Se	82	1825.200	2.0	1872.010	0.18739	0.177	94.3	ug/L
	Kr	83	1801.880	3.4	1902.236				mg/L
	Y	89	416463.600	0.3	408188.389				ug/L
	Mo	95	873.056	18.8	112.002	0.13025	0.027	20.4	ug/L
	Mo	97	530.356	15.9	64.001	0.13135	0.022	16.8	ug/L
	Mo	98	1339.994	20.3	98.282	0.13920	0.029	20.6	ug/L
	Rh	103	354693.926	1.8	340052.119				ug/L
	Ag	107	189.337	8.8	91.335	0.00643	0.001	15.8	ug/L
	Ag	109	169.670	4.0	75.668	0.00664	0.001	9.3	ug/L
	Cd	111	230.997	3.5	218.275	-0.00083	0.002	267.8	ug/L
	Cd	114	56.751	15.7	58.957	-0.00089	0.001	127.7	ug/L
>	In	115	383677.927	1.4	358352.924				ug/L
	Sb	121	1568.833	16.1	107.668	0.14548	0.023	16.1	ug/L
	Sb	123	1142.512	12.2	79.665	0.13752	0.016	11.7	ug/L
	Ba	135	52.334	6.7	46.667	0.00038	0.001	326.8	ug/L
	Ba	137	57.001	17.8	47.001	0.00112	0.002	172.2	ug/L
>	Tb	159	452050.831	2.3	411268.087				ug/L
>	Ho	165	428245.939	0.3	390096.908				ug/L
	Tl	203	83.668	14.2	60.001	0.00204	0.001	67.3	ug/L
	Tl	205	153.336	6.4	78.001	0.00352	0.001	14.9	ug/L
	Pb	208	495.344	4.9	320.672	0.00517	0.001	17.2	ug/L

Pb	206	136.002	12.7	87.335	0.00551	0.002	43.7	ug/L
Pb	207	116.002	13.9	77.001	0.00517	0.003	51.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		109.527			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		94.501			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.067			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		109.916			
>	Ho	165		109.779			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Metals Cover Page

Analyst: SDeVito **Date:** 11/17/06 **Instrument:** ECAN

Data File: 111706 **Reviewed By:** SD 11/19/06 **Entered By:** SD 11/20/06

Manager Approval: 11/21/06 DCB

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
137710	Be	M3990143	6020		950466-~~469~~ only 469
137711	Mn Cu As Cd	M3990143	6020		948936,57 As

Package Data:

Client Sub#	Package	Analytes Used	Failed Metals	Batch ID	Stds Attached?	Tranferred To LIMS	Raw Data Copied?
34493	5 / ASP	Be Mn Cu Cd		M3990143	Yes / No	MARRS / Run above	Yes / No
	5 / ASP	950466-69 only			Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
34382	5 / ASP	As Mn			Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, November 17, 2006 15:24:16
Sample Description:
Method File: c:\elandata\Method\EPA DAILY.mth
Dataset File: c:\elandata\Dataset\Daily2006\Sample.239
Tuning File: c:\elandata\Tuning\epa.tun
Optimization File: c:\elandata\Optimize\epa2.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 60
Current Dead Time (ns): 60

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	63293.2	63293.189	808.999	1.3
	Rh	102.9	400982.4	400982.440	7504.076	1.9
	In	114.9	369301.8	369301.758	5562.578	1.5
	Pb	208.0	150464.0	150464.005	1325.017	0.9
	U	238.1	267428.0	267428.045	3045.769	1.1
⌈>	Ba	137.9	315898.4	315898.399	4364.675	1.4
⌊	Ba++	69.0	8721.4	0.028	0.001	2.1
⌈>	Ce	139.9	433947.2	433947.243	4864.959	1.1
⌊	CeO	155.9	8941.7	0.021	0.000	2.4
	Bkgd	220.0	36.4	36.404	7.058	19.4

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
8.00	Lens Voltage
1500.00	ICP RF Power
-1832.50	Analog Stage Voltage
1017.50	Pulse Stage Voltage
70.00	Discriminator Threshold
-2.50	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	6.0	11347.2
Co	59	29	7.8	163395.3
In	115	29	8.0	266809.4

Elan 9000 Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, November 17, 2006 15:28:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\Blank.001

Sdeutto 11/17/06

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	84.001	29.8					ug/L
	Al	27	6946.222	55.4					ug/L
>	Sc	45	426236.083	1.8					ug/L
	V	51	5344.504	3.8					ug/L
	Cr	52	18378.762	0.9					ug/L
	Cr	53	1484.814	1.2					ug/L
	Mn	55	742.040	1.2					ug/L
	Co	59	848.388	29.6					ug/L
	Ni	60	167.670	2.3					ug/L
	Ni	62	209.338	4.5					ug/L
	Cu	63	570.693	33.9					ug/L
	Cu	65	318.010	26.6					ug/L
	Zn	66	2186.325	29.7					ug/L
	Zn	67	469.352	24.2					ug/L
	Zn	68	1708.532	22.9					ug/L
>	Ge	72	235019.833	1.0					ug/L
	As	75	174.004	3.6					ug/L
	Se	77	271.738	4.3					ug/L
	Se	78	18294.754	1.6					mg/L
	Se	82	514.483	0.9					ug/L
	Kr	83	509.687	1.1					mg/L
	Y	89	424645.807	0.2					ug/L
	Mo	95	130.336	2.5					ug/L
	Mo	97	59.667	5.4					ug/L
	Mo	98	73.129	15.8					ug/L
	Rh	103	377819.614	3.6					ug/L
	Ag	107	60.668	20.9					ug/L
	Ag	109	49.001	4.1					ug/L
	Cd	111	302.744	26.7					ug/L
	Cd	114	257.978	38.4					ug/L
>	In	115	368464.817	0.9					ug/L
	Sb	121	54.001	18.5					ug/L
	Sb	123	50.513	9.6					ug/L
	Ba	135	123.002	29.7					ug/L
	Ba	137	192.338	44.8					ug/L
>	Tb	159	460537.107	1.8					ug/L
>	Ho	165	440378.521	1.7					ug/L
	Tl	203	83.668	7.8					ug/L
	Tl	205	163.337	7.7					ug/L
	Pb	208	1492.737	33.9					ug/L

Pb	206	397.348	37.9	ug/L
Pb	207	320.010	29.8	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, November 17, 2006 15:34:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\Standard 1.002

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	11939.334	1.2	84.001	10.00000	0.334	3.3	ug/L
	Al	27	96625.808	2.4	6946.222	10.00000	0.572	5.7	ug/L
>	Sc	45	438863.584	2.8	426236.083				ug/L
	V	51	187747.150	2.4	5344.504	10.00000	0.203	2.0	ug/L
	Cr	52	179337.094	1.1	18378.762	10.00000	0.404	4.0	ug/L
	Cr	53	20248.105	0.2	1484.814	10.00000	0.303	3.0	ug/L
	Mn	55	223334.531	1.0	742.040	10.00000	0.150	1.5	ug/L
	Co	59	191740.616	3.7	848.388	10.00000	0.191	1.9	ug/L
	Ni	60	41682.736	0.2	167.670	10.00000	0.246	2.5	ug/L
	Ni	62	6634.373	0.5	209.338	10.00000	0.182	1.8	ug/L
	Cu	63	97062.387	5.4	570.693	10.00000	0.372	3.7	ug/L
	Cu	65	45070.060	2.7	318.010	10.00000	0.198	2.0	ug/L
	Zn	66	28726.389	1.6	2186.325	10.00000	0.200	2.0	ug/L
	Zn	67	4889.818	4.4	469.352	10.00000	0.240	2.4	ug/L
	Zn	68	20811.850	3.4	1708.532	10.00000	0.169	1.7	ug/L
>	Ge	72	243086.367	2.3	235019.833				ug/L
	As	75	30680.692	1.8	174.004	10.00000	0.227	2.3	ug/L
	Se	77	2610.142	2.1	271.738	10.00000	0.218	2.2	ug/L
	Se	78	25289.719	1.1	18294.754	10.00000	1.063	10.6	mg/L
	Se	82	3698.220	0.5	514.483	10.00000	0.219	2.2	ug/L
	Kr	83	511.021	4.1	509.687				mg/L
	Y	89	443885.886	0.5	424645.807				ug/L
	Mo	95	59986.743	1.0	130.336	10.00000	0.227	2.3	ug/L
	Mo	97	37465.752	1.5	59.667	10.00000	0.284	2.8	ug/L
	Mo	98	97995.500	1.4	73.129	10.00000	0.053	0.5	ug/L
	Rh	103	374151.647	1.8	377819.614				ug/L
	Ag	107	151818.643	2.8	60.668	10.00000	0.136	1.4	ug/L
	Ag	109	144931.268	0.8	49.001	10.00000	0.071	0.7	ug/L
	Cd	111	32205.199	1.4	302.744	10.00000	0.092	0.9	ug/L
	Cd	114	71941.229	0.8	257.978	10.00000	0.223	2.2	ug/L
>	In	115	371314.557	1.5	368464.817				ug/L
	Sb	121	99863.182	1.2	54.001	10.00000	0.159	1.6	ug/L
	Sb	123	74308.195	2.3	50.513	10.00000	0.145	1.4	ug/L
	Ba	135	27278.854	1.5	123.002	10.00000	0.224	2.2	ug/L
	Ba	137	47393.878	1.4	192.338	10.00000	0.226	2.3	ug/L
>	Tb	159	466155.796	0.9	460537.107				ug/L
>	Ho	165	446548.227	1.0	440378.521				ug/L
	Tl	203	86035.726	0.9	83.668	10.00000	0.066	0.7	ug/L
	Tl	205	204640.595	0.6	163.337	10.00000	0.086	0.9	ug/L
	Pb	208	275852.354	1.2	1492.737	10.00000	0.031	0.3	ug/L

Pb	206	71149.324	2.9	397.348	10.00000	0.197	2.0	ug/L
Pb	207	59157.164	0.9	320.010	10.00000	0.120	1.2	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, November 17, 2006 15:40:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\Standard 2.003

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23774.109	1.8	84.001	20.18407	0.667	3.3	ug/L
	Al	27	190187.046	2.3	6946.222	20.27723	0.257	1.3	ug/L
>	Sc	45	418493.044	1.5	426236.083				ug/L
	V	51	366537.961	2.2	5344.504	20.15360	0.732	3.6	ug/L
	Cr	52	333938.887	0.6	18378.762	20.12442	0.218	1.1	ug/L
	Cr	53	37643.207	0.6	1484.814	20.05215	0.380	1.9	ug/L
	Mn	55	434402.700	0.3	742.040	20.06176	0.339	1.7	ug/L
	Co	59	376330.338	1.2	848.388	20.10162	0.523	2.6	ug/L
	Ni	60	84926.780	1.2	167.670	20.24423	0.421	2.1	ug/L
	Ni	62	12601.315	1.9	209.338	20.02525	0.224	1.1	ug/L
	Cu	63	189407.913	0.5	570.693	20.08228	0.389	1.9	ug/L
	Cu	65	92390.168	2.7	318.010	20.27535	0.644	3.2	ug/L
	Zn	66	54285.787	0.5	2186.325	20.10365	0.350	1.7	ug/L
	Zn	67	9273.585	2.5	469.352	20.16590	0.537	2.7	ug/L
	Zn	68	40585.383	2.9	1708.532	20.24571	0.505	2.5	ug/L
>	Ge	72	233170.583	1.6	235019.833				ug/L
	As	75	62074.676	1.9	174.004	20.22038	0.061	0.3	ug/L
	Se	77	4813.523	1.7	271.738	20.06632	0.186	0.9	ug/L
	Se	78	33076.967	1.5	18294.754	20.75101	1.276	6.1	mg/L
	Se	82	6822.659	1.1	514.483	20.15170	0.448	2.2	ug/L
	Kr	83	501.687	5.5	509.687				mg/L
	Y	89	428167.375	1.7	424645.807				ug/L
	Mo	95	121986.987	1.2	130.336	20.08823	0.272	1.4	ug/L
	Mo	97	75364.908	3.2	59.667	20.04364	0.638	3.2	ug/L
	Mo	98	189370.290	1.3	73.129	19.88144	0.242	1.2	ug/L
	Rh	103	374011.140	1.9	377819.614				ug/L
	Ag	107	305676.845	1.5	60.668	20.04643	0.290	1.4	ug/L
	Ag	109	277547.522	2.0	49.001	19.84356	0.426	2.1	ug/L
	Cd	111	65357.138	2.2	302.744	20.09563	0.476	2.4	ug/L
	Cd	114	139849.109	0.6	257.978	19.91046	0.144	0.7	ug/L
>	In	115	369597.060	0.2	368464.817				ug/L
	Sb	121	191377.938	1.0	54.001	19.84662	0.159	0.8	ug/L
	Sb	123	150199.169	1.6	50.513	20.06217	0.332	1.7	ug/L
	Ba	135	53292.451	2.3	123.002	20.00840	0.473	2.4	ug/L
	Ba	137	94258.366	0.7	192.338	20.07869	0.271	1.3	ug/L
>	Tb	159	455410.344	1.3	460537.107				ug/L
>	Ho	165	432371.508	1.5	440378.521				ug/L
	Tl	203	171551.139	2.4	83.668	20.11833	0.543	2.7	ug/L
	Tl	205	394251.143	1.9	163.337	19.98103	0.356	1.8	ug/L
	Pb	208	541403.922	2.0	1492.737	20.06481	0.371	1.8	ug/L

Pb	206	140436.211	0.7	397.348	20.08844	0.324	1.6	ug/L
Pb	207	119943.539	2.4	320.010	20.19215	0.370	1.8	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, November 17, 2006 15:46:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\Standard 3.004

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	120451.471	0.4	84.001	100.10640	1.462	1.5	ug/L
	Al	27	853080.189	1.5	6946.222	99.66319	2.101	2.1	ug/L
>	Sc	45	419491.265	1.3	426236.083				ug/L
	V	51	1678162.643	2.6	5344.504	99.64779	3.707	3.7	ug/L
	Cr	52	1471911.724	3.8	18378.762	99.61131	5.096	5.1	ug/L
	Cr	53	183701.300	1.0	1484.814	100.03520	1.936	1.9	ug/L
	Mn	55	2198122.006	8.7	742.040	100.04044	9.680	9.7	ug/L
	Co	59	1773631.070	0.9	848.388	99.70254	1.881	1.9	ug/L
	Ni	60	401949.806	2.8	167.670	99.75910	3.849	3.9	ug/L
	Ni	62	59253.575	2.3	209.338	99.73040	3.172	3.2	ug/L
	Cu	63	933542.667	1.4	570.693	99.92203	2.361	2.4	ug/L
	Cu	65	449212.801	0.7	318.010	99.90396	1.556	1.6	ug/L
	Zn	66	259347.283	2.7	2186.325	99.92083	2.957	3.0	ug/L
	Zn	67	45523.863	2.9	469.352	100.10748	3.693	3.7	ug/L
	Zn	68	187131.826	1.2	1708.532	99.78854	2.177	2.2	ug/L
>	Ge	72	235126.153	1.1	235019.833				ug/L
	As	75	299174.231	2.2	174.004	99.84623	2.493	2.5	ug/L
	Se	77	22568.853	0.2	271.738	99.88566	1.102	1.1	ug/L
	Se	78	89112.419	0.8	18294.754	99.88162	1.091	1.1	mg/L
	Se	82	31281.204	0.9	514.483	99.87248	0.847	0.8	ug/L
	Kr	83	500.353	3.1	509.687				mg/L
	Y	89	420864.047	0.4	424645.807				ug/L
	Mo	95	592358.576	2.6	130.336	99.99711	2.055	2.1	ug/L
	Mo	97	357224.947	1.3	59.667	99.86921	1.209	1.2	ug/L
	Mo	98	927080.341	1.4	73.129	99.98460	1.630	1.6	ug/L
	Rh	103	362075.946	2.6	377819.614				ug/L
	Ag	107	1411748.063	2.7	60.668	99.73889	2.074	2.1	ug/L
	Ag	109	1311516.313	1.8	49.001	99.80208	1.300	1.3	ug/L
	Cd	111	312660.529	2.7	302.744	99.94083	2.103	2.1	ug/L
	Cd	114	652338.482	0.7	257.978	99.76139	0.183	0.2	ug/L
>	In	115	361026.126	0.6	368464.817				ug/L
	Sb	121	925877.878	2.1	54.001	99.91868	1.969	2.0	ug/L
	Sb	123	706299.848	0.6	50.513	99.83297	0.167	0.2	ug/L
	Ba	135	259371.528	1.3	123.002	100.00550	1.468	1.5	ug/L
	Ba	137	445378.929	3.0	192.338	99.87763	1.627	1.6	ug/L
>	Tb	159	443781.875	1.4	460537.107				ug/L
>	Ho	165	424257.661	0.6	440378.521				ug/L
	Tl	203	795064.824	2.0	83.668	99.75215	1.453	1.5	ug/L
	Tl	205	1767915.863	0.2	163.337	99.55047	0.455	0.5	ug/L
	Pb	208	2524404.140	1.3	1492.737	99.77836	1.017	1.0	ug/L

Pb	206	667766.773	0.9	397.348	99.88050	0.989	1.0	ug/L
Pb	207	558675.494	2.1	320.010	99.80432	1.649	1.7	ug/L

Quantitative Analysis Calibration Report

File Name: 111706.cal
File Path: C:\elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.00	0.00	0.999981
Al	26.982	Linear Thru Zero	0.02	0.00	0.999866
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V	50.944	Linear Thru Zero	0.04	0.00	0.999870
Cr	51.941	Linear Thru Zero	0.03	0.00	0.999845
Cr	52.941	Linear Thru Zero	0.00	0.00	0.999998
Mn	54.938	Linear Thru Zero	0.09	0.00	0.999997
Co	58.933	Linear Thru Zero	0.08	0.00	0.999909
Ni	59.933	Linear Thru Zero	0.02	0.00	0.999926
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999927
Cu	62.930	Linear Thru Zero	0.04	0.00	0.999992
Cu	64.928	Linear Thru Zero	0.02	0.00	0.999972
Zn	65.926	Linear Thru Zero	0.01	0.00	0.999991
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999982
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999940
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.01	0.00	0.999964
Se	76.920	Linear Thru Zero	0.00	0.00	0.999986
Se	77.917	Linear Thru Zero	0.00	0.00	0.999845
Se	81.917	Linear Thru Zero	0.00	0.00	0.999978
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Mo	94.906	Linear Thru Zero	0.02	0.00	0.999998
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999982
Mo	97.906	Linear Thru Zero	0.03	0.00	0.999996
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
Ag	106.905	Linear Thru Zero	0.04	0.00	0.999931
Ag	108.905	Linear Thru Zero	0.04	0.00	0.999955
Cd	110.904	Linear Thru Zero	0.01	0.00	0.999994
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999941
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb	120.904	Linear Thru Zero	0.03	0.00	0.999988
Sb	122.904	Linear Thru Zero	0.02	0.00	0.999971
Ba	134.906	Linear Thru Zero	0.01	0.00	1.000000
Ba	136.905	Linear Thru Zero	0.01	0.00	0.999983
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Tl	202.972	Linear Thru Zero	0.02	0.00	0.999935
Tl	204.975	Linear Thru Zero	0.04	0.00	0.999798
Pb	207.977	Linear Thru Zero	0.06	0.00	0.999950

Pb	205.975	Linear Thru Zero	0.02	0.00	0.999984
Pb	206.976	Linear Thru Zero	0.01	0.00	0.999952

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, November 17, 2006 15:51:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 1.005

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56511.865	0.2	84.001	46.42722	1.239	2.7	ug/L
	Al	27	448984.968	3.8	6946.222	51.49137	1.882	3.7	ug/L
>	Sc	45	424164.208	2.5	426236.083				ug/L
	V	51	865248.852	1.8	5344.504	50.66471	1.559	3.1	ug/L
	Cr	52	753709.026	0.7	18378.762	49.83415	1.367	2.7	ug/L
	Cr	53	90495.406	2.0	1484.814	48.33748	1.504	3.1	ug/L
	Mn	55	1059542.682	1.6	742.040	49.06845	0.333	0.7	ug/L
	Co	59	894809.658	1.4	848.388	51.21720	1.345	2.6	ug/L
	Ni	60	200103.989	1.5	167.670	50.55613	0.832	1.6	ug/L
	Ni	62	30402.671	1.6	209.338	51.94876	1.023	2.0	ug/L
	Cu	63	460872.934	0.8	570.693	50.21273	0.587	1.2	ug/L
	Cu	65	227893.789	0.7	318.010	51.59831	1.263	2.4	ug/L
	Zn	66	128559.724	0.9	2186.325	50.03895	1.212	2.4	ug/L
	Zn	67	21486.921	4.7	469.352	47.56392	1.714	3.6	ug/L
	Zn	68	93130.254	2.2	1708.532	50.12261	0.655	1.3	ug/L
>	Ge	72	230842.142	1.7	235019.833				ug/L
	As	75	143689.085	1.2	174.004	48.81391	0.304	0.6	ug/L
	Se	77	11430.501	0.7	271.738	50.94032	0.511	1.0	ug/L
	Se	78	52998.706	1.4	18294.754	50.35153	2.348	4.7	mg/L
	Se	82	15820.537	0.4	514.483	50.64605	0.887	1.8	ug/L
	Kr	83	501.353	5.6	509.687				mg/L
	Y	89	434406.583	1.4	424645.807				ug/L
	Mo	95	292633.265	1.4	130.336	49.49398	1.550	3.1	ug/L
	Mo	97	178258.511	0.4	59.667	49.92121	0.853	1.7	ug/L
	Mo	98	461399.418	0.3	73.129	49.85410	1.194	2.4	ug/L
	Rh	103	363423.394	0.2	377819.614				ug/L
	Ag	107	694105.226	0.8	60.668	49.12960	0.643	1.3	ug/L
	Ag	109	651712.098	3.5	49.001	49.67621	1.459	2.9	ug/L
	Cd	111	152845.790	1.8	302.744	48.90539	1.272	2.6	ug/L
	Cd	114	333177.822	1.6	257.978	51.03852	1.667	3.3	ug/L
>	In	115	360433.234	2.1	368464.817				ug/L
	Sb	121	457966.200	1.6	54.001	49.51218	1.103	2.2	ug/L
	Sb	123	344565.876	2.7	50.513	48.80557	2.128	4.4	ug/L
	Ba	135	130017.597	1.8	123.002	49.03501	0.253	0.5	ug/L
	Ba	137	222845.328	1.0	192.338	48.89931	0.396	0.8	ug/L
>	Tb	159	453439.152	1.6	460537.107				ug/L
>	Ho	165	419853.918	1.6	440378.521				ug/L
	Tl	203	398533.476	1.3	83.668	50.52767	0.600	1.2	ug/L
	Tl	205	933784.907	0.2	163.337	53.13586	0.791	1.5	ug/L
	Pb	208	1272251.624	0.8	1492.737	50.79337	0.755	1.5	ug/L

Pb	206	328445.905	1.4	397.348	49.61476	0.450	0.9	ug/L
Pb	207	270021.048	0.7	320.010	48.72967	1.103	2.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	92.854				
	Al	27	102.983				
>	Sc	45		99.514			
	V	51	101.329				
	Cr	52	99.668				
	Cr	53	96.675				
	Mn	55	98.137				
	Co	59	102.434				
	Ni	60	101.112				
	Ni	62	103.898				
	Cu	63	100.425				
	Cu	65	103.197				
	Zn	66	100.078				
	Zn	67	95.128				
	Zn	68	100.245				
>	Ge	72		98.222			
	As	75	97.628				
	Se	77	101.881				
	Se	78	100.703				
	Se	82	101.292				
	Kr	83					
	Y	89					
	Mo	95	98.988				
	Mo	97	99.842				
	Mo	98	99.708				
	Rh	103					
	Ag	107	98.259				
	Ag	109	99.352				
	Cd	111	97.811				
	Cd	114	102.077				
>	In	115		97.820			
	Sb	121	99.024				
	Sb	123	97.611				
	Ba	135	98.070				
	Ba	137	97.799				
>	Tb	159		98.459			
>	Ho	165		95.339			
	Tl	203	101.055				
	Tl	205	106.272				
	Pb	208	101.587				
	Pb	206	99.230				
	Pb	207	97.459				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, November 17, 2006 15:57:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 2.006

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.667	5.1	84.001	-0.01800	0.004	21.3	ug/L
	Al	27	3740.877	1.9	6946.222	-0.35473	0.018	5.1	ug/L
>	Sc	45	410660.495	2.7	426236.083				ug/L
	V	51	4987.886	1.9	5344.504	-0.00956	0.014	144.8	ug/L
	Cr	52	17302.787	1.6	18378.762	-0.02736	0.052	188.9	ug/L
	Cr	53	1285.112	3.2	1484.814	-0.08090	0.039	48.8	ug/L
	Mn	55	633.364	4.8	742.040	-0.00409	0.002	40.8	ug/L
	Co	59	394.347	4.7	848.388	-0.02489	0.001	3.6	ug/L
	Ni	60	141.336	7.6	167.670	-0.00552	0.002	45.1	ug/L
	Ni	62	239.339	3.8	209.338	0.06254	0.013	20.2	ug/L
	Cu	63	300.008	5.9	570.693	-0.02804	0.002	7.9	ug/L
	Cu	65	174.004	7.2	318.010	-0.03093	0.003	8.5	ug/L
	Zn	66	1428.803	1.4	2186.325	-0.27810	0.004	1.4	ug/L
	Zn	67	323.343	6.3	469.352	-0.30306	0.052	17.2	ug/L
	Zn	68	1173.428	2.5	1708.532	-0.26949	0.012	4.4	ug/L
>	Ge	72	228290.103	0.8	235019.833				ug/L
	As	75	198.338	10.0	174.004	0.01005	0.006	63.0	ug/L
	Se	77	269.671	6.1	271.738	0.02602	0.067	256.5	ug/L
	Se	78	17361.678	0.6	18294.754	-0.59418	0.061	10.2	mg/L
	Se	82	517.149	3.5	514.483	0.05793	0.047	81.3	ug/L
	Kr	83	501.020	3.8	509.687				mg/L
	Y	89	410991.155	2.1	424645.807				ug/L
	Mo	95	952.399	19.3	130.336	0.14186	0.035	24.5	ug/L
	Mo	97	573.026	21.4	59.667	0.14653	0.038	26.0	ug/L
	Mo	98	1412.305	24.3	73.129	0.14717	0.041	27.6	ug/L
	Rh	103	361274.411	1.8	377819.614				ug/L
	Ag	107	164.337	12.1	60.668	0.00757	0.001	19.8	ug/L
	Ag	109	136.336	17.4	49.001	0.00688	0.002	28.8	ug/L
	Cd	111	222.707	1.3	302.744	-0.02268	0.002	9.2	ug/L
	Cd	114	78.124	14.1	257.978	-0.02657	0.002	6.1	ug/L
>	In	115	356292.877	2.1	368464.817				ug/L
	Sb	121	1241.440	14.9	54.001	0.13036	0.023	17.6	ug/L
	Sb	123	952.255	11.5	50.513	0.12965	0.018	14.2	ug/L
	Ba	135	52.334	9.4	123.002	-0.02547	0.002	8.6	ug/L
	Ba	137	62.668	7.2	192.338	-0.02749	0.001	4.2	ug/L
>	Tb	159	442838.349	1.3	460537.107				ug/L
>	Ho	165	413178.743	0.5	440378.521				ug/L
	Tl	203	103.335	2.0	83.668	0.00320	0.000	10.2	ug/L
	Tl	205	196.671	3.9	163.337	0.00251	0.000	18.8	ug/L
	Pb	208	580.347	6.5	1492.737	-0.03331	0.001	4.3	ug/L

	Pb	206	144.669	7.3	397.348	-0.03506	0.002	4.3	ug/L
	Pb	207	142.669	12.6	320.010	-0.02893	0.003	11.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		96.346			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.137			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.697			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.157			
>	Ho	165		93.824			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, November 17, 2006 16:03:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 3.007

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1258.108	2.7	84.001	0.98647	0.008	0.9	ug/L
	Al	27	94962.967	0.5	6946.222	10.47999	0.363	3.5	ug/L
>	Sc	45	415925.946	2.8	426236.083				ug/L
	V	51	23342.549	1.2	5344.504	1.08925	0.033	3.0	ug/L
	Cr	52	33355.628	1.2	18378.762	1.06671	0.083	7.8	ug/L
	Cr	53	3129.952	2.2	1484.814	0.93191	0.078	8.4	ug/L
	Mn	55	22468.812	1.5	742.040	1.01184	0.007	0.7	ug/L
	Co	59	19463.568	1.4	848.388	1.07176	0.001	0.1	ug/L
	Ni	60	4362.186	2.7	167.670	1.06632	0.046	4.3	ug/L
	Ni	62	825.716	5.7	209.338	1.07316	0.094	8.7	ug/L
	Cu	63	9985.746	0.5	570.693	1.03277	0.020	1.9	ug/L
	Cu	65	4702.040	0.8	318.010	0.99964	0.021	2.1	ug/L
	Zn	66	15657.854	1.2	2186.325	5.37272	0.022	0.4	ug/L
	Zn	67	2595.097	1.6	469.352	4.85527	0.186	3.8	ug/L
	Zn	68	11237.017	0.5	1708.532	5.26551	0.074	1.4	ug/L
>	Ge	72	229877.869	1.5	235019.833				ug/L
	As	75	3236.327	1.2	174.004	1.04747	0.029	2.8	ug/L
	Se	77	489.281	1.9	271.738	1.02468	0.075	7.3	ug/L
	Se	78	18084.396	2.0	18294.754	0.28293	0.918	324.6	mg/L
	Se	82	812.906	1.2	514.483	1.02829	0.020	2.0	ug/L
	Kr	83	517.355	5.7	509.687				mg/L
	Y	89	416197.904	2.4	424645.807				ug/L
	Mo	95	6320.126	1.8	130.336	1.02752	0.022	2.1	ug/L
	Mo	97	3854.931	3.6	59.667	1.04313	0.035	3.4	ug/L
	Mo	98	9907.044	2.0	73.129	1.04262	0.024	2.3	ug/L
	Rh	103	364921.661	1.3	377819.614				ug/L
	Ag	107	15542.636	0.5	60.668	1.07531	0.003	0.3	ug/L
	Ag	109	14189.880	1.0	49.001	1.05787	0.013	1.2	ug/L
	Cd	111	3416.504	4.5	302.744	0.97973	0.051	5.2	ug/L
	Cd	114	6831.707	1.7	257.978	0.98874	0.020	2.0	ug/L
>	In	115	367281.262	0.3	368464.817				ug/L
	Sb	121	10001.098	0.9	54.001	1.05527	0.009	0.9	ug/L
	Sb	123	7702.824	1.6	50.513	1.06329	0.016	1.5	ug/L
	Ba	135	2851.183	2.4	123.002	1.05959	0.030	2.8	ug/L
	Ba	137	4928.506	1.4	192.338	1.06978	0.011	1.0	ug/L
>	Tb	159	441601.388	1.5	460537.107				ug/L
>	Ho	165	424851.855	2.7	440378.521				ug/L
	Tl	203	8488.741	2.1	83.668	1.05450	0.051	4.8	ug/L
	Tl	205	20113.111	0.4	163.337	1.12268	0.027	2.4	ug/L
	Pb	208	27818.542	0.3	1492.737	1.04231	0.030	2.9	ug/L

|	Pb	206	7225.538	2.2	397.348	1.02331	0.047	4.6	ug/L
L	Pb	207	6125.645	1.2	320.010	1.03905	0.041	3.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	98.647				
	Al	27	104.800				
>	Sc	45		97.581			
	V	51	108.925				
	Cr	52	106.671				
	Cr	53	93.191				
	Mn	55	101.184				
	Co	59	107.176				
	Ni	60	106.632				
	Ni	62	107.316				
	Cu	63	103.277				
	Cu	65	99.964				
	Zn	66	107.454				
	Zn	67	97.105				
	Zn	68	105.310				
>	Ge	72		97.812			
	As	75	104.747				
	Se	77	102.468				
	Se	78	28.293				
	Se	82	102.829				
	Kr	83					
	Y	89					
	Mo	95	102.752				
	Mo	97	104.313				
	Mo	98	104.262				
	Rh	103					
	Ag	107	107.531				
	Ag	109	105.787				
	Cd	111	97.973				
	Cd	114	98.874				
>	In	115		99.679			
	Sb	121	105.527				
	Sb	123	106.329				
	Ba	135	105.959				
	Ba	137	106.978				
>	Tb	159		95.888			
>	Ho	165		96.474			
	Tl	203	105.450				
	Tl	205	112.268				
	Pb	208	104.231				
	Pb	206	102.331				
	Pb	207	103.905				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, November 17, 2006 16:09:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 4.008

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	70.334	9.0	84.001	-0.01070	0.005	45.7	ug/L
	Al	27	196112963.328	1.7	6946.222	22928.93061	595.044	2.6	ug/L
>	Sc	45	422553.870	0.9	426236.083				ug/L
	V	51	4667.797	4.8	5344.504	-0.03729	0.012	33.0	ug/L
	Cr	52	33045.056	1.0	18378.762	1.00819	0.039	3.8	ug/L
	Cr	53	8856.486	9.3	1484.814	4.02549	0.476	11.8	ug/L
	Mn	55	8503.423	2.1	742.040	0.32211	0.008	2.4	ug/L
	Co	59	1345.789	6.8	848.388	0.02186	0.004	18.5	ug/L
	Ni	60	3244.333	8.0	167.670	0.69880	0.053	7.5	ug/L
	Ni	62	2673.457	8.3	209.338	3.79883	0.335	8.8	ug/L
	Cu	63	12880.419	4.0	570.693	1.20739	0.041	3.4	ug/L
	Cu	65	5383.460	2.7	318.010	1.03104	0.019	1.8	ug/L
	Zn	66	7125.117	1.9	2186.325	1.69651	0.033	2.0	ug/L
	Zn	67	2893.198	4.5	469.352	4.86872	0.251	5.1	ug/L
	Zn	68	3801.238	2.4	1708.532	0.96213	0.064	6.7	ug/L
>	Ge	72	255613.871	1.0	235019.833				ug/L
	As	75	2636.778	5.4	174.004	0.75155	0.037	5.0	ug/L
	Se	77	1061.734	3.6	271.738	3.15621	0.115	3.6	ug/L
	Se	78	18392.848	1.4	18294.754	-1.95249	0.239	12.3	mg/L
	Se	82	591.488	1.4	514.483	0.09527	0.007	7.1	ug/L
	Kr	83	634.364	3.4	509.687				mg/L
	Y	89	436252.235	2.4	424645.807				ug/L
	Mo	95	2774121.010	2.8	130.336	467.81973	8.669	1.9	ug/L
	Mo	97	1467595.847	1.1	59.667	409.98528	12.053	2.9	ug/L
	Mo	98	4338628.926	2.2	73.129	467.47394	14.403	3.1	ug/L
	Rh	103	369740.711	2.3	377819.614				ug/L
	Ag	107	443.683	1.6	60.668	0.02713	0.001	4.9	ug/L
	Ag	109	391.346	3.7	49.001	0.02611	0.002	6.4	ug/L
	Cd	111	354.165	46.5	302.744	0.01734	0.049	280.8	ug/L
	Cd	114	4402.994	0.8	257.978	0.63426	0.014	2.2	ug/L
>	In	115	361527.087	2.8	368464.817				ug/L
	Sb	121	3470.424	2.1	54.001	0.36865	0.018	4.9	ug/L
	Sb	123	2531.236	0.4	50.513	0.35052	0.011	3.1	ug/L
	Ba	135	142.669	7.4	123.002	0.00965	0.004	45.1	ug/L
	Ba	137	221.005	10.7	192.338	0.00830	0.005	63.8	ug/L
>	Tb	159	441138.546	0.4	460537.107				ug/L
>	Ho	165	416006.118	1.2	440378.521				ug/L
	Tl	203	855.386	14.7	83.668	0.09946	0.017	17.2	ug/L
	Tl	205	2012.269	19.9	163.337	0.10683	0.024	22.3	ug/L
	Pb	208	6572.408	1.9	1492.737	0.20827	0.008	3.8	ug/L

Pb	206	1659.182	1.0	397.348	0.19599	0.005	2.7	ug/L
Pb	207	1458.809	4.8	320.010	0.21091	0.015	7.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	114.645				
>	Sc	45		99.136			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.763			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	116.955				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.117			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.788			
>	Ho	165		94.466			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, November 17, 2006 16:15:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 5.009

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	65.668	13.0	84.001	-0.01480	0.006	41.5	ug/L
	Al	27	195180081.793	0.8	6946.222	22735.62825	560.056	2.5	ug/L
>	Sc	45	424236.013	2.7	426236.083				ug/L
	V	51	-2484.067	66.1	5344.504	-0.45922	0.096	21.0	ug/L
	Cr	52	352870.284	0.2	18378.762	22.66935	0.609	2.7	ug/L
	Cr	53	48250.107	1.1	1484.814	25.39133	0.439	1.7	ug/L
	Mn	55	453327.270	2.1	742.040	18.85894	0.278	1.5	ug/L
	Co	59	383522.530	3.1	848.388	19.71568	0.879	4.5	ug/L
	Ni	60	86000.686	0.5	167.670	19.51543	0.295	1.5	ug/L
	Ni	62	15013.337	3.0	209.338	22.86715	0.396	1.7	ug/L
	Cu	63	189381.028	0.8	570.693	18.51640	0.130	0.7	ug/L
	Cu	65	90176.859	0.5	318.010	18.31256	0.152	0.8	ug/L
	Zn	66	55226.676	2.3	2186.325	18.80847	0.578	3.1	ug/L
	Zn	67	10228.044	2.2	469.352	19.77636	0.721	3.6	ug/L
	Zn	68	37527.018	0.8	1708.532	17.58037	0.354	2.0	ug/L
>	Ge	72	256682.171	1.3	235019.833				ug/L
	As	75	66369.604	1.3	174.004	20.24684	0.535	2.6	ug/L
	Se	77	1148.346	2.4	271.738	3.49578	0.179	5.1	ug/L
	Se	78	18410.568	1.9	18294.754	-2.02984	0.203	10.0	mg/L
	Se	82	588.221	1.3	514.483	0.07858	0.041	52.5	ug/L
	Kr	83	612.029	4.9	509.687				mg/L
	Y	89	443796.264	1.3	424645.807				ug/L
	Mo	95	2868471.396	2.2	130.336	480.35339	13.976	2.9	ug/L
	Mo	97	1465490.172	0.6	59.667	406.33307	3.777	0.9	ug/L
	Mo	98	4456108.481	0.5	73.129	476.57689	3.344	0.7	ug/L
	Rh	103	372651.296	0.9	377819.614				ug/L
	Ag	107	290946.743	2.1	60.668	20.38502	0.632	3.1	ug/L
	Ag	109	264996.920	1.4	49.001	19.99683	0.466	2.3	ug/L
	Cd	111	63419.679	1.6	302.744	20.03097	0.528	2.6	ug/L
	Cd	114	135851.362	2.0	257.978	20.56894	0.217	1.1	ug/L
>	In	115	364087.745	1.0	368464.817				ug/L
	Sb	121	3188.642	2.7	54.001	0.33558	0.011	3.3	ug/L
	Sb	123	2426.259	1.2	50.513	0.33311	0.005	1.5	ug/L
	Ba	135	145.669	1.4	123.002	0.01088	0.002	15.2	ug/L
	Ba	137	217.672	2.5	192.338	0.00762	0.002	26.9	ug/L
>	Tb	159	440698.470	2.2	460537.107				ug/L
>	Ho	165	409817.067	1.0	440378.521				ug/L
	Tl	203	685.368	4.4	83.668	0.07890	0.003	3.9	ug/L
	Tl	205	1599.170	7.7	163.337	0.08433	0.006	7.4	ug/L
	Pb	208	1787.758	1.1	1492.737	0.01632	0.001	3.5	ug/L

Pb	206	472.018	7.4	397.348	0.01588	0.006	38.5	ug/L
Pb	207	401.014	3.5	320.010	0.01910	0.003	13.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	113.678				
>	Sc	45		99.531			
	V	51					
	Cr	52	113.347				
	Cr	53	126.957				
	Mn	55	94.295				
	Co	59	98.578				
	Ni	60	97.577				
	Ni	62	114.336				
	Cu	63	92.582				
	Cu	65	91.563				
	Zn	66	94.042				
	Zn	67	98.882				
	Zn	68	87.902				
>	Ge	72		109.217			
	As	75	101.234				
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	120.088				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107	101.925				
	Ag	109	99.984				
	Cd	111	100.155				
	Cd	114	102.845				
>	In	115		98.812			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.692			
>	Ho	165		93.060			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, November 17, 2006 16:21:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 6.010

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58367.287	1.0	84.001	48.50948	0.616	1.3	ug/L
	Al	27	439442.754	4.0	6946.222	50.96898	1.279	2.5	ug/L
>	Sc	45	419201.213	2.2	426236.083				ug/L
	V	51	891941.812	3.5	5344.504	52.83093	1.028	1.9	ug/L
	Cr	52	763571.305	3.2	18378.762	51.09060	1.097	2.1	ug/L
	Cr	53	94233.178	1.8	1484.814	50.97988	1.952	3.8	ug/L
	Mn	55	1074292.302	1.4	742.040	47.63077	0.214	0.5	ug/L
	Co	59	931419.973	1.6	848.388	51.03262	0.812	1.6	ug/L
	Ni	60	204717.757	3.2	167.670	49.52927	2.118	4.3	ug/L
	Ni	62	30506.711	0.8	209.338	49.89121	0.711	1.4	ug/L
	Cu	63	484253.875	1.9	570.693	50.51949	1.475	2.9	ug/L
	Cu	65	238101.240	3.7	318.010	51.61457	2.332	4.5	ug/L
	Zn	66	130308.392	1.7	2186.325	48.53288	1.355	2.8	ug/L
	Zn	67	23195.135	0.6	469.352	49.21208	0.751	1.5	ug/L
	Zn	68	96387.693	2.2	1708.532	49.67147	1.630	3.3	ug/L
>	Ge	72	241103.077	1.1	235019.833				ug/L
	As	75	153541.112	0.3	174.004	49.94439	0.700	1.4	ug/L
	Se	77	12011.450	0.5	271.738	51.25540	0.373	0.7	ug/L
	Se	78	56177.196	0.8	18294.754	51.46198	0.924	1.8	mg/L
	Se	82	16609.204	1.3	514.483	50.91295	1.064	2.1	ug/L
	Kr	83	509.687	5.7	509.687				mg/L
	Y	89	440702.006	1.4	424645.807				ug/L
	Mo	95	304747.667	1.5	130.336	50.79518	0.964	1.9	ug/L
	Mo	97	188388.041	2.0	59.667	51.99470	0.648	1.2	ug/L
	Mo	98	480315.899	2.4	73.129	51.14310	1.027	2.0	ug/L
	Rh	103	362641.310	1.6	377819.614				ug/L
	Ag	107	722736.231	0.9	60.668	50.42821	1.009	2.0	ug/L
	Ag	109	677190.618	0.6	49.001	50.89121	0.912	1.8	ug/L
	Cd	111	159422.798	2.2	302.744	50.27576	1.013	2.0	ug/L
	Cd	114	338808.418	0.8	257.978	51.14950	0.907	1.8	ug/L
>	In	115	365628.772	1.2	368464.817				ug/L
	Sb	121	458486.203	2.0	54.001	48.86508	1.541	3.2	ug/L
	Sb	123	358126.243	1.0	50.513	49.98451	0.826	1.7	ug/L
	Ba	135	131757.593	1.7	123.002	51.77595	1.360	2.6	ug/L
	Ba	137	235195.710	1.6	192.338	53.75960	0.340	0.6	ug/L
>	Tb	159	435290.615	1.2	460537.107				ug/L
>	Ho	165	420270.554	1.5	440378.521				ug/L
	Tl	203	402983.658	0.1	83.668	51.04461	0.709	1.4	ug/L
	Tl	205	911051.208	1.6	163.337	51.78244	0.275	0.5	ug/L
	Pb	208	1258695.525	0.2	1492.737	50.20144	0.672	1.3	ug/L

Pb	206	326032.133	0.6	397.348	49.20745	0.929	1.9	ug/L
Pb	207	273347.718	1.4	320.010	49.27093	0.360	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	97.019				
	Al	27	101.938				
>	Sc	45		98.350			
	V	51	105.662				
	Cr	52	102.181				
	Cr	53	101.960				
	Mn	55	95.262				
	Co	59	102.065				
	Ni	60	99.059				
	Ni	62	99.782				
	Cu	63	101.039				
	Cu	65	103.229				
	Zn	66	97.066				
	Zn	67	98.424				
	Zn	68	99.343				
>	Ge	72		102.588			
	As	75	99.889				
	Se	77	102.511				
	Se	78	102.924				
	Se	82	101.826				
	Kr	83					
	Y	89					
	Mo	95	101.590				
	Mo	97	103.989				
	Mo	98	102.286				
	Rh	103					
	Ag	107	100.856				
	Ag	109	101.782				
	Cd	111	100.552				
	Cd	114	102.299				
>	In	115		99.230			
	Sb	121	97.730				
	Sb	123	99.969				
	Ba	135	103.552				
	Ba	137	107.519				
>	Tb	159		94.518			
>	Ho	165		95.434			
	Tl	203	102.089				
	Tl	205	103.565				
	Pb	208	100.403				
	Pb	206	98.415				
	Pb	207	98.542				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, November 17, 2006 16:27:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 7.011

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	67.334	7.6	84.001	-0.01304	0.004	32.4	ug/L
	Al	27	4065.365	0.8	6946.222	-0.32873	0.009	2.8	ug/L
>	Sc	45	421742.247	2.2	426236.083				ug/L
	V	51	5143.035	2.8	5344.504	-0.00840	0.014	169.3	ug/L
	Cr	52	18086.458	1.9	18378.762	-0.00606	0.047	773.9	ug/L
	Cr	53	2012.597	2.5	1484.814	0.29720	0.044	14.7	ug/L
	Mn	55	636.031	3.1	742.040	-0.00480	0.001	18.0	ug/L
	Co	59	336.677	1.9	848.388	-0.02877	0.000	0.2	ug/L
	Ni	60	156.336	7.7	167.670	-0.00273	0.004	134.8	ug/L
	Ni	62	210.005	2.2	209.338	0.00151	0.009	593.6	ug/L
	Cu	63	275.341	12.0	570.693	-0.03165	0.003	9.7	ug/L
	Cu	65	176.004	4.7	318.010	-0.03159	0.001	3.8	ug/L
	Zn	66	1521.821	2.9	2186.325	-0.25751	0.024	9.4	ug/L
	Zn	67	408.681	6.9	469.352	-0.13455	0.046	34.5	ug/L
	Zn	68	1174.428	1.2	1708.532	-0.28688	0.008	2.6	ug/L
>	Ge	72	234819.175	2.3	235019.833				ug/L
	As	75	269.007	7.8	174.004	0.03183	0.007	22.1	ug/L
	Se	77	306.472	1.8	271.738	0.15715	0.031	19.7	ug/L
	Se	78	18094.028	0.1	18294.754	-0.25251	0.591	234.0	mg/L
	Se	82	535.351	1.6	514.483	0.06966	0.038	54.3	ug/L
	Kr	83	519.021	3.8	509.687				mg/L
	Y	89	438518.179	3.5	424645.807				ug/L
	Mo	95	1473.148	20.1	130.336	0.23422	0.055	23.3	ug/L
	Mo	97	908.394	22.3	59.667	0.24490	0.062	25.1	ug/L
	Mo	98	2254.350	17.6	73.129	0.24224	0.047	19.4	ug/L
	Rh	103	373679.619	2.2	377819.614				ug/L
	Ag	107	142.336	16.5	60.668	0.00611	0.002	25.8	ug/L
	Ag	109	121.335	2.4	49.001	0.00582	0.000	2.6	ug/L
	Cd	111	214.987	5.6	302.744	-0.02426	0.005	19.9	ug/L
	Cd	114	74.104	10.2	257.978	-0.02702	0.001	4.9	ug/L
>	In	115	351704.112	1.3	368464.817				ug/L
	Sb	121	1029.075	17.1	54.001	0.10847	0.021	19.2	ug/L
	Sb	123	764.047	17.7	50.513	0.10405	0.021	20.2	ug/L
	Ba	135	53.334	22.2	123.002	-0.02535	0.004	17.0	ug/L
	Ba	137	60.667	17.5	192.338	-0.02811	0.002	7.8	ug/L
>	Tb	159	447571.410	1.3	460537.107				ug/L
>	Ho	165	411482.197	0.6	440378.521				ug/L
	Tl	203	156.336	1.0	83.668	0.01011	0.000	1.2	ug/L
	Tl	205	332.677	6.7	163.337	0.01046	0.001	12.8	ug/L
	Pb	208	499.010	4.3	1492.737	-0.03653	0.001	2.3	ug/L

Pb	206	144.003	6.3	397.348	-0.03506	0.002	4.3	ug/L
Pb	207	116.335	11.7	320.010	-0.03367	0.002	7.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.946			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.915			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		95.451			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.185			
>	Ho	165		93.438			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, November 17, 2006 16:33:38
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 8.012

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	120415.645	0.7	84.001	102.38298	2.036	2.0	ug/L
	Al	27	838154.174	1.7	6946.222	100.18195	2.781	2.8	ug/L
>	Sc	45	410081.294	1.6	426236.083				ug/L
	V	51	1686553.863	2.2	5344.504	102.46226	3.787	3.7	ug/L
	Cr	52	1475734.434	4.5	18378.762	102.21034	6.059	5.9	ug/L
	Cr	53	185568.933	0.5	1484.814	103.40519	2.119	2.0	ug/L
	Mn	55	2381303.588	0.8	742.040	107.68151	1.555	1.4	ug/L
	Co	59	1775523.110	1.2	848.388	99.22728	2.399	2.4	ug/L
	Ni	60	402379.315	1.6	167.670	99.25235	1.266	1.3	ug/L
	Ni	62	59670.475	0.8	209.338	99.82765	1.067	1.1	ug/L
	Cu	63	931935.138	1.2	570.693	99.16371	2.223	2.2	ug/L
	Cu	65	458331.505	1.3	318.010	101.32284	0.557	0.5	ug/L
	Zn	66	261767.929	3.1	2186.325	100.24098	2.054	2.0	ug/L
	Zn	67	46439.188	1.6	469.352	101.52073	1.834	1.8	ug/L
	Zn	68	192581.787	3.4	1708.532	102.11899	4.233	4.1	ug/L
>	Ge	72	236527.316	1.6	235019.833				ug/L
	As	75	311669.759	0.4	174.004	103.41774	2.169	2.1	ug/L
	Se	77	23390.118	1.4	271.738	102.94251	1.144	1.1	ug/L
	Se	78	93109.892	3.8	18294.754	104.74337	4.756	4.5	mg/L
	Se	82	32162.752	1.1	514.483	102.12388	1.442	1.4	ug/L
	Kr	83	513.688	5.1	509.687				mg/L
	Y	89	431690.767	0.4	424645.807				ug/L
	Mo	95	593530.065	2.3	130.336	100.91175	2.465	2.4	ug/L
	Mo	97	362415.189	0.8	59.667	102.03508	0.849	0.8	ug/L
	Mo	98	921411.226	1.5	73.129	100.06810	1.269	1.3	ug/L
	Rh	103	356524.638	4.7	377819.614				ug/L
	Ag	107	1416632.599	2.1	60.668	100.80015	2.252	2.2	ug/L
	Ag	109	1309265.486	1.5	49.001	100.34112	1.824	1.8	ug/L
	Cd	111	314486.368	0.1	302.744	101.24374	0.381	0.4	ug/L
	Cd	114	651155.386	1.1	257.978	100.28542	1.363	1.4	ug/L
>	In	115	358498.758	0.3	368464.817				ug/L
	Sb	121	920720.193	0.4	54.001	100.06370	0.629	0.6	ug/L
	Sb	123	717484.433	1.3	50.513	102.13154	1.585	1.6	ug/L
	Ba	135	255020.848	1.6	123.002	100.65786	3.214	3.2	ug/L
	Ba	137	444036.494	0.7	192.338	101.93905	1.363	1.3	ug/L
>	Tb	159	433632.083	1.9	460537.107				ug/L
>	Ho	165	413272.825	0.8	440378.521				ug/L
	Tl	203	779389.970	1.8	83.668	100.39285	1.846	1.8	ug/L
	Tl	205	1713550.803	2.1	163.337	99.06022	2.517	2.5	ug/L
	Pb	208	2445609.009	0.8	1492.737	99.23509	0.555	0.6	ug/L

	Pb	206	655188.856	0.8	397.348	100.60642	1.128	1.1	ug/L
	Pb	207	547389.667	2.1	320.010	100.38638	1.368	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	102.383				
	Al	27	100.182				
>	Sc	45		96.210			
	V	51	102.462				
	Cr	52	102.210				
	Cr	53	103.405				
	Mn	55	107.682				
	Co	59	99.227				
	Ni	60	99.252				
	Ni	62	99.828				
	Cu	63	99.164				
	Cu	65	101.323				
	Zn	66	100.241				
	Zn	67	101.521				
	Zn	68	102.119				
>	Ge	72		100.641			
	As	75	103.418				
	Se	77	102.943				
	Se	78					
	Se	82	102.124				
	Kr	83					
	Y	89					
	Mo	95	100.912				
	Mo	97	102.035				
	Mo	98	100.068				
	Rh	103					
	Ag	107	100.800				
	Ag	109	100.341				
	Cd	111	101.244				
	Cd	114	100.285				
>	In	115		97.295			
	Sb	121	100.064				
	Sb	123	102.132				
	Ba	135	100.658				
	Ba	137	101.939				
>	Tb	159		94.158			
>	Ho	165		93.845			
	Tl	203	100.393				
	Tl	205	99.060				
	Pb	208	99.235				
	Pb	206	100.606				
	Pb	207	100.386				

Elan 9000 Method 6020 - Summary Report

Sample ID: PBW-M3990143

Sample Date/Time: Friday, November 17, 2006 16:39:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\PBW-M3990143.013

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	58.334	14.6	84.001	-0.01915	0.009	47.6	ug/L
	Al	27	6289.437	3.2	6946.222	-0.05062	0.035	69.3	ug/L
>	Sc	45	412189.320	3.8	426236.083				ug/L
	V	51	5300.293	5.0	5344.504	0.00870	0.028	325.6	ug/L
	Cr	52	18199.373	2.2	18378.762	0.03146	0.071	226.4	ug/L
	Cr	53	1674.852	2.0	1484.814	0.13482	0.054	39.9	ug/L
	Mn	55	871.388	4.5	742.040	0.00561	0.003	45.9	ug/L
	Co	59	273.341	3.7	848.388	-0.03246	0.001	2.6	ug/L
	Ni	60	220.005	4.1	167.670	0.01257	0.002	19.2	ug/L
	Ni	62	222.339	3.8	209.338	0.01917	0.020	102.7	ug/L
	Cu	63	389.346	10.0	570.693	-0.01969	0.005	25.4	ug/L
	Cu	65	228.339	9.1	318.010	-0.02032	0.005	25.9	ug/L
	Zn	66	1583.833	4.1	2186.325	-0.23908	0.023	9.7	ug/L
	Zn	67	380.012	5.7	469.352	-0.20577	0.029	13.9	ug/L
	Zn	68	1216.768	4.2	1708.532	-0.26980	0.030	11.3	ug/L
>	Ge	72	236924.236	2.3	235019.833				ug/L
	As	75	248.006	3.6	174.004	0.02408	0.003	13.5	ug/L
	Se	77	290.072	0.7	271.738	0.07207	0.024	33.3	ug/L
	Se	78	17909.577	0.4	18294.754	-0.73651	0.670	91.0	mg/L
	Se	82	543.684	1.3	514.483	0.08140	0.054	66.7	ug/L
	Kr	83	520.688	4.2	509.687				mg/L
	Y	89	430302.997	3.0	424645.807				ug/L
	Mo	95	2179.998	35.8	130.336	0.34851	0.134	38.3	ug/L
	Mo	97	1257.448	33.6	59.667	0.33706	0.120	35.5	ug/L
	Mo	98	3289.045	33.4	73.129	0.34902	0.121	34.6	ug/L
	Rh	103	358373.495	2.0	377819.614				ug/L
	Ag	107	189.671	5.6	60.668	0.00926	0.001	8.9	ug/L
	Ag	109	156.003	2.6	49.001	0.00827	0.000	4.8	ug/L
	Cd	111	226.409	1.8	302.744	-0.02216	0.001	5.6	ug/L
	Cd	114	79.084	26.4	257.978	-0.02650	0.003	12.4	ug/L
>	In	115	359493.040	1.3	368464.817				ug/L
	Sb	121	1367.128	16.7	54.001	0.14265	0.026	18.2	ug/L
	Sb	123	1059.756	18.6	50.513	0.14358	0.029	20.0	ug/L
	Ba	135	74.001	3.6	123.002	-0.01658	0.001	5.4	ug/L
	Ba	137	98.668	5.0	192.338	-0.01898	0.001	6.2	ug/L
>	Tb	159	434732.902	0.7	460537.107				ug/L
>	Ho	165	422724.932	1.8	440378.521				ug/L
	Tl	203	100.668	13.6	83.668	0.00258	0.002	73.4	ug/L
	Tl	205	180.337	15.0	163.337	0.00134	0.002	117.0	ug/L
	Pb	208	564.013	5.2	1492.737	-0.03448	0.001	3.9	ug/L

Pb	206	158.003	10.6	397.348	-0.03353	0.003	8.4	ug/L
Pb	207	135.669	14.3	320.010	-0.03077	0.003	11.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		96.704			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.810			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.565			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.397			
>	Ho	165		95.991			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: LCSW-M3990143

Sample Date/Time: Friday, November 17, 2006 16:45:33
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\LCSW-M3990143.014

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23056.100	3.0	84.001	17.26195	0.751	4.3	ug/L
	Al	27	207003.017	4.1	6946.222	21.21433	0.572	2.7	ug/L
>	Sc	45	464270.837	1.7	426236.083				ug/L
	V	51	398968.122	1.6	5344.504	21.15456	0.252	1.2	ug/L
	Cr	52	351652.222	0.7	18378.762	20.52635	0.393	1.9	ug/L
	Cr	53	42020.799	2.2	1484.814	20.04219	0.673	3.4	ug/L
	Mn	55	475106.918	1.6	742.040	20.28934	0.682	3.4	ug/L
	Co	59	415796.526	2.1	848.388	21.92605	0.130	0.6	ug/L
	Ni	60	90116.988	3.7	167.670	20.98742	0.942	4.5	ug/L
	Ni	62	13565.840	2.5	209.338	21.18652	0.879	4.1	ug/L
	Cu	63	213020.738	1.9	570.693	21.37699	0.170	0.8	ug/L
	Cu	65	98358.161	1.8	318.010	20.50487	0.574	2.8	ug/L
	Zn	66	51634.346	1.6	2186.325	18.01277	0.683	3.8	ug/L
	Zn	67	9190.825	1.4	469.352	18.15141	0.554	3.1	ug/L
	Zn	68	37934.861	0.6	1708.532	18.26932	0.445	2.4	ug/L
>	Ge	72	250195.567	2.2	235019.833				ug/L
	As	75	57839.696	2.6	174.004	18.09449	0.471	2.6	ug/L
	Se	77	4185.251	1.2	271.738	16.40666	0.469	2.9	ug/L
	Se	78	31965.567	2.2	18294.754	16.56444	1.124	6.8	mg/L
	Se	82	5794.481	0.9	514.483	16.00932	0.301	1.9	ug/L
	Kr	83	548.024	0.9	509.687				mg/L
	Y	89	459368.423	1.5	424645.807				ug/L
	Mo	95	134701.970	5.8	130.336	21.32312	0.839	3.9	ug/L
	Mo	97	80491.257	3.2	59.667	21.11106	0.370	1.8	ug/L
	Mo	98	209284.993	2.0	73.129	21.18984	0.637	3.0	ug/L
	Rh	103	381544.697	0.6	377819.614				ug/L
	Ag	107	309202.580	1.7	60.668	20.50971	0.357	1.7	ug/L
	Ag	109	290987.680	1.7	49.001	20.78779	0.184	0.9	ug/L
	Cd	111	62175.672	1.3	302.744	18.58695	0.397	2.1	ug/L
	Cd	114	133603.639	1.3	257.978	19.16100	0.721	3.8	ug/L
>	In	115	384586.366	2.5	368464.817				ug/L
	Sb	121	189811.900	1.5	54.001	19.23507	0.675	3.5	ug/L
	Sb	123	147564.153	2.5	50.513	19.57459	0.088	0.5	ug/L
	Ba	135	55999.817	2.3	123.002	21.20243	0.513	2.4	ug/L
	Ba	137	98441.155	2.0	192.338	21.68670	0.448	2.1	ug/L
>	Tb	159	451141.566	0.6	460537.107				ug/L
>	Ho	165	432392.145	0.5	440378.521				ug/L
	Tl	203	166479.819	0.4	83.668	20.48745	0.036	0.2	ug/L
	Tl	205	393247.848	1.5	163.337	21.71903	0.226	1.0	ug/L
	Pb	208	536402.122	0.6	1492.737	20.75819	0.158	0.8	ug/L

	Pb	206	139042.420	0.2	397.348	20.36032	0.139	0.7	ug/L
	Pb	207	114185.141	0.8	320.010	19.97221	0.232	1.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		108.923			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		106.457			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.375			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.960			
>	Ho	165		98.186			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950466

Sample Date/Time: Friday, November 17, 2006 16:51:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950466.015

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	86.335	12.3	84.001	-0.00904	0.008	88.7	ug/L
	Al	27	1246220.354	0.7	6946.222	121.11723	2.301	1.9	ug/L
>	Sc	45	504993.767	1.2	426236.083				ug/L
	V	51	12712.198	4.7	5344.504	0.31589	0.037	11.6	ug/L
	Cr	52	53327.976	1.4	18378.762	1.79567	0.074	4.1	ug/L
	Cr	53	5727.025	2.8	1484.814	1.80871	0.043	2.4	ug/L
	Mn	55	1371463.962	1.1	742.040	58.14834	0.750	1.3	ug/L
	Co	59	6572.657	2.1	848.388	0.29689	0.007	2.4	ug/L
	Ni	60	23124.940	0.6	167.670	5.31068	0.045	0.9	ug/L
	Ni	62	2586.761	1.8	209.338	3.71961	0.081	2.2	ug/L
	Cu	63	9803.195	1.9	570.693	0.91768	0.018	1.9	ug/L
	Cu	65	4989.210	2.8	318.010	0.96444	0.029	3.0	ug/L
	Zn	66	8941.552	2.1	2186.325	2.38953	0.073	3.1	ug/L
	Zn	67	1824.885	1.0	469.352	2.73687	0.037	1.4	ug/L
	Zn	68	8973.254	2.9	1708.532	3.58222	0.122	3.4	ug/L
>	Ge	72	252165.545	0.2	235019.833				ug/L
	As	75	1243.439	5.0	174.004	0.32904	0.020	6.2	ug/L
	Se	77	402.943	2.4	271.738	0.46527	0.044	9.4	ug/L
	Se	78	19524.075	1.7	18294.754	-0.13790	0.485	351.9	mg/L
	Se	82	703.030	0.6	514.483	0.45707	0.013	2.9	ug/L
	Kr	83	569.358	1.0	509.687				mg/L
	Y	89	485964.855	1.5	424645.807				ug/L
	Mo	95	3339.369	2.7	130.336	0.52787	0.012	2.2	ug/L
	Mo	97	2044.605	1.8	59.667	0.54070	0.005	0.9	ug/L
	Mo	98	5163.304	4.5	73.129	0.53506	0.028	5.3	ug/L
	Rh	103	371432.117	2.7	377819.614				ug/L
	Ag	107	113.335	14.3	60.668	0.00360	0.001	29.2	ug/L
	Ag	109	84.335	12.1	49.001	0.00261	0.001	33.3	ug/L
	Cd	111	415.700	6.1	302.744	0.03463	0.006	17.3	ug/L
	Cd	114	363.877	32.2	257.978	0.01541	0.017	108.8	ug/L
>	In	115	370522.221	1.6	368464.817				ug/L
	Sb	121	1047.076	4.8	54.001	0.10444	0.006	5.9	ug/L
	Sb	123	789.631	8.3	50.513	0.10181	0.010	9.4	ug/L
	Ba	135	47180.351	1.9	123.002	18.13927	0.456	2.5	ug/L
	Ba	137	79979.435	0.3	192.338	17.88985	0.106	0.6	ug/L
>	Tb	159	444149.761	0.9	460537.107				ug/L
>	Ho	165	418970.086	1.5	440378.521				ug/L
	Tl	203	339.344	8.1	83.668	0.03298	0.003	8.9	ug/L
	Tl	205	771.043	3.0	163.337	0.03511	0.001	4.2	ug/L
	Pb	208	4340.151	1.2	1492.737	0.11695	0.002	1.4	ug/L

Pb	206	1148.757	2.0	397.348	0.11679	0.001	0.8	ug/L
Pb	207	911.726	2.3	320.010	0.10997	0.006	5.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		118.477			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.295			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.558			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.442			
>	Ho	165		95.139			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950467 D.10

Sample Date/Time: Friday, November 17, 2006 16:57:29
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950467 D.10.016

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	62.001	12.6	84.001	-0.01863	0.006	31.3	ug/L
	Al	27	16832.823	2.1	6946.222	1.12386	0.076	6.8	ug/L
>	Sc	45	431291.486	1.9	426236.083				ug/L
	V	51	6264.145	7.7	5344.504	0.04943	0.024	48.1	ug/L
	Cr	52	26334.161	2.8	18378.762	0.51570	0.052	10.1	ug/L
	Cr	53	2291.672	4.0	1484.814	0.42140	0.047	11.1	ug/L
	Mn	55	943934.724	1.1	742.040	40.65288	0.411	1.0	ug/L
	Co	59	2968.892	2.5	848.388	0.11044	0.004	3.7	ug/L
	Ni	60	3650.836	1.4	167.670	0.81690	0.012	1.4	ug/L
	Ni	62	462.017	0.6	209.338	0.38550	0.005	1.2	ug/L
	Cu	63	3584.140	2.9	570.693	0.30248	0.011	3.5	ug/L
	Cu	65	1846.223	1.1	318.010	0.31843	0.004	1.2	ug/L
	Zn	66	8086.336	1.6	2186.325	2.12660	0.044	2.1	ug/L
	Zn	67	1450.474	1.8	469.352	2.00952	0.052	2.6	ug/L
	Zn	68	6232.726	0.7	1708.532	2.25757	0.024	1.1	ug/L
>	Ge	72	248182.907	0.1	235019.833				ug/L
	As	75	380.012	5.6	174.004	0.06209	0.007	10.9	ug/L
	Se	77	287.205	2.0	271.738	0.00106	0.025	2389.2	ug/L
	Se	78	18054.516	1.1	18294.754	-1.69014	0.282	16.7	mg/L
	Se	82	667.427	1.5	514.483	0.38172	0.030	7.9	ug/L
	Kr	83	555.024	2.7	509.687				mg/L
	Y	89	458098.012	1.5	424645.807				ug/L
	Mo	95	1546.159	4.8	130.336	0.23950	0.006	2.6	ug/L
	Mo	97	945.730	2.6	59.667	0.24838	0.013	5.3	ug/L
	Mo	98	2322.179	1.1	73.129	0.24286	0.004	1.7	ug/L
	Rh	103	368488.815	0.4	377819.614				ug/L
	Ag	107	81.668	4.9	60.668	0.00157	0.000	21.0	ug/L
	Ag	109	79.001	14.1	49.001	0.00238	0.001	42.1	ug/L
	Cd	111	238.575	5.2	302.744	-0.01859	0.002	11.1	ug/L
	Cd	114	94.386	24.0	257.978	-0.02417	0.004	15.5	ug/L
>	In	115	360917.843	2.5	368464.817				ug/L
	Sb	121	382.679	5.1	54.001	0.03558	0.001	3.1	ug/L
	Sb	123	287.580	1.1	50.513	0.03368	0.001	2.8	ug/L
	Ba	135	19499.317	1.1	123.002	7.57281	0.095	1.3	ug/L
	Ba	137	33747.566	2.7	192.338	7.62988	0.267	3.5	ug/L
>	Tb	159	438124.007	0.9	460537.107				ug/L
>	Ho	165	415242.503	1.8	440378.521				ug/L
	Tl	203	295.342	9.7	83.668	0.02779	0.004	14.9	ug/L
	Tl	205	641.364	5.3	163.337	0.02807	0.003	9.2	ug/L
	Pb	208	912.029	2.7	1492.737	-0.02000	0.002	7.9	ug/L

Pb	206	238.339	5.6	397.348	-0.02082	0.003	12.1	ug/L
Pb	207	197.671	9.1	320.010	-0.01901	0.003	17.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.186			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.601			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.952			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.133			
>	Ho	165		94.292			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950467

Sample Date/Time: Friday, November 17, 2006 17:03:26
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950467.017

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	84.001	7.2	84.001	-0.00923	0.004	38.9	ug/L
	Al	27	141812.543	2.1	6946.222	13.43197	0.395	2.9	ug/L
>	Sc	45	492136.440	1.5	426236.083				ug/L
	V	51	12063.274	7.7	5344.504	0.29940	0.052	17.4	ug/L
	Cr	52	95538.216	1.4	18378.762	4.34002	0.155	3.6	ug/L
	Cr	53	10476.022	2.9	1484.814	4.10100	0.214	5.2	ug/L
	Mn	55	11213117.036	1.0	742.040	449.98945	4.754	1.1	ug/L
	Co	59	29815.883	1.5	848.388	1.43141	0.034	2.4	ug/L
	Ni	60	40405.969	5.2	167.670	8.80257	0.363	4.1	ug/L
	Ni	62	3624.825	2.1	209.338	5.04675	0.155	3.1	ug/L
	Cu	63	25184.594	2.0	570.693	2.31794	0.058	2.5	ug/L
	Cu	65	13349.484	0.8	318.010	2.54964	0.010	0.4	ug/L
	Zn	66	9486.829	3.3	2186.325	2.40148	0.107	4.4	ug/L
	Zn	67	3205.649	1.1	469.352	5.23916	0.120	2.3	ug/L
	Zn	68	12551.237	0.4	1708.532	5.03786	0.048	1.0	ug/L
>	Ge	72	266560.114	1.1	235019.833				ug/L
	As	75	2443.049	0.4	174.004	0.66148	0.008	1.2	ug/L
	Se	77	525.417	2.9	271.738	0.85798	0.039	4.5	ug/L
	Se	78	20947.058	0.8	18294.754	0.24895	0.499	200.3	mg/L
	Se	82	2142.942	2.5	514.483	4.46437	0.085	1.9	ug/L
	Kr	83	629.030	3.0	509.687				mg/L
	Y	89	511201.936	1.2	424645.807				ug/L
	Mo	95	14056.988	1.6	130.336	2.28076	0.045	2.0	ug/L
	Mo	97	8784.052	3.3	59.667	2.36579	0.075	3.2	ug/L
	Mo	98	22289.563	3.2	73.129	2.32421	0.087	3.7	ug/L
	Rh	103	379321.336	1.1	377819.614				ug/L
	Ag	107	166.337	5.5	60.668	0.00720	0.001	9.6	ug/L
	Ag	109	144.669	15.3	49.001	0.00703	0.002	24.6	ug/L
	Cd	111	379.729	8.4	302.744	0.02297	0.011	46.2	ug/L
	Cd	114	396.225	15.8	257.978	0.02017	0.010	48.6	ug/L
>	In	115	372237.528	0.9	368464.817				ug/L
	Sb	121	1920.574	2.8	54.001	0.19536	0.007	3.6	ug/L
	Sb	123	1472.875	1.3	50.513	0.19495	0.004	1.9	ug/L
	Ba	135	201462.111	1.4	123.002	77.04900	1.197	1.6	ug/L
	Ba	137	344996.050	1.4	192.338	76.75873	1.104	1.4	ug/L
>	Tb	159	447308.738	0.3	460537.107				ug/L
>	Ho	165	423370.955	1.6	440378.521				ug/L
	Tl	203	1875.230	3.0	83.668	0.22579	0.011	4.7	ug/L
	Tl	205	4523.940	0.4	163.337	0.24648	0.005	1.8	ug/L
	Pb	208	2226.137	0.7	1492.737	0.03137	0.002	6.1	ug/L

Pb	206	588.027	1.8	397.348	0.03091	0.002	5.4	ug/L
Pb	207	478.018	1.7	320.010	0.03052	0.001	1.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		115.461			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		113.420			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.024			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.128			
>	Ho	165		96.138			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950468 D.10

Sample Date/Time: Friday, November 17, 2006 17:09:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950468 D.10.018

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	70.001	4.3	84.001	-0.01259	0.003	22.6	ug/L
	Al	27	21598.844	2.0	6946.222	1.64847	0.063	3.8	ug/L
>	Sc	45	434920.133	1.1	426236.083				ug/L
	V	51	6427.039	6.6	5344.504	0.05586	0.023	40.9	ug/L
	Cr	52	24411.649	3.9	18378.762	0.37370	0.056	15.1	ug/L
	Cr	53	1956.583	1.4	1484.814	0.23382	0.019	8.1	ug/L
	Mn	55	945236.998	0.8	742.040	39.14639	0.322	0.8	ug/L
	Co	59	3171.969	1.1	848.388	0.11480	0.004	3.2	ug/L
	Ni	60	3672.513	1.8	167.670	0.78884	0.012	1.5	ug/L
	Ni	62	439.349	5.8	209.338	0.32251	0.045	13.9	ug/L
	Cu	63	4461.906	3.5	570.693	0.37416	0.015	4.1	ug/L
	Cu	65	2366.693	1.4	318.010	0.40901	0.006	1.5	ug/L
	Zn	66	1796.879	4.0	2186.325	-0.21369	0.029	13.5	ug/L
	Zn	67	517.688	7.9	469.352	0.00529	0.095	1799.2	ug/L
	Zn	68	1785.876	1.6	1708.532	-0.04434	0.004	9.3	ug/L
>	Ge	72	258095.066	1.2	235019.833				ug/L
	As	75	358.011	6.6	174.004	0.05074	0.006	11.9	ug/L
	Se	77	284.338	0.9	271.738	-0.05727	0.024	41.2	ug/L
	Se	78	18171.014	0.9	18294.754	-2.46398	0.435	17.7	mg/L
	Se	82	686.228	2.2	514.483	0.35878	0.056	15.6	ug/L
	Kr	83	525.022	7.1	509.687				mg/L
	Y	89	465767.559	0.8	424645.807				ug/L
	Mo	95	1417.135	4.0	130.336	0.20790	0.007	3.5	ug/L
	Mo	97	876.388	4.4	59.667	0.21875	0.013	5.8	ug/L
	Mo	98	2140.720	1.6	73.129	0.21374	0.006	2.6	ug/L
	Rh	103	369412.656	1.4	377819.614				ug/L
	Ag	107	83.001	9.6	60.668	0.00142	0.001	36.5	ug/L
	Ag	109	64.668	6.2	49.001	0.00107	0.000	28.3	ug/L
	Cd	111	246.764	3.7	302.744	-0.01920	0.002	11.9	ug/L
	Cd	114	79.931	28.5	257.978	-0.02692	0.003	12.8	ug/L
>	In	115	376438.862	1.0	368464.817				ug/L
	Sb	121	307.009	2.3	54.001	0.02606	0.000	1.7	ug/L
	Sb	123	248.985	12.8	50.513	0.02678	0.005	16.9	ug/L
	Ba	135	19067.982	0.7	123.002	7.41558	0.068	0.9	ug/L
	Ba	137	32600.310	1.4	192.338	7.37953	0.139	1.9	ug/L
>	Tb	159	437452.711	0.6	460537.107				ug/L
>	Ho	165	423662.142	1.0	440378.521				ug/L
	Tl	203	337.344	3.2	83.668	0.03228	0.002	4.7	ug/L
	Tl	205	722.372	1.8	163.337	0.03187	0.001	1.6	ug/L
	Pb	208	625.682	4.1	1492.737	-0.03209	0.001	3.6	ug/L

	Pb	206	172.670	5.4	397.348	-0.03141	0.001	4.2	ug/L
L	Pb	207	145.669	3.2	320.010	-0.02903	0.001	3.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		102.037			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		109.818			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.164			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.988			
>	Ho	165		96.204			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950468

Sample Date/Time: Friday, November 17, 2006 17:15:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950468.019

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	97.335	17.5	84.001	-0.00203	0.012	592.1	ug/L
	Al	27	185131.489	1.1	6946.222	17.16115	0.415	2.4	ug/L
>	Sc	45	509127.877	1.6	426236.083				ug/L
	V	51	12133.218	4.8	5344.504	0.28198	0.023	8.1	ug/L
	Cr	52	70297.137	3.0	18378.762	2.72837	0.121	4.4	ug/L
	Cr	53	7548.493	1.4	1484.814	2.61251	0.099	3.8	ug/L
	Mn	55	10794082.736	0.5	742.040	425.03843	6.508	1.5	ug/L
	Co	59	31390.677	2.2	848.388	1.47980	0.004	0.2	ug/L
	Ni	60	38006.875	1.9	167.670	8.12680	0.320	3.9	ug/L
	Ni	62	3286.682	4.1	209.338	4.45319	0.288	6.5	ug/L
	Cu	63	42213.784	2.6	570.693	3.85077	0.068	1.8	ug/L
	Cu	65	20709.608	4.4	318.010	3.91839	0.194	5.0	ug/L
	Zn	66	9232.205	1.8	2186.325	2.25534	0.098	4.3	ug/L
	Zn	67	3124.951	3.9	469.352	4.96309	0.135	2.7	ug/L
	Zn	68	12181.019	1.3	1708.532	4.75291	0.043	0.9	ug/L
>	Ge	72	271704.527	2.0	235019.833				ug/L
	As	75	2406.372	3.7	174.004	0.63768	0.038	5.9	ug/L
	Se	77	525.017	3.1	271.738	0.81740	0.048	5.9	ug/L
	Se	78	21194.779	1.3	18294.754	0.06501	0.821	1262.3	mg/L
	Se	82	2076.725	1.6	514.483	4.16372	0.104	2.5	ug/L
	Kr	83	626.030	5.1	509.687				mg/L
	Y	89	523805.180	3.4	424645.807				ug/L
	Mo	95	13236.640	2.4	130.336	2.06915	0.017	0.8	ug/L
	Mo	97	8335.584	0.7	59.667	2.16424	0.028	1.3	ug/L
	Mo	98	20873.438	2.1	73.129	2.09876	0.065	3.1	ug/L
	Rh	103	386764.348	1.7	377819.614				ug/L
	Ag	107	244.339	6.0	60.668	0.01195	0.001	7.3	ug/L
	Ag	109	211.338	7.5	49.001	0.01141	0.001	11.9	ug/L
	Cd	111	377.737	0.5	302.744	0.01817	0.002	12.6	ug/L
	Cd	114	339.446	24.1	257.978	0.01005	0.013	125.6	ug/L
>	In	115	385939.810	1.7	368464.817				ug/L
	Sb	121	1783.542	2.8	54.001	0.17444	0.008	4.6	ug/L
	Sb	123	1335.644	0.6	50.513	0.16965	0.003	1.6	ug/L
	Ba	135	188216.791	1.0	123.002	71.33553	1.969	2.8	ug/L
	Ba	137	336203.257	1.8	192.338	74.13798	2.623	3.5	ug/L
>	Tb	159	451494.153	1.8	460537.107				ug/L
>	Ho	165	426968.203	1.1	440378.521				ug/L
	Tl	203	1905.570	0.7	83.668	0.22749	0.001	0.5	ug/L
	Tl	205	4549.621	2.3	163.337	0.24578	0.009	3.5	ug/L
	Pb	208	3327.623	0.7	1492.737	0.07391	0.002	3.1	ug/L

Pb	206	864.720	1.0	397.348	0.07132	0.003	3.9	ug/L
Pb	207	738.040	1.1	320.010	0.07599	0.001	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		119.447			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		115.609			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.743			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.036			
>	Ho	165		96.955			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950469 D.10

Sample Date/Time: Friday, November 17, 2006 17:21:19
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950469 D.10.020

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	66.334	16.6	84.001	-0.01730	0.009	51.6	ug/L
	Al	27	7876.466	1.0	6946.222	0.05935	0.010	16.8	ug/L
>	Sc	45	450146.385	0.8	426236.083				ug/L
	V	51	5558.988	2.2	5344.504	-0.00470	0.008	176.6	ug/L
	Cr	52	35074.007	0.5	18378.762	0.99982	0.015	1.5	ug/L
	Cr	53	3241.663	3.9	1484.814	0.85631	0.076	8.8	ug/L
	Mn	55	977129.052	1.7	742.040	40.86445	1.074	2.6	ug/L
	Co	59	1382.462	2.7	848.388	0.02378	0.002	7.6	ug/L
	Ni	60	4737.061	2.5	167.670	1.03979	0.016	1.5	ug/L
	Ni	62	547.690	3.2	209.338	0.49695	0.020	4.1	ug/L
	Cu	63	1596.502	3.3	570.693	0.09608	0.004	3.7	ug/L
	Cu	65	953.397	3.6	318.010	0.12433	0.006	4.6	ug/L
	Zn	66	1655.514	3.3	2186.325	-0.25812	0.022	8.7	ug/L
	Zn	67	739.707	2.4	469.352	0.46824	0.027	5.7	ug/L
	Zn	68	2472.725	1.6	1708.532	0.30404	0.008	2.6	ug/L
>	Ge	72	255627.991	1.1	235019.833				ug/L
	As	75	3754.883	1.2	174.004	1.09512	0.010	0.9	ug/L
	Se	77	271.471	1.9	271.738	-0.09909	0.031	30.8	ug/L
	Se	78	18121.278	0.3	18294.754	-2.30407	0.312	13.5	mg/L
	Se	82	558.352	1.4	514.483	-0.00375	0.006	153.8	ug/L
	Kr	83	534.689	1.2	509.687				mg/L
	Y	89	469440.162	1.9	424645.807				ug/L
	Mo	95	1556.161	2.1	130.336	0.22798	0.007	3.3	ug/L
	Mo	97	967.733	2.9	59.667	0.24063	0.010	4.0	ug/L
	Mo	98	2350.630	1.7	73.129	0.23300	0.005	2.0	ug/L
	Rh	103	379799.909	1.2	377819.614				ug/L
	Ag	107	60.667	9.4	60.668	-0.00013	0.000	314.5	ug/L
	Ag	109	42.001	20.8	49.001	-0.00062	0.001	96.6	ug/L
	Cd	111	248.874	4.3	302.744	-0.01927	0.004	21.7	ug/L
	Cd	114	28.672	24.4	257.978	-0.03450	0.001	3.0	ug/L
>	In	115	380246.973	1.2	368464.817				ug/L
	Sb	121	117.669	5.1	54.001	0.00634	0.001	8.2	ug/L
	Sb	123	92.737	11.8	50.513	0.00546	0.002	29.4	ug/L
	Ba	135	41716.246	1.2	123.002	15.72664	0.256	1.6	ug/L
	Ba	137	71420.842	1.5	192.338	15.66722	0.317	2.0	ug/L
>	Tb	159	452757.541	0.7	460537.107				ug/L
>	Ho	165	428317.631	1.5	440378.521				ug/L
	Tl	203	166.337	8.8	83.668	0.01058	0.002	19.9	ug/L
	Tl	205	361.678	1.0	163.337	0.01132	0.000	4.4	ug/L
	Pb	208	393.341	4.8	1492.737	-0.04146	0.001	2.3	ug/L

Pb	206	105.335	7.9	397.348	-0.04166	0.001	3.5	ug/L
Pb	207	100.335	7.5	320.010	-0.03734	0.001	3.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		105.610			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.769			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.198			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.311			
>	Ho	165		97.261			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950469

Sample Date/Time: Friday, November 17, 2006 17:27:17
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950469.021

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	86.001	17.6	84.001	-0.00917	0.010	112.1	ug/L
	Al	27	47063.423	3.3	6946.222	3.81886	0.358	9.4	ug/L
>	Sc	45	503901.436	4.3	426236.083				ug/L
	V	51	5842.774	24.5	5344.504	-0.02527	0.060	237.5	ug/L
	Cr	52	185047.849	0.4	18378.762	9.32440	0.441	4.7	ug/L
	Cr	53	21029.378	0.6	1484.814	8.81694	0.369	4.2	ug/L
	Mn	55	11179779.906	1.5	742.040	444.23687	12.495	2.8	ug/L
	Co	59	12068.861	3.6	848.388	0.54529	0.033	6.0	ug/L
	Ni	60	49223.338	4.9	167.670	10.63788	0.769	7.2	ug/L
	Ni	62	4120.727	1.8	209.338	5.72296	0.083	1.4	ug/L
	Cu	63	12787.933	1.2	570.693	1.13469	0.013	1.2	ug/L
	Cu	65	6545.636	2.2	318.010	1.20185	0.057	4.8	ug/L
	Zn	66	7257.232	1.4	2186.325	1.61289	0.066	4.1	ug/L
	Zn	67	4899.156	3.4	469.352	8.45930	0.232	2.7	ug/L
	Zn	68	18869.212	3.5	1708.532	7.94931	0.406	5.1	ug/L
>	Ge	72	269293.347	2.3	235019.833				ug/L
	As	75	35751.555	1.1	174.004	10.36896	0.286	2.8	ug/L
	Se	77	377.275	1.9	271.738	0.25786	0.008	3.1	ug/L
	Se	78	19837.864	1.5	18294.754	-1.38080	0.398	28.8	mg/L
	Se	82	687.895	2.5	514.483	0.28024	0.093	33.2	ug/L
	Kr	83	611.695	1.9	509.687				mg/L
	Y	89	513712.659	0.9	424645.807				ug/L
	Mo	95	15230.728	1.9	130.336	2.43507	0.070	2.9	ug/L
	Mo	97	9565.583	1.6	59.667	2.53844	0.064	2.5	ug/L
	Mo	98	24666.684	2.1	73.129	2.53284	0.030	1.2	ug/L
	Rh	103	388824.831	1.4	377819.614				ug/L
	Ag	107	93.668	8.7	60.668	0.00212	0.001	25.0	ug/L
	Ag	109	52.334	10.5	49.001	0.00015	0.000	274.4	ug/L
	Cd	111	324.377	3.7	302.744	0.00422	0.004	90.9	ug/L
	Cd	114	24.779	253.1	257.978	-0.03504	0.009	26.0	ug/L
>	In	115	378027.580	1.0	368464.817				ug/L
	Sb	121	219.005	2.8	54.001	0.01686	0.001	3.0	ug/L
	Sb	123	161.866	7.6	50.513	0.01487	0.002	12.6	ug/L
	Ba	135	416375.193	0.9	123.002	157.32272	1.792	1.1	ug/L
	Ba	137	708543.926	0.6	192.338	155.74105	1.394	0.9	ug/L
>	Tb	159	452908.286	0.6	460537.107				ug/L
>	Ho	165	428321.984	0.2	440378.521				ug/L
	Tl	203	264.007	13.1	83.668	0.02270	0.004	18.9	ug/L
	Tl	205	578.693	19.3	163.337	0.02341	0.006	26.5	ug/L
	Pb	208	999.700	2.3	1492.737	-0.01771	0.001	5.4	ug/L

Pb	206	270.340	1.3	397.348	-0.01721	0.001	3.4	ug/L
Pb	207	212.005	5.9	320.010	-0.01757	0.002	12.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		118.221			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		114.583			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.595			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.343			
>	Ho	165		97.262			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, November 17, 2006 17:33:16
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 6.022

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	62669.478	2.4	84.001	49.04515	1.779	3.6	ug/L
	Al	27	476016.581	1.5	6946.222	52.04091	2.356	4.5	ug/L
>	Sc	45	445423.350	3.7	426236.083				ug/L
	V	51	908663.599	2.9	5344.504	50.65697	0.490	1.0	ug/L
	Cr	52	798297.087	1.8	18378.762	50.27854	1.175	2.3	ug/L
	Cr	53	94925.582	4.5	1484.814	48.26565	1.359	2.8	ug/L
	Mn	55	1148319.181	1.4	742.040	49.21971	0.957	1.9	ug/L
	Co	59	932287.456	1.8	848.388	49.37795	1.247	2.5	ug/L
	Ni	60	204494.016	0.2	167.670	47.82619	1.589	3.3	ug/L
	Ni	62	31822.298	1.0	209.338	50.31369	1.224	2.4	ug/L
	Cu	63	470708.704	0.6	570.693	47.46552	1.271	2.7	ug/L
	Cu	65	228485.335	0.7	318.010	47.86964	1.228	2.6	ug/L
	Zn	66	136189.277	1.1	2186.325	49.03578	1.087	2.2	ug/L
	Zn	67	23354.594	2.5	469.352	47.85570	0.366	0.8	ug/L
	Zn	68	98290.957	1.1	1708.532	48.94375	1.075	2.2	ug/L
>	Ge	72	249508.744	3.2	235019.833				ug/L
	As	75	152299.567	3.2	174.004	47.87354	1.153	2.4	ug/L
	Se	77	12464.917	1.8	271.738	51.41913	1.065	2.1	ug/L
	Se	78	55348.625	0.5	18294.754	47.79683	2.102	4.4	mg/L
	Se	82	17162.591	1.6	514.483	50.85716	1.549	3.0	ug/L
	Kr	83	522.022	4.8	509.687				mg/L
	Y	89	475994.370	3.9	424645.807				ug/L
	Mo	95	308948.225	2.0	130.336	49.10869	0.203	0.4	ug/L
	Mo	97	191096.679	1.2	59.667	50.32331	1.480	2.9	ug/L
	Mo	98	489015.615	0.6	73.129	49.67458	1.007	2.0	ug/L
	Rh	103	382306.622	0.8	377819.614				ug/L
	Ag	107	742082.133	1.8	60.668	49.37898	0.537	1.1	ug/L
	Ag	109	685141.453	3.5	49.001	49.09434	1.074	2.2	ug/L
	Cd	111	162816.260	0.6	302.744	48.97604	0.584	1.2	ug/L
	Cd	114	356686.110	0.9	257.978	51.36769	1.294	2.5	ug/L
>	In	115	383344.217	1.7	368464.817				ug/L
	Sb	121	480580.808	1.7	54.001	48.84680	0.919	1.9	ug/L
	Sb	123	360198.900	0.9	50.513	47.95323	0.841	1.8	ug/L
	Ba	135	136767.273	2.3	123.002	51.95640	0.955	1.8	ug/L
	Ba	137	231158.786	1.8	192.338	51.09135	0.906	1.8	ug/L
>	Tb	159	450162.752	0.7	460537.107				ug/L
>	Ho	165	426642.017	2.9	440378.521				ug/L
	Tl	203	404138.030	2.1	83.668	50.42976	0.771	1.5	ug/L
	Tl	205	961184.397	0.9	163.337	53.84358	1.494	2.8	ug/L
	Pb	208	1319054.273	1.1	1492.737	51.83661	0.963	1.9	ug/L

Pb	206	340149.766	2.1	397.348	50.57371	0.636	1.3	ug/L
Pb	207	281786.814	0.3	320.010	50.06319	1.558	3.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	98.090				
	Al	27	104.082				
>	Sc	45		104.502			
	V	51	101.314				
	Cr	52	100.557				
	Cr	53	96.531				
	Mn	55	98.439				
	Co	59	98.756				
	Ni	60	95.652				
	Ni	62	100.627				
	Cu	63	94.931				
	Cu	65	95.739				
	Zn	66	98.072				
	Zn	67	95.711				
	Zn	68	97.887				
>	Ge	72		106.165			
	As	75	95.747				
	Se	77	102.838				
	Se	78	95.594				
	Se	82	101.714				
	Kr	83					
	Y	89					
	Mo	95	98.217				
	Mo	97	100.647				
	Mo	98	99.349				
	Rh	103					
	Ag	107	98.758				
	Ag	109	98.189				
	Cd	111	97.952				
	Cd	114	102.735				
>	In	115		104.038			
	Sb	121	97.694				
	Sb	123	95.906				
	Ba	135	103.913				
	Ba	137	102.183				
>	Tb	159		97.747			
>	Ho	165		96.881			
	Tl	203	100.860				
	Tl	205	107.687				
	Pb	208	103.673				
	Pb	206	101.147				
	Pb	207	100.126				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, November 17, 2006 17:39:13
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 7.023

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.001	26.9	84.001	-0.02430	0.013	52.5	ug/L
	Al	27	3718.534	3.4	6946.222	-0.38126	0.005	1.4	ug/L
>	Sc	45	433432.303	2.7	426236.083				ug/L
	V	51	5316.016	1.7	5344.504	-0.00675	0.007	97.2	ug/L
	Cr	52	18083.117	1.8	18378.762	-0.03992	0.017	42.5	ug/L
	Cr	53	1164.093	0.4	1484.814	-0.18337	0.017	9.4	ug/L
	Mn	55	608.362	4.9	742.040	-0.00718	0.001	19.1	ug/L
	Co	59	269.340	5.6	848.388	-0.03318	0.001	2.6	ug/L
	Ni	60	155.336	7.7	167.670	-0.00460	0.003	62.5	ug/L
	Ni	62	149.336	4.1	209.338	-0.11140	0.010	9.0	ug/L
	Cu	63	244.339	9.5	570.693	-0.03600	0.002	6.8	ug/L
	Cu	65	241.006	11.2	318.010	-0.01926	0.006	30.6	ug/L
	Zn	66	1557.828	0.6	2186.325	-0.26836	0.005	1.9	ug/L
	Zn	67	323.676	3.4	469.352	-0.35234	0.024	6.8	ug/L
	Zn	68	1153.758	2.7	1708.532	-0.32337	0.015	4.5	ug/L
>	Ge	72	244748.873	0.3	235019.833				ug/L
	As	75	161.670	4.6	174.004	-0.00627	0.002	35.1	ug/L
	Se	77	264.938	3.5	271.738	-0.07758	0.044	56.3	ug/L
	Se	78	17682.868	0.7	18294.754	-1.85491	0.241	13.0	mg/L
	Se	82	542.084	3.1	514.483	0.01975	0.057	286.7	ug/L
	Kr	83	539.023	3.4	509.687				mg/L
	Y	89	454551.978	1.1	424645.807				ug/L
	Mo	95	830.385	27.1	130.336	0.11249	0.036	31.8	ug/L
	Mo	97	523.356	23.1	59.667	0.12364	0.032	25.9	ug/L
	Mo	98	1201.789	27.1	73.129	0.11622	0.033	28.6	ug/L
	Rh	103	373013.028	0.5	377819.614				ug/L
	Ag	107	130.002	6.3	60.668	0.00459	0.000	9.8	ug/L
	Ag	109	119.002	15.3	49.001	0.00501	0.001	24.5	ug/L
	Cd	111	237.096	4.9	302.744	-0.02231	0.003	15.4	ug/L
	Cd	114	67.791	12.8	257.978	-0.02874	0.001	4.7	ug/L
>	In	115	377215.711	1.2	368464.817				ug/L
	Sb	121	1097.751	11.9	54.001	0.10763	0.013	12.0	ug/L
	Sb	123	811.567	19.7	50.513	0.10275	0.021	20.8	ug/L
	Ba	135	52.334	10.9	123.002	-0.02550	0.002	8.3	ug/L
	Ba	137	60.001	7.3	192.338	-0.02810	0.001	3.4	ug/L
>	Tb	159	442984.731	0.8	460537.107				ug/L
>	Ho	165	428340.213	0.2	440378.521				ug/L
	Tl	203	75.668	9.6	83.668	-0.00071	0.001	128.4	ug/L
	Tl	205	167.670	5.3	163.337	0.00049	0.001	102.2	ug/L
	Pb	208	491.010	0.5	1492.737	-0.03764	0.000	0.2	ug/L

Pb	206	137.669	6.6	397.348	-0.03688	0.001	3.7	ug/L
Pb	207	112.002	6.2	320.010	-0.03528	0.001	3.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.688			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.140			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.375			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.189			
>	Ho	165		97.266			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950470

Sample Date/Time: Friday, November 17, 2006 17:45:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950470.024

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	102.002	3.5	84.001	-0.00327	0.002	54.2	ug/L
	Al	27	317940.369	5.8	6946.222	28.11403	2.015	7.2	ug/L
>	Sc	45	543375.810	1.2	426236.083				ug/L
	V	51	14184.462	50.2	5344.504	0.33713	0.320	94.9	ug/L
	Cr	52	106891.617	16.8	18378.762	4.40841	0.898	20.4	ug/L
	Cr	53	10746.701	1.8	1484.814	3.75240	0.132	3.5	ug/L
	Mn	55	1913531.375	2.0	742.040	78.92123	1.644	2.1	ug/L
	Co	59	20034.936	3.0	848.388	0.97400	0.031	3.2	ug/L
	Ni	60	77806.986	3.7	167.670	17.47323	0.639	3.7	ug/L
	Ni	62	9816.545	2.3	209.338	14.68012	0.326	2.2	ug/L
	Cu	63	21075.508	2.8	570.693	1.98555	0.057	2.9	ug/L
	Cu	65	10014.785	3.2	318.010	1.95033	0.067	3.4	ug/L
	Zn	66	12090.553	1.0	2186.325	3.41027	0.044	1.3	ug/L
	Zn	67	2739.811	1.6	469.352	4.47656	0.084	1.9	ug/L
	Zn	68	12372.636	1.3	1708.532	5.11798	0.082	1.6	ug/L
>	Ge	72	259266.595	0.1	235019.833				ug/L
	As	75	1839.221	1.6	174.004	0.49881	0.009	1.7	ug/L
	Se	77	402.543	4.6	271.738	0.41755	0.078	18.6	ug/L
	Se	78	19338.805	0.2	18294.754	-1.07880	0.062	5.8	mg/L
	Se	82	775.903	2.7	514.483	0.61336	0.063	10.3	ug/L
	Kr	83	607.695	3.6	509.687				mg/L
	Y	89	548732.272	1.0	424645.807				ug/L
	Mo	95	1658.850	11.5	130.336	0.24399	0.026	10.7	ug/L
	Mo	97	1018.740	15.3	59.667	0.25360	0.037	14.6	ug/L
	Mo	98	2534.663	14.9	73.129	0.25134	0.034	13.6	ug/L
	Rh	103	383614.672	1.5	377819.614				ug/L
	Ag	107	102.002	15.6	60.668	0.00264	0.001	41.7	ug/L
	Ag	109	83.001	24.1	49.001	0.00235	0.001	63.6	ug/L
	Cd	111	610.810	1.4	302.744	0.09057	0.001	0.8	ug/L
	Cd	114	1005.765	2.0	257.978	0.10741	0.005	4.8	ug/L
>	In	115	380417.791	1.6	368464.817				ug/L
	Sb	121	884.056	10.8	54.001	0.08475	0.008	10.0	ug/L
	Sb	123	692.602	16.9	50.513	0.08577	0.014	16.6	ug/L
	Ba	135	113885.467	1.3	123.002	42.82469	0.717	1.7	ug/L
	Ba	137	193369.063	0.6	192.338	42.30112	0.175	0.4	ug/L
>	Tb	159	454738.316	0.5	460537.107				ug/L
>	Ho	165	430068.968	0.7	440378.521				ug/L
	Tl	203	542.690	6.6	83.668	0.05706	0.004	7.7	ug/L
	Tl	205	1309.450	6.7	163.337	0.06390	0.005	8.3	ug/L
	Pb	208	3490.985	1.9	1492.737	0.07932	0.002	2.7	ug/L

Pb	206	898.057	3.1	397.348	0.07528	0.003	4.4	ug/L
Pb	207	766.376	1.5	320.010	0.08003	0.002	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		127.482			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.317			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.244			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.741			
>	Ho	165		97.659			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950471

Sample Date/Time: Friday, November 17, 2006 17:51:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950471.025

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	124.002	7.3	84.001	0.01075	0.008	77.5	ug/L
	Al	27	3168516.054	4.4	6946.222	286.44528	16.815	5.9	ug/L
>	Sc	45	545356.871	3.2	426236.083				ug/L
	V	51	16737.618	5.3	5344.504	0.45311	0.018	3.9	ug/L
	Cr	52	150321.391	2.5	18378.762	6.68225	0.144	2.2	ug/L
	Cr	53	16867.586	5.2	1484.814	6.32430	0.437	6.9	ug/L
	Mn	55	1368682.183	1.6	742.040	56.17075	1.886	3.4	ug/L
	Co	59	27042.756	2.0	848.388	1.32503	0.057	4.3	ug/L
	Ni	60	89097.365	1.2	167.670	19.91363	0.197	1.0	ug/L
	Ni	62	13075.730	4.8	209.338	19.57086	0.943	4.8	ug/L
	Cu	63	18472.305	1.5	570.693	1.72434	0.064	3.7	ug/L
	Cu	65	9568.253	0.9	318.010	1.85097	0.058	3.1	ug/L
	Zn	66	14641.342	3.6	2186.325	4.28639	0.295	6.9	ug/L
	Zn	67	2745.147	3.7	469.352	4.46318	0.321	7.2	ug/L
	Zn	68	13425.609	1.6	1708.532	5.60013	0.196	3.5	ug/L
>	Ge	72	260621.433	2.2	235019.833				ug/L
	As	75	2662.119	1.7	174.004	0.74394	0.014	1.9	ug/L
	Se	77	382.609	1.2	271.738	0.32919	0.053	16.1	ug/L
	Se	78	20111.838	1.5	18294.754	-0.21967	0.389	176.9	mg/L
	Se	82	689.229	1.3	514.483	0.34858	0.069	19.7	ug/L
	Kr	83	590.360	4.9	509.687				mg/L
	Y	89	540271.387	3.0	424645.807				ug/L
	Mo	95	1402.132	4.3	130.336	0.20112	0.010	4.9	ug/L
	Mo	97	879.722	1.5	59.667	0.21499	0.003	1.3	ug/L
	Mo	98	2064.623	1.3	73.129	0.20169	0.002	1.2	ug/L
	Rh	103	395185.303	1.9	377819.614				ug/L
	Ag	107	99.002	13.9	60.668	0.00238	0.001	37.5	ug/L
	Ag	109	69.001	10.1	49.001	0.00129	0.001	40.2	ug/L
	Cd	111	626.350	9.7	302.744	0.09355	0.018	19.3	ug/L
	Cd	114	850.298	4.5	257.978	0.08366	0.005	6.1	ug/L
>	In	115	383875.423	0.3	368464.817				ug/L
	Sb	121	558.358	7.6	54.001	0.05096	0.004	8.2	ug/L
	Sb	123	413.920	5.1	50.513	0.04803	0.003	5.6	ug/L
	Ba	135	42977.311	1.2	123.002	15.97478	0.255	1.6	ug/L
	Ba	137	75247.964	0.5	192.338	16.27548	0.128	0.8	ug/L
>	Tb	159	459217.132	0.8	460537.107				ug/L
>	Ho	165	426167.154	1.4	440378.521				ug/L
	Tl	203	235.339	9.3	83.668	0.01931	0.003	16.0	ug/L
	Tl	205	578.026	1.5	163.337	0.02354	0.000	0.7	ug/L
	Pb	208	15707.254	2.0	1492.737	0.56152	0.008	1.4	ug/L

Pb	206	4085.709	2.2	397.348	0.55149	0.015	2.7	ug/L
Pb	207	3379.052	1.0	320.010	0.54622	0.005	0.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		127.947			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.893			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.182			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.713			
>	Ho	165		96.773			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950472

Sample Date/Time: Friday, November 17, 2006 17:57:09
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950472.026

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	98.335	19.8	84.001	-0.00512	0.015	283.5	ug/L
	Al	27	1252555.659	7.7	6946.222	113.28425	5.439	4.8	ug/L
>	Sc	45	541924.180	3.6	426236.083				ug/L
	V	51	16483.241	2.6	5344.504	0.44770	0.047	10.4	ug/L
	Cr	52	44384.702	2.3	18378.762	1.11709	0.124	11.1	ug/L
	Cr	53	4664.021	5.4	1484.814	1.18046	0.111	9.4	ug/L
	Mn	55	1804227.427	1.4	742.040	73.45548	0.468	0.6	ug/L
	Co	59	23573.216	2.9	848.388	1.13889	0.023	2.1	ug/L
	Ni	60	56435.738	2.1	167.670	12.50198	0.361	2.9	ug/L
	Ni	62	6775.490	3.8	209.338	9.89303	0.477	4.8	ug/L
	Cu	63	17328.173	1.4	570.693	1.60031	0.037	2.3	ug/L
	Cu	65	9113.406	1.8	318.010	1.74474	0.014	0.8	ug/L
	Zn	66	9888.970	4.2	2186.325	2.58941	0.121	4.7	ug/L
	Zn	67	1883.565	4.7	469.352	2.70344	0.188	7.0	ug/L
	Zn	68	8916.190	0.1	1708.532	3.37583	0.049	1.4	ug/L
>	Ge	72	262631.180	1.0	235019.833				ug/L
	As	75	4064.031	1.0	174.004	1.15678	0.006	0.5	ug/L
	Se	77	660.960	2.3	271.738	1.43299	0.062	4.3	ug/L
	Se	78	20613.571	0.9	18294.754	0.21435	0.109	50.8	mg/L
	Se	82	1081.270	0.8	514.483	1.47187	0.057	3.9	ug/L
	Kr	83	584.693	4.4	509.687				mg/L
	Y	89	520922.454	1.6	424645.807				ug/L
	Mo	95	4690.702	4.4	130.336	0.71897	0.028	3.9	ug/L
	Mo	97	2940.549	3.5	59.667	0.75277	0.037	4.9	ug/L
	Mo	98	7693.019	0.7	73.129	0.76815	0.008	1.1	ug/L
	Rh	103	390092.243	2.1	377819.614				ug/L
	Ag	107	131.669	3.4	60.668	0.00450	0.000	8.9	ug/L
	Ag	109	111.335	10.8	49.001	0.00426	0.001	17.3	ug/L
	Cd	111	535.349	3.1	302.744	0.06531	0.007	10.4	ug/L
	Cd	114	550.310	4.8	257.978	0.04004	0.003	8.0	ug/L
>	In	115	386117.103	1.6	368464.817				ug/L
	Sb	121	646.365	11.7	54.001	0.05945	0.007	11.5	ug/L
	Sb	123	479.966	2.2	50.513	0.05644	0.000	0.7	ug/L
	Ba	135	40162.618	0.4	123.002	14.94812	0.207	1.4	ug/L
	Ba	137	69277.478	1.0	192.338	15.00345	0.214	1.4	ug/L
>	Tb	159	458543.105	1.0	460537.107				ug/L
>	Ho	165	439310.717	0.5	440378.521				ug/L
	Tl	203	451.350	0.6	83.668	0.04458	0.001	1.2	ug/L
	Tl	205	1063.412	3.5	163.337	0.04898	0.002	4.6	ug/L
	Pb	208	12682.877	1.3	1492.737	0.42751	0.004	0.9	ug/L

Pb	206	3292.350	1.0	397.348	0.41855	0.003	0.7	ug/L
Pb	207	2748.147	2.0	320.010	0.41928	0.008	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		127.142			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.749			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.791			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.567			
>	Ho	165		99.758			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950473 D.10

Sample Date/Time: Friday, November 17, 2006 18:03:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950473 D.10.027

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57.334	11.2	84.001	-0.02398	0.006	24.8	ug/L
	Al	27	6849.219	4.6	6946.222	-0.04945	0.018	37.3	ug/L
>	Sc	45	447640.994	2.3	426236.083				ug/L
	V	51	5750.234	2.8	5344.504	0.00768	0.006	81.8	ug/L
	Cr	52	19273.468	3.0	18378.762	-0.00194	0.009	480.8	ug/L
	Cr	53	1337.787	2.7	1484.814	-0.11352	0.032	28.3	ug/L
	Mn	55	575116.466	1.9	742.040	24.56403	0.918	3.7	ug/L
	Co	59	965.399	4.7	848.388	0.00327	0.002	58.7	ug/L
	Ni	60	1559.828	4.2	167.670	0.32231	0.018	5.7	ug/L
	Ni	62	174.337	8.2	209.338	-0.07686	0.025	32.7	ug/L
	Cu	63	1163.093	3.7	570.693	0.05587	0.003	4.8	ug/L
	Cu	65	705.704	3.8	318.010	0.07677	0.005	6.8	ug/L
	Zn	66	1231.103	5.3	2186.325	-0.39999	0.032	8.0	ug/L
	Zn	67	348.011	2.7	469.352	-0.31626	0.034	10.9	ug/L
	Zn	68	1133.422	2.7	1708.532	-0.34670	0.011	3.1	ug/L
>	Ge	72	250237.650	2.0	235019.833				ug/L
	As	75	263.007	6.9	174.004	0.02448	0.007	29.6	ug/L
	Se	77	283.872	3.2	271.738	-0.02269	0.045	196.4	ug/L
	Se	78	18056.086	1.1	18294.754	-1.87806	0.648	34.5	mg/L
	Se	82	572.753	2.5	514.483	0.07612	0.025	33.0	ug/L
	Kr	83	536.356	3.6	509.687				mg/L
	Y	89	471547.697	0.3	424645.807				ug/L
	Mo	95	690.369	4.3	130.336	0.08884	0.006	6.2	ug/L
	Mo	97	410.348	4.0	59.667	0.09227	0.003	3.6	ug/L
	Mo	98	1055.941	1.5	73.129	0.10012	0.003	2.5	ug/L
	Rh	103	381510.105	1.2	377819.614				ug/L
	Ag	107	61.668	12.4	60.668	-0.00007	0.001	729.6	ug/L
	Ag	109	47.334	10.6	49.001	-0.00024	0.000	159.4	ug/L
	Cd	111	244.071	2.7	302.744	-0.02098	0.002	7.4	ug/L
	Cd	114	57.474	12.1	257.978	-0.03035	0.001	3.2	ug/L
>	In	115	381299.833	0.9	368464.817				ug/L
	Sb	121	267.340	7.3	54.001	0.02161	0.002	8.9	ug/L
	Sb	123	202.152	5.9	50.513	0.02007	0.002	9.2	ug/L
	Ba	135	6057.262	2.7	123.002	2.20914	0.065	2.9	ug/L
	Ba	137	10296.794	1.2	192.338	2.18819	0.033	1.5	ug/L
>	Tb	159	459842.761	0.6	460537.107				ug/L
>	Ho	165	440691.219	1.6	440378.521				ug/L
	Tl	203	94.668	12.2	83.668	0.00131	0.001	97.3	ug/L
	Tl	205	192.671	4.5	163.337	0.00158	0.000	21.0	ug/L
	Pb	208	516.678	4.5	1492.737	-0.03719	0.001	3.1	ug/L

Pb	206	142.003	9.0	397.348	-0.03683	0.002	5.0	ug/L
Pb	207	119.335	15.7	320.010	-0.03454	0.004	10.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		105.022			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		106.475			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.483			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.849			
>	Ho	165		100.071			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950473

Sample Date/Time: Friday, November 17, 2006 18:09:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950473.028

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	73.001	13.2	84.001	-0.01985	0.007	33.6	ug/L
	Al	27	39063.077	1.5	6946.222	2.89832	0.059	2.1	ug/L
>	Sc	45	521084.655	1.2	426236.083				ug/L
	V	51	9631.320	3.1	5344.504	0.14846	0.011	7.7	ug/L
	Cr	52	29832.608	1.3	18378.762	0.40610	0.022	5.4	ug/L
	Cr	53	2905.536	4.3	1484.814	0.48189	0.058	12.0	ug/L
	Mn	55	6543737.973	0.3	742.040	264.78200	4.790	1.8	ug/L
	Co	59	8760.026	3.1	848.388	0.39057	0.021	5.3	ug/L
	Ni	60	16812.469	4.8	167.670	3.67051	0.195	5.3	ug/L
	Ni	62	662.700	4.1	209.338	0.64150	0.034	5.4	ug/L
	Cu	63	8921.863	1.5	570.693	0.78864	0.019	2.4	ug/L
	Cu	65	4224.780	3.5	318.010	0.76513	0.017	2.3	ug/L
	Zn	66	4763.742	1.7	2186.325	0.79650	0.044	5.5	ug/L
	Zn	67	1386.796	3.6	469.352	1.69606	0.057	3.4	ug/L
	Zn	68	6007.892	2.0	1708.532	1.95536	0.052	2.7	ug/L
>	Ge	72	264399.058	1.8	235019.833				ug/L
	As	75	1427.803	3.5	174.004	0.36578	0.009	2.6	ug/L
	Se	77	581.087	1.1	271.738	1.09763	0.058	5.3	ug/L
	Se	78	20853.897	0.9	18294.754	0.34446	0.268	77.8	mg/L
	Se	82	909.316	2.0	514.483	0.95529	0.099	10.4	ug/L
	Kr	83	604.695	3.4	509.687				mg/L
	Y	89	511243.969	1.8	424645.807				ug/L
	Mo	95	6091.954	2.1	130.336	0.90919	0.020	2.2	ug/L
	Mo	97	3666.510	2.8	59.667	0.91143	0.034	3.8	ug/L
	Mo	98	9225.073	2.4	73.129	0.89263	0.029	3.3	ug/L
	Rh	103	401527.994	1.4	377819.614				ug/L
	Ag	107	71.334	9.1	60.668	0.00036	0.000	125.6	ug/L
	Ag	109	47.334	13.7	49.001	-0.00039	0.000	122.1	ug/L
	Cd	111	420.361	4.3	302.744	0.02682	0.006	23.8	ug/L
	Cd	114	317.514	12.0	257.978	0.00525	0.005	93.4	ug/L
>	In	115	399030.465	1.0	368464.817				ug/L
	Sb	121	1323.785	4.0	54.001	0.12358	0.006	4.9	ug/L
	Sb	123	1013.729	1.0	50.513	0.12267	0.003	2.1	ug/L
	Ba	135	61759.314	1.3	123.002	22.32635	0.473	2.1	ug/L
	Ba	137	108814.599	0.7	192.338	22.88882	0.424	1.9	ug/L
>	Tb	159	472606.846	1.4	460537.107				ug/L
>	Ho	165	446016.861	1.0	440378.521				ug/L
	Tl	203	471.351	1.3	83.668	0.04615	0.001	1.1	ug/L
	Tl	205	1046.743	6.1	163.337	0.04721	0.003	7.3	ug/L
	Pb	208	1013.700	5.2	1492.737	-0.01875	0.002	9.3	ug/L

Pb	206	270.007	8.3	397.348	-0.01887	0.003	15.3	ug/L
Pb	207	224.005	2.7	320.010	-0.01702	0.001	4.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		122.253			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		112.501			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.295			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.621			
>	Ho	165		101.280			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950474

Sample Date/Time: Friday, November 17, 2006 18:15:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950474.029

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	69.001	6.3	84.001	-0.02562	0.002	8.3	ug/L
	Al	27	539079.634	8.7	6946.222	46.89313	3.500	7.5	ug/L
>	Sc	45	557890.282	1.6	426236.083				ug/L
	V	51	10950.095	11.9	5344.504	0.17658	0.052	29.3	ug/L
	Cr	52	93074.346	4.0	18378.762	3.55337	0.131	3.7	ug/L
	Cr	53	10250.763	8.0	1484.814	3.43209	0.399	11.6	ug/L
	Mn	55	555355.203	1.0	742.040	22.79196	0.763	3.3	ug/L
	Co	59	6418.202	1.2	848.388	0.27829	0.010	3.5	ug/L
	Ni	60	31607.486	1.5	167.670	7.04647	0.269	3.8	ug/L
	Ni	62	4018.677	4.2	209.338	5.78008	0.397	6.9	ug/L
	Cu	63	13684.698	1.0	570.693	1.26250	0.035	2.8	ug/L
	Cu	65	6823.861	1.1	318.010	1.30106	0.048	3.7	ug/L
	Zn	66	27768.484	2.5	2186.325	8.89130	0.051	0.6	ug/L
	Zn	67	4812.437	1.1	469.352	8.61552	0.361	4.2	ug/L
	Zn	68	23438.484	0.8	1708.532	10.47206	0.293	2.8	ug/L
>	Ge	72	260439.299	3.0	235019.833				ug/L
	As	75	1438.138	0.7	174.004	0.37567	0.014	3.7	ug/L
	Se	77	453.412	2.3	271.738	0.61623	0.030	4.9	ug/L
	Se	78	20330.221	1.6	18294.754	0.09526	1.164	1222.3	mg/L
	Se	82	740.833	0.4	514.483	0.50159	0.068	13.5	ug/L
	Kr	83	573.359	4.9	509.687				mg/L
	Y	89	527309.302	2.7	424645.807				ug/L
	Mo	95	2631.775	2.3	130.336	0.38069	0.006	1.5	ug/L
	Mo	97	1668.517	0.5	59.667	0.40600	0.002	0.6	ug/L
	Mo	98	4188.556	1.9	73.129	0.40118	0.004	1.0	ug/L
	Rh	103	409016.617	3.0	377819.614				ug/L
	Ag	107	75.001	9.3	60.668	0.00060	0.000	77.0	ug/L
	Ag	109	58.334	25.1	49.001	0.00037	0.001	282.2	ug/L
	Cd	111	341.889	14.6	302.744	0.00408	0.014	345.1	ug/L
	Cd	114	236.157	5.6	257.978	-0.00595	0.002	36.0	ug/L
>	In	115	398823.033	1.0	368464.817				ug/L
	Sb	121	591.694	5.9	54.001	0.05208	0.003	5.4	ug/L
	Sb	123	459.208	2.6	50.513	0.05176	0.001	2.6	ug/L
	Ba	135	68708.470	1.3	123.002	24.74286	0.397	1.6	ug/L
	Ba	137	118664.473	1.0	192.338	24.86219	0.227	0.9	ug/L
>	Tb	159	474468.837	0.5	460537.107				ug/L
>	Ho	165	440701.688	1.7	440378.521				ug/L
	Tl	203	409.347	5.0	83.668	0.03932	0.002	4.5	ug/L
	Tl	205	932.061	1.3	163.337	0.04168	0.001	2.2	ug/L
	Pb	208	3163.267	2.4	1492.737	0.06360	0.004	7.0	ug/L

Pb	206	791.379	2.3	397.348	0.05678	0.005	8.0	ug/L
Pb	207	698.036	2.0	320.010	0.06504	0.003	5.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		130.888			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.816			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.239			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.025			
>	Ho	165		100.073			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950475 D.10

Sample Date/Time: Friday, November 17, 2006 18:21:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950475 D.10.030

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	60.001	7.6	84.001	-0.02164	0.003	12.8	ug/L
	Al	27	72587.892	1.8	6946.222	7.27056	0.169	2.3	ug/L
>	Sc	45	444227.505	3.6	426236.083				ug/L
	V	51	6026.694	1.7	5344.504	0.02587	0.009	33.3	ug/L
	Cr	52	19376.362	0.9	18378.762	0.01526	0.039	254.2	ug/L
	Cr	53	1385.129	1.2	1484.814	-0.08334	0.034	40.7	ug/L
	Mn	55	850325.930	1.7	742.040	37.06860	1.217	3.3	ug/L
	Co	59	2675.790	0.8	848.388	0.09656	0.004	3.7	ug/L
	Ni	60	5016.894	1.9	167.670	1.15238	0.026	2.2	ug/L
	Ni	62	702.370	4.3	209.338	0.78329	0.039	5.0	ug/L
	Cu	63	22829.496	4.4	570.693	2.28187	0.065	2.9	ug/L
	Cu	65	11505.053	1.9	318.010	2.38371	0.026	1.1	ug/L
	Zn	66	52982.909	3.7	2186.325	18.89711	1.072	5.7	ug/L
	Zn	67	8035.620	0.8	469.352	16.07318	0.280	1.7	ug/L
	Zn	68	38821.961	1.9	1708.532	19.11467	0.708	3.7	ug/L
>	Ge	72	245276.532	2.2	235019.833				ug/L
	As	75	544.023	2.3	174.004	0.11607	0.006	5.0	ug/L
	Se	77	296.605	1.2	271.738	0.05631	0.033	59.4	ug/L
	Se	78	17823.801	1.9	18294.754	-1.71510	0.107	6.3	mg/L
	Se	82	589.554	1.9	514.483	0.16406	0.036	22.2	ug/L
	Kr	83	518.355	1.9	509.687				mg/L
	Y	89	466190.307	1.4	424645.807				ug/L
	Mo	95	1049.410	1.8	130.336	0.14784	0.004	2.8	ug/L
	Mo	97	633.364	3.1	59.667	0.15295	0.006	3.8	ug/L
	Mo	98	1597.110	3.6	73.129	0.15691	0.005	3.2	ug/L
	Rh	103	378945.120	0.8	377819.614				ug/L
	Ag	107	94.668	5.8	60.668	0.00219	0.000	17.7	ug/L
	Ag	109	76.668	9.2	49.001	0.00192	0.001	27.6	ug/L
	Cd	111	247.572	6.5	302.744	-0.01916	0.006	28.9	ug/L
	Cd	114	124.080	2.0	257.978	-0.02052	0.000	1.9	ug/L
>	In	115	377690.282	0.9	368464.817				ug/L
	Sb	121	5766.719	0.9	54.001	0.58920	0.003	0.5	ug/L
	Sb	123	4283.330	0.9	50.513	0.57179	0.007	1.2	ug/L
	Ba	135	14184.206	2.0	123.002	5.22926	0.091	1.7	ug/L
	Ba	137	24304.973	1.3	192.338	5.21664	0.059	1.1	ug/L
>	Tb	159	460258.267	0.3	460537.107				ug/L
>	Ho	165	438796.531	1.4	440378.521				ug/L
	Tl	203	139.669	8.5	83.668	0.00684	0.002	24.3	ug/L
	Tl	205	315.342	9.4	163.337	0.00833	0.002	22.4	ug/L
	Pb	208	5513.440	1.0	1492.737	0.15397	0.003	1.8	ug/L

Pb	206	1371.127	4.8	397.348	0.14110	0.009	6.3	ug/L
Pb	207	1203.099	3.3	320.010	0.15279	0.004	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		104.221			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.364			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.504			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.939			
>	Ho	165		99.641			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950475

Sample Date/Time: Friday, November 17, 2006 18:26:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950475.031

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	92.668	5.4	84.001	-0.00696	0.006	81.6	ug/L
	Al	27	702455.050	3.0	6946.222	65.39645	1.948	3.0	ug/L
>	Sc	45	524392.036	3.7	426236.083				ug/L
	V	51	11935.093	2.5	5344.504	0.25593	0.028	10.8	ug/L
	Cr	52	33367.706	2.8	18378.762	0.59110	0.087	14.7	ug/L
	Cr	53	3235.327	1.8	1484.814	0.61923	0.034	5.5	ug/L
	Mn	55	9432435.713	2.1	742.040	399.97012	13.274	3.3	ug/L
	Co	59	27504.592	0.8	848.388	1.39372	0.026	1.9	ug/L
	Ni	60	54709.213	0.5	167.670	12.61410	0.165	1.3	ug/L
	Ni	62	5768.721	1.4	209.338	8.72466	0.128	1.5	ug/L
	Cu	63	239689.051	0.9	570.693	23.85921	0.416	1.7	ug/L
	Cu	65	111601.891	1.6	318.010	23.07144	0.212	0.9	ug/L
	Zn	66	483288.254	0.7	2186.325	174.12936	0.951	0.5	ug/L
	Zn	67	73906.706	0.9	469.352	151.96412	2.337	1.5	ug/L
	Zn	68	339836.652	3.5	1708.532	169.46777	5.070	3.0	ug/L
>	Ge	72	252322.515	1.2	235019.833				ug/L
	As	75	4325.499	2.6	174.004	1.28766	0.025	1.9	ug/L
	Se	77	667.360	1.3	271.738	1.56794	0.026	1.6	ug/L
	Se	78	20546.544	2.0	18294.754	1.18776	0.227	19.1	mg/L
	Se	82	1104.473	0.9	514.483	1.67015	0.024	1.4	ug/L
	Kr	83	558.358	0.6	509.687				mg/L
	Y	89	516331.394	2.2	424645.807				ug/L
	Mo	95	10083.868	2.6	130.336	1.58754	0.037	2.3	ug/L
	Mo	97	6209.710	3.7	59.667	1.62427	0.049	3.0	ug/L
	Mo	98	16237.997	0.7	73.129	1.64762	0.039	2.4	ug/L
	Rh	103	379920.336	2.5	377819.614				ug/L
	Ag	107	409.014	3.2	60.668	0.02311	0.001	2.3	ug/L
	Ag	109	349.344	3.9	49.001	0.02146	0.001	2.6	ug/L
	Cd	111	606.690	1.2	302.744	0.08854	0.001	1.6	ug/L
	Cd	114	828.046	4.6	257.978	0.08108	0.007	8.1	ug/L
>	In	115	382060.278	1.8	368464.817				ug/L
	Sb	121	56481.704	1.8	54.001	5.75664	0.197	3.4	ug/L
	Sb	123	42807.767	1.0	50.513	5.71149	0.043	0.7	ug/L
	Ba	135	147047.259	1.1	123.002	54.96157	0.932	1.7	ug/L
	Ba	137	246617.184	0.6	192.338	53.63172	1.266	2.4	ug/L
>	Tb	159	457663.139	1.9	460537.107				ug/L
>	Ho	165	441526.471	0.6	440378.521				ug/L
	Tl	203	892.057	3.4	83.668	0.09745	0.004	4.0	ug/L
	Tl	205	2101.286	4.0	163.337	0.10486	0.005	4.9	ug/L
	Pb	208	52087.639	0.5	1492.737	1.92255	0.004	0.2	ug/L

Pb	206	13141.825	3.0	397.348	1.83237	0.044	2.4	ug/L
Pb	207	11139.553	1.3	320.010	1.85817	0.013	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		123.029			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.362			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.690			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.376			
>	Ho	165		100.261			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950476 D.10

Sample Date/Time: Friday, November 17, 2006 18:32:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950476 D.10.032

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.001	16.2	84.001	-0.02731	0.006	23.1	ug/L
	Al	27	41135.023	0.8	6946.222	3.58957	0.139	3.9	ug/L
>	Sc	45	462633.967	2.6	426236.083				ug/L
	V	51	6033.472	1.9	5344.504	0.01272	0.011	87.2	ug/L
	Cr	52	19813.060	1.5	18378.762	-0.00749	0.051	684.8	ug/L
	Cr	53	1336.121	6.3	1484.814	-0.13725	0.034	24.9	ug/L
	Mn	55	822425.171	0.6	742.040	35.60970	0.448	1.3	ug/L
	Co	59	2643.446	3.8	848.388	0.09385	0.005	4.9	ug/L
	Ni	60	4748.067	2.1	167.670	1.08113	0.031	2.9	ug/L
	Ni	62	630.364	9.4	209.338	0.65990	0.089	13.5	ug/L
	Cu	63	17432.412	4.4	570.693	1.71668	0.067	3.9	ug/L
	Cu	65	8658.252	3.3	318.010	1.76473	0.071	4.0	ug/L
	Zn	66	45527.511	1.9	2186.325	15.99895	0.307	1.9	ug/L
	Zn	67	7022.363	3.1	469.352	13.81467	0.358	2.6	ug/L
	Zn	68	32558.810	1.0	1708.532	15.76902	0.256	1.6	ug/L
>	Ge	72	246845.479	0.7	235019.833				ug/L
	As	75	513.688	5.3	174.004	0.10529	0.010	9.0	ug/L
	Se	77	296.205	1.1	271.738	0.04607	0.012	26.6	ug/L
	Se	78	17524.528	2.0	18294.754	-2.27004	0.562	24.7	mg/L
	Se	82	576.953	1.6	514.483	0.11304	0.017	15.1	ug/L
	Kr	83	517.355	4.6	509.687				mg/L
	Y	89	470357.191	1.2	424645.807				ug/L
	Mo	95	950.730	2.6	130.336	0.12890	0.005	3.7	ug/L
	Mo	97	599.361	3.8	59.667	0.14074	0.007	4.8	ug/L
	Mo	98	1409.408	5.6	73.129	0.13471	0.007	5.4	ug/L
	Rh	103	381294.973	0.6	377819.614				ug/L
	Ag	107	70.001	15.1	60.668	0.00044	0.001	165.5	ug/L
	Ag	109	56.334	28.3	49.001	0.00037	0.001	314.2	ug/L
	Cd	111	267.570	7.4	302.744	-0.01470	0.006	38.1	ug/L
	Cd	114	123.589	13.8	257.978	-0.02094	0.003	12.1	ug/L
>	In	115	385237.996	0.6	368464.817				ug/L
	Sb	121	3450.749	3.2	54.001	0.34335	0.013	3.8	ug/L
	Sb	123	2521.089	3.1	50.513	0.32698	0.010	3.1	ug/L
	Ba	135	14192.552	1.5	123.002	5.12864	0.120	2.3	ug/L
	Ba	137	24047.892	1.3	192.338	5.05907	0.136	2.7	ug/L
>	Tb	159	469581.734	1.4	460537.107				ug/L
>	Ho	165	445863.568	0.7	440378.521				ug/L
	Tl	203	131.002	8.7	83.668	0.00552	0.001	23.6	ug/L
	Tl	205	302.675	2.5	163.337	0.00736	0.000	5.5	ug/L
	Pb	208	3654.016	0.9	1492.737	0.08063	0.000	0.5	ug/L

Pb	206	903.725	0.5	397.348	0.07141	0.001	1.0	ug/L
Pb	207	822.716	2.7	320.010	0.08482	0.003	3.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		108.539			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.032			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.552			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.964			
>	Ho	165		101.246			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, November 17, 2006 18:38:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 6.033

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	63966.220	1.1	84.001	50.51420	0.114	0.2	ug/L
	Al	27	506643.569	0.3	6946.222	55.93351	0.628	1.1	ug/L
>	Sc	45	441129.877	1.1	426236.083				ug/L
	V	51	897141.179	0.9	5344.504	50.49376	0.690	1.4	ug/L
	Cr	52	788866.982	2.2	18378.762	50.14211	1.197	2.4	ug/L
	Cr	53	91408.697	2.4	1484.814	46.90132	0.610	1.3	ug/L
	Mn	55	1109460.938	2.0	742.040	49.08761	1.298	2.6	ug/L
	Co	59	902119.702	1.3	848.388	49.32896	1.643	3.3	ug/L
	Ni	60	205928.430	2.9	167.670	49.72586	2.587	5.2	ug/L
	Ni	62	30285.248	1.9	209.338	49.41665	1.317	2.7	ug/L
	Cu	63	466785.300	3.2	570.693	48.56317	0.740	1.5	ug/L
	Cu	65	226022.424	1.9	318.010	48.88519	1.759	3.6	ug/L
	Zn	66	131553.660	2.5	2186.325	48.87970	0.993	2.0	ug/L
	Zn	67	22184.379	0.9	469.352	46.94762	2.367	5.0	ug/L
	Zn	68	97746.020	1.9	1708.532	50.26400	1.347	2.7	ug/L
>	Ge	72	241805.996	4.5	235019.833				ug/L
	As	75	149286.244	2.3	174.004	48.44632	1.159	2.4	ug/L
	Se	77	12082.820	0.8	271.738	51.47245	2.041	4.0	ug/L
	Se	78	54736.869	1.1	18294.754	49.38159	4.158	8.4	mg/L
	Se	82	16669.657	1.0	514.483	51.01651	2.457	4.8	ug/L
	Kr	83	513.354	5.2	509.687				mg/L
	Y	89	461080.162	1.9	424645.807				ug/L
	Mo	95	305579.548	0.3	130.336	48.99646	1.375	2.8	ug/L
	Mo	97	195520.309	2.0	59.667	51.93172	2.294	4.4	ug/L
	Mo	98	492115.507	2.5	73.129	50.39750	1.170	2.3	ug/L
	Rh	103	388549.925	2.5	377819.614				ug/L
	Ag	107	749101.672	0.7	60.668	50.27974	1.573	3.1	ug/L
	Ag	109	685641.869	0.7	49.001	49.55665	0.937	1.9	ug/L
	Cd	111	167699.475	0.2	302.744	50.87896	1.376	2.7	ug/L
	Cd	114	366637.974	3.4	257.978	53.22242	1.344	2.5	ug/L
>	In	115	380229.172	2.6	368464.817				ug/L
	Sb	121	484114.369	0.5	54.001	49.62081	1.020	2.1	ug/L
	Sb	123	367783.565	1.3	50.513	49.38453	1.746	3.5	ug/L
	Ba	135	137486.137	1.8	123.002	50.44371	1.088	2.2	ug/L
	Ba	137	237025.442	2.6	192.338	50.58855	1.144	2.3	ug/L
>	Tb	159	466137.757	0.5	460537.107				ug/L
>	Ho	165	441159.265	1.9	440378.521				ug/L
	Tl	203	421705.858	1.2	83.668	50.88742	0.804	1.6	ug/L
	Tl	205	976575.078	2.5	163.337	52.87518	0.490	0.9	ug/L
	Pb	208	1329443.491	1.3	1492.737	50.51049	0.506	1.0	ug/L

Pb	206	339511.306	2.6	397.348	48.80349	0.642	1.3	ug/L
Pb	207	289952.274	0.2	320.010	49.80052	0.976	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	101.028				
	Al	27	111.867				
>	Sc	45		103.494			
	V	51	100.988				
	Cr	52	100.284				
	Cr	53	93.803				
	Mn	55	98.175				
	Co	59	98.658				
	Ni	60	99.452				
	Ni	62	98.833				
	Cu	63	97.126				
	Cu	65	97.770				
	Zn	66	97.759				
	Zn	67	93.895				
	Zn	68	100.528				
>	Ge	72		102.887			
	As	75	96.893				
	Se	77	102.945				
	Se	78	98.763				
	Se	82	102.033				
	Kr	83					
	Y	89					
	Mo	95	97.993				
	Mo	97	103.863				
	Mo	98	100.795				
	Rh	103					
	Ag	107	100.559				
	Ag	109	99.113				
	Cd	111	101.758				
	Cd	114	106.445				
>	In	115		103.193			
	Sb	121	99.242				
	Sb	123	98.769				
	Ba	135	100.887				
	Ba	137	101.177				
>	Tb	159		101.216			
>	Ho	165		100.177			
	Tl	203	101.775				
	Tl	205	105.750				
	Pb	208	101.021				
	Pb	206	97.607				
	Pb	207	99.601				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, November 17, 2006 18:44:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 7.034

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.001	13.5	84.001	-0.02171	0.005	25.1	ug/L
	Al	27	3845.259	1.2	6946.222	-0.37008	0.014	3.8	ug/L
>	Sc	45	436913.593	2.1	426236.083				ug/L
	V	51	5327.616	1.1	5344.504	-0.00850	0.009	108.1	ug/L
	Cr	52	17889.694	0.5	18378.762	-0.06208	0.026	42.2	ug/L
	Cr	53	1062.412	1.6	1484.814	-0.24195	0.019	7.7	ug/L
	Mn	55	610.695	5.6	742.040	-0.00627	0.002	30.2	ug/L
	Co	59	270.007	5.7	848.388	-0.03270	0.001	3.1	ug/L
	Ni	60	141.336	7.1	167.670	-0.00690	0.003	42.6	ug/L
	Ni	62	135.669	9.1	209.338	-0.12711	0.019	14.6	ug/L
	Cu	63	238.672	0.5	570.693	-0.03585	0.000	1.3	ug/L
	Cu	65	206.005	3.0	318.010	-0.02543	0.002	7.2	ug/L
	Zn	66	1500.150	2.5	2186.325	-0.27322	0.008	3.0	ug/L
	Zn	67	317.676	9.1	469.352	-0.34516	0.058	16.9	ug/L
	Zn	68	1124.754	3.4	1708.532	-0.32107	0.013	3.9	ug/L
>	Ge	72	237651.106	1.3	235019.833				ug/L
	As	75	156.336	6.8	174.004	-0.00646	0.004	60.2	ug/L
	Se	77	253.471	2.1	271.738	-0.09417	0.036	38.2	ug/L
	Se	78	17032.037	1.4	18294.754	-2.04213	0.660	32.3	mg/L
	Se	82	523.416	2.1	514.483	0.01054	0.049	469.8	ug/L
	Kr	83	499.687	3.4	509.687				mg/L
	Y	89	450841.120	1.6	424645.807				ug/L
	Mo	95	883.725	29.4	130.336	0.11869	0.039	33.2	ug/L
	Mo	97	493.354	28.7	59.667	0.11325	0.035	31.1	ug/L
	Mo	98	1273.241	29.8	73.129	0.12135	0.037	30.3	ug/L
	Rh	103	381804.647	2.1	377819.614				ug/L
	Ag	107	138.669	2.9	60.668	0.00503	0.000	2.6	ug/L
	Ag	109	118.335	12.0	49.001	0.00483	0.001	20.5	ug/L
	Cd	111	255.421	5.4	302.744	-0.01789	0.005	28.8	ug/L
	Cd	114	75.410	8.6	257.978	-0.02779	0.001	3.9	ug/L
>	In	115	383294.238	1.5	368464.817				ug/L
	Sb	121	1097.418	14.5	54.001	0.10579	0.015	14.6	ug/L
	Sb	123	870.870	17.5	50.513	0.10882	0.019	17.4	ug/L
	Ba	135	45.001	19.4	123.002	-0.02885	0.003	10.9	ug/L
	Ba	137	70.001	11.3	192.338	-0.02631	0.002	6.9	ug/L
>	Tb	159	456388.845	0.7	460537.107				ug/L
>	Ho	165	438926.133	2.8	440378.521				ug/L
	Tl	203	72.668	5.2	83.668	-0.00130	0.000	29.1	ug/L
	Tl	205	138.003	19.2	163.337	-0.00132	0.002	123.9	ug/L
	Pb	208	450.009	5.7	1492.737	-0.03968	0.001	1.5	ug/L

Pb	206	122.002	12.3	397.348	-0.03967	0.002	4.5	ug/L
Pb	207	103.002	4.2	320.010	-0.03732	0.000	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		102.505			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.120			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.025			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.099			
>	Ho	165		99.670			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950476

Sample Date/Time: Friday, November 17, 2006 18:50:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950476.035

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	86.668	1.8	84.001	-0.01050	0.001	11.8	ug/L
	Al	27	395027.406	0.6	6946.222	36.78704	0.133	0.4	ug/L
>	Sc	45	519084.099	0.4	426236.083				ug/L
	V	51	10961.201	1.8	5344.504	0.21429	0.011	5.1	ug/L
	Cr	52	30616.451	1.4	18378.762	0.45570	0.017	3.7	ug/L
	Cr	53	2816.504	1.7	1484.814	0.44716	0.017	3.9	ug/L
	Mn	55	9074675.641	0.7	742.040	387.16869	7.275	1.9	ug/L
	Co	59	26430.780	0.4	848.388	1.34607	0.016	1.2	ug/L
	Ni	60	50192.280	2.8	167.670	11.64400	0.442	3.8	ug/L
	Ni	62	5107.283	3.2	209.338	7.73651	0.351	4.5	ug/L
	Cu	63	175390.877	2.3	570.693	17.54842	0.196	1.1	ug/L
	Cu	65	86495.431	0.1	318.010	17.97937	0.194	1.1	ug/L
	Zn	66	399973.769	0.8	2186.325	144.87678	1.716	1.2	ug/L
	Zn	67	59755.503	2.6	469.352	123.46473	4.581	3.7	ug/L
	Zn	68	287156.700	2.6	1708.532	144.00954	5.397	3.7	ug/L
>	Ge	72	250751.141	1.2	235019.833				ug/L
	As	75	3988.661	1.1	174.004	1.19086	0.022	1.9	ug/L
	Se	77	642.091	0.8	271.738	1.47933	0.021	1.4	ug/L
	Se	78	20029.771	0.7	18294.754	0.67840	0.436	64.3	mg/L
	Se	82	1081.537	1.0	514.483	1.62126	0.020	1.2	ug/L
	Kr	83	564.025	5.3	509.687				mg/L
	Y	89	517127.628	2.8	424645.807				ug/L
	Mo	95	9199.836	2.2	130.336	1.42229	0.042	2.9	ug/L
	Mo	97	5732.697	3.4	59.667	1.47367	0.065	4.4	ug/L
	Mo	98	15024.204	3.9	73.129	1.49832	0.066	4.4	ug/L
	Rh	103	395371.391	0.4	377819.614				ug/L
	Ag	107	241.006	3.7	60.668	0.01163	0.001	6.5	ug/L
	Ag	109	206.671	5.3	49.001	0.01096	0.001	5.3	ug/L
	Cd	111	562.904	1.6	302.744	0.07249	0.004	5.5	ug/L
	Cd	114	789.312	4.6	257.978	0.07357	0.006	7.9	ug/L
>	In	115	388504.837	1.3	368464.817				ug/L
	Sb	121	32874.396	2.1	54.001	3.29173	0.087	2.6	ug/L
	Sb	123	24551.854	1.2	50.513	3.21874	0.078	2.4	ug/L
	Ba	135	138241.291	0.8	123.002	50.06394	0.193	0.4	ug/L
	Ba	137	234220.919	1.2	192.338	49.34623	0.319	0.6	ug/L
>	Tb	159	472232.250	1.0	460537.107				ug/L
>	Ho	165	447884.544	1.6	440378.521				ug/L
	Tl	203	864.053	1.9	83.668	0.09262	0.003	3.4	ug/L
	Tl	205	2008.596	3.5	163.337	0.09832	0.005	5.0	ug/L
	Pb	208	33445.327	0.7	1492.737	1.19621	0.017	1.4	ug/L

Pb	206	8501.420	1.4	397.348	1.14819	0.032	2.8	ug/L
Pb	207	7194.177	1.7	320.010	1.16326	0.030	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		121.783			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		106.694			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.439			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.539			
>	Ho	165		101.704			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477 D.10

Sample Date/Time: Friday, November 17, 2006 18:56:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477 D.10.036

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.334	19.7	84.001	-0.02322	0.009	40.6	ug/L
	Al	27	6686.749	0.8	6946.222	-0.07926	0.011	13.4	ug/L
>	Sc	45	455172.661	1.4	426236.083				ug/L
	V	51	5574.145	0.9	5344.504	-0.00729	0.002	33.4	ug/L
	Cr	52	18669.413	1.6	18378.762	-0.06028	0.023	38.9	ug/L
	Cr	53	1248.773	5.8	1484.814	-0.17042	0.035	20.4	ug/L
	Mn	55	609588.772	0.7	742.040	26.64740	0.380	1.4	ug/L
	Co	59	1376.461	0.8	848.388	0.02673	0.001	4.1	ug/L
	Ni	60	3672.846	2.0	167.670	0.83570	0.034	4.0	ug/L
	Ni	62	426.015	3.8	209.338	0.33883	0.040	11.7	ug/L
	Cu	63	1086.082	0.8	570.693	0.05076	0.003	5.1	ug/L
	Cu	65	711.704	1.1	318.010	0.08155	0.001	1.7	ug/L
	Zn	66	3718.867	1.9	2186.325	0.54033	0.041	7.5	ug/L
	Zn	67	796.713	2.9	469.352	0.65942	0.048	7.3	ug/L
	Zn	68	3158.964	1.8	1708.532	0.71556	0.040	5.5	ug/L
>	Ge	72	244452.927	2.0	235019.833				ug/L
	As	75	843.051	1.7	174.004	0.21268	0.006	2.7	ug/L
	Se	77	262.537	2.6	271.738	-0.08603	0.049	57.4	ug/L
	Se	78	17366.722	1.7	18294.754	-2.24734	0.710	31.6	mg/L
	Se	82	547.551	2.2	514.483	0.03875	0.012	30.9	ug/L
	Kr	83	500.020	4.1	509.687				mg/L
	Y	89	454163.872	1.6	424645.807				ug/L
	Mo	95	1158.092	6.3	130.336	0.15893	0.011	7.0	ug/L
	Mo	97	652.365	3.0	59.667	0.15199	0.003	2.0	ug/L
	Mo	98	1707.210	2.9	73.129	0.16222	0.004	2.6	ug/L
	Rh	103	375858.678	2.1	377819.614				ug/L
	Ag	107	60.667	12.6	60.668	-0.00024	0.001	229.3	ug/L
	Ag	109	53.334	3.9	49.001	0.00009	0.000	171.9	ug/L
	Cd	111	249.629	4.4	302.744	-0.02121	0.002	11.5	ug/L
	Cd	114	89.185	18.3	257.978	-0.02606	0.002	9.4	ug/L
>	In	115	391152.414	1.2	368464.817				ug/L
	Sb	121	247.006	9.4	54.001	0.01891	0.003	13.6	ug/L
	Sb	123	190.273	7.8	50.513	0.01783	0.002	10.8	ug/L
	Ba	135	17614.442	1.6	123.002	6.50102	0.050	0.8	ug/L
	Ba	137	29722.224	2.2	192.338	6.38595	0.190	3.0	ug/L
>	Tb	159	460544.965	1.3	460537.107				ug/L
>	Ho	165	447105.900	0.7	440378.521				ug/L
	Tl	203	99.335	5.1	83.668	0.00171	0.001	34.8	ug/L
	Tl	205	210.338	9.0	163.337	0.00237	0.001	39.7	ug/L
	Pb	208	1271.383	1.7	1492.737	-0.00916	0.000	5.4	ug/L

Pb	206	332.343	4.1	397.348	-0.01008	0.002	21.9	ug/L
Pb	207	286.008	8.9	320.010	-0.00661	0.004	61.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		106.789			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.014			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.157			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.002			
>	Ho	165		101.528			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477D D.10

Sample Date/Time: Friday, November 17, 2006 19:02:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477D D.10.037

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.668	12.6	84.001	-0.02022	0.005	26.0	ug/L
	Al	27	6769.484	2.4	6946.222	-0.04970	0.007	13.8	ug/L
>	Sc	45	442709.789	2.0	426236.083				ug/L
	V	51	5936.257	2.0	5344.504	0.02179	0.008	34.8	ug/L
	Cr	52	19267.111	1.7	18378.762	0.01172	0.022	186.2	ug/L
	Cr	53	1135.089	3.5	1484.814	-0.21155	0.024	11.4	ug/L
	Mn	55	596658.938	1.0	742.040	26.87212	0.589	2.2	ug/L
	Co	59	1322.785	2.4	848.388	0.02598	0.001	5.6	ug/L
	Ni	60	3729.872	2.5	167.670	0.87611	0.034	3.8	ug/L
	Ni	62	422.682	1.4	209.338	0.35376	0.014	4.0	ug/L
	Cu	63	1044.076	3.5	570.693	0.04968	0.005	9.2	ug/L
	Cu	65	655.032	2.2	318.010	0.07366	0.003	4.7	ug/L
	Zn	66	2504.068	2.1	2186.325	0.11450	0.030	26.4	ug/L
	Zn	67	607.028	2.7	469.352	0.29304	0.020	6.9	ug/L
	Zn	68	2355.356	1.1	1708.532	0.33625	0.013	3.8	ug/L
>	Ge	72	237268.371	1.2	235019.833				ug/L
	As	75	842.051	4.9	174.004	0.22042	0.011	4.8	ug/L
	Se	77	264.271	1.7	271.738	-0.04441	0.034	76.6	ug/L
	Se	78	17190.728	1.4	18294.754	-1.78392	0.546	30.6	mg/L
	Se	82	537.617	3.8	514.483	0.05840	0.055	93.8	ug/L
	Kr	83	498.687	7.1	509.687				mg/L
	Y	89	465450.185	1.5	424645.807				ug/L
	Mo	95	1120.420	3.1	130.336	0.15595	0.004	2.3	ug/L
	Mo	97	648.365	4.3	59.667	0.15375	0.006	4.0	ug/L
	Mo	98	1649.050	1.0	73.129	0.15920	0.003	2.1	ug/L
	Rh	103	383038.253	1.2	377819.614				ug/L
	Ag	107	59.001	8.5	60.668	-0.00029	0.000	111.6	ug/L
	Ag	109	47.334	12.7	49.001	-0.00028	0.000	143.1	ug/L
	Cd	111	249.035	3.7	302.744	-0.02011	0.004	17.6	ug/L
	Cd	114	79.037	22.6	257.978	-0.02732	0.003	9.6	ug/L
>	In	115	384726.148	1.1	368464.817				ug/L
	Sb	121	203.671	5.7	54.001	0.01492	0.001	8.3	ug/L
	Sb	123	165.479	3.0	50.513	0.01495	0.000	3.0	ug/L
	Ba	135	16834.159	2.1	123.002	6.06687	0.135	2.2	ug/L
	Ba	137	29444.555	0.2	192.338	6.17832	0.094	1.5	ug/L
>	Tb	159	471442.559	1.3	460537.107				ug/L
>	Ho	165	440051.083	1.2	440378.521				ug/L
	Tl	203	97.668	4.1	83.668	0.00170	0.001	33.6	ug/L
	Tl	205	206.005	7.6	163.337	0.00232	0.001	33.5	ug/L
	Pb	208	1232.714	3.5	1492.737	-0.00987	0.002	17.8	ug/L

Pb	206	331.677	4.4	397.348	-0.00944	0.002	20.5	ug/L
Pb	207	276.674	8.0	320.010	-0.00745	0.003	44.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.865			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.957			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.413			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.368			
>	Ho	165		99.926			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477S D.10

Sample Date/Time: Friday, November 17, 2006 19:08:44
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477S D.10.038

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	2660.785	1.7	84.001	2.02266	0.056	2.8	ug/L
	Al	27	26902.007	4.2	6946.222	2.18982	0.157	7.1	ug/L
>	Sc	45	443987.121	2.8	426236.083				ug/L
	V	51	43103.787	1.1	5344.504	2.11340	0.082	3.9	ug/L
	Cr	52	50079.899	1.9	18378.762	2.00338	0.103	5.1	ug/L
	Cr	53	4836.452	2.6	1484.814	1.70694	0.082	4.8	ug/L
	Mn	55	630516.428	2.2	742.040	28.57500	1.148	4.0	ug/L
	Co	59	38586.180	0.4	848.388	2.11563	0.039	1.9	ug/L
	Ni	60	12043.155	2.9	167.670	2.93934	0.121	4.1	ug/L
	Ni	62	1643.179	3.4	209.338	2.41179	0.043	1.8	ug/L
	Cu	63	20364.391	1.2	570.693	2.11341	0.067	3.2	ug/L
	Cu	65	9753.135	0.5	318.010	2.09330	0.053	2.5	ug/L
	Zn	66	6785.163	1.9	2186.325	1.77800	0.021	1.2	ug/L
	Zn	67	1388.129	0.8	469.352	2.03153	0.070	3.5	ug/L
	Zn	68	5652.976	4.4	1708.532	2.11478	0.193	9.1	ug/L
>	Ge	72	235882.643	1.9	235019.833				ug/L
	As	75	6888.917	2.9	174.004	2.23509	0.069	3.1	ug/L
	Se	77	708.697	2.1	271.738	1.94705	0.069	3.5	ug/L
	Se	78	18747.953	1.4	18294.754	0.55146	0.744	134.9	mg/L
	Se	82	1178.083	2.3	514.483	2.14247	0.137	6.4	ug/L
	Kr	83	547.357	2.8	509.687				mg/L
	Y	89	451688.064	2.8	424645.807				ug/L
	Mo	95	14335.799	1.4	130.336	2.24416	0.038	1.7	ug/L
	Mo	97	8724.993	5.0	59.667	2.26759	0.131	5.8	ug/L
	Mo	98	22318.986	0.4	73.129	2.24592	0.068	3.0	ug/L
	Rh	103	375086.857	3.9	377819.614				ug/L
	Ag	107	31766.080	0.2	60.668	2.09704	0.056	2.7	ug/L
	Ag	109	29218.443	2.3	49.001	2.07770	0.060	2.9	ug/L
	Cd	111	7162.516	1.5	302.744	2.05028	0.046	2.2	ug/L
	Cd	114	14518.934	0.8	257.978	2.04080	0.060	2.9	ug/L
>	In	115	385840.640	2.8	368464.817				ug/L
	Sb	121	20096.406	1.2	54.001	2.02509	0.077	3.8	ug/L
	Sb	123	15393.556	0.9	50.513	2.03043	0.074	3.7	ug/L
	Ba	135	22601.179	2.5	123.002	8.21942	0.208	2.5	ug/L
	Ba	137	39383.571	0.3	192.338	8.33675	0.039	0.5	ug/L
>	Tb	159	468071.989	0.2	460537.107				ug/L
>	Ho	165	443365.468	0.3	440378.521				ug/L
	Tl	203	17645.841	1.3	83.668	2.10877	0.033	1.6	ug/L
	Tl	205	41193.314	1.1	163.337	2.21088	0.019	0.9	ug/L
	Pb	208	56393.411	0.4	1492.737	2.07727	0.004	0.2	ug/L

|	Pb	206	14332.127	1.8	397.348	1.99524	0.042	2.1	ug/L
L	Pb	207	12265.142	0.5	320.010	2.04280	0.004	0.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		104.165			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.367			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.716			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.636			
>	Ho	165		100.678			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477A D.10

Sample Date/Time: Friday, November 17, 2006 19:14:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477A D.10.039

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	26188.370	2.9	84.001	20.58403	0.415	2.0	ug/L
	Al	27	204880.374	2.9	6946.222	22.07502	0.460	2.1	ug/L
>	Sc	45	442318.651	1.8	426236.083				ug/L
	V	51	375020.251	2.2	5344.504	20.86666	0.305	1.5	ug/L
	Cr	52	323305.919	1.4	18378.762	19.76276	0.236	1.2	ug/L
	Cr	53	38851.485	3.5	1484.814	19.43276	1.055	5.4	ug/L
	Mn	55	1016494.530	0.1	742.040	45.46280	0.357	0.8	ug/L
	Co	59	374155.306	1.7	848.388	20.65006	0.345	1.7	ug/L
	Ni	60	85832.039	3.8	167.670	20.91665	0.765	3.7	ug/L
	Ni	62	12242.109	1.4	209.338	19.98503	0.382	1.9	ug/L
	Cu	63	195653.951	2.4	570.693	20.54757	0.343	1.7	ug/L
	Cu	65	92060.703	1.5	318.010	20.08246	0.278	1.4	ug/L
	Zn	66	54473.016	1.1	2186.325	19.97157	0.372	1.9	ug/L
	Zn	67	9792.850	1.7	469.352	20.35647	0.208	1.0	ug/L
	Zn	68	39874.620	2.8	1708.532	20.18659	0.541	2.7	ug/L
>	Ge	72	239016.421	0.8	235019.833				ug/L
	As	75	62403.786	1.8	174.004	20.43942	0.294	1.4	ug/L
	Se	77	4788.242	0.9	271.738	19.88277	0.271	1.4	ug/L
	Se	78	32100.059	1.8	18294.754	18.72131	0.457	2.4	mg/L
	Se	82	6790.099	1.0	514.483	20.01153	0.174	0.9	ug/L
	Kr	83	504.687	2.6	509.687				mg/L
	Y	89	451200.560	2.8	424645.807				ug/L
	Mo	95	133131.104	1.3	130.336	21.06266	0.578	2.7	ug/L
	Mo	97	80366.579	2.1	59.667	21.05248	0.078	0.4	ug/L
	Mo	98	209205.574	1.5	73.129	21.15133	0.418	2.0	ug/L
	Rh	103	370954.516	0.6	377819.614				ug/L
	Ag	107	307612.204	1.8	60.668	20.38411	0.757	3.7	ug/L
	Ag	109	289772.287	0.6	49.001	20.67612	0.286	1.4	ug/L
	Cd	111	67080.962	0.6	302.744	20.03432	0.367	1.8	ug/L
	Cd	114	143705.612	1.2	257.978	20.57987	0.482	2.3	ug/L
>	In	115	385061.619	2.0	368464.817				ug/L
	Sb	121	199637.445	0.9	54.001	20.19884	0.319	1.6	ug/L
	Sb	123	152631.217	1.3	50.513	20.22440	0.272	1.3	ug/L
	Ba	135	73004.467	1.0	123.002	27.46380	0.429	1.6	ug/L
	Ba	137	127089.004	3.2	192.338	27.81030	0.583	2.1	ug/L
>	Tb	159	454311.219	1.5	460537.107				ug/L
>	Ho	165	439923.533	0.6	440378.521				ug/L
	Tl	203	171896.716	1.3	83.668	20.79226	0.281	1.4	ug/L
	Tl	205	402034.389	0.7	163.337	21.82522	0.184	0.8	ug/L
	Pb	208	547332.030	0.5	1492.737	20.81919	0.215	1.0	ug/L

Pb	206	142693.455	0.9	397.348	20.53834	0.287	1.4	ug/L
Pb	207	117192.591	1.6	320.010	20.14885	0.432	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.773			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.701			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.504			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.648			
>	Ho	165		99.897			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477L D.10

Sample Date/Time: Friday, November 17, 2006 19:20:42
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477L D.10.040

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.001	10.0	84.001	-0.02801	0.004	15.8	ug/L
	Al	27	6229.727	4.7	6946.222	-0.08693	0.025	28.8	ug/L
>	Sc	45	428431.491	1.3	426236.083				ug/L
	V	51	5617.171	0.8	5344.504	0.01434	0.006	38.6	ug/L
	Cr	52	18262.171	0.2	18378.762	-0.01405	0.013	94.8	ug/L
	Cr	53	992.069	5.5	1484.814	-0.26889	0.029	10.8	ug/L
	Mn	55	122237.703	1.7	742.040	5.61683	0.074	1.3	ug/L
	Co	59	429.682	2.6	848.388	-0.02318	0.001	3.1	ug/L
	Ni	60	859.720	2.6	167.670	0.17518	0.005	2.8	ug/L
	Ni	62	219.005	4.0	209.338	0.02211	0.015	68.8	ug/L
	Cu	63	596.694	1.6	570.693	0.00379	0.001	32.2	ug/L
	Cu	65	395.680	9.0	318.010	0.01867	0.008	43.1	ug/L
	Zn	66	1708.192	4.1	2186.325	-0.17550	0.027	15.4	ug/L
	Zn	67	390.346	2.3	469.352	-0.16201	0.023	14.2	ug/L
	Zn	68	1363.792	3.9	1708.532	-0.17420	0.026	15.0	ug/L
>	Ge	72	231410.025	0.4	235019.833				ug/L
	As	75	281.674	1.7	174.004	0.03743	0.001	3.3	ug/L
	Se	77	240.137	1.9	271.738	-0.12486	0.018	14.2	ug/L
	Se	78	17083.423	1.1	18294.754	-1.33276	0.312	23.4	mg/L
	Se	82	512.749	2.4	514.483	0.02029	0.036	176.0	ug/L
	Kr	83	512.354	5.8	509.687				mg/L
	Y	89	440982.748	4.8	424645.807				ug/L
	Mo	95	339.344	1.5	130.336	0.03389	0.001	2.5	ug/L
	Mo	97	215.005	11.8	59.667	0.04183	0.007	16.5	ug/L
	Mo	98	432.921	9.9	73.129	0.03746	0.005	12.1	ug/L
	Rh	103	387526.498	0.6	377819.614				ug/L
	Ag	107	83.668	11.1	60.668	0.00152	0.001	42.1	ug/L
	Ag	109	64.001	0.0	49.001	0.00106	0.000	0.4	ug/L
	Cd	111	218.652	4.6	302.744	-0.02721	0.003	11.4	ug/L
	Cd	114	51.341	56.2	257.978	-0.03107	0.004	13.8	ug/L
>	In	115	373078.525	0.1	368464.817				ug/L
	Sb	121	509.354	11.2	54.001	0.04749	0.006	12.6	ug/L
	Sb	123	389.622	14.2	50.513	0.04630	0.008	16.4	ug/L
	Ba	135	3501.771	3.8	123.002	1.25903	0.037	3.0	ug/L
	Ba	137	6086.617	2.4	192.338	1.27805	0.038	2.9	ug/L
>	Tb	159	459364.009	1.8	460537.107				ug/L
>	Ho	165	437911.517	1.1	440378.521				ug/L
	Tl	203	72.334	17.6	83.668	-0.00133	0.001	108.2	ug/L
	Tl	205	140.669	14.6	163.337	-0.00119	0.001	88.7	ug/L
	Pb	208	562.346	3.0	1492.737	-0.03533	0.000	1.2	ug/L

Pb	206	156.670	4.3	397.348	-0.03457	0.001	2.7	ug/L
Pb	207	128.002	7.2	320.010	-0.03295	0.001	4.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		100.515			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.464			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.252			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.745			
>	Ho	165		99.440			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477

Sample Date/Time: Friday, November 17, 2006 19:26:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477.041

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	66.668	6.2	84.001	-0.02427	0.003	13.9	ug/L
	Al	27	34933.765	1.7	6946.222	2.49425	0.101	4.0	ug/L
>	Sc	45	523187.664	1.4	426236.083				ug/L
	V	51	9991.110	4.1	5344.504	0.16389	0.021	12.9	ug/L
	Cr	52	28320.736	4.9	18378.762	0.31649	0.077	24.3	ug/L
	Cr	53	2363.359	2.7	1484.814	0.23837	0.042	17.8	ug/L
	Mn	55	6978187.371	0.9	742.040	287.34335	0.630	0.2	ug/L
	Co	59	12908.124	2.8	848.388	0.60923	0.013	2.2	ug/L
	Ni	60	39965.502	5.1	167.670	8.94137	0.545	6.1	ug/L
	Ni	62	3201.647	1.6	209.338	4.54082	0.111	2.4	ug/L
	Cu	63	7857.116	2.8	570.693	0.70061	0.029	4.1	ug/L
	Cu	65	4287.146	3.1	318.010	0.79296	0.035	4.4	ug/L
	Zn	66	27134.069	3.1	2186.325	8.69151	0.222	2.6	ug/L
	Zn	67	5626.622	1.2	469.352	10.27222	0.237	2.3	ug/L
	Zn	68	25623.256	0.4	1708.532	11.56066	0.076	0.7	ug/L
>	Ge	72	259763.645	1.0	235019.833				ug/L
	As	75	7525.139	1.6	174.004	2.21663	0.058	2.6	ug/L
	Se	77	469.947	1.2	271.738	0.68793	0.041	6.0	ug/L
	Se	78	19601.474	0.2	18294.754	-0.78904	0.270	34.2	mg/L
	Se	82	818.507	1.0	514.483	0.73418	0.021	2.9	ug/L
	Kr	83	584.026	5.3	509.687				mg/L
	Y	89	526189.062	1.1	424645.807				ug/L
	Mo	95	10583.161	3.5	130.336	1.57572	0.048	3.1	ug/L
	Mo	97	6576.327	1.8	59.667	1.62728	0.020	1.2	ug/L
	Mo	98	17085.251	1.4	73.129	1.63936	0.012	0.7	ug/L
	Rh	103	404058.098	1.2	377819.614				ug/L
	Ag	107	87.335	11.5	60.668	0.00132	0.001	50.2	ug/L
	Ag	109	54.334	19.7	49.001	0.00004	0.001	1805.6	ug/L
	Cd	111	515.285	2.3	302.744	0.05251	0.005	10.3	ug/L
	Cd	114	577.645	14.8	257.978	0.04041	0.013	31.3	ug/L
>	In	115	403911.613	1.5	368464.817				ug/L
	Sb	121	858.386	7.7	54.001	0.07717	0.008	9.9	ug/L
	Sb	123	634.936	9.8	50.513	0.07331	0.009	12.3	ug/L
	Ba	135	174810.445	1.4	123.002	61.61438	1.185	1.9	ug/L
	Ba	137	300109.855	2.1	192.338	61.53721	1.499	2.4	ug/L
>	Tb	159	485317.791	0.6	460537.107				ug/L
>	Ho	165	453013.868	0.9	440378.521				ug/L
	Tl	203	430.682	5.2	83.668	0.04050	0.003	6.4	ug/L
	Tl	205	995.403	1.1	163.337	0.04364	0.001	1.3	ug/L
	Pb	208	9589.918	1.0	1492.737	0.29832	0.002	0.7	ug/L

Pb	206	2423.377	1.5	397.348	0.28235	0.002	0.8	ug/L
Pb	207	2104.954	2.3	320.010	0.29728	0.008	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		122.746			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.528			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.620			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		105.381			
>	Ho	165		102.869			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477D

Sample Date/Time: Friday, November 17, 2006 19:32:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477D.042

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	72.668	10.0	84.001	-0.02216	0.005	23.2	ug/L
	Al	27	35642.094	1.6	6946.222	2.42838	0.038	1.6	ug/L
>	Sc	45	544516.263	1.1	426236.083				ug/L
	V	51	9709.900	5.2	5344.504	0.13243	0.028	21.4	ug/L
	Cr	52	27864.146	3.0	18378.762	0.23181	0.060	25.9	ug/L
	Cr	53	2403.704	2.2	1484.814	0.21436	0.023	10.7	ug/L
	Mn	55	6716374.419	0.3	742.040	280.20696	2.854	1.0	ug/L
	Co	59	12978.898	1.8	848.388	0.62162	0.015	2.4	ug/L
	Ni	60	40361.307	3.2	167.670	9.14582	0.282	3.1	ug/L
	Ni	62	3177.638	1.9	209.338	4.56754	0.099	2.2	ug/L
	Cu	63	7936.857	1.1	570.693	0.71832	0.013	1.8	ug/L
	Cu	65	4204.102	1.9	318.010	0.78715	0.015	2.0	ug/L
	Zn	66	16958.079	2.2	2186.325	5.19262	0.151	2.9	ug/L
	Zn	67	4257.797	2.0	469.352	7.63119	0.189	2.5	ug/L
	Zn	68	18105.832	1.6	1708.532	8.01439	0.094	1.2	ug/L
>	Ge	72	256394.167	0.7	235019.833				ug/L
	As	75	7643.581	1.9	174.004	2.28269	0.061	2.7	ug/L
	Se	77	461.946	5.0	271.738	0.67963	0.089	13.0	ug/L
	Se	78	19765.413	2.0	18294.754	-0.24781	0.621	250.7	mg/L
	Se	82	816.040	1.8	514.483	0.75856	0.054	7.1	ug/L
	Kr	83	599.028	4.8	509.687				mg/L
	Y	89	515998.897	1.7	424645.807				ug/L
	Mo	95	10909.581	2.0	130.336	1.58664	0.036	2.2	ug/L
	Mo	97	6514.611	1.2	59.667	1.57392	0.031	1.9	ug/L
	Mo	98	16590.890	1.1	73.129	1.55464	0.043	2.8	ug/L
	Rh	103	402754.681	1.8	377819.614				ug/L
	Ag	107	72.001	12.1	60.668	0.00024	0.000	196.4	ug/L
	Ag	109	56.001	18.6	49.001	0.00006	0.001	1095.1	ug/L
	Cd	111	494.576	7.6	302.744	0.04334	0.012	28.3	ug/L
	Cd	114	608.972	2.0	257.978	0.04270	0.004	8.8	ug/L
>	In	115	413663.830	2.6	368464.817				ug/L
	Sb	121	664.366	2.2	54.001	0.05691	0.003	4.8	ug/L
	Sb	123	539.595	0.6	50.513	0.05961	0.002	3.3	ug/L
	Ba	135	173926.803	3.1	123.002	62.51108	2.176	3.5	ug/L
	Ba	137	306640.224	0.6	192.338	64.11284	0.551	0.9	ug/L
>	Tb	159	475954.847	0.6	460537.107				ug/L
>	Ho	165	460005.926	0.8	440378.521				ug/L
	Tl	203	405.347	2.0	83.668	0.03679	0.001	1.7	ug/L
	Tl	205	998.070	3.5	163.337	0.04299	0.002	5.2	ug/L
	Pb	208	9469.528	0.2	1492.737	0.28854	0.002	0.8	ug/L

Pb	206	2418.042	2.4	397.348	0.27645	0.007	2.4	ug/L
Pb	207	2061.609	2.4	320.010	0.28474	0.005	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		127.750			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		109.095			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		112.267			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.348			
>	Ho	165		104.457			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477S

Sample Date/Time: Friday, November 17, 2006 19:38:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477S.043

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23783.463	0.7	84.001	15.52633	0.232	1.5	ug/L
	Al	27	247064.111	1.3	6946.222	22.13591	0.427	1.9	ug/L
>	Sc	45	532046.770	1.1	426236.083				ug/L
	V	51	395709.338	1.6	5344.504	18.26755	0.379	2.1	ug/L
	Cr	52	355254.030	1.1	18378.762	17.94721	0.390	2.2	ug/L
	Cr	53	40856.006	1.9	1484.814	16.87871	0.355	2.1	ug/L
	Mn	55	7419663.776	3.0	742.040	312.92481	11.913	3.8	ug/L
	Co	59	406650.561	1.8	848.388	21.14877	0.419	2.0	ug/L
	Ni	60	124455.746	2.5	167.670	28.60509	1.231	4.3	ug/L
	Ni	62	15985.478	0.7	209.338	24.67021	0.376	1.5	ug/L
	Cu	63	200405.493	0.7	570.693	19.83250	0.357	1.8	ug/L
	Cu	65	99764.332	1.2	318.010	20.51064	0.497	2.4	ug/L
	Zn	66	57243.843	0.2	2186.325	19.76770	0.374	1.9	ug/L
	Zn	67	11102.841	3.1	469.352	21.83042	1.124	5.1	ug/L
	Zn	68	48311.456	0.8	1708.532	23.18114	0.617	2.7	ug/L
>	Ge	72	253697.666	2.0	235019.833				ug/L
	As	75	68034.614	0.7	174.004	21.00019	0.323	1.5	ug/L
	Se	77	4661.237	1.4	271.738	18.13946	0.527	2.9	ug/L
	Se	78	32887.284	1.5	18294.754	17.19495	1.480	8.6	mg/L
	Se	82	6620.963	1.2	514.483	18.25005	0.174	1.0	ug/L
	Kr	83	576.359	3.8	509.687				mg/L
	Y	89	524533.659	3.2	424645.807				ug/L
	Mo	95	153155.272	1.4	130.336	23.18373	0.174	0.7	ug/L
	Mo	97	97319.321	1.2	59.667	24.40324	0.466	1.9	ug/L
	Mo	98	249887.654	3.6	73.129	24.18042	1.040	4.3	ug/L
	Rh	103	406934.284	1.3	377819.614				ug/L
	Ag	107	311453.170	2.1	60.668	19.74315	0.443	2.2	ug/L
	Ag	109	289259.665	1.3	49.001	19.74911	0.202	1.0	ug/L
	Cd	111	67859.794	0.8	302.744	19.38901	0.120	0.6	ug/L
	Cd	114	145300.047	1.5	257.978	19.90927	0.398	2.0	ug/L
>	In	115	402344.062	0.7	368464.817				ug/L
	Sb	121	202509.987	1.9	54.001	19.60711	0.464	2.4	ug/L
	Sb	123	152703.140	2.2	50.513	19.36275	0.467	2.4	ug/L
	Ba	135	226372.962	1.1	123.002	79.29709	0.495	0.6	ug/L
	Ba	137	390249.358	1.0	192.338	79.52734	0.234	0.3	ug/L
>	Tb	159	488365.599	0.8	460537.107				ug/L
>	Ho	165	456187.182	0.9	440378.521				ug/L
	Tl	203	174787.756	0.2	83.668	20.38906	0.211	1.0	ug/L
	Tl	205	423675.689	1.3	163.337	22.18061	0.306	1.4	ug/L
	Pb	208	558677.856	0.8	1492.737	20.49193	0.143	0.7	ug/L

Pb	206	141779.467	1.4	397.348	19.67554	0.146	0.7	ug/L
Pb	207	119643.328	1.0	320.010	19.83521	0.235	1.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		124.824			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.947			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.195			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		106.043			
>	Ho	165		103.590			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, November 17, 2006 19:44:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 6.044

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	63741.163	0.9	84.001	49.56389	0.633	1.3	ug/L
	Al	27	527199.020	0.8	6946.222	57.32647	0.705	1.2	ug/L
>	Sc	45	448060.201	1.9	426236.083				ug/L
	V	51	891228.825	1.5	5344.504	49.39578	1.680	3.4	ug/L
	Cr	52	775745.883	1.0	18378.762	48.51607	1.157	2.4	ug/L
	Cr	53	91048.640	1.2	1484.814	45.98840	0.524	1.1	ug/L
	Mn	55	1091762.641	3.3	742.040	49.82514	1.989	4.0	ug/L
	Co	59	884153.928	1.3	848.388	49.85765	1.250	2.5	ug/L
	Ni	60	201682.048	0.4	167.670	50.20468	0.826	1.6	ug/L
	Ni	62	29917.602	2.9	209.338	50.34698	1.243	2.5	ug/L
	Cu	63	465237.528	2.6	570.693	49.93952	1.453	2.9	ug/L
	Cu	65	231499.228	1.5	318.010	51.63791	1.328	2.6	ug/L
	Zn	66	131841.095	2.4	2186.325	50.56509	1.616	3.2	ug/L
	Zn	67	22173.348	0.3	469.352	48.39392	0.590	1.2	ug/L
	Zn	68	97450.123	0.5	1708.532	51.70767	0.598	1.2	ug/L
>	Ge	72	234295.648	1.3	235019.833				ug/L
	As	75	145410.851	0.8	174.004	48.67597	1.001	2.1	ug/L
	Se	77	11702.144	0.6	271.738	51.39320	0.798	1.6	ug/L
	Se	78	53933.095	1.9	18294.754	50.52473	0.965	1.9	mg/L
	Se	82	16380.550	0.3	514.483	51.69625	0.811	1.6	ug/L
	Kr	83	499.353	7.0	509.687				mg/L
	Y	89	461175.003	4.9	424645.807				ug/L
	Mo	95	312467.376	2.3	130.336	49.34571	1.159	2.3	ug/L
	Mo	97	200242.411	1.1	59.667	52.37558	1.057	2.0	ug/L
	Mo	98	491387.374	2.4	73.129	49.58621	1.615	3.3	ug/L
	Rh	103	401522.942	2.2	377819.614				ug/L
	Ag	107	765593.721	2.3	60.668	50.60125	0.398	0.8	ug/L
	Ag	109	691002.111	1.5	49.001	49.19651	0.460	0.9	ug/L
	Cd	111	174796.390	1.1	302.744	52.24010	1.013	1.9	ug/L
	Cd	114	369268.716	1.9	257.978	52.81268	0.160	0.3	ug/L
>	In	115	385898.588	1.6	368464.817				ug/L
	Sb	121	490779.776	1.4	54.001	49.55078	0.611	1.2	ug/L
	Sb	123	373019.866	1.7	50.513	49.32261	0.044	0.1	ug/L
	Ba	135	137650.945	2.2	123.002	49.41235	0.985	2.0	ug/L
	Ba	137	236564.777	1.2	192.338	49.40382	0.365	0.7	ug/L
>	Tb	159	476397.237	0.7	460537.107				ug/L
>	Ho	165	445414.920	1.0	440378.521				ug/L
	Tl	203	426548.731	0.7	83.668	50.97339	0.153	0.3	ug/L
	Tl	205	1007754.550	1.7	163.337	54.04342	0.431	0.8	ug/L
	Pb	208	1360828.469	1.9	1492.737	51.20341	0.656	1.3	ug/L

Pb	206	348102.720	1.4	397.348	49.56288	0.177	0.4	ug/L
Pb	207	295970.197	1.1	320.010	50.33945	0.673	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	99.128				
	Al	27	114.653				
>	Sc	45		105.120			
	V	51	98.792				
	Cr	52	97.032				
	Cr	53	91.977				
	Mn	55	99.650				
	Co	59	99.715				
	Ni	60	100.409				
	Ni	62	100.694				
	Cu	63	99.879				
	Cu	65	103.276				
	Zn	66	101.130				
	Zn	67	96.788				
	Zn	68	103.415				
>	Ge	72		99.692			
	As	75	97.352				
	Se	77	102.786				
	Se	78	101.049				
	Se	82	103.393				
	Kr	83					
	Y	89					
	Mo	95	98.691				
	Mo	97	104.751				
	Mo	98	99.172				
	Rh	103					
	Ag	107	101.202				
	Ag	109	98.393				
	Cd	111	104.480				
	Cd	114	105.625				
>	In	115		104.731			
	Sb	121	99.102				
	Sb	123	98.645				
	Ba	135	98.825				
	Ba	137	98.808				
>	Tb	159		103.444			
>	Ho	165		101.144			
	Tl	203	101.947				
	Tl	205	108.087				
	Pb	208	102.407				
	Pb	206	99.126				
	Pb	207	100.679				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, November 17, 2006 19:50:34
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 7.045

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	52.001	11.7	84.001	-0.02752	0.005	16.8	ug/L
	Al	27	4093.380	2.2	6946.222	-0.34520	0.017	4.8	ug/L
>	Sc	45	439942.925	2.3	426236.083				ug/L
	V	51	5282.029	1.9	5344.504	-0.01320	0.009	70.1	ug/L
	Cr	52	17656.863	0.6	18378.762	-0.08532	0.028	33.4	ug/L
	Cr	53	949.397	1.4	1484.814	-0.30512	0.004	1.4	ug/L
	Mn	55	563.692	13.5	742.040	-0.00753	0.004	47.3	ug/L
	Co	59	246.339	8.2	848.388	-0.03355	0.001	3.4	ug/L
	Ni	60	149.336	10.3	167.670	-0.00370	0.004	105.6	ug/L
	Ni	62	157.670	9.1	209.338	-0.08116	0.025	30.9	ug/L
	Cu	63	248.340	6.3	570.693	-0.03392	0.002	5.0	ug/L
	Cu	65	213.338	3.5	318.010	-0.02221	0.002	7.4	ug/L
	Zn	66	1442.473	2.9	2186.325	-0.27626	0.017	6.0	ug/L
	Zn	67	304.342	5.5	469.352	-0.35120	0.038	10.8	ug/L
	Zn	68	1086.748	1.0	1708.532	-0.32128	0.007	2.1	ug/L
>	Ge	72	229742.780	0.1	235019.833				ug/L
	As	75	147.003	8.2	174.004	-0.00789	0.004	52.7	ug/L
	Se	77	248.204	2.3	271.738	-0.07991	0.026	32.8	ug/L
	Se	78	17052.773	2.6	18294.754	-1.19933	0.670	55.9	mg/L
	Se	82	517.416	3.9	514.483	0.04818	0.068	141.9	ug/L
	Kr	83	488.019	3.6	509.687				mg/L
	Y	89	437192.289	1.2	424645.807				ug/L
	Mo	95	858.388	27.2	130.336	0.11293	0.039	34.1	ug/L
	Mo	97	529.690	27.0	59.667	0.12110	0.039	32.4	ug/L
	Mo	98	1290.872	26.0	73.129	0.12146	0.035	29.2	ug/L
	Rh	103	378768.292	1.9	377819.614				ug/L
	Ag	107	163.337	8.2	60.668	0.00648	0.001	12.3	ug/L
	Ag	109	137.336	12.5	49.001	0.00601	0.001	18.1	ug/L
	Cd	111	247.841	3.1	302.744	-0.02151	0.001	5.8	ug/L
	Cd	114	69.267	22.5	257.978	-0.02888	0.002	7.3	ug/L
>	In	115	390006.317	1.6	368464.817				ug/L
	Sb	121	1169.762	15.7	54.001	0.11132	0.020	17.9	ug/L
	Sb	123	910.541	15.3	50.513	0.11232	0.020	17.7	ug/L
	Ba	135	47.667	8.7	123.002	-0.02806	0.002	5.8	ug/L
	Ba	137	66.001	9.9	192.338	-0.02738	0.001	4.4	ug/L
>	Tb	159	462290.831	1.4	460537.107				ug/L
>	Ho	165	453027.511	1.3	440378.521				ug/L
	Tl	203	78.668	8.7	83.668	-0.00086	0.001	105.6	ug/L
	Tl	205	159.670	10.3	163.337	-0.00043	0.001	222.4	ug/L
	Pb	208	461.343	4.4	1492.737	-0.03978	0.001	2.3	ug/L

Pb	206	125.336	2.8	397.348	-0.03972	0.001	1.4	ug/L
Pb	207	107.335	1.9	320.010	-0.03714	0.000	1.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.216			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.755			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.846			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.381			
>	Ho	165		102.872			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477A

Sample Date/Time: Friday, November 17, 2006 19:56:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477A.046

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	24596.163	1.6	84.001	16.47481	0.176	1.1	ug/L
	Al	27	240006.195	1.8	6946.222	22.06006	0.679	3.1	ug/L
>	Sc	45	518692.686	2.3	426236.083				ug/L
	V	51	406398.920	1.3	5344.504	19.26174	0.190	1.0	ug/L
	Cr	52	348360.856	1.8	18378.762	18.05836	0.180	1.0	ug/L
	Cr	53	41071.712	0.8	1484.814	17.43324	0.324	1.9	ug/L
	Mn	55	7176083.056	1.1	742.040	310.17205	4.071	1.3	ug/L
	Co	59	421655.209	0.8	848.388	22.48300	0.466	2.1	ug/L
	Ni	60	122350.183	3.4	167.670	28.81541	1.078	3.7	ug/L
	Ni	62	15689.580	0.8	209.338	24.82211	0.462	1.9	ug/L
	Cu	63	207355.309	1.1	570.693	21.03580	0.287	1.4	ug/L
	Cu	65	97135.208	1.4	318.010	20.46552	0.179	0.9	ug/L
	Zn	66	74671.290	2.7	2186.325	26.70932	0.362	1.4	ug/L
	Zn	67	14052.980	0.5	469.352	28.62079	0.548	1.9	ug/L
	Zn	68	58091.727	1.7	1708.532	28.77641	0.110	0.4	ug/L
>	Ge	72	247489.158	1.4	235019.833				ug/L
	As	75	67528.562	1.7	174.004	21.36307	0.076	0.4	ug/L
	Se	77	4605.673	2.2	271.738	18.38229	0.324	1.8	ug/L
	Se	78	32585.794	1.2	18294.754	17.86009	1.135	6.4	mg/L
	Se	82	6683.546	0.5	514.483	18.94331	0.323	1.7	ug/L
	Kr	83	564.358	7.0	509.687				mg/L
	Y	89	509996.014	1.7	424645.807				ug/L
	Mo	95	161524.682	2.6	130.336	24.72542	0.429	1.7	ug/L
	Mo	97	96990.507	1.1	59.667	24.59363	0.347	1.4	ug/L
	Mo	98	255467.479	2.2	73.129	25.00025	0.849	3.4	ug/L
	Rh	103	384322.599	0.2	377819.614				ug/L
	Ag	107	313969.476	1.1	60.668	20.12923	0.460	2.3	ug/L
	Ag	109	294230.827	0.5	49.001	20.31693	0.337	1.7	ug/L
	Cd	111	67064.475	2.6	302.744	19.37716	0.480	2.5	ug/L
	Cd	114	144577.391	1.6	257.978	20.03925	0.719	3.6	ug/L
>	In	115	397917.166	2.1	368464.817				ug/L
	Sb	121	207260.315	1.0	54.001	20.29757	0.628	3.1	ug/L
	Sb	123	156523.004	1.1	50.513	20.07137	0.346	1.7	ug/L
	Ba	135	229247.446	1.4	123.002	85.59202	0.750	0.9	ug/L
	Ba	137	394536.642	0.6	192.338	85.70131	1.005	1.2	ug/L
>	Tb	159	458211.390	0.8	460537.107				ug/L
>	Ho	165	448485.540	0.3	440378.521				ug/L
	Tl	203	174496.850	1.9	83.668	20.70293	0.345	1.7	ug/L
	Tl	205	410388.181	1.0	163.337	21.85292	0.179	0.8	ug/L
	Pb	208	561375.079	0.6	1492.737	20.94525	0.120	0.6	ug/L

Pb	206	145928.158	1.1	397.348	20.60247	0.271	1.3	ug/L
Pb	207	119722.761	0.7	320.010	20.18947	0.151	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		121.691			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.306			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.993			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.495			
>	Ho	165		101.841			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477L

Sample Date/Time: Friday, November 17, 2006 20:02:29
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\950477L.047

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	64.334	10.1	84.001	-0.01998	0.005	24.7	ug/L
	Al	27	96863.055	1.3	6946.222	9.59701	0.323	3.4	ug/L
>	Sc	45	460161.258	1.8	426236.083				ug/L
	V	51	6057.508	1.1	5344.504	0.01570	0.008	49.2	ug/L
	Cr	52	19719.837	1.2	18378.762	-0.00736	0.025	339.6	ug/L
	Cr	53	1315.117	2.3	1484.814	-0.14372	0.027	18.5	ug/L
	Mn	55	1180253.313	0.3	742.040	52.82038	1.947	3.7	ug/L
	Co	59	2514.071	1.7	848.388	0.09139	0.004	4.6	ug/L
	Ni	60	7363.993	2.0	167.670	1.75690	0.046	2.6	ug/L
	Ni	62	737.373	4.5	209.338	0.87069	0.018	2.1	ug/L
	Cu	63	1719.195	2.6	570.693	0.12011	0.009	7.9	ug/L
	Cu	65	1108.752	2.4	318.010	0.17215	0.014	7.9	ug/L
	Zn	66	6455.899	2.7	2186.325	1.61751	0.034	2.1	ug/L
	Zn	67	1311.783	1.0	469.352	1.82533	0.115	6.3	ug/L
	Zn	68	5774.391	1.2	1708.532	2.13862	0.120	5.6	ug/L
>	Ge	72	239101.131	3.8	235019.833				ug/L
	As	75	1543.492	1.9	174.004	0.44935	0.027	6.0	ug/L
	Se	77	281.271	3.1	271.738	0.02331	0.084	360.7	ug/L
	Se	78	17382.772	0.9	18294.754	-1.68743	0.732	43.4	mg/L
	Se	82	567.153	3.8	514.483	0.13960	0.007	5.2	ug/L
	Kr	83	510.354	4.6	509.687				mg/L
	Y	89	461769.298	3.9	424645.807				ug/L
	Mo	95	2132.961	4.1	130.336	0.31216	0.012	3.7	ug/L
	Mo	97	1343.455	3.7	59.667	0.33172	0.011	3.2	ug/L
	Mo	98	3326.859	2.8	73.129	0.32475	0.007	2.3	ug/L
	Rh	103	393847.770	2.2	377819.614				ug/L
	Ag	107	74.334	6.1	60.668	0.00067	0.000	49.6	ug/L
	Ag	109	58.667	15.8	49.001	0.00049	0.001	139.5	ug/L
	Cd	111	273.999	3.6	302.744	-0.01365	0.004	25.7	ug/L
	Cd	114	165.658	20.3	257.978	-0.01521	0.005	30.2	ug/L
>	In	115	389582.498	0.8	368464.817				ug/L
	Sb	121	533.356	7.6	54.001	0.04762	0.004	7.7	ug/L
	Sb	123	419.993	9.5	50.513	0.04800	0.005	10.1	ug/L
	Ba	135	34552.172	1.5	123.002	12.09585	0.160	1.3	ug/L
	Ba	137	59427.417	1.0	192.338	12.10714	0.181	1.5	ug/L
>	Tb	159	487118.373	0.8	460537.107				ug/L
>	Ho	165	456127.576	1.7	440378.521				ug/L
	Tl	203	140.336	3.2	83.668	0.00627	0.001	12.8	ug/L
	Tl	205	286.008	10.9	163.337	0.00612	0.002	27.2	ug/L
	Pb	208	2206.468	1.4	1492.737	0.02431	0.002	8.0	ug/L

Pb	206	585.693	3.0	397.348	0.02428	0.004	15.5	ug/L
Pb	207	475.685	5.5	320.010	0.02402	0.005	21.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		107.959			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.737			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.731			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		105.772			
>	Ho	165		103.576			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956 D.100

Sample Date/Time: Friday, November 17, 2006 20:08:27
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956 D.100.048

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	47.334	11.6	84.001	-0.03146	0.005	14.9	ug/L
	Al	27	5181.996	1.2	6946.222	-0.22721	0.018	8.1	ug/L
>	Sc	45	443196.168	1.9	426236.083				ug/L
	V	51	5223.602	3.6	5344.504	-0.01859	0.016	88.7	ug/L
	Cr	52	17981.226	0.8	18378.762	-0.07276	0.032	44.5	ug/L
	Cr	53	966.066	5.2	1484.814	-0.30038	0.017	5.6	ug/L
	Mn	55	1368415.022	1.8	742.040	61.55263	2.127	3.5	ug/L
	Co	59	2889.864	3.1	848.388	0.11294	0.003	2.6	ug/L
	Ni	60	646.365	3.0	167.670	0.11711	0.008	6.8	ug/L
	Ni	62	200.671	6.6	209.338	-0.01863	0.021	111.1	ug/L
	Cu	63	547.357	3.6	570.693	-0.00314	0.003	101.0	ug/L
	Cu	65	356.345	2.1	318.010	0.00764	0.003	35.1	ug/L
	Zn	66	1118.420	6.0	2186.325	-0.41969	0.034	8.2	ug/L
	Zn	67	256.673	4.9	469.352	-0.47895	0.036	7.5	ug/L
	Zn	68	866.054	2.9	1708.532	-0.45902	0.006	1.2	ug/L
>	Ge	72	237798.153	2.1	235019.833				ug/L
	As	75	7411.703	1.8	174.004	2.38916	0.037	1.5	ug/L
	Se	77	232.803	3.1	271.738	-0.18680	0.013	7.0	ug/L
	Se	78	16829.279	1.4	18294.754	-2.33720	0.659	28.2	mg/L
	Se	82	513.082	4.1	514.483	-0.02258	0.101	447.9	ug/L
	Kr	83	511.021	2.2	509.687				mg/L
	Y	89	453323.557	0.8	424645.807				ug/L
	Mo	95	1907.904	2.6	130.336	0.27155	0.006	2.1	ug/L
	Mo	97	1162.759	1.9	59.667	0.27951	0.007	2.5	ug/L
	Mo	98	2942.157	2.8	73.129	0.28101	0.008	2.9	ug/L
	Rh	103	386807.751	1.6	377819.614				ug/L
	Ag	107	63.668	14.6	60.668	-0.00010	0.001	625.7	ug/L
	Ag	109	55.667	25.6	49.001	0.00020	0.001	485.7	ug/L
	Cd	111	234.835	5.9	302.744	-0.02656	0.004	13.7	ug/L
	Cd	114	48.105	26.7	257.978	-0.03198	0.002	5.5	ug/L
>	In	115	396782.771	1.0	368464.817				ug/L
	Sb	121	248.340	3.3	54.001	0.01868	0.001	4.5	ug/L
	Sb	123	206.305	3.7	50.513	0.01955	0.001	6.3	ug/L
	Ba	135	700.370	4.7	123.002	0.20636	0.013	6.1	ug/L
	Ba	137	1227.103	1.5	192.338	0.21531	0.004	2.0	ug/L
>	Tb	159	475640.083	0.3	460537.107				ug/L
>	Ho	165	456865.534	1.5	440378.521				ug/L
	Tl	203	71.001	9.8	83.668	-0.00184	0.001	47.0	ug/L
	Tl	205	130.336	5.8	163.337	-0.00205	0.000	16.7	ug/L
	Pb	208	693.351	3.4	1492.737	-0.03140	0.001	4.0	ug/L

Pb	206	182.004	4.1	397.348	-0.03198	0.001	4.3	ug/L
Pb	207	152.336	4.4	320.010	-0.02981	0.001	5.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.979			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.182			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.685			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.279			
>	Ho	165		103.744			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956D D.100

Sample Date/Time: Friday, November 17, 2006 20:14:25
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956D D.100.049

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51.334	12.5	84.001	-0.02756	0.005	18.6	ug/L
	Al	27	5206.345	2.2	6946.222	-0.21321	0.023	10.6	ug/L
>	Sc	45	434767.092	1.9	426236.083				ug/L
	V	51	5201.409	4.3	5344.504	-0.01420	0.017	119.7	ug/L
	Cr	52	17578.029	0.8	18378.762	-0.07684	0.030	39.3	ug/L
	Cr	53	917.726	2.3	1484.814	-0.31607	0.002	0.7	ug/L
	Mn	55	1409099.803	0.8	742.040	64.84985	2.026	3.1	ug/L
	Co	59	2977.228	3.0	848.388	0.12188	0.012	9.5	ug/L
	Ni	60	688.035	2.2	167.670	0.13115	0.003	2.4	ug/L
	Ni	62	198.004	7.6	209.338	-0.01547	0.024	153.7	ug/L
	Cu	63	569.692	2.4	570.693	0.00064	0.004	550.4	ug/L
	Cu	65	319.676	5.2	318.010	0.00113	0.002	167.2	ug/L
	Zn	66	1133.422	4.4	2186.325	-0.40365	0.035	8.7	ug/L
	Zn	67	241.673	4.2	469.352	-0.49912	0.043	8.5	ug/L
	Zn	68	896.391	6.2	1708.532	-0.43137	0.038	8.8	ug/L
>	Ge	72	232512.613	3.9	235019.833				ug/L
	As	75	7707.976	3.3	174.004	2.54888	0.176	6.9	ug/L
	Se	77	232.737	2.0	271.738	-0.16217	0.055	33.7	ug/L
	Se	78	16668.054	0.5	18294.754	-2.01499	1.025	50.9	mg/L
	Se	82	501.348	1.6	514.483	-0.02310	0.079	341.1	ug/L
	Kr	83	496.686	2.7	509.687				mg/L
	Y	89	437850.527	0.6	424645.807				ug/L
	Mo	95	1933.244	3.9	130.336	0.28506	0.011	3.9	ug/L
	Mo	97	1231.770	3.0	59.667	0.30721	0.011	3.5	ug/L
	Mo	98	2982.060	3.2	73.129	0.29443	0.011	3.9	ug/L
	Rh	103	394926.591	2.7	377819.614				ug/L
	Ag	107	54.334	12.9	60.668	-0.00060	0.000	74.1	ug/L
	Ag	109	51.001	7.1	49.001	-0.00001	0.000	4215.9	ug/L
	Cd	111	212.255	9.9	302.744	-0.03114	0.006	19.2	ug/L
	Cd	114	51.302	37.3	257.978	-0.03130	0.003	8.8	ug/L
>	In	115	384346.738	0.7	368464.817				ug/L
	Sb	121	213.338	0.7	54.001	0.01592	0.000	0.9	ug/L
	Sb	123	171.733	5.5	50.513	0.01581	0.001	8.2	ug/L
	Ba	135	731.373	2.5	123.002	0.21624	0.006	2.6	ug/L
	Ba	137	1287.112	1.8	192.338	0.22662	0.005	2.4	ug/L
>	Tb	159	477874.754	0.4	460537.107				ug/L
>	Ho	165	446549.201	1.4	440378.521				ug/L
	Tl	203	66.001	37.0	83.668	-0.00227	0.003	123.8	ug/L
	Tl	205	152.670	11.3	163.337	-0.00070	0.001	118.1	ug/L
	Pb	208	388.341	3.1	1492.737	-0.04228	0.001	1.3	ug/L

Pb	206	100.002	6.1	397.348	-0.04306	0.001	2.4	ug/L
Pb	207	95.335	10.2	320.010	-0.03893	0.001	3.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		102.001			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.933			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.310			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.765			
>	Ho	165		101.401			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956S D.100

Sample Date/Time: Friday, November 17, 2006 20:20:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956S D.100.050

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	296.342	4.8	84.001	0.17133	0.014	8.2	ug/L
	Al	27	6472.578	0.9	6946.222	-0.06272	0.011	17.3	ug/L
>	Sc	45	430770.194	1.2	426236.083				ug/L
	V	51	8724.867	1.5	5344.504	0.19273	0.003	1.7	ug/L
	Cr	52	20108.772	1.9	18378.762	0.10228	0.010	9.5	ug/L
	Cr	53	1256.774	2.4	1484.814	-0.13036	0.011	8.4	ug/L
	Mn	55	1344429.740	0.9	742.040	64.20908	0.504	0.8	ug/L
	Co	59	6655.391	2.9	848.388	0.34535	0.012	3.4	ug/L
	Ni	60	1450.141	3.8	167.670	0.33641	0.014	4.2	ug/L
	Ni	62	327.343	8.2	209.338	0.22691	0.047	20.9	ug/L
	Cu	63	2472.391	1.6	570.693	0.21692	0.004	1.9	ug/L
	Cu	65	1210.767	4.7	318.010	0.21218	0.013	6.2	ug/L
	Zn	66	3671.179	1.8	2186.325	0.64823	0.026	4.0	ug/L
	Zn	67	651.365	3.0	469.352	0.47661	0.046	9.6	ug/L
	Zn	68	2725.806	1.7	1708.532	0.62073	0.028	4.5	ug/L
>	Ge	72	223869.748	0.1	235019.833				ug/L
	As	75	8146.395	1.8	174.004	2.79879	0.052	1.8	ug/L
	Se	77	270.471	0.3	271.738	0.05470	0.005	9.1	ug/L
	Se	78	17141.363	1.0	18294.754	-0.42285	0.240	56.8	mg/L
	Se	82	570.953	1.1	514.483	0.27575	0.022	8.0	ug/L
	Kr	83	485.352	4.9	509.687				mg/L
	Y	89	438674.450	2.8	424645.807				ug/L
	Mo	95	3162.298	2.5	130.336	0.47247	0.011	2.4	ug/L
	Mo	97	1911.572	4.3	59.667	0.47824	0.023	4.8	ug/L
	Mo	98	4875.306	1.3	73.129	0.47875	0.004	0.9	ug/L
	Rh	103	377987.898	3.7	377819.614				ug/L
	Ag	107	3356.044	4.7	60.668	0.21523	0.011	5.3	ug/L
	Ag	109	3094.939	2.3	49.001	0.21428	0.006	2.6	ug/L
	Cd	111	937.484	5.0	302.744	0.18260	0.013	7.0	ug/L
	Cd	114	1523.155	2.6	257.978	0.17694	0.006	3.5	ug/L
>	In	115	390207.343	0.5	368464.817				ug/L
	Sb	121	2170.304	0.3	54.001	0.21100	0.001	0.6	ug/L
	Sb	123	1694.089	2.9	50.513	0.21459	0.008	3.5	ug/L
	Ba	135	1317.784	3.4	123.002	0.42812	0.012	2.9	ug/L
	Ba	137	2340.686	3.6	192.338	0.44795	0.009	2.1	ug/L
>	Tb	159	476096.727	2.9	460537.107				ug/L
>	Ho	165	451366.333	0.2	440378.521				ug/L
	Tl	203	1932.243	3.1	83.668	0.21778	0.007	3.0	ug/L
	Tl	205	4484.585	1.5	163.337	0.22852	0.004	1.7	ug/L
	Pb	208	6143.619	1.2	1492.737	0.17150	0.003	1.5	ug/L

Pb	206	1544.492	0.8	397.348	0.15997	0.001	0.9	ug/L
Pb	207	1329.453	3.4	320.010	0.16825	0.007	4.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.064			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.256			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.901			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.379			
>	Ho	165		102.495			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956A D.100

Sample Date/Time: Friday, November 17, 2006 20:26:22
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956A D.100.051

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	25703.171	1.1	84.001	20.34016	0.143	0.7	ug/L
	Al	27	207375.611	1.4	6946.222	22.51803	0.692	3.1	ug/L
>	Sc	45	439361.632	1.7	426236.083				ug/L
	V	51	360958.600	1.6	5344.504	20.21269	0.424	2.1	ug/L
	Cr	52	321037.708	1.1	18378.762	19.75959	0.525	2.7	ug/L
	Cr	53	37826.393	2.2	1484.814	19.02040	0.318	1.7	ug/L
	Mn	55	1703015.247	1.1	742.040	79.52835	2.119	2.7	ug/L
	Co	59	366397.254	0.9	848.388	21.10865	0.522	2.5	ug/L
	Ni	60	80498.422	1.0	167.670	20.47240	0.208	1.0	ug/L
	Ni	62	12044.152	1.4	209.338	20.52716	0.236	1.1	ug/L
	Cu	63	189713.977	3.0	570.693	20.79457	0.582	2.8	ug/L
	Cu	65	89972.708	1.2	318.010	20.48838	0.554	2.7	ug/L
	Zn	66	51797.012	1.3	2186.325	19.81258	0.428	2.2	ug/L
	Zn	67	8678.279	5.5	469.352	18.75145	1.142	6.1	ug/L
	Zn	68	37094.421	1.2	1708.532	19.57602	0.535	2.7	ug/L
>	Ge	72	229048.366	1.8	235019.833				ug/L
	As	75	64540.290	1.0	174.004	22.06808	0.391	1.8	ug/L
	Se	77	4752.355	1.3	271.738	20.64232	0.637	3.1	ug/L
	Se	78	30785.411	0.9	18294.754	18.77315	1.221	6.5	mg/L
	Se	82	6757.539	1.6	514.483	20.84836	0.298	1.4	ug/L
	Kr	83	483.019	3.6	509.687				mg/L
	Y	89	439186.364	0.4	424645.807				ug/L
	Mo	95	127237.343	1.1	130.336	20.19602	0.048	0.2	ug/L
	Mo	97	79675.327	2.2	59.667	20.95066	0.602	2.9	ug/L
	Mo	98	207182.295	0.7	73.129	21.02228	0.415	2.0	ug/L
	Rh	103	369196.227	1.0	377819.614				ug/L
	Ag	107	307480.466	1.8	60.668	20.43857	0.114	0.6	ug/L
	Ag	109	288776.230	3.0	49.001	20.67337	0.374	1.8	ug/L
	Cd	111	67407.193	2.3	302.744	20.20137	0.425	2.1	ug/L
	Cd	114	149547.695	2.6	257.978	21.49480	0.732	3.4	ug/L
>	In	115	383671.935	1.3	368464.817				ug/L
	Sb	121	203066.776	2.6	54.001	20.62171	0.727	3.5	ug/L
	Sb	123	150338.006	0.7	50.513	19.99101	0.137	0.7	ug/L
	Ba	135	56838.857	2.9	123.002	20.96997	0.423	2.0	ug/L
	Ba	137	96431.861	2.1	192.338	20.70080	0.248	1.2	ug/L
>	Tb	159	462894.741	0.9	460537.107				ug/L
>	Ho	165	443341.035	2.8	440378.521				ug/L
	Tl	203	172691.248	1.4	83.668	20.73326	0.347	1.7	ug/L
	Tl	205	414240.096	0.3	163.337	22.32608	0.623	2.8	ug/L
	Pb	208	560956.091	1.4	1492.737	21.18731	0.787	3.7	ug/L

Pb	206	145633.892	1.7	397.348	20.81138	0.713	3.4	ug/L
Pb	207	119585.823	0.8	320.010	20.41073	0.541	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.079			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.459			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.127			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.512			
>	Ho	165		100.673			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956L D.100

Sample Date/Time: Friday, November 17, 2006 20:32:20
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956L D.100.052

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	52.001	8.8	84.001	-0.02618	0.004	13.5	ug/L
	Al	27	4509.932	2.0	6946.222	-0.28212	0.004	1.5	ug/L
>	Sc	45	426038.485	1.5	426236.083				ug/L
	V	51	4808.427	4.1	5344.504	-0.03136	0.008	24.1	ug/L
	Cr	52	16437.695	1.2	18378.762	-0.13025	0.012	9.0	ug/L
	Cr	53	873.054	2.8	1484.814	-0.33008	0.018	5.5	ug/L
	Mn	55	264029.628	1.8	742.040	12.51038	0.161	1.3	ug/L
	Co	59	720.705	4.0	848.388	-0.00540	0.002	36.7	ug/L
	Ni	60	241.339	4.6	167.670	0.02094	0.003	16.3	ug/L
	Ni	62	160.670	7.8	209.338	-0.07036	0.021	30.5	ug/L
	Cu	63	516.688	5.7	570.693	-0.00337	0.003	85.7	ug/L
	Cu	65	320.676	2.1	318.010	0.00373	0.002	51.6	ug/L
	Zn	66	790.712	2.4	2186.325	-0.52897	0.010	1.8	ug/L
	Zn	67	215.338	3.5	469.352	-0.54346	0.022	4.0	ug/L
	Zn	68	634.697	3.3	1708.532	-0.56303	0.015	2.6	ug/L
>	Ge	72	225154.831	0.8	235019.833				ug/L
	As	75	1520.487	4.6	174.004	0.47198	0.021	4.5	ug/L
	Se	77	229.070	5.5	271.738	-0.14626	0.058	39.6	ug/L
	Se	78	16447.737	0.4	18294.754	-1.58854	0.191	12.0	mg/L
	Se	82	493.815	3.1	514.483	0.00320	0.053	1647.9	ug/L
	Kr	83	481.685	4.0	509.687				mg/L
	Y	89	430276.562	1.8	424645.807				ug/L
	Mo	95	779.711	14.0	130.336	0.10070	0.018	17.5	ug/L
	Mo	97	435.349	12.2	59.667	0.09669	0.014	14.8	ug/L
	Mo	98	1118.176	8.4	73.129	0.10426	0.010	9.6	ug/L
	Rh	103	367064.312	1.7	377819.614				ug/L
	Ag	107	75.001	23.1	60.668	0.00072	0.001	155.7	ug/L
	Ag	109	69.668	13.3	49.001	0.00127	0.001	49.7	ug/L
	Cd	111	247.574	17.2	302.744	-0.02138	0.013	59.4	ug/L
	Cd	114	37.895	9.7	257.978	-0.03328	0.001	1.8	ug/L
>	In	115	388933.939	1.6	368464.817				ug/L
	Sb	121	554.691	11.6	54.001	0.04985	0.006	12.8	ug/L
	Sb	123	416.496	10.9	50.513	0.04764	0.006	12.1	ug/L
	Ba	135	164.003	3.4	123.002	0.01526	0.002	12.2	ug/L
	Ba	137	285.674	6.4	192.338	0.02023	0.004	21.4	ug/L
>	Tb	159	460339.453	0.9	460537.107				ug/L
>	Ho	165	449664.650	1.0	440378.521				ug/L
	Tl	203	78.668	2.9	83.668	-0.00080	0.000	38.1	ug/L
	Tl	205	116.002	6.0	163.337	-0.00270	0.000	14.7	ug/L
	Pb	208	407.341	3.0	1492.737	-0.04168	0.000	0.8	ug/L

Pb	206	107.002	5.2	397.348	-0.04218	0.001	2.1	ug/L
Pb	207	90.335	16.0	320.010	-0.03988	0.002	5.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.954			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.802			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.555			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.957			
>	Ho	165		102.109			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948957 D.100

Sample Date/Time: Friday, November 17, 2006 20:38:19
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948957 D.100.053

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	49.001	5.4	84.001	-0.02971	0.002	6.7	ug/L
	Al	27	3908.622	1.4	6946.222	-0.36390	0.011	2.9	ug/L
>	Sc	45	437861.657	2.7	426236.083				ug/L
	V	51	4757.848	2.0	5344.504	-0.04175	0.003	7.0	ug/L
	Cr	52	16241.644	1.7	18378.762	-0.17292	0.011	6.4	ug/L
	Cr	53	853.386	1.3	1484.814	-0.35309	0.014	3.8	ug/L
	Mn	55	1409798.352	0.7	742.040	66.90499	1.059	1.6	ug/L
	Co	59	3081.267	3.2	848.388	0.13313	0.008	5.8	ug/L
	Ni	60	688.702	4.9	167.670	0.13671	0.007	5.1	ug/L
	Ni	62	210.671	8.8	209.338	0.01748	0.031	177.0	ug/L
	Cu	63	1054.411	1.7	570.693	0.05669	0.002	3.6	ug/L
	Cu	65	535.023	2.6	318.010	0.05343	0.002	3.6	ug/L
	Zn	66	837.717	6.1	2186.325	-0.51020	0.020	3.9	ug/L
	Zn	67	228.339	3.4	469.352	-0.51379	0.018	3.5	ug/L
	Zn	68	697.036	3.0	1708.532	-0.52826	0.016	3.0	ug/L
>	Ge	72	225325.444	1.1	235019.833				ug/L
	As	75	6669.736	2.2	174.004	2.26630	0.074	3.2	ug/L
	Se	77	223.403	1.2	271.738	-0.17345	0.018	10.2	ug/L
	Se	78	16357.923	0.8	18294.754	-1.73712	0.422	24.3	mg/L
	Se	82	481.614	1.4	514.483	-0.03943	0.018	46.6	ug/L
	Kr	83	480.685	0.7	509.687				mg/L
	Y	89	430237.533	1.7	424645.807				ug/L
	Mo	95	2006.595	0.6	130.336	0.29665	0.000	0.0	ug/L
	Mo	97	1192.431	0.8	59.667	0.29680	0.004	1.4	ug/L
	Mo	98	3196.515	4.1	73.129	0.31610	0.015	4.8	ug/L
	Rh	103	371339.379	1.3	377819.614				ug/L
	Ag	107	65.001	15.4	60.668	0.00012	0.001	594.8	ug/L
	Ag	109	49.001	19.5	49.001	-0.00015	0.001	468.0	ug/L
	Cd	111	223.088	2.9	302.744	-0.02787	0.002	7.5	ug/L
	Cd	114	56.704	11.0	257.978	-0.03052	0.001	3.0	ug/L
>	In	115	384425.736	0.6	368464.817				ug/L
	Sb	121	279.341	4.8	54.001	0.02261	0.001	6.6	ug/L
	Sb	123	210.735	5.5	50.513	0.02097	0.001	6.5	ug/L
	Ba	135	754.709	7.1	123.002	0.23203	0.019	8.3	ug/L
	Ba	137	1218.768	1.4	192.338	0.21935	0.004	1.8	ug/L
>	Tb	159	465093.322	0.4	460537.107				ug/L
>	Ho	165	448484.388	0.6	440378.521				ug/L
	Tl	203	73.668	14.6	83.668	-0.00137	0.001	89.3	ug/L
	Tl	205	155.670	3.8	163.337	-0.00057	0.000	49.4	ug/L
	Pb	208	321.339	0.8	1492.737	-0.04485	0.000	0.4	ug/L

Pb	206	84.001	13.7	397.348	-0.04540	0.002	3.6	ug/L
Pb	207	77.668	7.3	320.010	-0.04198	0.001	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		102.727			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.875			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.332			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.989			
>	Ho	165		101.841			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948958

Sample Date/Time: Friday, November 17, 2006 20:44:18
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948958.054

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	47.334	12.4	84.001	-0.03427	0.004	11.6	ug/L
	Al	27	28161.800	2.1	6946.222	2.10149	0.042	2.0	ug/L
>	Sc	45	478607.641	1.1	426236.083				ug/L
	V	51	6093.576	6.5	5344.504	0.00496	0.023	468.3	ug/L
	Cr	52	26714.693	1.6	18378.762	0.36515	0.043	11.7	ug/L
	Cr	53	1667.850	1.8	1484.814	0.00032	0.014	4525.3	ug/L
	Mn	55	25394.898	1.9	742.040	1.07667	0.025	2.3	ug/L
	Co	59	631.697	10.4	848.388	-0.01360	0.003	24.9	ug/L
	Ni	60	1403.799	0.6	167.670	0.29326	0.004	1.3	ug/L
	Ni	62	324.676	8.3	209.338	0.17337	0.045	26.1	ug/L
	Cu	63	5780.063	2.6	570.693	0.53369	0.014	2.7	ug/L
	Cu	65	2742.145	1.3	318.010	0.51565	0.007	1.3	ug/L
	Zn	66	8841.444	1.5	2186.325	2.45179	0.073	3.0	ug/L
	Zn	67	1508.485	3.3	469.352	2.17684	0.074	3.4	ug/L
	Zn	68	6508.606	1.7	1708.532	2.44600	0.048	2.0	ug/L
>	Ge	72	244661.584	1.0	235019.833				ug/L
	As	75	806.047	2.2	174.004	0.20058	0.008	4.1	ug/L
	Se	77	268.871	1.7	271.738	-0.06035	0.014	23.1	ug/L
	Se	78	18767.088	2.8	18294.754	-0.37736	0.646	171.2	mg/L
	Se	82	517.549	2.3	514.483	-0.05639	0.023	40.1	ug/L
	Kr	83	522.688	3.8	509.687				mg/L
	Y	89	492780.336	3.4	424645.807				ug/L
	Mo	95	472.352	11.6	130.336	0.04690	0.010	20.5	ug/L
	Mo	97	267.340	13.3	59.667	0.04780	0.010	20.2	ug/L
	Mo	98	640.605	18.4	73.129	0.05165	0.012	24.2	ug/L
	Rh	103	418211.734	1.3	377819.614				ug/L
	Ag	107	353.344	6.6	60.668	0.01717	0.001	5.1	ug/L
	Ag	109	315.342	4.0	49.001	0.01691	0.001	6.4	ug/L
	Cd	111	311.632	10.5	302.744	-0.00963	0.007	68.7	ug/L
	Cd	114	58.443	67.5	257.978	-0.03109	0.005	15.9	ug/L
>	In	115	421512.295	2.8	368464.817				ug/L
	Sb	121	364.012	7.9	54.001	0.02800	0.004	12.8	ug/L
	Sb	123	267.118	16.0	50.513	0.02535	0.005	20.0	ug/L
	Ba	135	1674.852	3.5	123.002	0.53759	0.030	5.6	ug/L
	Ba	137	2997.236	1.3	192.338	0.56545	0.015	2.6	ug/L
>	Tb	159	491771.349	1.8	460537.107				ug/L
>	Ho	165	479061.303	2.3	440378.521				ug/L
	Tl	203	48.667	16.7	83.668	-0.00471	0.001	18.8	ug/L
	Tl	205	60.001	18.6	163.337	-0.00587	0.001	9.2	ug/L
	Pb	208	2553.843	3.7	1492.737	0.03255	0.001	4.2	ug/L

Pb	206	678.368	3.6	397.348	0.03260	0.001	3.8	ug/L
Pb	207	558.358	4.3	320.010	0.03329	0.004	11.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		112.287			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		104.103			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		114.397			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		106.782			
>	Ho	165		108.784			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, November 17, 2006 20:50:16
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 3.055

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1328.119	2.2	84.001	1.00763	0.014	1.3	ug/L
	Al	27	108756.851	0.7	6946.222	11.67934	0.239	2.0	ug/L
>	Sc	45	430408.188	1.6	426236.083				ug/L
	V	51	22932.457	1.3	5344.504	1.01809	0.036	3.5	ug/L
	Cr	52	32427.301	1.4	18378.762	0.92618	0.051	5.5	ug/L
	Cr	53	2718.137	1.4	1484.814	0.65231	0.038	5.9	ug/L
	Mn	55	22353.501	1.4	742.040	1.05896	0.016	1.5	ug/L
	Co	59	18692.463	1.2	848.388	1.08179	0.025	2.3	ug/L
	Ni	60	4218.777	2.8	167.670	1.08375	0.042	3.9	ug/L
	Ni	62	747.041	1.8	209.338	1.00201	0.039	3.9	ug/L
	Cu	63	9443.444	2.6	570.693	1.02532	0.025	2.4	ug/L
	Cu	65	4747.733	2.0	318.010	1.06430	0.015	1.4	ug/L
	Zn	66	15276.479	1.8	2186.325	5.52678	0.059	1.1	ug/L
	Zn	67	2475.059	3.1	469.352	4.86506	0.207	4.3	ug/L
	Zn	68	11157.577	1.6	1708.532	5.53156	0.151	2.7	ug/L
>	Ge	72	218842.642	1.0	235019.833				ug/L
	As	75	3065.928	1.6	174.004	1.04190	0.024	2.3	ug/L
	Se	77	433.078	2.7	271.738	0.86646	0.049	5.7	ug/L
	Se	78	16937.336	0.6	18294.754	-0.14734	0.249	168.8	mg/L
	Se	82	781.970	1.1	514.483	1.05653	0.037	3.5	ug/L
	Kr	83	505.354	0.8	509.687				mg/L
	Y	89	421327.462	1.9	424645.807				ug/L
	Mo	95	6094.622	1.0	130.336	0.95039	0.023	2.5	ug/L
	Mo	97	3897.617	3.0	59.667	1.01304	0.042	4.1	ug/L
	Mo	98	9821.832	3.0	73.129	0.99246	0.023	2.3	ug/L
	Rh	103	387572.407	3.1	377819.614				ug/L
	Ag	107	16404.294	0.3	60.668	1.09062	0.031	2.9	ug/L
	Ag	109	14878.086	0.8	49.001	1.06573	0.027	2.5	ug/L
	Cd	111	3822.540	0.9	302.744	1.06048	0.039	3.7	ug/L
	Cd	114	7618.229	3.3	257.978	1.06257	0.060	5.6	ug/L
>	In	115	382408.277	2.5	368464.817				ug/L
	Sb	121	10375.228	2.4	54.001	1.05202	0.043	4.1	ug/L
	Sb	123	7558.012	1.4	50.513	1.00185	0.014	1.4	ug/L
	Ba	135	2913.872	0.9	123.002	0.99590	0.016	1.6	ug/L
	Ba	137	5136.968	2.1	192.338	1.02660	0.023	2.2	ug/L
>	Tb	159	478909.621	1.6	460537.107				ug/L
>	Ho	165	451569.434	0.9	440378.521				ug/L
	Tl	203	9169.801	0.4	83.668	1.07099	0.007	0.7	ug/L
	Tl	205	21917.359	3.4	163.337	1.15074	0.039	3.4	ug/L
	Pb	208	29742.012	1.0	1492.737	1.04833	0.018	1.8	ug/L

Pb	206	7592.867	0.8	397.348	1.01040	0.017	1.6	ug/L
Pb	207	6462.237	1.9	320.010	1.03029	0.027	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.763				
	Al	27	116.793				
>	Sc	45		100.979			
	V	51	101.809				
	Cr	52	92.618				
	Cr	53	65.231				
	Mn	55	105.896				
	Co	59	108.179				
	Ni	60	108.375				
	Ni	62	100.201				
	Cu	63	102.532				
	Cu	65	106.430				
	Zn	66	110.536				
	Zn	67	97.301				
	Zn	68	110.631				
>	Ge	72		93.117			
	As	75	104.190				
	Se	77	86.646				
	Se	78	-14.734				
	Se	82	105.653				
	Kr	83					
	Y	89					
	Mo	95	95.039				
	Mo	97	101.304				
	Mo	98	99.246				
	Rh	103					
	Ag	107	109.062				
	Ag	109	106.573				
	Cd	111	106.048				
	Cd	114	106.257				
>	In	115		103.784			
	Sb	121	105.202				
	Sb	123	100.185				
	Ba	135	99.590				
	Ba	137	102.660				
>	Tb	159		103.989			
>	Ho	165		102.541			
	Tl	203	107.099				
	Tl	205	115.074				
	Pb	208	104.833				
	Pb	206	101.040				
	Pb	207	103.029				

Elan 9000 Method 6020 - Summary Report

Sample ID: HLCCV2

Sample Date/Time: Friday, November 17, 2006 20:56:13
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\HLCCV2.056

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	249696.127	1.2	84.001	212.88160	5.461	2.6	ug/L
	Al	27	1801782.314	1.6	6946.222	216.79099	5.933	2.7	ug/L
>	Sc	45	409126.348	1.4	426236.083				ug/L
	V	51	3898350.703	0.6	5344.504	237.75074	4.513	1.9	ug/L
	Cr	52	3190629.652	2.4	18378.762	222.79883	2.581	1.2	ug/L
	Cr	53	345157.453	1.0	1484.814	193.44519	1.622	0.8	ug/L
	Mn	55	4390524.039	1.0	742.040	223.02985	2.925	1.3	ug/L
	Co	59	3871807.364	1.2	848.388	243.06582	1.765	0.7	ug/L
	Ni	60	745603.115	4.1	167.670	206.65478	9.471	4.6	ug/L
	Ni	62	109724.414	0.6	209.338	206.55963	1.770	0.9	ug/L
	Cu	63	1651501.057	1.2	570.693	197.42727	3.398	1.7	ug/L
	Cu	65	797793.341	2.1	318.010	198.16793	3.832	1.9	ug/L
	Zn	66	469169.533	2.1	2186.325	202.68362	3.203	1.6	ug/L
	Zn	67	83291.469	2.2	469.352	205.58347	5.256	2.6	ug/L
	Zn	68	334894.067	1.3	1708.532	200.30730	3.010	1.5	ug/L
>	Ge	72	210565.894	0.6	235019.833				ug/L
	As	75	549083.931	3.3	174.004	204.68712	7.351	3.6	ug/L
	Se	77	42816.203	1.8	271.738	212.96502	5.142	2.4	ug/L
	Se	78	150906.338	2.0	18294.754	211.86915	5.113	2.4	mg/L
	Se	82	59400.383	1.5	514.483	213.65108	4.355	2.0	ug/L
	Kr	83	477.685	1.2	509.687				mg/L
	Y	89	399519.436	2.8	424645.807				ug/L
	Mo	95	1150910.247	0.6	130.336	192.51866	4.694	2.4	ug/L
	Mo	97	708759.993	1.6	59.667	196.28827	3.049	1.6	ug/L
	Mo	98	1819789.621	0.9	73.129	194.48027	6.840	3.5	ug/L
	Rh	103	353536.755	1.9	377819.614				ug/L
	Ag	107	3378577.749	0.6	60.668	236.56397	8.657	3.7	ug/L
	Ag	109	3174044.748	2.0	49.001	239.42736	11.930	5.0	ug/L
	Cd	111	631345.862	2.8	302.744	199.97410	2.833	1.4	ug/L
	Cd	114	1317846.772	0.8	257.978	199.70498	4.883	2.4	ug/L
>	In	115	364585.728	3.0	368464.817				ug/L
	Sb	121	1808118.526	0.1	54.001	193.35198	6.122	3.2	ug/L
	Sb	123	1413208.005	0.2	50.513	197.92613	5.852	3.0	ug/L
	Ba	135	513499.032	0.2	123.002	200.04953	3.194	1.6	ug/L
	Ba	137	878358.895	2.1	192.338	199.03156	2.556	1.3	ug/L
>	Tb	159	439344.228	1.5	460537.107				ug/L
>	Ho	165	423554.171	2.8	440378.521				ug/L
	Tl	203	1542827.339	2.7	83.668	193.92199	2.267	1.2	ug/L
	Tl	205	4570134.895	1.0	163.337	257.88363	5.935	2.3	ug/L
	Pb	208	5745415.970	0.7	1492.737	227.64228	5.451	2.4	ug/L

Pb	206	1331036.195	1.8	397.348	199.51328	2.629	1.3	ug/L
Pb	207	1122950.155	1.9	320.010	201.04257	1.911	1.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		95.986			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		89.595			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.947			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.398			
>	Ho	165		96.180			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, November 17, 2006 21:02:12
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 6.057

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59523.756	0.3	84.001	49.53091	0.483	1.0	ug/L
	Al	27	498549.244	1.4	6946.222	58.02549	1.187	2.0	ug/L
>	Sc	45	418653.862	0.9	426236.083				ug/L
	V	51	830044.507	1.1	5344.504	49.21456	0.452	0.9	ug/L
	Cr	52	726335.941	1.1	18378.762	48.60781	0.635	1.3	ug/L
	Cr	53	84602.581	2.1	1484.814	45.72144	0.591	1.3	ug/L
	Mn	55	1007089.571	1.5	742.040	49.82483	0.837	1.7	ug/L
	Co	59	829192.528	0.5	848.388	50.70243	1.422	2.8	ug/L
	Ni	60	187577.549	0.7	167.670	50.64132	1.727	3.4	ug/L
	Ni	62	28290.330	5.8	209.338	51.59713	2.014	3.9	ug/L
	Cu	63	431832.286	0.6	570.693	50.27348	1.648	3.3	ug/L
	Cu	65	213098.808	0.8	318.010	51.54770	1.724	3.3	ug/L
	Zn	66	119552.060	2.7	2186.325	49.68134	0.500	1.0	ug/L
	Zn	67	20617.347	0.8	469.352	48.81450	1.786	3.7	ug/L
	Zn	68	87939.491	1.3	1708.532	50.58414	1.644	3.2	ug/L
>	Ge	72	216140.335	2.8	235019.833				ug/L
	As	75	133136.013	2.0	174.004	48.33636	2.009	4.2	ug/L
	Se	77	10694.793	1.8	271.738	50.90658	0.521	1.0	ug/L
	Se	78	50547.917	1.1	18294.754	51.77288	1.682	3.2	mg/L
	Se	82	14943.053	0.4	514.483	51.12037	1.328	2.6	ug/L
	Kr	83	488.019	1.2	509.687				mg/L
	Y	89	419344.902	2.5	424645.807				ug/L
	Mo	95	284807.010	1.2	130.336	47.92113	1.417	3.0	ug/L
	Mo	97	187757.275	1.9	59.667	52.31403	1.436	2.7	ug/L
	Mo	98	461606.533	4.4	73.129	49.61736	2.382	4.8	ug/L
	Rh	103	370505.962	1.4	377819.614				ug/L
	Ag	107	716554.212	3.4	60.668	50.46878	2.193	4.3	ug/L
	Ag	109	664953.075	0.7	49.001	50.44073	1.260	2.5	ug/L
	Cd	111	161796.769	1.4	302.744	51.51238	1.436	2.8	ug/L
	Cd	114	345509.058	2.1	257.978	52.64722	1.388	2.6	ug/L
>	In	115	362281.318	1.8	368464.817				ug/L
	Sb	121	472120.069	1.4	54.001	50.78061	1.103	2.2	ug/L
	Sb	123	354899.756	0.7	50.513	49.99758	1.007	2.0	ug/L
	Ba	135	131202.099	0.6	123.002	48.37895	0.224	0.5	ug/L
	Ba	137	226622.440	1.4	192.338	48.61625	0.726	1.5	ug/L
>	Tb	159	463778.951	0.7	460537.107				ug/L
>	Ho	165	434039.265	0.5	440378.521				ug/L
	Tl	203	409408.875	1.7	83.668	50.20445	0.599	1.2	ug/L
	Tl	205	949365.542	2.9	163.337	52.25394	1.754	3.4	ug/L
	Pb	208	1310954.193	1.6	1492.737	50.62442	1.056	2.1	ug/L

Pb	206	336595.088	1.5	397.348	49.18444	0.966	2.0	ug/L
Pb	207	287230.280	0.9	320.010	50.13081	0.412	0.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	99.062				
	Al	27	116.051				
>	Sc	45		98.221			
	V	51	98.429				
	Cr	52	97.216				
	Cr	53	91.443				
	Mn	55	99.650				
	Co	59	101.405				
	Ni	60	101.283				
	Ni	62	103.194				
	Cu	63	100.547				
	Cu	65	103.095				
	Zn	66	99.363				
	Zn	67	97.629				
	Zn	68	101.168				
>	Ge	72		91.967			
	As	75	96.673				
	Se	77	101.813				
	Se	78	103.546				
	Se	82	102.241				
	Kr	83					
	Y	89					
	Mo	95	95.842				
	Mo	97	104.628				
	Mo	98	99.235				
	Rh	103					
	Ag	107	100.938				
	Ag	109	100.881				
	Cd	111	103.025				
	Cd	114	105.294				
>	In	115		98.322			
	Sb	121	101.561				
	Sb	123	99.995				
	Ba	135	96.758				
	Ba	137	97.233				
>	Tb	159		100.704			
>	Ho	165		98.560			
	Tl	203	100.409				
	Tl	205	104.508				
	Pb	208	101.249				
	Pb	206	98.369				
	Pb	207	100.262				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, November 17, 2006 21:08:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 7.058

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	53.001	13.6	84.001	-0.02593	0.005	19.6	ug/L
	Al	27	3947.308	2.5	6946.222	-0.35281	0.004	1.0	ug/L
>	Sc	45	431164.956	1.9	426236.083				ug/L
	V	51	4916.277	2.9	5344.504	-0.02828	0.011	40.6	ug/L
	Cr	52	16394.282	2.7	18378.762	-0.14602	0.041	28.2	ug/L
	Cr	53	804.380	4.4	1484.814	-0.37264	0.011	2.9	ug/L
	Mn	55	511.354	2.3	742.040	-0.00847	0.000	4.6	ug/L
	Co	59	268.340	7.5	848.388	-0.03133	0.001	3.2	ug/L
	Ni	60	138.669	6.0	167.670	-0.00419	0.002	59.0	ug/L
	Ni	62	141.003	3.9	209.338	-0.09463	0.012	12.4	ug/L
	Cu	63	241.673	2.4	570.693	-0.03299	0.001	2.2	ug/L
	Cu	65	188.004	4.8	318.010	-0.02528	0.003	10.0	ug/L
	Zn	66	1411.134	4.7	2186.325	-0.25361	0.023	9.1	ug/L
	Zn	67	293.675	5.4	469.352	-0.33339	0.042	12.5	ug/L
	Zn	68	1040.075	3.7	1708.532	-0.31085	0.028	9.1	ug/L
>	Ge	72	216176.867	1.4	235019.833				ug/L
	As	75	160.003	6.9	174.004	-0.00005	0.003	6706.1	ug/L
	Se	77	234.870	1.9	271.738	-0.07332	0.027	36.9	ug/L
	Se	78	16011.631	1.0	18294.754	-1.24857	0.469	37.5	mg/L
	Se	82	497.215	1.9	514.483	0.08472	0.028	33.3	ug/L
	Kr	83	490.019	2.7	509.687				mg/L
	Y	89	418742.204	1.9	424645.807				ug/L
	Mo	95	1280.781	21.0	130.336	0.19264	0.044	22.8	ug/L
	Mo	97	740.708	16.2	59.667	0.18880	0.032	17.2	ug/L
	Mo	98	1903.928	24.5	73.129	0.19565	0.049	25.0	ug/L
	Rh	103	367701.149	0.4	377819.614				ug/L
	Ag	107	186.671	13.4	60.668	0.00886	0.002	19.1	ug/L
	Ag	109	150.003	15.8	49.001	0.00766	0.002	23.4	ug/L
	Cd	111	260.397	3.1	302.744	-0.01233	0.004	32.7	ug/L
	Cd	114	71.229	21.4	257.978	-0.02787	0.002	8.2	ug/L
>	In	115	364433.280	1.8	368464.817				ug/L
	Sb	121	1662.519	18.2	54.001	0.17205	0.032	18.6	ug/L
	Sb	123	1198.793	14.8	50.513	0.16088	0.024	15.2	ug/L
	Ba	135	47.001	2.1	123.002	-0.02823	0.000	1.6	ug/L
	Ba	137	63.001	11.1	192.338	-0.02794	0.002	5.6	ug/L
>	Tb	159	459981.643	0.4	460537.107				ug/L
>	Ho	165	441184.474	1.4	440378.521				ug/L
	Tl	203	84.335	7.5	83.668	0.00007	0.001	1257.5	ug/L
	Tl	205	175.337	16.0	163.337	0.00062	0.001	226.2	ug/L
	Pb	208	499.677	7.5	1492.737	-0.03788	0.001	3.1	ug/L

Pb	206	135.002	8.5	397.348	-0.03787	0.001	3.8	ug/L
Pb	207	115.002	5.4	320.010	-0.03534	0.001	2.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.156			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		91.982			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.906			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.879			
>	Ho	165		100.183			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956

Sample Date/Time: Friday, November 17, 2006 21:14:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956.059

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	72.001	16.9	84.001	-0.02150	0.008	35.9	ug/L
	Al	27	21426.743	3.2	6946.222	1.18784	0.079	6.6	ug/L
>	Sc	45	531239.051	1.2	426236.083				ug/L
	V	51	8049.874	3.5	5344.504	0.06544	0.017	26.5	ug/L
	Cr	52	25633.310	3.0	18378.762	0.14786	0.055	37.4	ug/L
	Cr	53	2845.220	34.7	1484.814	0.43254	0.436	100.7	ug/L
	Mn	55	142189328.102	0.7	742.040	6589.19903	162.228	2.5	ug/L
	Co	59	254822.688	0.7	848.388	14.54690	0.305	2.1	ug/L
	Ni	60	52141.812	0.9	167.670	13.14011	0.250	1.9	ug/L
	Ni	62	12440.515	13.5	209.338	21.05217	3.001	14.3	ug/L
	Cu	63	21677.978	12.0	570.693	2.30369	0.293	12.7	ug/L
	Cu	65	1907.904	3.7	318.010	0.36168	0.020	5.4	ug/L
	Zn	66	5944.513	1.5	2186.325	1.50332	0.096	6.4	ug/L
	Zn	67	1574.831	1.4	469.352	2.51989	0.075	3.0	ug/L
	Zn	68	7920.844	2.7	1708.532	3.41970	0.043	1.3	ug/L
>	Ge	72	230936.836	2.6	235019.833				ug/L
	As	75	654381.358	0.6	174.004	222.53057	7.084	3.2	ug/L
	Se	77	349.674	1.0	271.738	0.37776	0.048	12.8	ug/L
	Se	78	17552.289	1.3	18294.754	-0.60398	0.345	57.0	mg/L
	Se	82	589.821	0.3	514.483	0.27932	0.046	16.5	ug/L
	Kr	83	538.023	2.7	509.687				mg/L
	Y	89	433803.369	2.8	424645.807				ug/L
	Mo	95	178924.631	0.8	130.336	28.88566	0.001	0.0	ug/L
	Mo	97	109106.735	0.9	59.667	29.17528	0.481	1.6	ug/L
	Mo	98	277163.170	2.9	73.129	28.59250	0.756	2.6	ug/L
	Rh	103	367672.074	2.4	377819.614				ug/L
	Ag	107	111.002	19.1	60.668	0.00331	0.001	43.8	ug/L
	Ag	109	102.335	1.1	49.001	0.00380	0.000	1.7	ug/L
	Cd	111	65.364	65.5	302.744	-0.07494	0.013	17.5	ug/L
	Cd	114	391.435	34.7	257.978	0.01858	0.020	105.9	ug/L
>	In	115	377337.180	0.8	368464.817				ug/L
	Sb	121	5378.793	5.5	54.001	0.54970	0.030	5.5	ug/L
	Sb	123	4083.775	1.2	50.513	0.54531	0.004	0.7	ug/L
	Ba	135	65156.128	2.3	123.002	24.59078	0.893	3.6	ug/L
	Ba	137	115211.456	0.7	192.338	25.29529	0.398	1.6	ug/L
>	Tb	159	452882.232	2.1	460537.107				ug/L
>	Ho	165	434637.431	0.2	440378.521				ug/L
	Tl	203	251.006	22.2	83.668	0.02063	0.007	33.1	ug/L
	Tl	205	518.022	32.4	163.337	0.01961	0.009	47.0	ug/L
	Pb	208	1562.071	1.2	1492.737	0.00343	0.001	21.6	ug/L

Pb	206	422.348	1.3	397.348	0.00441	0.001	16.6	ug/L
Pb	207	351.678	7.1	320.010	0.00626	0.004	70.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		124.635			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.263			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.408			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.338			
>	Ho	165		98.696			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956D

Sample Date/Time: Friday, November 17, 2006 21:20:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956D.060

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	64.668	22.3	84.001	-0.02694	0.010	35.9	ug/L
	Al	27	33695.691	2.8	6946.222	2.27632	0.129	5.7	ug/L
>	Sc	45	540397.492	1.4	426236.083				ug/L
	V	51	7991.813	2.6	5344.504	0.05631	0.014	24.3	ug/L
	Cr	52	26033.533	1.4	18378.762	0.14558	0.037	25.1	ug/L
	Cr	53	2412.373	1.6	1484.814	0.22603	0.030	13.4	ug/L
	Mn	55	148248709.107	1.8	742.040	6704.90520	243.838	3.6	ug/L
	Co	59	264171.292	3.1	848.388	14.71131	0.230	1.6	ug/L
	Ni	60	52692.601	1.0	167.670	12.95862	0.334	2.6	ug/L
	Ni	62	10120.913	2.7	209.338	16.63815	0.745	4.5	ug/L
	Cu	63	18839.130	1.7	570.693	1.94428	0.071	3.7	ug/L
	Cu	65	1983.256	2.1	318.010	0.36795	0.018	4.8	ug/L
	Zn	66	7058.392	1.7	2186.325	1.87517	0.010	0.5	ug/L
	Zn	67	1709.859	2.0	469.352	2.73160	0.078	2.9	ug/L
	Zn	68	8747.343	1.5	1708.532	3.75928	0.165	4.4	ug/L
>	Ge	72	236635.268	2.0	235019.833				ug/L
	As	75	651818.942	1.9	174.004	216.31297	8.412	3.9	ug/L
	Se	77	354.074	1.8	271.738	0.35863	0.045	12.6	ug/L
	Se	78	17055.476	1.3	18294.754	-1.90255	0.792	41.6	mg/L
	Se	82	603.689	1.0	514.483	0.27690	0.047	17.1	ug/L
	Kr	83	530.689	4.8	509.687				mg/L
	Y	89	420199.403	2.1	424645.807				ug/L
	Mo	95	180491.378	1.4	130.336	29.72445	0.615	2.1	ug/L
	Mo	97	109845.782	1.7	59.667	29.95605	0.217	0.7	ug/L
	Mo	98	294644.662	1.0	73.129	31.01507	1.011	3.3	ug/L
	Rh	103	359388.396	1.6	377819.614				ug/L
	Ag	107	103.002	15.3	60.668	0.00290	0.001	37.6	ug/L
	Ag	109	87.001	23.1	49.001	0.00283	0.002	57.3	ug/L
	Cd	111	-60.855	54.9	302.744	-0.11380	0.010	8.9	ug/L
	Cd	114	456.086	9.9	257.978	0.02952	0.008	27.2	ug/L
>	In	115	370002.560	2.3	368464.817				ug/L
	Sb	121	5067.258	1.6	54.001	0.52796	0.004	0.8	ug/L
	Sb	123	3791.209	0.8	50.513	0.51611	0.014	2.7	ug/L
	Ba	135	68731.975	0.7	123.002	26.14615	0.499	1.9	ug/L
	Ba	137	117682.751	1.5	192.338	26.04641	0.608	2.3	ug/L
>	Tb	159	449252.598	1.2	460537.107				ug/L
>	Ho	165	437733.136	1.1	440378.521				ug/L
	Tl	203	202.338	5.2	83.668	0.01449	0.001	7.1	ug/L
	Tl	205	430.349	6.2	163.337	0.01462	0.001	8.5	ug/L
	Pb	208	9090.703	0.8	1492.737	0.29162	0.006	2.0	ug/L

Pb	206	2334.350	3.1	397.348	0.28126	0.007	2.7	ug/L
Pb	207	1938.912	0.1	320.010	0.28083	0.004	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		126.784			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.687			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.417			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.550			
>	Ho	165		99.399			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956S

Sample Date/Time: Friday, November 17, 2006 21:26:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956S.061

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	20604.982	0.5	84.001	13.44969	0.098	0.7	ug/L
	Al	27	208230.626	2.5	6946.222	18.54261	0.597	3.2	ug/L
>	Sc	45	531725.911	1.1	426236.083				ug/L
	V	51	357135.600	1.5	5344.504	16.46467	0.151	0.9	ug/L
	Cr	52	315842.286	2.0	18378.762	15.82720	0.321	2.0	ug/L
	Cr	53	37135.994	3.4	1484.814	15.27626	0.444	2.9	ug/L
	Mn	55	137747753.814	2.3	742.040	6378.03878	195.424	3.1	ug/L
	Co	59	601171.833	2.1	848.388	34.34812	0.357	1.0	ug/L
	Ni	60	122112.031	2.3	167.670	30.79982	0.582	1.9	ug/L
	Ni	62	19949.403	3.6	209.338	33.93327	1.454	4.3	ug/L
	Cu	63	190267.701	1.3	570.693	20.67035	0.132	0.6	ug/L
	Cu	65	82915.033	1.8	318.010	18.70589	0.440	2.4	ug/L
	Zn	66	47148.487	1.3	2186.325	17.78960	0.151	0.8	ug/L
	Zn	67	8607.533	3.6	469.352	18.41294	0.646	3.5	ug/L
	Zn	68	37731.272	0.7	1708.532	19.74083	0.307	1.6	ug/L
>	Ge	72	231076.821	1.1	235019.833				ug/L
	As	75	659924.472	2.2	174.004	224.14174	2.874	1.3	ug/L
	Se	77	3747.309	0.9	271.738	15.86265	0.130	0.8	ug/L
	Se	78	27708.523	1.3	18294.754	13.95092	0.179	1.3	mg/L
	Se	82	5297.617	1.5	514.483	15.82643	0.119	0.7	ug/L
	Kr	83	518.688	5.4	509.687				mg/L
	Y	89	421704.654	1.1	424645.807				ug/L
	Mo	95	292401.690	2.5	130.336	47.92827	1.143	2.4	ug/L
	Mo	97	181908.561	3.3	59.667	49.37547	1.388	2.8	ug/L
	Mo	98	482510.620	1.4	73.129	50.54366	1.559	3.1	ug/L
	Rh	103	356799.523	2.9	377819.614				ug/L
	Ag	107	291783.427	3.6	60.668	20.03005	1.128	5.6	ug/L
	Ag	109	270861.546	1.5	49.001	20.02165	0.708	3.5	ug/L
	Cd	111	59575.801	0.9	302.744	18.42052	0.412	2.2	ug/L
	Cd	114	136011.920	1.5	257.978	20.16819	0.160	0.8	ug/L
>	In	115	371800.884	2.0	368464.817				ug/L
	Sb	121	194260.497	0.8	54.001	20.35634	0.355	1.7	ug/L
	Sb	123	144527.800	1.1	50.513	19.83711	0.517	2.6	ug/L
	Ba	135	120139.789	1.4	123.002	45.90076	1.232	2.7	ug/L
	Ba	137	205845.676	2.0	192.338	45.75495	1.424	3.1	ug/L
>	Tb	159	447681.638	1.4	460537.107				ug/L
>	Ho	165	437724.308	1.2	440378.521				ug/L
	Tl	203	162398.916	1.3	83.668	19.74132	0.059	0.3	ug/L
	Tl	205	385213.542	1.8	163.337	21.02065	0.591	2.8	ug/L
	Pb	208	517306.602	0.8	1492.737	19.77335	0.154	0.8	ug/L

Pb	206	133450.362	2.1	397.348	19.29860	0.180	0.9	ug/L
Pb	207	110424.357	1.6	320.010	19.07651	0.256	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		124.749			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.322			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.905			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.209			
>	Ho	165		99.397			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956A

Sample Date/Time: Friday, November 17, 2006 21:32:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956A.062

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	21121.278	0.7	84.001	14.24349	0.515	3.6	ug/L
	Al	27	225573.282	1.6	6946.222	20.84462	0.988	4.7	ug/L
>	Sc	45	515165.618	3.0	426236.083				ug/L
	V	51	360367.483	1.7	5344.504	17.16632	0.308	1.8	ug/L
	Cr	52	320650.456	1.9	18378.762	16.64904	0.354	2.1	ug/L
	Cr	53	37131.587	1.3	1484.814	15.79871	0.312	2.0	ug/L
	Mn	55	142868782.614	2.2	742.040	6874.19579	109.400	1.6	ug/L
	Co	59	599465.357	4.1	848.388	35.59974	1.229	3.5	ug/L
	Ni	60	129343.225	1.9	167.670	33.91887	0.888	2.6	ug/L
	Ni	62	18777.661	2.4	209.338	33.18824	0.983	3.0	ug/L
	Cu	63	188402.868	1.7	570.693	21.27659	0.357	1.7	ug/L
	Cu	65	87031.364	1.4	318.010	20.41319	0.313	1.5	ug/L
	Zn	66	46886.354	1.6	2186.325	18.41547	0.151	0.8	ug/L
	Zn	67	8836.439	2.5	469.352	19.72133	0.679	3.4	ug/L
	Zn	68	38393.635	1.4	1708.532	20.93046	0.309	1.5	ug/L
>	Ge	72	222316.099	0.9	235019.833				ug/L
	As	75	663227.557	0.6	174.004	234.16717	2.061	0.9	ug/L
	Se	77	3745.108	0.3	271.738	16.52536	0.095	0.6	ug/L
	Se	78	27738.523	1.5	18294.754	15.56838	0.952	6.1	mg/L
	Se	82	5309.691	0.7	514.483	16.55879	0.219	1.3	ug/L
	Kr	83	533.022	9.4	509.687				mg/L
	Y	89	414229.357	3.5	424645.807				ug/L
	Mo	95	291868.970	0.7	130.336	49.02438	0.323	0.7	ug/L
	Mo	97	189875.417	0.8	59.667	52.81842	0.444	0.8	ug/L
	Mo	98	486650.926	2.3	73.129	52.22377	1.159	2.2	ug/L
	Rh	103	362662.691	0.9	377819.614				ug/L
	Ag	107	286921.032	0.4	60.668	20.17080	0.090	0.4	ug/L
	Ag	109	264452.790	1.0	49.001	20.02440	0.213	1.1	ug/L
	Cd	111	61962.959	3.0	302.744	19.63586	0.594	3.0	ug/L
	Cd	114	135025.857	3.7	257.978	20.51819	0.746	3.6	ug/L
>	In	115	362785.777	0.1	368464.817				ug/L
	Sb	121	197719.034	2.1	54.001	21.22917	0.433	2.0	ug/L
	Sb	123	147150.097	0.5	50.513	20.69260	0.093	0.4	ug/L
	Ba	135	118084.128	2.0	123.002	45.07702	0.705	1.6	ug/L
	Ba	137	203061.381	0.9	192.338	45.10241	0.744	1.7	ug/L
>	Tb	159	447939.136	0.9	460537.107				ug/L
>	Ho	165	420677.259	2.4	440378.521				ug/L
	Tl	203	163423.902	0.8	83.668	20.68160	0.640	3.1	ug/L
	Tl	205	389534.830	2.2	163.337	22.11469	0.101	0.5	ug/L
	Pb	208	522475.660	1.6	1492.737	20.78625	0.350	1.7	ug/L

Pb	206	132818.610	1.8	397.348	19.99112	0.137	0.7	ug/L
Pb	207	111339.679	1.0	320.010	20.02144	0.345	1.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		120.864			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		94.595			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.459			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.265			
>	Ho	165		95.526			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956L

Sample Date/Time: Friday, November 17, 2006 21:38:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948956L.063

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51.334	16.6	84.001	-0.02807	0.007	23.3	ug/L
	Al	27	11910.627	2.2	6946.222	0.53225	0.033	6.3	ug/L
>	Sc	45	439997.360	0.7	426236.083				ug/L
	V	51	5363.389	3.0	5344.504	-0.00874	0.008	91.0	ug/L
	Cr	52	17883.683	1.3	18378.762	-0.07108	0.013	17.7	ug/L
	Cr	53	1364.459	3.2	1484.814	-0.08795	0.027	30.9	ug/L
	Mn	55	27618590.148	2.9	742.040	1311.74733	55.021	4.2	ug/L
	Co	59	52571.894	2.4	848.388	3.03780	0.088	2.9	ug/L
	Ni	60	10359.541	2.2	167.670	2.64236	0.078	3.0	ug/L
	Ni	62	2294.006	4.1	209.338	3.68927	0.162	4.4	ug/L
	Cu	63	4236.453	2.2	570.693	0.41225	0.005	1.2	ug/L
	Cu	65	893.057	2.3	318.010	0.13661	0.005	3.8	ug/L
	Zn	66	2243.658	1.9	2186.325	0.06003	0.024	40.6	ug/L
	Zn	67	535.356	2.9	469.352	0.19841	0.051	25.8	ug/L
	Zn	68	2305.676	3.6	1708.532	0.37546	0.062	16.4	ug/L
>	Ge	72	225306.691	1.3	235019.833				ug/L
	As	75	137130.220	1.3	174.004	47.72629	0.163	0.3	ug/L
	Se	77	259.404	3.1	271.738	-0.00512	0.036	700.9	ug/L
	Se	78	16277.655	1.2	18294.754	-1.85569	0.160	8.6	mg/L
	Se	82	509.016	1.4	514.483	0.05354	0.017	32.1	ug/L
	Kr	83	484.352	3.8	509.687				mg/L
	Y	89	414642.765	1.1	424645.807				ug/L
	Mo	95	34301.468	1.3	130.336	5.50524	0.093	1.7	ug/L
	Mo	97	20506.408	1.5	59.667	5.45471	0.085	1.6	ug/L
	Mo	98	54836.461	0.7	73.129	5.63535	0.025	0.4	ug/L
	Rh	103	371176.157	1.6	377819.614				ug/L
	Ag	107	89.668	10.1	60.668	0.00184	0.001	32.1	ug/L
	Ag	109	64.668	12.6	49.001	0.00104	0.001	56.5	ug/L
	Cd	111	207.977	7.6	302.744	-0.03143	0.005	14.8	ug/L
	Cd	114	128.466	25.5	257.978	-0.01992	0.005	24.0	ug/L
>	In	115	378375.915	0.5	368464.817				ug/L
	Sb	121	1385.462	2.2	54.001	0.13697	0.004	2.8	ug/L
	Sb	123	1007.003	7.1	50.513	0.12879	0.009	7.0	ug/L
	Ba	135	13550.143	0.5	123.002	4.98101	0.090	1.8	ug/L
	Ba	137	23450.855	1.3	192.338	5.01922	0.108	2.2	ug/L
>	Tb	159	461493.493	1.5	460537.107				ug/L
>	Ho	165	449279.712	0.4	440378.521				ug/L
	Tl	203	108.002	10.5	83.668	0.00268	0.001	48.8	ug/L
	Tl	205	229.005	8.2	163.337	0.00331	0.001	28.7	ug/L
	Pb	208	640.682	4.0	1492.737	-0.03294	0.001	3.2	ug/L

Pb	206	169.670	6.4	397.348	-0.03331	0.002	4.9	ug/L
Pb	207	147.003	10.7	320.010	-0.03030	0.003	8.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.229			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.867			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.690			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.208			
>	Ho	165		102.021			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948957

Sample Date/Time: Friday, November 17, 2006 21:44:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\948957.064

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	68.001	7.6	84.001	-0.02315	0.004	15.8	ug/L
	Al	27	28079.698	38.3	6946.222	1.85830	1.008	54.3	ug/L
>	Sc	45	520324.433	0.8	426236.083				ug/L
	V	51	7844.822	3.0	5344.504	0.06337	0.009	14.2	ug/L
	Cr	52	25768.037	0.9	18378.762	0.18404	0.015	8.0	ug/L
	Cr	53	2459.388	2.2	1484.814	0.28626	0.026	9.1	ug/L
	Mn	55	152474130.156	2.7	742.040	7172.29119	268.404	3.7	ug/L
	Co	59	261650.259	1.4	848.388	15.16342	0.376	2.5	ug/L
	Ni	60	54653.997	3.5	167.670	13.98545	0.632	4.5	ug/L
	Ni	62	7453.742	2.8	209.338	12.66183	0.544	4.3	ug/L
	Cu	63	14152.486	2.2	570.693	1.50544	0.037	2.4	ug/L
	Cu	65	1770.206	1.1	318.010	0.33643	0.008	2.3	ug/L
	Zn	66	8550.136	0.7	2186.325	2.58401	0.025	1.0	ug/L
	Zn	67	1926.909	2.1	469.352	3.38244	0.139	4.1	ug/L
	Zn	68	10169.637	0.7	1708.532	4.73684	0.057	1.2	ug/L
>	Ge	72	227479.313	1.4	235019.833				ug/L
	As	75	569770.967	1.7	174.004	196.63878	5.796	2.9	ug/L
	Se	77	359.208	2.1	271.738	0.44526	0.014	3.2	ug/L
	Se	78	16741.592	0.8	18294.754	-1.40658	0.266	18.9	mg/L
	Se	82	592.088	1.5	514.483	0.31591	0.031	9.8	ug/L
	Kr	83	538.689	3.0	509.687				mg/L
	Y	89	412827.857	0.8	424645.807				ug/L
	Mo	95	181728.815	2.0	130.336	30.25565	0.647	2.1	ug/L
	Mo	97	113784.015	0.5	59.667	31.37451	0.181	0.6	ug/L
	Mo	98	288567.083	1.6	73.129	30.70323	0.764	2.5	ug/L
	Rh	103	359372.610	3.1	377819.614				ug/L
	Ag	107	87.335	6.9	60.668	0.00189	0.000	20.5	ug/L
	Ag	109	63.668	14.3	49.001	0.00113	0.001	63.5	ug/L
	Cd	111	23.080	247.0	302.744	-0.08756	0.018	20.7	ug/L
	Cd	114	493.428	8.6	257.978	0.03582	0.007	18.6	ug/L
>	In	115	365926.477	1.0	368464.817				ug/L
	Sb	121	4906.160	0.8	54.001	0.51674	0.009	1.7	ug/L
	Sb	123	3719.456	2.3	50.513	0.51184	0.017	3.3	ug/L
	Ba	135	64303.968	3.3	123.002	24.35000	0.982	4.0	ug/L
	Ba	137	111856.866	0.9	192.338	24.63987	0.055	0.2	ug/L
>	Tb	159	451283.563	1.1	460537.107				ug/L
>	Ho	165	429550.174	0.1	440378.521				ug/L
	Tl	203	179.337	4.2	83.668	0.01211	0.001	8.0	ug/L
	Tl	205	391.346	8.1	163.337	0.01291	0.002	13.7	ug/L
	Pb	208	809.690	3.4	1492.737	-0.02525	0.001	4.3	ug/L

	Pb	206	211.338	8.1	397.348		-0.02605	0.003	9.7	ug/L
L	Pb	207	187.004	8.8	320.010		-0.02209	0.003	13.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		122.074			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		96.792			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.311			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.991			
>	Ho	165		97.541			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, November 17, 2006 21:49:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 3.065

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1155.092	2.6	84.001	0.92375	0.035	3.8	ug/L
	Al	27	99073.101	0.1	6946.222	11.25234	0.424	3.8	ug/L
>	Sc	45	406212.911	3.4	426236.083				ug/L
	V	51	22027.621	0.6	5344.504	1.04232	0.043	4.1	ug/L
	Cr	52	31778.469	1.4	18378.762	1.01007	0.063	6.2	ug/L
	Cr	53	2770.155	0.3	1484.814	0.76937	0.059	7.7	ug/L
	Mn	55	21720.494	1.9	742.040	1.06950	0.013	1.2	ug/L
	Co	59	17410.678	1.2	848.388	1.04542	0.015	1.5	ug/L
	Ni	60	3951.310	1.9	167.670	1.05355	0.028	2.6	ug/L
	Ni	62	1831.887	6.5	209.338	3.09921	0.195	6.3	ug/L
	Cu	63	9703.410	1.1	570.693	1.09902	0.014	1.3	ug/L
	Cu	65	4503.929	0.7	318.010	1.04831	0.016	1.5	ug/L
	Zn	66	14285.383	2.7	2186.325	5.34671	0.147	2.7	ug/L
	Zn	67	2264.997	2.7	469.352	4.57529	0.177	3.9	ug/L
	Zn	68	10444.981	1.6	1708.532	5.35503	0.048	0.9	ug/L
>	Ge	72	210593.983	0.8	235019.833				ug/L
	As	75	2977.562	2.0	174.004	1.05195	0.022	2.1	ug/L
	Se	77	436.078	1.0	271.738	0.96336	0.039	4.0	ug/L
	Se	78	16034.244	0.8	18294.754	-0.56505	0.194	34.3	mg/L
	Se	82	753.434	1.9	514.483	1.05963	0.028	2.6	ug/L
	Kr	83	449.350	2.1	509.687				mg/L
	Y	89	397175.093	1.7	424645.807				ug/L
	Mo	95	5978.204	1.3	130.336	0.97797	0.008	0.9	ug/L
	Mo	97	3809.242	2.0	59.667	1.03827	0.018	1.8	ug/L
	Mo	98	9610.585	1.2	73.129	1.01869	0.019	1.9	ug/L
	Rh	103	366107.031	2.3	377819.614				ug/L
	Ag	107	15444.119	0.5	60.668	1.07636	0.011	1.0	ug/L
	Ag	109	14065.005	2.4	49.001	1.05629	0.030	2.8	ug/L
	Cd	111	3567.415	2.0	302.744	1.03545	0.029	2.8	ug/L
	Cd	114	7141.360	1.8	257.978	1.04323	0.026	2.5	ug/L
>	In	115	364615.328	0.7	368464.817				ug/L
	Sb	121	9783.504	0.3	54.001	1.03981	0.010	0.9	ug/L
	Sb	123	7515.699	2.0	50.513	1.04490	0.016	1.5	ug/L
	Ba	135	2813.170	3.6	123.002	1.00051	0.048	4.8	ug/L
	Ba	137	4830.115	2.8	192.338	1.00324	0.036	3.6	ug/L
>	Tb	159	460440.454	1.8	460537.107				ug/L
>	Ho	165	444123.926	0.7	440378.521				ug/L
	Tl	203	8703.965	2.3	83.668	1.03329	0.027	2.6	ug/L
	Tl	205	20819.516	0.3	163.337	1.11114	0.007	0.6	ug/L
	Pb	208	27761.340	0.9	1492.737	0.99194	0.009	0.9	ug/L

Pb	206	7064.398	1.9	397.348	0.95260	0.013	1.4	ug/L
Pb	207	6038.914	0.8	320.010	0.97607	0.006	0.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	92.375				
	Al	27	112.523				
>	Sc	45		95.302			
	V	51	104.232				
	Cr	52	101.007				
	Cr	53	76.937				
	Mn	55	106.950				
	Co	59	104.542				
	Ni	60	105.355				
	Ni	62	309.921				
	Cu	63	109.902				
	Cu	65	104.831				
	Zn	66	106.934				
	Zn	67	91.506				
	Zn	68	107.101				
>	Ge	72		89.607			
	As	75	105.195				
	Se	77	96.336				
	Se	78	-56.505				
	Se	82	105.963				
	Kr	83					
	Y	89					
	Mo	95	97.797				
	Mo	97	103.827				
	Mo	98	101.869				
	Rh	103					
	Ag	107	107.636				
	Ag	109	105.629				
	Cd	111	103.545				
	Cd	114	104.323				
>	In	115		98.955			
	Sb	121	103.981				
	Sb	123	104.490				
	Ba	135	100.051				
	Ba	137	100.324				
>	Tb	159		99.979			
>	Ho	165		100.850			
	Tl	203	103.329				
	Tl	205	111.114				
	Pb	208	99.194				
	Pb	206	95.260				
	Pb	207	97.607				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, November 17, 2006 21:55:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 6.066

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55214.873	0.7	84.001	47.63101	0.929	2.0	ug/L
	Al	27	466738.006	3.4	6946.222	56.28011	1.671	3.0	ug/L
>	Sc	45	403869.817	1.5	426236.083				ug/L
	V	51	830958.715	0.3	5344.504	51.09256	0.912	1.8	ug/L
	Cr	52	697317.569	3.1	18378.762	48.35866	0.820	1.7	ug/L
	Cr	53	84644.035	2.3	1484.814	47.45151	0.903	1.9	ug/L
	Mn	55	943532.807	0.5	742.040	48.97052	0.127	0.3	ug/L
	Co	59	802062.215	1.4	848.388	51.43972	0.751	1.5	ug/L
	Ni	60	184429.662	2.7	167.670	52.21588	1.285	2.5	ug/L
	Ni	62	27795.254	3.3	209.338	53.22633	1.585	3.0	ug/L
	Cu	63	426222.114	1.7	570.693	52.03953	0.713	1.4	ug/L
	Cu	65	204459.072	2.8	318.010	51.86592	1.290	2.5	ug/L
	Zn	66	113146.685	2.3	2186.325	49.33484	1.275	2.6	ug/L
	Zn	67	20189.296	0.8	469.352	50.15657	0.538	1.1	ug/L
	Zn	68	85161.802	0.7	1708.532	51.39167	0.365	0.7	ug/L
>	Ge	72	205970.404	0.3	235019.833				ug/L
	As	75	131785.413	1.9	174.004	50.17460	0.909	1.8	ug/L
	Se	77	10092.108	1.4	271.738	50.38806	0.703	1.4	ug/L
	Se	78	47258.165	1.3	18294.754	50.27512	0.809	1.6	mg/L
	Se	82	14151.139	0.9	514.483	50.76599	0.349	0.7	ug/L
	Kr	83	471.351	7.4	509.687				mg/L
	Y	89	390912.604	1.4	424645.807				ug/L
	Mo	95	285341.459	2.3	130.336	48.17156	1.166	2.4	ug/L
	Mo	97	175628.729	2.2	59.667	49.14170	2.669	5.4	ug/L
	Mo	98	440092.708	1.6	73.129	47.50020	2.327	4.9	ug/L
	Rh	103	360087.670	2.3	377819.614				ug/L
	Ag	107	727503.568	1.9	60.668	51.43747	2.302	4.5	ug/L
	Ag	109	660302.611	1.4	49.001	50.26281	1.168	2.3	ug/L
	Cd	111	160111.854	0.3	302.744	51.16852	1.818	3.6	ug/L
	Cd	114	335295.517	2.7	257.978	51.31190	2.959	5.8	ug/L
>	In	115	361077.582	3.2	368464.817				ug/L
	Sb	121	458342.187	1.8	54.001	49.50258	2.372	4.8	ug/L
	Sb	123	351828.776	1.4	50.513	49.74935	1.577	3.2	ug/L
	Ba	135	129370.347	2.0	123.002	48.70498	1.292	2.7	ug/L
	Ba	137	225444.665	1.2	192.338	49.38754	1.550	3.1	ug/L
>	Tb	159	454343.618	1.9	460537.107				ug/L
>	Ho	165	429376.864	1.4	440378.521				ug/L
	Tl	203	407733.493	1.9	83.668	50.55141	1.255	2.5	ug/L
	Tl	205	924294.072	0.5	163.337	51.42575	0.585	1.1	ug/L
	Pb	208	1276229.067	1.5	1492.737	49.82186	1.111	2.2	ug/L

Pb	206	328411.822	0.4	397.348	48.51335	0.830	1.7	ug/L
Pb	207	279012.393	1.9	320.010	49.22916	1.057	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	95.262				
	Al	27	112.560				
>	Sc	45		94.753			
	V	51	102.185				
	Cr	52	96.717				
	Cr	53	94.903				
	Mn	55	97.941				
	Co	59	102.879				
	Ni	60	104.432				
	Ni	62	106.453				
	Cu	63	104.079				
	Cu	65	103.732				
	Zn	66	98.670				
	Zn	67	100.313				
	Zn	68	102.783				
>	Ge	72		87.640			
	As	75	100.349				
	Se	77	100.776				
	Se	78	100.550				
	Se	82	101.532				
	Kr	83					
	Y	89					
	Mo	95	96.343				
	Mo	97	98.283				
	Mo	98	95.000				
	Rh	103					
	Ag	107	102.875				
	Ag	109	100.526				
	Cd	111	102.337				
	Cd	114	102.624				
>	In	115		97.995			
	Sb	121	99.005				
	Sb	123	99.499				
	Ba	135	97.410				
	Ba	137	98.775				
>	Tb	159		98.655			
>	Ho	165		97.502			
	Tl	203	101.103				
	Tl	205	102.851				
	Pb	208	99.644				
	Pb	206	97.027				
	Pb	207	98.458				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, November 17, 2006 22:01:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\111706\QC Std 7.067

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	63.001	12.0	84.001	-0.01316	0.008	57.0	ug/L
	Al	27	3918.627	1.4	6946.222	-0.31603	0.004	1.4	ug/L
>	Sc	45	395881.287	1.7	426236.083				ug/L
	V	51	4992.952	4.4	5344.504	0.00184	0.013	714.8	ug/L
	Cr	52	16534.901	3.7	18378.762	-0.03882	0.039	101.1	ug/L
	Cr	53	932.061	0.9	1484.814	-0.25990	0.007	2.7	ug/L
	Mn	55	758.709	16.5	742.040	0.00555	0.007	127.7	ug/L
	Co	59	241.006	14.4	848.388	-0.03227	0.003	8.0	ug/L
	Ni	60	127.336	7.7	167.670	-0.00570	0.003	45.3	ug/L
	Ni	62	752.708	5.4	209.338	1.09294	0.100	9.1	ug/L
	Cu	63	673.701	3.3	570.693	0.02097	0.005	22.3	ug/L
	Cu	65	189.004	6.4	318.010	-0.02299	0.002	10.7	ug/L
	Zn	66	1265.109	1.2	2186.325	-0.29055	0.020	6.9	ug/L
	Zn	67	292.341	9.7	469.352	-0.30323	0.089	29.2	ug/L
	Zn	68	1042.742	1.5	1708.532	-0.28155	0.012	4.3	ug/L
>	Ge	72	206771.726	2.7	235019.833				ug/L
	As	75	175.004	7.0	174.004	0.00843	0.006	74.7	ug/L
	Se	77	229.536	0.8	271.738	-0.04818	0.024	48.8	ug/L
	Se	78	15544.047	0.4	18294.754	-0.87168	0.749	85.9	mg/L
	Se	82	479.680	1.4	514.483	0.10084	0.063	62.2	ug/L
	Kr	83	458.017	1.2	509.687				mg/L
	Y	89	384842.100	0.2	424645.807				ug/L
	Mo	95	853.387	20.1	130.336	0.12257	0.031	25.3	ug/L
	Mo	97	530.356	26.5	59.667	0.13205	0.042	31.5	ug/L
	Mo	98	1235.421	25.9	73.129	0.12563	0.037	29.2	ug/L
	Rh	103	358179.049	0.8	377819.614				ug/L
	Ag	107	162.670	5.9	60.668	0.00729	0.001	12.8	ug/L
	Ag	109	145.669	2.1	49.001	0.00742	0.000	5.3	ug/L
	Cd	111	217.836	10.1	302.744	-0.02535	0.007	26.3	ug/L
	Cd	114	67.198	12.9	257.978	-0.02841	0.001	4.4	ug/L
>	In	115	361628.837	2.2	368464.817				ug/L
	Sb	121	1169.428	12.5	54.001	0.12046	0.018	14.7	ug/L
	Sb	123	920.839	16.0	50.513	0.12316	0.023	18.4	ug/L
	Ba	135	52.001	20.4	123.002	-0.02583	0.004	15.2	ug/L
	Ba	137	62.334	1.9	192.338	-0.02771	0.001	2.0	ug/L
>	Tb	159	447459.663	2.6	460537.107				ug/L
>	Ho	165	427232.949	0.9	440378.521				ug/L
	Tl	203	72.001	9.7	83.668	-0.00114	0.001	83.1	ug/L
	Tl	205	151.003	20.8	163.337	-0.00041	0.002	447.2	ug/L
	Pb	208	462.343	3.9	1492.737	-0.03871	0.001	2.2	ug/L

Pb	206	124.336	13.7	397.348	-0.03880	0.003	6.9	ug/L
Pb	207	115.002	4.8	320.010	-0.03470	0.001	2.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		92.878			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		87.981			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.145			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.160			
>	Ho	165		97.015			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Metals Cover Page

Analyst: SDeVito **Date:** 11/20/06 **Instrument:** ELAN

Data File: 1/2006 **Reviewed By:** SD 11/21/06 **Entered By:** SD 11/22/06

Manager Approval: 11/22/06 DCB

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
137755	Be As	M3990143	6020		

Package Data:

Client Sub#	Package	Analytes Used	Failed Metals	Batch ID	Stds Attached?	Tranferred To LIMS	Raw Data Copied?
34493	5 / ASP	Be		M3990143	Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
34502	5 / ASP	As			Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, November 20, 2006 09:10:13
Sample Description:
Method File: c:\elandata\Method\EPA DAILY.mth
Dataset File: c:\elandata\Dataset\Daily2006\Sample.240
Tuning File: c:\elandata\Tuning\epa.tun
Optimization File: c:\elandata\Optimize\epa2.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 60
Current Dead Time (ns): 60

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	66326.1	66326.123	534.130	0.8
	Rh	102.9	399277.0	399277.029	3951.207	1.0
	In	114.9	393385.8	393385.819	3500.274	0.9
	Pb	208.0	154126.3	154126.281	1933.854	1.3
	U	238.1	257610.8	257610.828	3191.300	1.2
⌈>	Ba	137.9	313139.0	313138.969	4124.598	1.3
⌊	Ba++	69.0	8109.0	0.026	0.000	0.7
⌈>	Ce	139.9	434724.4	434724.424	4195.323	1.0
⌊	CeO	155.9	8719.0	0.020	0.000	1.1
	Bkgd	220.0	38.0	38.004	7.281	19.2

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
8.00	Lens Voltage
1500.00	ICP RF Power
-1832.50	Analog Stage Voltage
1017.50	Pulse Stage Voltage
70.00	Discriminator Threshold
-2.50	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	6.0	11347.2
Co	59	29	7.8	163395.3
In	115	29	8.0	266809.4

Elan 9000 Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, November 20, 2006 09:28:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\Blank.001

SDelto 11/20/06

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51.334	4.9					ug/L
	Al	27	4379.197	6.3					ug/L
>	Sc	45	424656.486	0.9					ug/L
	V	51	5557.188	2.0					ug/L
	Cr	52	18419.857	1.8					ug/L
	Cr	53	945.730	3.9					ug/L
	Mn	55	692.369	2.5					ug/L
	Co	59	265.007	8.0					ug/L
	Ni	60	177.337	8.0					ug/L
	Ni	62	902.391	4.3					ug/L
	Cu	63	876.388	2.9					ug/L
	Cu	65	254.340	2.6					ug/L
	Zn	66	2747.481	3.2					ug/L
	Zn	67	502.020	5.7					ug/L
	Zn	68	1975.921	5.0					ug/L
>	Ge	72	227398.462	1.9					ug/L
	As	75	127.002	5.7					ug/L
	Se	77	226.870	4.8					ug/L
	Se	78	16063.843	1.1					mg/L
	Se	82	661.626	1.8					ug/L
	Kr	83	694.703	7.1					mg/L
	Y	89	420425.593	3.2					ug/L
	Mo	95	127.336	14.6					ug/L
	Mo	97	61.668	10.8					ug/L
	Mo	98	69.388	3.6					ug/L
	Rh	103	381957.031	2.0					ug/L
	Ag	107	56.667	7.3					ug/L
	Ag	109	52.667	15.5					ug/L
	Cd	111	249.856	6.9					ug/L
	Cd	114	64.386	13.6					ug/L
>	In	115	396447.935	1.8					ug/L
	Sb	121	62.334	5.6					ug/L
	Sb	123	53.222	14.5					ug/L
	Ba	135	56.334	11.8					ug/L
	Ba	137	65.001	43.9					ug/L
>	Tb	159	486746.910	1.2					ug/L
>	Ho	165	457509.069	2.4					ug/L
	Tl	203	48.667	34.5					ug/L
	Tl	205	63.334	16.9					ug/L
	Pb	208	537.345	9.2					ug/L

Pb	206	135.336	14.1	ug/L
Pb	207	124.336	10.8	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, November 20, 2006 09:34:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\Standard 1.002

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	12326.568	1.5	51.334	10.00000	0.398	4.0	ug/L
	Al	27	97243.445	1.3	4379.197	10.00000	0.351	3.5	ug/L
>	Sc	45	427166.615	2.5	424656.486				ug/L
	V	51	185329.913	0.7	5557.188	10.00000	0.242	2.4	ug/L
	Cr	52	169769.343	1.1	18419.857	10.00000	0.324	3.2	ug/L
	Cr	53	19162.202	1.7	945.730	10.00000	0.104	1.0	ug/L
	Mn	55	206393.757	1.6	692.369	10.00000	0.231	2.3	ug/L
	Co	59	187160.434	1.2	265.007	10.00000	0.205	2.0	ug/L
	Ni	60	40075.239	2.6	177.337	10.00000	0.345	3.5	ug/L
	Ni	62	6630.703	1.1	902.391	10.00000	0.031	0.3	ug/L
	Cu	63	93099.168	1.6	876.388	10.00000	0.191	1.9	ug/L
	Cu	65	43587.502	2.3	254.340	10.00000	0.297	3.0	ug/L
	Zn	66	27190.235	1.9	2747.481	10.00000	0.121	1.2	ug/L
	Zn	67	4776.751	3.1	502.020	10.00000	0.413	4.1	ug/L
	Zn	68	19607.909	1.9	1975.921	10.00000	0.296	3.0	ug/L
>	Ge	72	221797.899	0.9	227398.462				ug/L
	As	75	29036.123	0.7	127.002	10.00000	0.030	0.3	ug/L
	Se	77	2326.458	0.8	226.870	10.00000	0.174	1.7	ug/L
	Se	78	22397.263	2.9	16063.843	10.00000	1.228	12.3	mg/L
	Se	82	3560.360	0.5	661.626	10.00000	0.064	0.6	ug/L
	Kr	83	714.371	2.5	694.703				mg/L
	Y	89	412374.984	3.6	420425.593				ug/L
	Mo	95	61576.612	0.3	127.336	10.00000	0.072	0.7	ug/L
	Mo	97	37814.998	1.7	61.668	10.00000	0.143	1.4	ug/L
	Mo	98	96879.423	2.0	69.388	10.00000	0.184	1.8	ug/L
	Rh	103	360584.485	0.7	381957.031				ug/L
	Ag	107	159265.738	1.7	56.667	10.00000	0.162	1.6	ug/L
	Ag	109	146354.513	0.9	52.667	10.00000	0.121	1.2	ug/L
	Cd	111	34295.315	2.8	249.856	10.00000	0.246	2.5	ug/L
	Cd	114	75659.600	0.6	64.386	10.00000	0.080	0.8	ug/L
>	In	115	391995.817	0.4	396447.935				ug/L
	Sb	121	103659.177	1.4	62.334	10.00000	0.182	1.8	ug/L
	Sb	123	79929.429	0.5	53.222	10.00000	0.086	0.9	ug/L
	Ba	135	26788.604	2.2	56.334	10.00000	0.234	2.3	ug/L
	Ba	137	45975.939	0.5	65.001	10.00000	0.171	1.7	ug/L
>	Tb	159	459528.710	1.4	486746.910				ug/L
>	Ho	165	456269.472	0.6	457509.069				ug/L
	Tl	203	89670.788	0.9	48.667	10.00000	0.083	0.8	ug/L
	Tl	205	209945.065	2.4	63.334	10.00000	0.280	2.8	ug/L
	Pb	208	286226.658	1.4	537.345	10.00000	0.133	1.3	ug/L

Pb	206	74588.443	1.5	135.336	10.00000	0.148	1.5	ug/L
Pb	207	62628.451	1.5	124.336	10.00000	0.101	1.0	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, November 20, 2006 09:40:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\Standard 2.003

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	24263.527	2.3	51.334	20.08519	0.255	1.3	ug/L
	Al	27	192349.230	1.7	4379.197	20.19157	0.595	2.9	ug/L
>	Sc	45	412106.689	1.8	424656.486				ug/L
	V	51	346707.861	0.5	5557.188	19.93494	0.263	1.3	ug/L
	Cr	52	312384.877	2.0	18419.857	20.03538	0.517	2.6	ug/L
	Cr	53	36055.206	1.8	945.730	19.99938	0.044	0.2	ug/L
	Mn	55	412588.379	1.9	692.369	20.03801	0.138	0.7	ug/L
	Co	59	352924.032	0.7	265.007	19.79816	0.212	1.1	ug/L
	Ni	60	79680.392	2.4	177.337	20.01812	0.242	1.2	ug/L
	Ni	62	12571.942	3.3	902.391	20.10153	0.597	3.0	ug/L
	Cu	63	176140.639	1.2	876.388	19.82759	0.336	1.7	ug/L
	Cu	65	86136.820	1.6	254.340	19.99692	0.124	0.6	ug/L
	Zn	66	51434.437	1.2	2747.481	20.01456	0.172	0.9	ug/L
	Zn	67	8894.500	1.1	502.020	19.95629	0.504	2.5	ug/L
	Zn	68	37696.148	2.6	1975.921	20.08035	0.363	1.8	ug/L
>	Ge	72	219915.494	1.4	227398.462				ug/L
	As	75	57547.972	1.8	127.002	20.00738	0.615	3.1	ug/L
	Se	77	4402.429	0.6	226.870	20.00820	0.326	1.6	ug/L
	Se	78	28726.535	0.9	16063.843	19.95243	0.776	3.9	mg/L
	Se	82	6488.458	0.2	661.626	20.04704	0.311	1.6	ug/L
	Kr	83	741.707	3.2	694.703				mg/L
	Y	89	399246.420	0.8	420425.593				ug/L
	Mo	95	117523.764	2.6	127.336	19.87786	0.682	3.4	ug/L
	Mo	97	73982.039	1.0	61.668	19.97804	0.653	3.3	ug/L
	Mo	98	187389.076	1.2	69.388	19.92967	0.525	2.6	ug/L
	Rh	103	365362.993	0.6	381957.031				ug/L
	Ag	107	304905.478	2.2	56.667	19.88620	0.334	1.7	ug/L
	Ag	109	283102.135	0.8	52.667	19.92985	0.690	3.5	ug/L
	Cd	111	68612.220	1.0	249.856	20.07840	0.600	3.0	ug/L
	Cd	114	150971.981	0.8	64.386	20.05561	0.753	3.8	ug/L
>	In	115	386126.181	3.0	396447.935				ug/L
	Sb	121	198687.480	1.0	62.334	19.89355	0.779	3.9	ug/L
	Sb	123	154225.661	1.1	53.222	19.91936	0.470	2.4	ug/L
	Ba	135	51789.296	1.3	56.334	19.74722	0.247	1.3	ug/L
	Ba	137	90847.226	2.1	65.001	19.83537	0.204	1.0	ug/L
>	Tb	159	473043.277	1.1	486746.910				ug/L
>	Ho	165	448888.318	1.3	457509.069				ug/L
	Tl	203	174290.897	0.7	48.667	19.95209	0.162	0.8	ug/L
	Tl	205	415018.587	2.3	63.334	20.01843	0.209	1.0	ug/L
	Pb	208	553131.013	1.0	537.345	19.93131	0.089	0.4	ug/L

Pb	206	142556.141	0.9	135.336	19.88683	0.397	2.0	ug/L
Pb	207	122512.936	1.0	124.336	19.98095	0.229	1.1	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, November 20, 2006 09:46:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\Standard 3.004

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	116963.264	2.5	51.334	99.85325	1.851	1.9	ug/L
	Al	27	885750.375	1.0	4379.197	99.73051	0.842	0.8	ug/L
>	Sc	45	411970.651	0.8	424656.486				ug/L
	V	51	1639024.506	2.2	5557.188	99.77227	1.640	1.6	ug/L
	Cr	52	1407568.772	1.1	18419.857	99.72650	0.629	0.6	ug/L
	Cr	53	174240.467	1.7	945.730	99.93630	0.895	0.9	ug/L
	Mn	55	1909771.440	1.2	692.369	99.66429	2.756	2.8	ug/L
	Co	59	1687375.823	1.4	265.007	99.76213	2.746	2.8	ug/L
	Ni	60	368976.325	2.4	177.337	99.66340	3.288	3.3	ug/L
	Ni	62	56832.746	1.8	902.391	99.83803	3.333	3.3	ug/L
	Cu	63	864096.279	3.0	876.388	99.91117	3.477	3.5	ug/L
	Cu	65	416575.209	1.2	254.340	99.87602	1.890	1.9	ug/L
	Zn	66	243344.582	1.7	2747.481	99.96591	1.175	1.2	ug/L
	Zn	67	41849.249	1.4	502.020	99.93673	2.270	2.3	ug/L
	Zn	68	175525.371	0.4	1975.921	99.90131	1.721	1.7	ug/L
>	Ge	72	218756.715	1.6	227398.462				ug/L
	As	75	273016.224	1.9	127.002	99.78070	3.269	3.3	ug/L
	Se	77	20658.375	0.6	226.870	99.91757	2.204	2.2	ug/L
	Se	78	79641.036	1.9	16063.843	99.88273	3.200	3.2	mg/L
	Se	82	28822.090	0.1	661.626	99.85938	1.774	1.8	ug/L
	Kr	83	782.045	1.0	694.703				mg/L
	Y	89	405021.557	1.9	420425.593				ug/L
	Mo	95	577067.749	4.2	127.336	100.01923	3.278	3.3	ug/L
	Mo	97	352063.186	2.4	61.668	99.89178	1.724	1.7	ug/L
	Mo	98	937600.330	3.5	69.388	100.11750	2.736	2.7	ug/L
	Rh	103	357502.237	2.3	381957.031				ug/L
	Ag	107	1400004.577	2.7	56.667	99.69169	2.428	2.4	ug/L
	Ag	109	1346921.753	2.1	52.667	99.87757	3.163	3.2	ug/L
	Cd	111	315159.035	1.9	249.856	99.75348	1.561	1.6	ug/L
	Cd	114	711035.416	2.7	64.386	99.85945	3.657	3.7	ug/L
>	In	115	375476.884	2.2	396447.935				ug/L
	Sb	121	973656.757	1.5	62.334	100.01062	2.263	2.3	ug/L
	Sb	123	734655.444	1.8	53.222	99.88322	3.446	3.5	ug/L
	Ba	135	255887.493	1.2	56.334	100.01490	0.991	1.0	ug/L
	Ba	137	434911.243	1.9	65.001	99.88367	1.894	1.9	ug/L
>	Tb	159	460471.643	0.4	486746.910				ug/L
>	Ho	165	442235.476	2.4	457509.069				ug/L
	Tl	203	806044.301	2.5	48.667	99.67945	0.245	0.2	ug/L
	Tl	205	1829793.189	1.4	63.334	99.45182	1.606	1.6	ug/L
	Pb	208	2582570.086	2.1	537.345	99.72530	0.377	0.4	ug/L

Pb	206	678474.785	2.5	135.336	99.80860	0.956	1.0	ug/L
Pb	207	569615.036	2.0	124.336	99.71684	0.666	0.7	ug/L

Quantitative Analysis Calibration Report

File Name: 112006.cal
File Path: C:\elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.00	0.00	0.999977
Al	26.982	Linear Thru Zero	0.02	0.00	0.999918
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V	50.944	Linear Thru Zero	0.04	0.00	0.999947
Cr	51.941	Linear Thru Zero	0.03	0.00	0.999925
Cr	52.941	Linear Thru Zero	0.00	0.00	0.999996
Mn	54.938	Linear Thru Zero	0.09	0.00	0.999887
Co	58.933	Linear Thru Zero	0.08	0.00	0.999933
Ni	59.933	Linear Thru Zero	0.02	0.00	0.999887
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999971
Cu	62.930	Linear Thru Zero	0.04	0.00	0.999985
Cu	64.928	Linear Thru Zero	0.02	0.00	0.999985
Zn	65.926	Linear Thru Zero	0.01	0.00	0.999999
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999996
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999989
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.01	0.00	0.999952
Se	76.920	Linear Thru Zero	0.00	0.00	0.999993
Se	77.917	Linear Thru Zero	0.00	0.00	0.999986
Se	81.917	Linear Thru Zero	0.00	0.00	0.999980
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Mo	94.906	Linear Thru Zero	0.02	0.00	0.999996
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999988
Mo	97.906	Linear Thru Zero	0.02	0.00	0.999985
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
Ag	106.905	Linear Thru Zero	0.04	0.00	0.999901
Ag	108.905	Linear Thru Zero	0.04	0.00	0.999984
Cd	110.904	Linear Thru Zero	0.01	0.00	0.999938
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999979
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb	120.904	Linear Thru Zero	0.03	0.00	0.999997
Sb	122.904	Linear Thru Zero	0.02	0.00	0.999985
Ba	134.906	Linear Thru Zero	0.01	0.00	0.999985
Ba	136.905	Linear Thru Zero	0.01	0.00	0.999980
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Tl	202.972	Linear Thru Zero	0.02	0.00	0.999897
Tl	204.975	Linear Thru Zero	0.04	0.00	0.999700
Pb	207.977	Linear Thru Zero	0.06	0.00	0.999923

Pb	205.975	Linear Thru Zero	0.02	0.00	0.999960
Pb	206.976	Linear Thru Zero	0.01	0.00	0.999920

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, November 20, 2006 09:52:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 1.005

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56363.204	0.8	51.334	48.56301	0.794	1.6	ug/L
	Al	27	461766.711	1.6	4379.197	52.27935	1.916	3.7	ug/L
>	Sc	45	408128.977	2.1	424656.486				ug/L
	V	51	839940.342	0.9	5557.188	51.47403	1.419	2.8	ug/L
	Cr	52	726109.869	0.5	18419.857	51.33193	1.232	2.4	ug/L
	Cr	53	85797.304	1.2	945.730	49.41709	0.695	1.4	ug/L
	Mn	55	1001609.294	1.3	692.369	53.76342	0.963	1.8	ug/L
	Co	59	834724.001	2.2	265.007	50.76270	0.740	1.5	ug/L
	Ni	60	188360.899	1.6	177.337	52.32071	0.329	0.6	ug/L
	Ni	62	30099.573	1.8	902.391	53.68771	0.449	0.8	ug/L
	Cu	63	438416.023	1.4	876.388	52.11123	0.600	1.2	ug/L
	Cu	65	209076.892	1.8	254.340	51.55763	1.375	2.7	ug/L
	Zn	66	119701.080	2.4	2747.481	50.06361	1.351	2.7	ug/L
	Zn	67	20144.522	1.1	502.020	48.90719	0.384	0.8	ug/L
	Zn	68	86475.958	1.4	1975.921	50.10783	1.094	2.2	ug/L
>	Ge	72	212572.695	1.0	227398.462				ug/L
	As	75	133716.756	1.5	127.002	50.25290	0.520	1.0	ug/L
	Se	77	10387.938	1.0	226.870	51.17749	0.071	0.1	ug/L
	Se	78	46598.795	1.3	16063.843	50.56247	0.517	1.0	mg/L
	Se	82	14800.466	0.9	661.626	51.70271	0.887	1.7	ug/L
	Kr	83	779.378	2.2	694.703				mg/L
	Y	89	402262.609	1.0	420425.593				ug/L
	Mo	95	282530.326	3.6	127.336	50.08732	1.127	2.3	ug/L
	Mo	97	181015.449	1.0	51.668	52.54408	0.652	1.2	ug/L
	Mo	98	458820.570	2.8	69.388	50.12179	0.968	1.9	ug/L
	Rh	103	353102.234	1.0	381957.031				ug/L
	Ag	107	702246.697	0.4	56.667	51.16927	1.164	2.3	ug/L
	Ag	109	659590.099	1.8	52.667	50.02685	0.697	1.4	ug/L
	Cd	111	158756.342	0.9	249.856	51.37618	0.589	1.1	ug/L
	Cd	114	360114.553	1.1	64.386	51.72795	0.437	0.8	ug/L
>	In	115	366984.799	1.9	396447.935				ug/L
	Sb	121	483091.306	1.8	62.334	50.75504	0.364	0.7	ug/L
	Sb	123	359024.820	2.1	53.222	49.91496	0.173	0.3	ug/L
	Ba	135	128269.466	1.8	56.334	50.75250	0.757	1.5	ug/L
	Ba	137	219866.969	2.0	65.001	51.12321	1.086	2.1	ug/L
>	Tb	159	454770.262	0.8	486746.910				ug/L
>	Ho	165	430182.703	1.9	457509.069				ug/L
	Tl	203	406497.251	0.7	48.667	51.69189	1.292	2.5	ug/L
	Tl	205	963469.304	1.3	63.334	53.82398	0.322	0.6	ug/L
	Pb	208	1299312.046	1.0	537.345	51.57235	0.518	1.0	ug/L

Pb	206	338290.557	2.2	135.336	51.14803	0.363	0.7	ug/L
Pb	207	274415.157	0.6	124.336	49.38459	1.126	2.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	97.126				
	Al	27	104.559				
>	Sc	45		96.108			
	V	51	102.948				
	Cr	52	102.664				
	Cr	53	98.834				
	Mn	55	107.527				
	Co	59	101.525				
	Ni	60	104.641				
	Ni	62	107.375				
	Cu	63	104.222				
	Cu	65	103.115				
	Zn	66	100.127				
	Zn	67	97.814				
	Zn	68	100.216				
>	Ge	72		93.480			
	As	75	100.506				
	Se	77	102.355				
	Se	78	101.125				
	Se	82	103.405				
	Kr	83					
	Y	89					
	Mo	95	100.175				
	Mo	97	105.088				
	Mo	98	100.244				
	Rh	103					
	Ag	107	102.339				
	Ag	109	100.054				
	Cd	111	102.752				
	Cd	114	103.456				
>	In	115		92.568			
	Sb	121	101.510				
	Sb	123	99.830				
	Ba	135	101.505				
	Ba	137	102.246				
>	Tb	159		93.431			
>	Ho	165		94.027			
	Tl	203	103.384				
	Tl	205	107.648				
	Pb	208	103.145				
	Pb	206	102.296				
	Pb	207	98.769				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, November 20, 2006 09:58:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 2.006

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.334	20.9	51.334	0.00949	0.011	113.9	ug/L
	Al	27	3263.673	4.7	4379.197	-0.10147	0.019	18.3	ug/L
>	Sc	45	401208.002	0.3	424656.486				ug/L
	V	51	5229.328	2.4	5557.188	-0.00131	0.008	642.8	ug/L
	Cr	52	17302.116	0.3	18419.857	-0.00741	0.005	71.7	ug/L
	Cr	53	873.388	2.4	945.730	-0.01190	0.013	111.1	ug/L
	Mn	55	609.695	2.9	692.369	-0.00223	0.001	55.1	ug/L
	Co	59	256.007	7.9	265.007	0.00040	0.001	323.1	ug/L
	Ni	60	142.669	8.1	177.337	-0.00671	0.003	40.4	ug/L
	Ni	62	1412.467	2.0	902.391	1.02699	0.064	6.2	ug/L
	Cu	63	1190.764	3.2	876.388	0.04332	0.005	12.5	ug/L
	Cu	65	222.339	5.6	254.340	-0.00418	0.003	70.9	ug/L
	Zn	66	2346.688	4.0	2747.481	-0.10130	0.044	43.5	ug/L
	Zn	67	431.349	4.3	502.020	-0.10160	0.040	39.5	ug/L
	Zn	68	1707.859	2.7	1975.921	-0.08904	0.033	37.0	ug/L
>	Ge	72	214007.517	1.3	227398.462				ug/L
	As	75	162.670	19.6	127.002	0.01617	0.012	76.5	ug/L
	Se	77	235.270	2.5	226.870	0.10878	0.030	28.0	ug/L
	Se	78	15243.719	1.2	16063.843	0.20487	0.576	281.1	mg/L
	Se	82	790.104	2.1	661.626	0.60656	0.070	11.6	ug/L
	Kr	83	779.378	3.7	694.703				mg/L
	Y	89	396631.717	2.0	420425.593				ug/L
	Mo	95	591.694	15.8	127.336	0.07968	0.015	19.1	ug/L
	Mo	97	353.678	14.1	61.668	0.08183	0.013	16.0	ug/L
	Mo	98	839.955	15.2	69.388	0.08091	0.013	15.5	ug/L
	Rh	103	346734.828	1.4	381957.031				ug/L
	Ag	107	123.002	7.5	56.667	0.00477	0.001	13.6	ug/L
	Ag	109	114.002	13.1	52.667	0.00460	0.001	24.8	ug/L
	Cd	111	243.775	2.7	249.856	0.00083	0.003	331.3	ug/L
	Cd	114	61.365	8.2	64.386	-0.00010	0.001	767.3	ug/L
>	In	115	382674.079	1.1	396447.935				ug/L
	Sb	121	1189.431	14.3	62.334	0.11370	0.016	14.2	ug/L
	Sb	123	898.152	12.7	53.222	0.11284	0.014	12.5	ug/L
	Ba	135	47.334	16.0	56.334	-0.00194	0.003	145.1	ug/L
	Ba	137	63.001	10.4	65.001	0.00067	0.002	236.4	ug/L
>	Tb	159	450420.485	1.2	486746.910				ug/L
>	Ho	165	434348.978	1.4	457509.069				ug/L
	Tl	203	73.668	5.7	48.667	0.00346	0.000	13.4	ug/L
	Tl	205	118.669	6.0	63.334	0.00324	0.000	14.2	ug/L
	Pb	208	478.010	4.8	537.345	-0.00126	0.001	67.1	ug/L

Pb	206	132.002	8.3	135.336	0.00054	0.002	332.7	ug/L
Pb	207	107.335	5.5	124.336	-0.00191	0.001	42.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		94.478			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		94.111			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.526			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.537			
>	Ho	165		94.938			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 20, 2006 10:04:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 3.007

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1273.443	1.0	51.334	1.05366	0.004	0.4	ug/L
	Al	27	99427.136	2.2	4379.197	10.85761	0.330	3.0	ug/L
>	Sc	45	408774.423	0.7	424656.486				ug/L
	V	51	23065.036	2.2	5557.188	1.09054	0.033	3.1	ug/L
	Cr	52	32870.706	1.5	18419.857	1.09521	0.054	4.9	ug/L
	Cr	53	2646.447	1.2	945.730	1.00888	0.014	1.4	ug/L
	Mn	55	21520.302	1.0	692.369	1.10754	0.012	1.1	ug/L
	Co	59	17730.688	1.0	265.007	1.05097	0.009	0.9	ug/L
	Ni	60	4179.090	2.5	177.337	1.10219	0.025	2.3	ug/L
	Ni	62	1840.555	4.0	902.391	1.79012	0.130	7.2	ug/L
	Cu	63	10089.205	1.4	876.388	1.08985	0.014	1.3	ug/L
	Cu	65	4521.271	0.8	254.340	1.04430	0.011	1.1	ug/L
	Zn	66	15101.490	1.2	2747.481	5.28087	0.059	1.1	ug/L
	Zn	67	2362.692	2.5	502.020	4.63761	0.132	2.8	ug/L
	Zn	68	10954.976	2.8	1975.921	5.31610	0.172	3.2	ug/L
>	Ge	72	215085.477	0.3	227398.462				ug/L
	As	75	2914.205	0.1	127.002	1.03873	0.003	0.3	ug/L
	Se	77	430.144	2.2	226.870	1.07154	0.052	4.9	ug/L
	Se	78	15988.033	2.4	16063.843	1.25584	0.575	45.8	mg/L
	Se	82	1097.206	1.8	661.626	1.69824	0.063	3.7	ug/L
	Kr	83	804.380	1.7	694.703				mg/L
	Y	89	399877.338	1.6	420425.593				ug/L
	Mo	95	6029.908	1.4	127.336	1.02046	0.028	2.7	ug/L
	Mo	97	3865.602	3.2	61.668	1.07665	0.060	5.6	ug/L
	Mo	98	9536.646	0.7	69.388	1.00743	0.022	2.2	ug/L
	Rh	103	364094.390	2.5	381957.031				ug/L
	Ag	107	15405.716	1.5	56.667	1.08883	0.027	2.5	ug/L
	Ag	109	13782.537	3.8	52.667	1.01367	0.029	2.8	ug/L
	Cd	111	3632.141	0.4	249.856	1.07106	0.031	2.9	ug/L
	Cd	114	7605.241	4.6	64.386	1.05567	0.069	6.5	ug/L
>	In	115	377085.541	2.7	396447.935				ug/L
	Sb	121	10529.423	2.6	62.334	1.07151	0.052	4.8	ug/L
	Sb	123	7786.788	2.6	53.222	1.04695	0.002	0.2	ug/L
	Ba	135	2695.796	2.3	56.334	1.02844	0.037	3.6	ug/L
	Ba	137	4776.752	4.4	65.001	1.07758	0.031	2.9	ug/L
>	Tb	159	462660.847	1.8	486746.910				ug/L
>	Ho	165	437908.226	1.0	457509.069				ug/L
	Tl	203	8768.366	2.1	48.667	1.08953	0.034	3.1	ug/L
	Tl	205	21044.417	0.9	63.334	1.15162	0.014	1.3	ug/L
	Pb	208	28328.389	0.7	537.345	1.08485	0.006	0.5	ug/L

Pb	206	7216.195	0.4	135.336	1.05303	0.006	0.6	ug/L
Pb	207	6190.363	3.9	124.336	1.07343	0.039	3.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	105.366				
	Al	27	108.576				
>	Sc	45		96.260			
	V	51	109.054				
	Cr	52	109.521				
	Cr	53	100.888				
	Mn	55	110.754				
	Co	59	105.097				
	Ni	60	110.219				
	Ni	62	179.012				
	Cu	63	108.985				
	Cu	65	104.430				
	Zn	66	105.617				
	Zn	67	92.752				
	Zn	68	106.322				
>	Ge	72		94.585			
	As	75	103.873				
	Se	77	107.154				
	Se	78	125.584				
	Se	82	169.824				
	Kr	83					
	Y	89					
	Mo	95	102.046				
	Mo	97	107.665				
	Mo	98	100.743				
	Rh	103					
	Ag	107	108.883				
	Ag	109	101.367				
	Cd	111	107.106				
	Cd	114	105.567				
>	In	115		95.116			
	Sb	121	107.151				
	Sb	123	104.695				
	Ba	135	102.844				
	Ba	137	107.758				
>	Tb	159		95.052			
>	Ho	165		95.716			
	Tl	203	108.953				
	Tl	205	115.162				
	Pb	208	108.485				
	Pb	206	105.303				
	Pb	207	107.343				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, November 20, 2006 10:10:35
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 4.008

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	67.668	16.5	51.334	0.01506	0.010	66.9	ug/L
	Al	27	198882767.818	3.3	4379.197	22398.40108	967.537	4.3	ug/L
>	Sc	45	413965.768	1.2	424656.486				ug/L
	V	51	4346.576	2.5	5557.188	-0.06511	0.004	5.5	ug/L
	Cr	52	28264.491	2.7	18419.857	0.73677	0.078	10.5	ug/L
	Cr	53	7961.907	10.1	945.730	4.04360	0.509	12.6	ug/L
	Mn	55	7461.748	2.3	692.369	0.32976	0.012	3.6	ug/L
	Co	59	1237.104	2.4	265.007	0.05337	0.001	2.7	ug/L
	Ni	60	2832.511	6.3	177.337	0.67032	0.050	7.5	ug/L
	Ni	62	3595.812	1.0	902.391	4.45384	0.126	2.8	ug/L
	Cu	63	8628.555	3.5	876.388	0.83717	0.043	5.2	ug/L
	Cu	65	3087.270	2.3	254.340	0.63442	0.021	3.3	ug/L
	Zn	66	5484.526	2.4	2747.481	1.03368	0.024	2.3	ug/L
	Zn	67	2337.685	4.4	502.020	4.11802	0.237	5.8	ug/L
	Zn	68	2582.759	2.4	1975.921	0.29743	0.053	17.9	ug/L
>	Ge	72	233761.707	1.4	227398.462				ug/L
	As	75	1985.593	13.5	127.002	0.63481	0.093	14.7	ug/L
	Se	77	865.645	6.5	226.870	2.89415	0.287	9.9	ug/L
	Se	78	16120.201	2.3	16063.843	-0.56662	0.761	134.3	mg/L
	Se	82	933.986	2.1	661.626	0.84163	0.062	7.3	ug/L
	Kr	83	971.733	3.8	694.703				mg/L
	Y	89	417918.384	4.1	420425.593				ug/L
	Mo	95	2708242.175	1.2	127.336	469.30560	9.132	1.9	ug/L
	Mo	97	1431620.808	0.7	61.668	406.03565	5.710	1.4	ug/L
	Mo	98	4409468.461	0.7	69.388	470.65429	6.777	1.4	ug/L
	Rh	103	354016.501	3.0	381957.031				ug/L
	Ag	107	422.682	6.5	56.667	0.02626	0.002	7.4	ug/L
	Ag	109	403.014	3.5	52.667	0.02617	0.001	4.9	ug/L
	Cd	111	308.919	40.5	249.856	0.02277	0.039	172.8	ug/L
	Cd	114	5017.656	0.9	64.386	0.69562	0.011	1.6	ug/L
>	In	115	375672.695	0.8	396447.935				ug/L
	Sb	121	3573.135	0.3	62.334	0.36071	0.003	0.9	ug/L
	Sb	123	2651.838	2.9	53.222	0.35335	0.009	2.5	ug/L
	Ba	135	163.670	11.9	56.334	0.04685	0.009	18.5	ug/L
	Ba	137	224.339	4.6	65.001	0.04035	0.003	6.3	ug/L
>	Tb	159	435601.754	0.9	486746.910				ug/L
>	Ho	165	416992.380	1.4	457509.069				ug/L
	Tl	203	1096.083	4.0	48.667	0.13792	0.004	3.0	ug/L
	Tl	205	2599.766	5.2	63.334	0.14645	0.006	3.9	ug/L
	Pb	208	1719.084	2.6	537.345	0.05035	0.001	2.9	ug/L

Pb	206	458.684	4.6	135.336	0.05230	0.002	4.3	ug/L
Pb	207	396.680	4.5	124.336	0.05262	0.003	6.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	111.992				
>	Sc	45		97.483			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.798			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	117.326				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		94.760			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		89.492			
>	Ho	165		91.144			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, November 20, 2006 10:16:32
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 5.009

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	145.669	8.7	51.334	0.08051	0.012	15.3	ug/L
	Al	27	194855918.919	2.0	4379.197	21784.17442	533.373	2.4	ug/L
>	Sc	45	416953.102	1.4	424656.486				ug/L
	V	51	-2488.016	74.2	5557.188	-0.47840	0.110	23.0	ug/L
	Cr	52	326324.986	2.0	18419.857	21.86241	0.761	3.5	ug/L
	Cr	53	46607.126	1.7	945.730	26.02996	0.719	2.8	ug/L
	Mn	55	418007.746	1.6	692.369	20.56168	0.112	0.5	ug/L
	Co	59	361558.037	1.4	265.007	20.16910	0.524	2.6	ug/L
	Ni	60	79324.945	1.6	177.337	20.18778	0.209	1.0	ug/L
	Ni	62	14933.520	1.7	902.391	23.60488	0.881	3.7	ug/L
	Cu	63	333439.081	2.0	876.388	36.34690	1.395	3.8	ug/L
	Cu	65	157875.878	2.3	254.340	35.70684	1.368	3.8	ug/L
	Zn	66	53725.853	1.3	2747.481	19.96925	0.267	1.3	ug/L
	Zn	67	9863.600	1.3	502.020	21.33441	0.685	3.2	ug/L
	Zn	68	35656.823	1.6	1975.921	18.27422	0.278	1.5	ug/L
>	Ge	72	231711.891	1.8	227398.462				ug/L
	As	75	60488.009	0.6	127.002	20.83467	0.496	2.4	ug/L
	Se	77	952.121	6.0	226.870	3.32520	0.223	6.7	ug/L
	Se	78	16189.424	0.4	16063.843	-0.25899	0.339	130.7	mg/L
	Se	82	954.055	2.0	661.626	0.93655	0.081	8.6	ug/L
	Kr	83	946.730	1.3	694.703				mg/L
	Y	89	409495.696	0.4	420425.593				ug/L
	Mo	95	2823492.619	1.8	127.336	494.31618	10.970	2.2	ug/L
	Mo	97	1434480.357	2.5	61.668	411.00868	9.160	2.2	ug/L
	Mo	98	4490391.344	3.2	69.388	484.17324	13.557	2.8	ug/L
	Rh	103	345728.440	1.6	381957.031				ug/L
	Ag	107	287232.819	1.5	56.667	20.64834	0.290	1.4	ug/L
	Ag	109	267306.882	1.7	52.667	20.00693	0.388	1.9	ug/L
	Cd	111	63850.265	3.0	249.856	20.34787	0.707	3.5	ug/L
	Cd	114	147252.351	2.8	64.386	20.86750	0.496	2.4	ug/L
>	In	115	371828.474	0.4	396447.935				ug/L
	Sb	121	3397.393	2.1	62.334	0.34624	0.006	1.7	ug/L
	Sb	123	2568.666	1.3	53.222	0.34567	0.003	0.9	ug/L
	Ba	135	174.337	9.8	56.334	0.05207	0.007	12.5	ug/L
	Ba	137	261.673	6.4	65.001	0.05020	0.004	8.0	ug/L
>	Tb	159	430298.129	1.1	486746.910				ug/L
>	Ho	165	418146.227	0.4	457509.069				ug/L
	Tl	203	1074.747	7.7	48.667	0.13475	0.011	7.9	ug/L
	Tl	205	2557.085	2.9	63.334	0.14362	0.004	2.6	ug/L
	Pb	208	2300.478	1.8	537.345	0.07391	0.002	2.9	ug/L

Pb	206	592.694	5.3	135.336	0.07300	0.005	7.3	ug/L
Pb	207	521.355	5.7	124.336	0.07550	0.006	7.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	108.921				
>	Sc	45		98.186			
	V	51					
	Cr	52	109.312				
	Cr	53	130.150				
	Mn	55	102.808				
	Co	59	100.846				
	Ni	60	100.939				
	Ni	62	118.024				
	Cu	63	181.734				
	Cu	65	178.534				
	Zn	66	99.846				
	Zn	67	106.672				
	Zn	68	91.371				
>	Ge	72		101.897			
	As	75	104.173				
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	123.579				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107	103.242				
	Ag	109	100.035				
	Cd	111	101.739				
	Cd	114	104.337				
>	In	115		93.790			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		88.403			
>	Ho	165		91.396			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 20, 2006 10:22:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 6.010

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54184.808	1.0	51.334	46.65775	1.160	2.5	ug/L
	Al	27	451067.108	1.0	4379.197	51.00455	0.565	1.1	ug/L
>	Sc	45	408374.168	1.5	424656.486				ug/L
	V	51	846668.398	1.8	5557.188	51.84479	1.141	2.2	ug/L
	Cr	52	751674.328	2.5	18419.857	53.12858	0.572	1.1	ug/L
	Cr	53	88597.112	1.7	945.730	51.00775	0.467	0.9	ug/L
	Mn	55	1026191.645	2.8	692.369	53.15469	0.992	1.9	ug/L
	Co	59	865399.183	3.7	265.007	50.78390	1.026	2.0	ug/L
	Ni	60	193507.604	1.7	177.337	51.89463	1.630	3.1	ug/L
	Ni	62	29976.479	2.8	902.391	51.53905	0.440	0.9	ug/L
	Cu	63	446485.558	2.9	876.388	51.21178	0.768	1.5	ug/L
	Cu	65	220283.968	1.8	254.340	52.42564	1.061	2.0	ug/L
	Zn	66	123182.351	0.8	2747.481	49.71866	0.696	1.4	ug/L
	Zn	67	20554.199	2.4	502.020	48.16869	2.116	4.4	ug/L
	Zn	68	89493.546	0.6	1975.921	50.05742	1.373	2.7	ug/L
>	Ge	72	220268.204	2.2	227398.462				ug/L
	As	75	136809.956	0.9	127.002	49.63259	1.022	2.1	ug/L
	Se	77	10808.405	1.3	226.870	51.40224	0.730	1.4	ug/L
	Se	78	49385.408	0.7	16063.843	52.29138	2.036	3.9	mg/L
	Se	82	15391.402	1.3	661.626	51.91653	1.769	3.4	ug/L
	Kr	83	902.391	2.2	694.703				mg/L
	Y	89	416512.099	0.6	420425.593				ug/L
	Mo	95	287267.291	1.8	127.336	50.40894	1.168	2.3	ug/L
	Mo	97	182139.723	2.7	61.668	52.35950	3.029	5.8	ug/L
	Mo	98	473856.111	3.7	69.388	51.22641	1.876	3.7	ug/L
	Rh	103	363309.035	2.1	381957.031				ug/L
	Ag	107	706974.599	1.1	56.667	50.98317	1.793	3.5	ug/L
	Ag	109	662287.879	1.8	52.667	49.71163	1.284	2.6	ug/L
	Cd	111	161935.326	0.2	249.856	51.87833	1.933	3.7	ug/L
	Cd	114	364859.070	1.5	64.386	51.86911	1.445	2.8	ug/L
>	In	115	371029.654	4.0	396447.935				ug/L
	Sb	121	483417.334	2.0	62.334	50.27964	1.991	4.0	ug/L
	Sb	123	361233.977	1.3	53.222	49.71150	1.356	2.7	ug/L
	Ba	135	126188.856	0.7	56.334	51.45126	0.797	1.5	ug/L
	Ba	137	218465.085	0.4	65.001	52.34353	0.819	1.6	ug/L
>	Tb	159	441378.067	1.2	486746.910				ug/L
>	Ho	165	418050.236	1.1	457509.069				ug/L
	Tl	203	401759.814	0.6	48.667	52.55796	0.323	0.6	ug/L
	Tl	205	926033.626	1.6	63.334	53.23360	0.981	1.8	ug/L
	Pb	208	1278317.369	1.8	537.345	52.20322	0.406	0.8	ug/L

Pb	206	328117.225	2.7	135.336	51.04668	1.015	2.0	ug/L
Pb	207	276276.780	0.2	124.336	51.15287	0.556	1.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	93.316				
	Al	27	102.009				
>	Sc	45		96.166			
	V	51	103.690				
	Cr	52	106.257				
	Cr	53	102.015				
	Mn	55	106.309				
	Co	59	101.568				
	Ni	60	103.789				
	Ni	62	103.078				
	Cu	63	102.424				
	Cu	65	104.851				
	Zn	66	99.437				
	Zn	67	96.337				
	Zn	68	100.115				
>	Ge	72		96.864			
	As	75	99.265				
	Se	77	102.804				
	Se	78	104.583				
	Se	82	103.833				
	Kr	83					
	Y	89					
	Mo	95	100.818				
	Mo	97	104.719				
	Mo	98	102.453				
	Rh	103					
	Ag	107	101.966				
	Ag	109	99.423				
	Cd	111	103.757				
	Cd	114	103.738				
>	In	115		93.588			
	Sb	121	100.559				
	Sb	123	99.423				
	Ba	135	102.903				
	Ba	137	104.687				
>	Tb	159		90.679			
>	Ho	165		91.375			
	Tl	203	105.116				
	Tl	205	106.467				
	Pb	208	104.406				
	Pb	206	102.093				
	Pb	207	102.306				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 20, 2006 10:28:28
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 7.011

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	49.001	16.7	51.334	-0.00071	0.007	1000.1	ug/L
	Al	27	3558.796	3.5	4379.197	-0.07839	0.014	18.2	ug/L
>	Sc	45	412354.261	0.3	424656.486				ug/L
	V	51	4750.348	4.3	5557.188	-0.03939	0.013	34.0	ug/L
	Cr	52	16711.243	1.7	18419.857	-0.08421	0.023	27.0	ug/L
	Cr	53	1842.889	6.1	945.730	0.53258	0.064	11.9	ug/L
	Mn	55	667.367	1.8	692.369	-0.00079	0.001	105.0	ug/L
	Co	59	216.005	6.8	265.007	-0.00262	0.001	29.4	ug/L
	Ni	60	146.336	0.4	177.337	-0.00754	0.000	5.4	ug/L
	Ni	62	936.062	0.9	902.391	0.07974	0.012	15.3	ug/L
	Cu	63	831.717	4.6	876.388	-0.00372	0.004	101.5	ug/L
	Cu	65	223.672	3.0	254.340	-0.00636	0.002	29.0	ug/L
	Zn	66	2389.366	0.9	2747.481	-0.13002	0.004	2.7	ug/L
	Zn	67	541.023	4.8	502.020	0.10762	0.054	50.3	ug/L
	Zn	68	1748.201	3.7	1975.921	-0.11288	0.031	27.9	ug/L
>	Ge	72	224329.623	0.7	227398.462				ug/L
	As	75	213.338	4.9	127.002	0.03138	0.003	10.8	ug/L
	Se	77	266.471	4.0	226.870	0.20313	0.043	21.0	ug/L
	Se	78	15625.449	1.5	16063.843	-0.33701	0.197	58.4	mg/L
	Se	82	892.648	3.6	661.626	0.82863	0.098	11.8	ug/L
	Kr	83	899.391	1.4	694.703				mg/L
	Y	89	397898.315	1.0	420425.593				ug/L
	Mo	95	905.725	10.2	127.336	0.13267	0.017	12.9	ug/L
	Mo	97	513.688	9.8	61.668	0.12596	0.015	12.0	ug/L
	Mo	98	1282.244	12.7	69.388	0.12694	0.018	14.5	ug/L
	Rh	103	352492.417	1.2	381957.031				ug/L
	Ag	107	135.002	8.7	56.667	0.00558	0.001	15.8	ug/L
	Ag	109	138.336	13.8	52.667	0.00633	0.001	22.4	ug/L
	Cd	111	218.293	13.5	249.856	-0.00743	0.009	114.7	ug/L
	Cd	114	58.830	7.7	64.386	-0.00049	0.001	131.9	ug/L
>	In	115	384168.705	1.0	396447.935				ug/L
	Sb	121	974.067	13.0	62.334	0.09180	0.014	14.9	ug/L
	Sb	123	756.433	15.8	53.222	0.09374	0.017	18.0	ug/L
	Ba	135	51.334	18.9	56.334	0.00023	0.004	1760.8	ug/L
	Ba	137	67.001	11.9	65.001	0.00202	0.002	90.1	ug/L
>	Tb	159	438791.593	0.7	486746.910				ug/L
>	Ho	165	430432.912	1.9	457509.069				ug/L
	Tl	203	138.669	4.8	48.667	0.01180	0.001	4.3	ug/L
	Tl	205	267.340	19.4	63.334	0.01157	0.003	22.4	ug/L
	Pb	208	445.676	2.7	537.345	-0.00237	0.001	31.3	ug/L

Pb	206	117.669	6.4	135.336	-0.00144	0.001	99.4	ug/L
Pb	207	108.002	14.3	124.336	-0.00162	0.003	169.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.103			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.650			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.903			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		90.148			
>	Ho	165		94.082			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, November 20, 2006 10:34:26
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 8.012

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	112692.920	2.3	51.334	100.64980	4.118	4.1	ug/L
	Al	27	846264.859	1.4	4379.197	99.63363	0.874	0.9	ug/L
>	Sc	45	394007.032	1.8	424656.486				ug/L
	V	51	1611689.099	1.4	5557.188	102.60368	1.014	1.0	ug/L
	Cr	52	1389022.273	3.3	18419.857	102.92321	1.756	1.7	ug/L
	Cr	53	172362.675	2.4	945.730	103.39120	1.865	1.8	ug/L
	Mn	55	1872644.578	2.7	692.369	99.66114	2.026	2.0	ug/L
	Co	59	1614811.445	1.5	265.007	97.38080	2.020	2.1	ug/L
	Ni	60	382752.076	1.1	177.337	105.45051	1.344	1.3	ug/L
	Ni	62	56896.890	2.5	902.391	101.95105	1.323	1.3	ug/L
	Cu	63	856993.975	2.0	876.388	101.06460	0.877	0.9	ug/L
	Cu	65	416444.399	2.2	254.340	101.84907	2.385	2.3	ug/L
	Zn	66	235000.825	1.4	2747.481	98.47382	1.826	1.9	ug/L
	Zn	67	41510.882	0.6	502.020	101.14412	2.447	2.4	ug/L
	Zn	68	176245.166	2.1	1975.921	102.33670	1.338	1.3	ug/L
>	Ge	72	214448.970	1.8	227398.462				ug/L
	As	75	279595.080	1.8	127.002	104.21922	2.055	2.0	ug/L
	Se	77	20524.311	0.4	226.870	101.27411	1.710	1.7	ug/L
	Se	78	80691.285	0.3	16063.843	104.04874	2.773	2.7	mg/L
	Se	82	28714.186	0.5	661.626	101.51893	1.486	1.5	ug/L
	Kr	83	905.058	1.4	694.703				mg/L
	Y	89	393747.882	0.9	420425.593				ug/L
	Mo	95	564662.704	1.3	127.336	102.14072	1.277	1.3	ug/L
	Mo	97	357392.250	3.3	61.668	105.81251	3.299	3.1	ug/L
	Mo	98	878061.018	0.7	69.388	97.84632	0.937	1.0	ug/L
	Rh	103	353652.252	2.7	381957.031				ug/L
	Ag	107	1383999.833	0.9	56.667	102.83312	0.587	0.6	ug/L
	Ag	109	1291873.806	1.6	52.667	99.93378	1.288	1.3	ug/L
	Cd	111	318590.625	4.1	249.856	105.21956	4.096	3.9	ug/L
	Cd	114	692379.028	1.6	64.386	101.44004	1.651	1.6	ug/L
>	In	115	359796.636	0.4	396447.935				ug/L
	Sb	121	931802.840	0.6	62.334	99.85803	0.759	0.8	ug/L
	Sb	123	720378.088	1.5	53.222	102.16267	1.314	1.3	ug/L
	Ba	135	241754.680	1.8	56.334	99.48493	1.843	1.9	ug/L
	Ba	137	421936.006	1.1	65.001	102.05391	3.269	3.2	ug/L
>	Tb	159	437490.994	3.0	486746.910				ug/L
>	Ho	165	409033.553	0.9	457509.069				ug/L
	Tl	203	779903.850	1.7	48.667	104.28081	1.911	1.8	ug/L
	Tl	205	1737353.541	1.6	63.334	102.08244	2.298	2.3	ug/L
	Pb	208	2451156.643	2.1	537.345	102.33916	2.541	2.5	ug/L

Pb	206	643310.892	1.1	135.336	102.32453	1.707	1.7	ug/L
Pb	207	552511.511	2.1	124.336	104.56851	2.085	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.650				
	Al	27	99.634				
>	Sc	45		92.783			
	V	51	102.604				
	Cr	52	102.923				
	Cr	53	103.391				
	Mn	55	99.661				
	Co	59	97.381				
	Ni	60	105.451				
	Ni	62	101.951				
	Cu	63	101.065				
	Cu	65	101.849				
	Zn	66	98.474				
	Zn	67	101.144				
	Zn	68	102.337				
>	Ge	72		94.305			
	As	75	104.219				
	Se	77	101.274				
	Se	78					
	Se	82	101.519				
	Kr	83					
	Y	89					
	Mo	95	102.141				
	Mo	97	105.813				
	Mo	98	97.846				
	Rh	103					
	Ag	107	102.833				
	Ag	109	99.934				
	Cd	111	105.220				
	Cd	114	101.440				
>	In	115		90.755			
	Sb	121	99.858				
	Sb	123	102.163				
	Ba	135	99.485				
	Ba	137	102.054				
>	Tb	159		89.881			
>	Ho	165		89.404			
	Tl	203	104.281				
	Tl	205	102.082				
	Pb	208	102.339				
	Pb	206	102.325				
	Pb	207	104.569				

Elan 9000 Method 6020 - Summary Report

Sample ID: PBW-M3990143

Sample Date/Time: Monday, November 20, 2006 10:40:24
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\PBW-M3990143.013

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.001	4.5	51.334	0.01051	0.002	22.6	ug/L
	Al	27	6282.767	4.7	4379.197	0.26770	0.039	14.6	ug/L
>	Sc	45	391387.601	1.0	424656.486				ug/L
	V	51	4786.964	5.5	5557.188	-0.02142	0.019	90.4	ug/L
	Cr	52	16948.057	2.0	18419.857	-0.00209	0.029	1379.5	ug/L
	Cr	53	1383.795	3.1	945.730	0.31074	0.018	5.8	ug/L
	Mn	55	830.716	4.0	692.369	0.01023	0.001	12.8	ug/L
	Co	59	235.006	0.4	265.007	-0.00065	0.000	35.6	ug/L
	Ni	60	194.671	8.6	177.337	0.00848	0.004	50.0	ug/L
	Ni	62	879.722	0.4	902.391	0.08044	0.026	32.7	ug/L
	Cu	63	814.715	2.5	876.388	0.00029	0.002	747.9	ug/L
	Cu	65	228.672	7.5	254.340	-0.00170	0.005	317.4	ug/L
	Zn	66	1822.884	3.0	2747.481	-0.31157	0.035	11.3	ug/L
	Zn	67	418.681	4.9	502.020	-0.11616	0.069	59.2	ug/L
	Zn	68	1365.792	3.6	1975.921	-0.27788	0.032	11.6	ug/L
>	Ge	72	210780.480	2.0	227398.462				ug/L
	As	75	215.338	2.8	127.002	0.03705	0.003	7.7	ug/L
	Se	77	257.804	4.5	226.870	0.24065	0.039	16.3	ug/L
	Se	78	15536.498	1.5	16063.843	1.05265	0.744	70.6	mg/L
	Se	82	927.052	2.5	661.626	1.15333	0.030	2.6	ug/L
	Kr	83	958.065	2.0	694.703				mg/L
	Y	89	397456.187	0.5	420425.593				ug/L
	Mo	95	1383.135	29.2	127.336	0.22908	0.071	30.8	ug/L
	Mo	97	839.054	32.4	61.668	0.23139	0.078	33.6	ug/L
	Mo	98	2105.845	35.4	69.388	0.22727	0.081	35.5	ug/L
	Rh	103	347375.945	2.0	381957.031				ug/L
	Ag	107	170.670	2.2	56.667	0.00887	0.000	2.3	ug/L
	Ag	109	156.336	1.0	52.667	0.00841	0.000	1.7	ug/L
	Cd	111	217.531	10.5	249.856	-0.00301	0.007	236.0	ug/L
	Cd	114	74.314	24.1	64.386	0.00235	0.003	113.9	ug/L
>	In	115	359495.017	1.8	396447.935				ug/L
	Sb	121	1387.798	17.2	62.334	0.14255	0.023	16.4	ug/L
	Sb	123	981.296	19.1	53.222	0.13229	0.025	19.0	ug/L
	Ba	135	66.668	4.3	56.334	0.00715	0.002	25.3	ug/L
	Ba	137	89.335	8.4	65.001	0.00792	0.002	29.4	ug/L
>	Tb	159	429289.478	2.1	486746.910				ug/L
>	Ho	165	412977.309	1.8	457509.069				ug/L
	Tl	203	89.001	5.8	48.667	0.00596	0.001	9.0	ug/L
	Tl	205	158.670	4.7	63.334	0.00591	0.000	7.7	ug/L
	Pb	208	492.344	6.8	537.345	0.00031	0.002	515.7	ug/L

Pb	206	127.336	13.0	135.336	0.00085	0.003	347.5	ug/L
Pb	207	118.002	11.5	124.336	0.00107	0.002	218.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		92.166			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		92.692			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		90.679			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		88.196			
>	Ho	165		90.266			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: LCSW-M3990143

Sample Date/Time: Monday, November 20, 2006 10:46:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\LCSW-M3990143.014

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	21678.717	1.8	51.334	17.70331	0.419	2.4	ug/L
	Al	27	209169.960	1.3	4379.197	22.19799	0.401	1.8	ug/L
>	Sc	45	429907.658	0.8	424656.486				ug/L
	V	51	364239.963	1.4	5557.188	20.98974	0.298	1.4	ug/L
	Cr	52	328717.686	2.1	18419.857	21.32118	0.309	1.5	ug/L
	Cr	53	37351.565	0.9	945.730	20.10991	0.090	0.4	ug/L
	Mn	55	431908.019	2.4	692.369	22.17721	0.183	0.8	ug/L
	Co	59	361077.579	1.1	265.007	21.02544	0.512	2.4	ug/L
	Ni	60	83193.844	2.3	177.337	22.11407	0.904	4.1	ug/L
	Ni	62	12754.881	0.6	902.391	20.87372	0.538	2.6	ug/L
	Cu	63	191214.246	3.2	876.388	21.71398	0.862	4.0	ug/L
	Cu	65	92842.920	0.5	254.340	21.89169	0.424	1.9	ug/L
	Zn	66	46510.930	1.9	2747.481	17.93908	0.338	1.9	ug/L
	Zn	67	8365.948	0.9	502.020	18.75144	0.403	2.2	ug/L
	Zn	68	34700.460	1.9	1975.921	18.58348	0.532	2.9	ug/L
>	Ge	72	221983.890	1.8	227398.462				ug/L
	As	75	53073.014	1.2	127.002	19.07883	0.548	2.9	ug/L
	Se	77	3699.154	0.5	226.870	16.75183	0.252	1.5	ug/L
	Se	78	27632.979	0.8	16063.843	18.33431	0.974	5.3	mg/L
	Se	82	5655.652	0.3	661.626	17.49166	0.319	1.8	ug/L
	Kr	83	989.402	5.1	694.703				mg/L
	Y	89	426596.359	1.6	420425.593				ug/L
	Mo	95	122915.147	1.1	127.336	20.68454	0.419	2.0	ug/L
	Mo	97	80231.177	0.5	61.668	22.10228	0.141	0.6	ug/L
	Mo	98	198543.082	2.8	69.388	20.58946	0.430	2.1	ug/L
	Rh	103	370926.036	3.0	381957.031				ug/L
	Ag	107	308321.880	0.3	56.667	21.32522	0.168	0.8	ug/L
	Ag	109	281840.838	1.4	52.667	20.29376	0.136	0.7	ug/L
	Cd	111	63830.207	0.9	249.856	19.56776	0.365	1.9	ug/L
	Cd	114	144586.865	3.3	64.386	19.71122	0.475	2.4	ug/L
>	In	115	386481.506	1.0	396447.935				ug/L
	Sb	121	197197.285	0.7	62.334	19.66925	0.138	0.7	ug/L
	Sb	123	147446.244	0.2	53.222	19.46263	0.164	0.8	ug/L
	Ba	135	53163.586	1.1	56.334	20.97461	0.344	1.6	ug/L
	Ba	137	93163.227	1.7	65.001	21.60687	0.682	3.2	ug/L
>	Tb	159	455935.553	2.4	486746.910				ug/L
>	Ho	165	423552.904	0.3	457509.069				ug/L
	Tl	203	167417.016	0.6	48.667	21.61257	0.136	0.6	ug/L
	Tl	205	389336.587	1.4	63.334	22.08683	0.278	1.3	ug/L
	Pb	208	534509.974	0.7	537.345	21.53394	0.194	0.9	ug/L

Pb	206	135452.013	0.8	135.336	20.78923	0.115	0.6	ug/L
Pb	207	115322.152	2.0	124.336	21.06138	0.472	2.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.237			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.619			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.486			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		93.670			
>	Ho	165		92.578			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950470

Sample Date/Time: Monday, November 20, 2006 10:52:19
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950470.015

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	108.335	8.8	51.334	0.03374	0.007	19.8	ug/L
	Al	27	313906.197	5.1	4379.197	28.79062	1.455	5.1	ug/L
>	Sc	45	499845.253	1.3	424656.486				ug/L
	V	51	9682.445	9.9	5557.188	0.15828	0.049	31.3	ug/L
	Cr	52	90109.226	1.8	18419.857	4.04863	0.165	4.1	ug/L
	Cr	53	9832.229	1.4	945.730	4.14430	0.096	2.3	ug/L
	Mn	55	1776771.307	1.5	692.369	87.09722	1.385	1.6	ug/L
	Co	59	19095.044	0.8	265.007	1.04582	0.028	2.7	ug/L
	Ni	60	72251.538	3.7	177.337	18.28869	0.303	1.7	ug/L
	Ni	62	9850.253	2.7	902.391	14.95397	0.108	0.7	ug/L
	Cu	63	19886.567	0.9	876.388	2.06528	0.061	3.0	ug/L
	Cu	65	9576.601	4.0	254.340	2.09882	0.043	2.0	ug/L
	Zn	66	11084.145	1.2	2747.481	3.22763	0.041	1.3	ug/L
	Zn	67	2693.129	2.3	502.020	4.94498	0.052	1.0	ug/L
	Zn	68	11666.949	2.8	1975.921	5.21167	0.062	1.2	ug/L
>	Ge	72	232842.660	2.1	227398.462				ug/L
	As	75	1808.548	3.4	127.002	0.57630	0.008	1.4	ug/L
	Se	77	370.742	2.7	226.870	0.63556	0.020	3.1	ug/L
	Se	78	17198.327	1.9	16063.843	1.09708	0.168	15.3	mg/L
	Se	82	1214.555	2.1	661.626	1.78819	0.099	5.5	ug/L
	Kr	83	1060.745	1.6	694.703				mg/L
	Y	89	489670.595	0.4	420425.593				ug/L
	Mo	95	1468.811	3.7	127.336	0.22667	0.005	2.3	ug/L
	Mo	97	922.394	9.3	61.668	0.23765	0.018	7.4	ug/L
	Mo	98	2326.371	2.9	69.388	0.23463	0.008	3.6	ug/L
	Rh	103	363101.739	0.8	381957.031				ug/L
	Ag	107	130.669	9.1	56.667	0.00524	0.001	19.8	ug/L
	Ag	109	97.668	6.2	52.667	0.00335	0.001	18.1	ug/L
	Cd	111	616.737	4.3	249.856	0.11511	0.011	9.5	ug/L
	Cd	114	904.843	8.1	64.386	0.11508	0.011	9.9	ug/L
>	In	115	386149.095	2.5	396447.935				ug/L
	Sb	121	790.046	9.6	62.334	0.07291	0.008	11.5	ug/L
	Sb	123	596.308	7.5	53.222	0.07199	0.006	8.7	ug/L
	Ba	135	109663.630	0.7	56.334	43.78017	0.608	1.4	ug/L
	Ba	137	185183.094	2.2	65.001	43.44567	1.222	2.8	ug/L
>	Tb	159	450734.274	0.8	486746.910				ug/L
>	Ho	165	421211.218	2.0	457509.069				ug/L
	Tl	203	509.354	2.7	48.667	0.06031	0.000	0.7	ug/L
	Tl	205	1201.765	2.8	63.334	0.06528	0.003	5.0	ug/L
	Pb	208	3487.653	2.9	537.345	0.12145	0.007	5.8	ug/L

Pb	206	892.057	2.9	135.336	0.11864	0.007	5.6	ug/L
Pb	207	759.042	5.4	124.336	0.11860	0.010	8.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		117.706			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.394			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.402			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.601			
>	Ho	165		92.066			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950471

Sample Date/Time: Monday, November 20, 2006 10:58:16
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950471.016

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	117.669	12.9	51.334	0.03501	0.011	31.1	ug/L
	Al	27	3017078.421	1.2	4379.197	262.66020	6.227	2.4	ug/L
>	Sc	45	534586.360	2.6	424656.486				ug/L
	V	51	17743.489	5.6	5557.188	0.50619	0.051	10.1	ug/L
	Cr	52	142154.539	1.8	18419.857	6.58474	0.333	5.1	ug/L
	Cr	53	16378.578	1.0	945.730	6.75308	0.245	3.6	ug/L
	Mn	55	1269336.682	2.0	692.369	56.84637	1.109	2.0	ug/L
	Co	59	26161.602	1.5	265.007	1.31290	0.021	1.6	ug/L
	Ni	60	82733.494	0.6	177.337	19.14668	0.193	1.0	ug/L
	Ni	62	12842.687	2.4	902.391	18.11611	0.384	2.1	ug/L
	Cu	63	18361.392	1.3	876.388	1.72688	0.027	1.6	ug/L
	Cu	65	8758.023	3.0	254.340	1.74523	0.061	3.5	ug/L
	Zn	66	13912.747	2.3	2747.481	3.86326	0.090	2.3	ug/L
	Zn	67	2635.443	1.4	502.020	4.29923	0.054	1.3	ug/L
	Zn	68	12334.912	0.1	1975.921	4.99957	0.027	0.5	ug/L
>	Ge	72	254769.368	0.4	227398.462				ug/L
	As	75	2590.429	3.1	127.002	0.76843	0.029	3.7	ug/L
	Se	77	355.874	0.8	226.870	0.42676	0.012	2.9	ug/L
	Se	78	17947.887	0.9	16063.843	-0.06642	0.113	169.4	mg/L
	Se	82	1196.953	2.2	661.626	1.38609	0.086	6.2	ug/L
	Kr	83	1116.419	2.5	694.703				mg/L
	Y	89	505396.840	1.7	420425.593				ug/L
	Mo	95	1426.803	6.3	127.336	0.20418	0.014	7.0	ug/L
	Mo	97	840.384	1.4	61.668	0.20041	0.002	0.8	ug/L
	Mo	98	2150.281	4.6	69.388	0.20183	0.006	3.1	ug/L
	Rh	103	381748.524	2.5	381957.031				ug/L
	Ag	107	109.668	16.2	56.667	0.00330	0.001	38.9	ug/L
	Ag	109	75.334	4.3	52.667	0.00138	0.000	13.2	ug/L
	Cd	111	625.674	2.0	249.856	0.10534	0.001	0.9	ug/L
	Cd	114	991.173	3.4	64.386	0.11804	0.003	2.1	ug/L
>	In	115	412679.653	1.7	396447.935				ug/L
	Sb	121	565.025	3.8	62.334	0.04676	0.003	5.9	ug/L
	Sb	123	438.291	4.3	53.222	0.04735	0.002	4.7	ug/L
	Ba	135	42048.593	1.8	56.334	16.50509	0.407	2.5	ug/L
	Ba	137	72994.030	0.7	65.001	16.83980	0.127	0.8	ug/L
>	Tb	159	458094.779	1.0	486746.910				ug/L
>	Ho	165	443688.884	0.6	457509.069				ug/L
	Tl	203	232.006	10.6	48.667	0.02277	0.003	12.7	ug/L
	Tl	205	518.688	6.2	63.334	0.02476	0.002	6.7	ug/L
	Pb	208	15532.457	1.4	537.345	0.57784	0.005	0.9	ug/L

Pb	206	4119.726	2.3	135.336	0.58488	0.011	1.8	ug/L
Pb	207	3272.342	1.1	124.336	0.55002	0.007	1.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		125.887			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		112.037			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.094			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.114			
>	Ho	165		96.979			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950472

Sample Date/Time: Monday, November 20, 2006 11:04:14
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950472.017

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	110.669	23.0	51.334	0.03343	0.016	47.8	ug/L
	Al	27	1260212.164	7.4	4379.197	114.26829	5.719	5.0	ug/L
>	Sc	45	511444.937	2.5	424656.486				ug/L
	V	51	14975.431	2.2	5557.188	0.40753	0.005	1.3	ug/L
	Cr	52	41563.828	1.6	18419.857	1.12186	0.099	8.8	ug/L
	Cr	53	4248.793	3.1	945.730	1.44422	0.016	1.1	ug/L
	Mn	55	1712332.389	1.3	692.369	80.17112	1.178	1.5	ug/L
	Co	59	22523.291	1.2	265.007	1.18003	0.025	2.1	ug/L
	Ni	60	53053.274	2.5	177.337	12.81972	0.419	3.3	ug/L
	Ni	62	6563.650	1.0	902.391	8.95737	0.134	1.5	ug/L
	Cu	63	16446.050	2.5	876.388	1.61030	0.031	1.9	ug/L
	Cu	65	8585.506	0.8	254.340	1.78955	0.019	1.1	ug/L
	Zn	66	9697.070	1.5	2747.481	2.51645	0.019	0.8	ug/L
	Zn	67	1877.230	2.8	502.020	2.90349	0.138	4.8	ug/L
	Zn	68	8488.742	2.9	1975.921	3.28935	0.128	3.9	ug/L
>	Ge	72	243749.722	0.9	227398.462				ug/L
	As	75	3911.624	1.0	127.002	1.23855	0.013	1.0	ug/L
	Se	77	614.289	1.4	226.870	1.62770	0.031	1.9	ug/L
	Se	78	18268.121	2.9	16063.843	1.47081	0.976	66.4	mg/L
	Se	82	1569.081	1.4	661.626	2.73348	0.028	1.0	ug/L
	Kr	83	1121.087	4.1	694.703				mg/L
	Y	89	495619.081	0.5	420425.593				ug/L
	Mo	95	4702.373	0.6	127.336	0.75958	0.009	1.2	ug/L
	Mo	97	2834.844	4.1	61.668	0.75378	0.040	5.3	ug/L
	Mo	98	7358.153	0.8	69.388	0.74526	0.012	1.6	ug/L
	Rh	103	374979.631	0.2	381957.031				ug/L
	Ag	107	132.669	2.6	56.667	0.00522	0.000	6.3	ug/L
	Ag	109	109.335	6.5	52.667	0.00407	0.001	14.3	ug/L
	Cd	111	493.760	7.9	249.856	0.07469	0.010	13.9	ug/L
	Cd	114	723.464	7.0	64.386	0.08870	0.007	8.1	ug/L
>	In	115	392224.468	1.1	396447.935				ug/L
	Sb	121	679.368	1.7	62.334	0.06074	0.002	2.9	ug/L
	Sb	123	489.125	2.4	53.222	0.05680	0.002	3.8	ug/L
	Ba	135	39605.301	1.5	56.334	15.57587	0.446	2.9	ug/L
	Ba	137	67293.284	0.4	65.001	15.55412	0.245	1.6	ug/L
>	Tb	159	457246.317	1.5	486746.910				ug/L
>	Ho	165	432684.736	0.8	457509.069				ug/L
	Tl	203	456.017	3.9	48.667	0.05182	0.002	4.1	ug/L
	Tl	205	1038.075	3.0	63.334	0.05434	0.002	3.8	ug/L
	Pb	208	12499.106	1.0	537.345	0.47332	0.003	0.6	ug/L

Pb	206	3226.324	2.8	135.336	0.46588	0.010	2.0	ug/L
Pb	207	2713.136	2.1	124.336	0.46452	0.012	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		120.437			
	V	51		120% ok SD initial			
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.191			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.935			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		93.939			
>	Ho	165		94.574			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950473

Sample Date/Time: Monday, November 20, 2006 11:10:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950473.018

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	67.668	7.0	51.334	0.00444	0.003	74.7	ug/L
	Al	27	35950.415	1.4	4379.197	2.82558	0.071	2.5	ug/L
>	Sc	45	506851.718	0.7	424656.486				ug/L
	V	51	9089.376	1.7	5557.188	0.12194	0.006	4.5	ug/L
	Cr	52	28490.571	0.4	18419.857	0.37952	0.016	4.1	ug/L
	Cr	53	2838.845	1.4	945.730	0.80144	0.013	1.6	ug/L
	Mn	55	6332221.664	0.8	692.369	282.87181	3.251	1.1	ug/L
	Co	59	7977.909	6.8	265.007	0.38871	0.029	7.4	ug/L
	Ni	60	15780.453	5.9	177.337	3.60307	0.204	5.7	ug/L
	Ni	62	812.381	5.8	902.391	-0.30804	0.068	22.2	ug/L
	Cu	63	8402.993	5.3	876.388	0.73493	0.046	6.3	ug/L
	Cu	65	4060.697	1.8	254.340	0.77512	0.017	2.2	ug/L
	Zn	66	4306.822	0.6	2747.481	0.43346	0.006	1.4	ug/L
	Zn	67	1287.112	2.5	502.020	1.49501	0.075	5.0	ug/L
	Zn	68	5652.640	1.5	1975.921	1.69026	0.045	2.7	ug/L
>	Ge	72	255543.870	0.3	227398.462				ug/L
	As	75	1344.789	3.1	127.002	0.37612	0.013	3.4	ug/L
	Se	77	548.351	1.1	226.870	1.22749	0.026	2.2	ug/L
	Se	78	18955.611	0.4	16063.843	1.20328	0.063	5.3	mg/L
	Se	82	1449.459	0.3	661.626	2.14069	0.026	1.2	ug/L
	Kr	83	1133.422	3.0	694.703				mg/L
	Y	89	482817.671	1.1	420425.593				ug/L
	Mo	95	5946.180	1.0	127.336	0.89848	0.010	1.1	ug/L
	Mo	97	3581.138	0.7	61.668	0.88979	0.017	1.9	ug/L
	Mo	98	8881.026	1.5	69.388	0.83890	0.021	2.5	ug/L
	Rh	103	391533.757	4.0	381957.031				ug/L
	Ag	107	72.334	6.4	56.667	0.00077	0.000	30.9	ug/L
	Ag	109	58.001	24.0	52.667	0.00013	0.001	670.4	ug/L
	Cd	111	449.532	6.3	249.856	0.05199	0.007	13.6	ug/L
	Cd	114	290.686	53.1	64.386	0.02791	0.019	69.7	ug/L
>	In	115	421032.946	1.3	396447.935				ug/L
	Sb	121	1402.465	2.0	62.334	0.12242	0.004	3.5	ug/L
	Sb	123	1079.610	1.7	53.222	0.12400	0.002	1.5	ug/L
	Ba	135	58854.022	0.6	56.334	22.27688	0.219	1.0	ug/L
	Ba	137	105394.773	1.5	65.001	23.44567	0.275	1.2	ug/L
>	Tb	159	475168.181	0.9	486746.910				ug/L
>	Ho	165	447037.190	0.5	457509.069				ug/L
	Tl	203	467.684	5.4	48.667	0.05140	0.003	5.9	ug/L
	Tl	205	1070.747	9.7	63.334	0.05422	0.005	9.8	ug/L
	Pb	208	828.024	4.3	537.345	0.01157	0.001	10.4	ug/L

Pb	206	222.339	7.1	135.336	0.01312	0.002	18.2	ug/L
Pb	207	192.004	6.0	124.336	0.01221	0.002	15.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		119.356			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		112.377			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.201			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.621			
>	Ho	165		97.711			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950474

Sample Date/Time: Monday, November 20, 2006 11:16:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950474.019

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	81.335	8.7	51.334	0.01255	0.004	31.9	ug/L
	Al	27	517748.123	9.3	4379.197	46.05688	5.094	11.1	ug/L
>	Sc	45	519185.186	1.7	424656.486				ug/L
	V	51	10210.062	15.4	5557.188	0.16515	0.071	43.3	ug/L
	Cr	52	87185.691	2.0	18419.857	3.68208	0.013	0.3	ug/L
	Cr	53	9472.810	1.6	945.730	3.80674	0.139	3.6	ug/L
	Mn	55	524127.389	1.0	692.369	24.31104	0.461	1.9	ug/L
	Co	59	6101.965	5.0	265.007	0.30591	0.015	4.8	ug/L
	Ni	60	30145.138	4.7	177.337	7.20289	0.367	5.1	ug/L
	Ni	62	3744.212	1.7	902.391	4.39519	0.162	3.7	ug/L
	Cu	63	13491.715	1.2	876.388	1.29182	0.007	0.5	ug/L
	Cu	65	6489.592	2.3	254.340	1.32686	0.046	3.5	ug/L
	Zn	66	26398.015	1.5	2747.481	8.66014	0.236	2.7	ug/L
	Zn	67	4709.044	1.8	502.020	8.95543	0.106	1.2	ug/L
	Zn	68	22699.102	1.2	1975.921	10.52860	0.206	2.0	ug/L
>	Ge	72	245815.162	1.1	227398.462				ug/L
	As	75	1428.137	5.6	127.002	0.41989	0.026	6.1	ug/L
	Se	77	433.345	0.3	226.870	0.81826	0.025	3.1	ug/L
	Se	78	18220.977	1.3	16063.843	1.18639	0.351	29.6	mg/L
	Se	82	1284.232	1.8	661.626	1.79365	0.045	2.5	ug/L
	Kr	83	1133.088	4.1	694.703				mg/L
	Y	89	492743.538	0.6	420425.593				ug/L
	Mo	95	2650.448	2.3	127.336	0.39969	0.019	4.9	ug/L
	Mo	97	1675.519	6.0	61.668	0.41868	0.033	7.9	ug/L
	Mo	98	4069.719	2.7	69.388	0.39067	0.016	4.0	ug/L
	Rh	103	391137.273	3.4	381957.031				ug/L
	Ag	107	76.001	12.6	56.667	0.00114	0.001	63.2	ug/L
	Ag	109	65.001	10.1	52.667	0.00072	0.001	75.8	ug/L
	Cd	111	374.223	5.6	249.856	0.03344	0.005	14.6	ug/L
	Cd	114	233.751	18.9	64.386	0.02153	0.006	28.4	ug/L
>	In	115	410503.860	2.3	396447.935				ug/L
	Sb	121	673.367	1.3	62.334	0.05720	0.001	1.1	ug/L
	Sb	123	505.228	6.6	53.222	0.05591	0.003	4.8	ug/L
	Ba	135	66209.025	1.8	56.334	25.34756	0.457	1.8	ug/L
	Ba	137	115723.470	0.5	65.001	26.04399	0.718	2.8	ug/L
>	Tb	159	469962.048	2.9	486746.910				ug/L
>	Ho	165	447385.544	1.6	457509.069				ug/L
	Tl	203	419.015	4.0	48.667	0.04539	0.001	2.9	ug/L
	Tl	205	977.067	6.5	63.334	0.04916	0.003	6.8	ug/L
	Pb	208	3213.937	1.2	537.345	0.10264	0.001	0.7	ug/L

Pb	206	846.718	1.2	135.336	0.10392	0.002	2.1	ug/L
Pb	207	705.037	0.9	124.336	0.10101	0.003	2.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		122.260			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.099			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.545			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.552			
>	Ho	165		97.787			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950475

Sample Date/Time: Monday, November 20, 2006 11:22:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950475.020

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	94.335	7.4	51.334	0.02331	0.005	20.1	ug/L
	Al	27	699023.467	1.0	4379.197	64.15686	0.648	1.0	ug/L
>	Sc	45	504048.748	0.3	424656.486				ug/L
	V	51	11083.017	3.6	5557.188	0.22395	0.018	8.0	ug/L
	Cr	52	31572.692	1.8	18419.857	0.56941	0.027	4.8	ug/L
	Cr	53	3161.631	1.2	945.730	0.96096	0.014	1.4	ug/L
	Mn	55	9211825.070	1.2	692.369	426.53063	7.660	1.8	ug/L
	Co	59	26349.202	2.3	265.007	1.36680	0.022	1.6	ug/L
	Ni	60	50026.909	1.8	177.337	11.94604	0.270	2.3	ug/L
	Ni	62	5526.220	1.1	902.391	7.19622	0.164	2.3	ug/L
	Cu	63	225621.175	2.0	876.388	23.06566	0.390	1.7	ug/L
	Cu	65	109566.071	2.9	254.340	23.26174	0.856	3.7	ug/L
	Zn	66	471567.948	1.1	2747.481	172.66047	2.227	1.3	ug/L
	Zn	67	71012.676	0.9	502.020	151.02569	2.527	1.7	ug/L
	Zn	68	334046.042	3.0	1975.921	169.43304	6.340	3.7	ug/L
>	Ge	72	246566.066	0.7	227398.462				ug/L
	As	75	4174.754	0.9	127.002	1.30918	0.005	0.4	ug/L
	Se	77	616.223	3.0	226.870	1.60571	0.098	6.1	ug/L
	Se	78	18433.595	0.7	16063.843	1.40347	0.333	23.7	mg/L
	Se	82	1622.891	1.7	661.626	2.84633	0.126	4.4	ug/L
	Kr	83	1150.091	2.9	694.703				mg/L
	Y	89	497564.326	1.7	420425.593				ug/L
	Mo	95	9828.224	0.9	127.336	1.54073	0.029	1.9	ug/L
	Mo	97	6027.239	1.3	61.668	1.55069	0.008	0.5	ug/L
	Mo	98	15848.206	0.5	69.388	1.54397	0.018	1.2	ug/L
	Rh	103	384161.272	2.5	381957.031				ug/L
	Ag	107	413.348	4.5	56.667	0.02315	0.001	5.1	ug/L
	Ag	109	366.012	3.2	52.667	0.02117	0.001	5.2	ug/L
	Cd	111	622.596	3.1	249.856	0.10574	0.004	4.2	ug/L
	Cd	114	957.452	3.9	64.386	0.11467	0.006	5.2	ug/L
>	In	115	409743.391	1.2	396447.935				ug/L
	Sb	121	60706.924	0.3	62.334	5.70754	0.076	1.3	ug/L
	Sb	123	44457.131	0.4	53.222	5.53062	0.087	1.6	ug/L
	Ba	135	141707.463	0.5	56.334	54.83296	1.121	2.0	ug/L
	Ba	137	237518.160	0.8	65.001	54.00021	0.692	1.3	ug/L
>	Tb	159	465144.481	1.5	486746.910				ug/L
>	Ho	165	454598.107	1.5	457509.069				ug/L
	Tl	203	867.054	2.3	48.667	0.09853	0.004	3.9	ug/L
	Tl	205	2135.962	4.3	63.334	0.10963	0.006	5.5	ug/L
	Pb	208	51986.376	1.3	537.345	1.93350	0.047	2.4	ug/L

Pb	206	13095.412	0.7	135.336	1.85538	0.028	1.5	ug/L
Pb	207	11142.224	2.0	124.336	1.87721	0.058	3.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		118.696			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.429			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.354			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.562			
>	Ho	165		99.364			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950476

Sample Date/Time: Monday, November 20, 2006 11:28:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950476.021

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	113.669	4.3	51.334	0.03616	0.002	6.0	ug/L
	Al	27	380941.840	2.8	4379.197	34.47068	1.184	3.4	ug/L
>	Sc	45	508100.362	1.6	424656.486				ug/L
	V	51	10358.957	3.7	5557.188	0.18378	0.020	10.9	ug/L
	Cr	52	29364.951	1.8	18419.857	0.42623	0.013	3.0	ug/L
	Cr	53	2950.552	0.7	945.730	0.85075	0.031	3.7	ug/L
	Mn	55	8915417.885	1.6	692.369	413.98580	11.016	2.7	ug/L
	Co	59	25958.968	1.6	265.007	1.35019	0.018	1.3	ug/L
	Ni	60	48275.589	1.2	177.337	11.55844	0.230	2.0	ug/L
	Ni	62	5018.895	2.1	902.391	6.41383	0.061	0.9	ug/L
	Cu	63	174780.736	1.0	876.388	17.89630	0.166	0.9	ug/L
	Cu	65	82497.512	3.6	254.340	17.55232	0.863	4.9	ug/L
	Zn	66	393047.378	1.0	2747.481	144.12415	1.208	0.8	ug/L
	Zn	67	62017.258	2.0	502.020	132.10205	2.310	1.7	ug/L
	Zn	68	286130.073	2.3	1975.921	145.38128	4.868	3.3	ug/L
>	Ge	72	245900.903	1.5	227398.462				ug/L
	As	75	4098.717	4.7	127.002	1.28833	0.066	5.1	ug/L
	Se	77	633.557	1.7	226.870	1.68791	0.024	1.4	ug/L
	Se	78	18941.597	1.0	16063.843	2.18033	0.649	29.8	mg/L
	Se	82	1617.690	1.2	661.626	2.84453	0.140	4.9	ug/L
	Kr	83	1165.760	2.1	694.703				mg/L
	Y	89	494386.668	2.1	420425.593				ug/L
	Mo	95	9137.766	1.2	127.336	1.40194	0.031	2.2	ug/L
	Mo	97	5479.522	1.1	61.668	1.37995	0.031	2.3	ug/L
	Mo	98	14017.704	4.2	69.388	1.33689	0.039	2.9	ug/L
	Rh	103	385945.178	0.5	381957.031				ug/L
	Ag	107	238.006	12.0	56.667	0.01141	0.002	17.5	ug/L
	Ag	109	192.004	6.9	52.667	0.00908	0.001	8.7	ug/L
	Cd	111	615.822	3.2	249.856	0.10018	0.004	4.3	ug/L
	Cd	114	849.089	6.5	64.386	0.09845	0.006	5.8	ug/L
>	In	115	418124.889	1.2	396447.935				ug/L
	Sb	121	33911.550	2.0	62.334	3.12176	0.083	2.6	ug/L
	Sb	123	25926.728	1.2	53.222	3.15742	0.015	0.5	ug/L
	Ba	135	135824.706	1.0	56.334	51.83526	0.912	1.8	ug/L
	Ba	137	240144.045	0.2	65.001	53.85179	0.464	0.9	ug/L
>	Tb	159	471551.622	0.8	486746.910				ug/L
>	Ho	165	456365.919	1.5	457509.069				ug/L
	Tl	203	850.052	1.8	48.667	0.09608	0.003	3.1	ug/L
	Tl	205	2007.596	4.8	63.334	0.10236	0.004	3.5	ug/L
	Pb	208	33509.517	0.1	537.345	1.23420	0.017	1.4	ug/L

Pb	206	8575.162	1.0	135.336	1.20355	0.021	1.7	ug/L
Pb	207	7350.982	1.8	124.336	1.22621	0.020	1.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		119.650			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.137			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.468			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.878			
>	Ho	165		99.750			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 20, 2006 11:34:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 6.022

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61809.680	1.1	51.334	50.89309	1.172	2.3	ug/L
	Al	27	501697.471	0.5	4379.197	54.27735	0.828	1.5	ug/L
>	Sc	45	427097.936	1.6	424656.486				ug/L
	V	51	880895.769	0.8	5557.188	51.57576	0.830	1.6	ug/L
	Cr	52	759854.893	1.6	18419.857	51.32226	1.070	2.1	ug/L
	Cr	53	90130.384	3.4	945.730	49.59286	0.981	2.0	ug/L
	Mn	55	1048897.237	1.8	692.369	52.52004	0.368	0.7	ug/L
	Co	59	857867.137	2.8	265.007	48.66650	0.563	1.2	ug/L
	Ni	60	195892.973	2.1	177.337	50.76212	0.469	0.9	ug/L
	Ni	62	30111.318	3.6	902.391	49.99379	0.967	1.9	ug/L
	Cu	63	454442.505	3.2	876.388	50.38040	0.767	1.5	ug/L
	Cu	65	219390.889	1.9	254.340	50.46951	1.111	2.2	ug/L
	Zn	66	128184.431	2.7	2747.481	50.00452	0.511	1.0	ug/L
	Zn	67	21443.780	2.5	502.020	48.55586	0.380	0.8	ug/L
	Zn	68	92404.173	1.7	1975.921	49.95899	1.626	3.3	ug/L
>	Ge	72	227859.025	1.7	227398.462				ug/L
	As	75	140967.610	1.7	127.002	49.44334	1.722	3.5	ug/L
	Se	77	11251.993	1.7	226.870	51.72915	0.548	1.1	ug/L
	Se	78	49730.110	1.1	16063.843	50.25283	1.715	3.4	mg/L
	Se	82	16311.418	1.7	661.626	53.22041	0.787	1.5	ug/L
	Kr	83	1046.076	2.1	694.703				mg/L
	Y	89	442476.225	2.2	420425.593				ug/L
	Mo	95	303066.748	2.5	127.336	50.35932	0.611	1.2	ug/L
	Mo	97	194548.234	2.9	61.668	52.93580	2.009	3.8	ug/L
	Mo	98	498077.234	3.6	69.388	50.98390	0.847	1.7	ug/L
	Rh	103	376966.404	0.4	381957.031				ug/L
	Ag	107	748420.388	0.5	56.667	51.10651	0.989	1.9	ug/L
	Ag	109	705849.698	2.0	52.667	50.17021	0.355	0.7	ug/L
	Cd	111	173129.360	2.6	249.856	52.53414	2.377	4.5	ug/L
	Cd	114	384944.838	3.3	64.386	51.80994	0.949	1.8	ug/L
>	In	115	391578.701	2.0	396447.935				ug/L
	Sb	121	515677.408	2.2	62.334	50.77553	0.691	1.4	ug/L
	Sb	123	383744.128	0.8	53.222	50.01049	0.654	1.3	ug/L
	Ba	135	135910.664	2.1	56.334	52.12977	0.883	1.7	ug/L
	Ba	137	230227.929	1.9	65.001	51.89129	0.819	1.6	ug/L
>	Tb	159	469129.413	0.7	486746.910				ug/L
>	Ho	165	439814.144	1.0	457509.069				ug/L
	Tl	203	417347.116	0.7	48.667	51.89451	0.247	0.5	ug/L
	Tl	205	984068.828	1.0	63.334	53.76707	0.216	0.4	ug/L
	Pb	208	1350668.974	2.0	537.345	52.42841	0.642	1.2	ug/L

Pb	206	347046.880	2.9	135.336	51.32169	1.225	2.4	ug/L
Pb	207	291019.035	0.8	124.336	51.21732	0.832	1.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	101.786				
	Al	27	108.555				
>	Sc	45		100.575			
	V	51	103.152				
	Cr	52	102.645				
	Cr	53	99.186				
	Mn	55	105.040				
	Co	59	97.333				
	Ni	60	101.524				
	Ni	62	99.988				
	Cu	63	100.761				
	Cu	65	100.939				
	Zn	66	100.009				
	Zn	67	97.112				
	Zn	68	99.918				
>	Ge	72		100.203			
	As	75	98.887				
	Se	77	103.458				
	Se	78	100.506				
	Se	82	106.441				
	Kr	83					
	Y	89					
	Mo	95	100.719				
	Mo	97	105.872				
	Mo	98	101.968				
	Rh	103					
	Ag	107	102.213				
	Ag	109	100.340				
	Cd	111	105.068				
	Cd	114	103.620				
>	In	115		98.772			
	Sb	121	101.551				
	Sb	123	100.021				
	Ba	135	104.260				
	Ba	137	103.783				
>	Tb	159		96.381			
>	Ho	165		96.132			
	Tl	203	103.789				
	Tl	205	107.534				
	Pb	208	104.857				
	Pb	206	102.643				
	Pb	207	102.435				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 20, 2006 11:40:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 7.023

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	48.667	8.6	51.334	-0.00156	0.004	251.2	ug/L
	Al	27	3644.500	2.1	4379.197	-0.07451	0.004	5.3	ug/L
>	Sc	45	418242.347	1.7	424656.486				ug/L
	V	51	5436.101	1.5	5557.188	-0.00221	0.004	191.5	ug/L
	Cr	52	17998.264	1.2	18419.857	-0.00985	0.029	296.5	ug/L
	Cr	53	1037.742	2.1	945.730	0.06036	0.005	8.6	ug/L
	Mn	55	638.698	1.6	692.369	-0.00195	0.001	46.0	ug/L
	Co	59	174.004	4.0	265.007	-0.00495	0.000	8.8	ug/L
	Ni	60	158.670	10.1	177.337	-0.00392	0.004	101.9	ug/L
	Ni	62	205.338	5.1	902.391	-1.18773	0.019	1.6	ug/L
	Cu	63	358.678	0.8	876.388	-0.05672	0.000	0.9	ug/L
	Cu	65	260.340	6.4	254.340	0.00276	0.004	143.2	ug/L
	Zn	66	2381.698	3.8	2747.481	-0.12454	0.029	23.1	ug/L
	Zn	67	468.351	3.4	502.020	-0.05331	0.037	69.4	ug/L
	Zn	68	1785.543	2.6	1975.921	-0.08247	0.038	46.5	ug/L
>	Ge	72	222318.663	1.3	227398.462				ug/L
	As	75	144.336	10.8	127.002	0.00731	0.006	86.0	ug/L
	Se	77	238.470	4.7	226.870	0.08008	0.049	61.2	ug/L
	Se	78	15592.175	0.9	16063.843	-0.17125	0.246	143.6	mg/L
	Se	82	1063.601	2.0	661.626	1.45236	0.029	2.0	ug/L
	Kr	83	1070.746	2.8	694.703				mg/L
	Y	89	425536.359	2.4	420425.593				ug/L
	Mo	95	525.022	15.8	127.336	0.06527	0.013	20.4	ug/L
	Mo	97	302.009	19.5	61.668	0.06456	0.016	24.0	ug/L
	Mo	98	731.021	20.1	69.388	0.06688	0.015	21.8	ug/L
	Rh	103	373961.119	2.0	381957.031				ug/L
	Ag	107	136.669	18.0	56.667	0.00539	0.002	30.6	ug/L
	Ag	109	109.335	6.7	52.667	0.00398	0.000	12.4	ug/L
	Cd	111	237.443	3.1	249.856	-0.00372	0.002	66.8	ug/L
	Cd	114	61.609	9.4	64.386	-0.00037	0.001	202.2	ug/L
>	In	115	396445.115	0.4	396447.935				ug/L
	Sb	121	898.058	13.4	62.334	0.08126	0.011	14.0	ug/L
	Sb	123	692.851	13.8	53.222	0.08230	0.012	14.5	ug/L
	Ba	135	49.334	10.2	56.334	-0.00209	0.002	96.3	ug/L
	Ba	137	67.001	8.3	65.001	0.00084	0.001	173.2	ug/L
>	Tb	159	473985.498	1.4	486746.910				ug/L
>	Ho	165	443723.011	1.3	457509.069				ug/L
	Tl	203	60.001	15.3	48.667	0.00157	0.001	66.0	ug/L
	Tl	205	112.669	8.2	63.334	0.00277	0.000	15.4	ug/L
	Pb	208	399.007	3.3	537.345	-0.00470	0.001	14.7	ug/L

Pb	206	116.335	4.7	135.336	-0.00218	0.001	45.4	ug/L
Pb	207	95.335	6.7	124.336	-0.00440	0.001	29.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.490			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.766			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.999			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.378			
>	Ho	165		96.987			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477

Sample Date/Time: Monday, November 20, 2006 11:45:58
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477.024

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	85.668	9.4	51.334	0.01595	0.007	43.2	ug/L
	Al	27	33926.602	1.4	4379.197	2.58245	0.037	1.4	ug/L
>	Sc	45	516328.424	2.5	424656.486				ug/L
	V	51	9415.129	2.7	5557.188	0.12953	0.001	0.9	ug/L
	Cr	52	27733.021	1.5	18419.857	0.30649	0.058	18.8	ug/L
	Cr	53	2442.049	2.1	945.730	0.59498	0.038	6.4	ug/L
	Mn	55	6576222.642	1.4	692.369	305.89519	4.183	1.4	ug/L
	Co	59	12345.598	2.4	265.007	0.63549	0.016	2.6	ug/L
	Ni	60	38238.420	5.5	177.337	9.16270	0.510	5.6	ug/L
	Ni	62	3100.608	2.2	902.391	3.38074	0.112	3.3	ug/L
	Cu	63	7590.867	2.8	876.388	0.68543	0.021	3.1	ug/L
	Cu	65	4201.768	2.1	254.340	0.83968	0.019	2.3	ug/L
	Zn	66	26303.051	1.9	2747.481	8.63955	0.195	2.3	ug/L
	Zn	67	5584.594	2.5	502.020	10.85774	0.314	2.9	ug/L
	Zn	68	24569.750	1.4	1975.921	11.50574	0.169	1.5	ug/L
>	Ge	72	245412.281	0.1	227398.462				ug/L
	As	75	7409.369	3.6	127.002	2.36943	0.087	3.7	ug/L
	Se	77	451.612	1.7	226.870	0.90075	0.033	3.6	ug/L
	Se	78	18386.765	2.0	16063.843	1.45693	0.539	37.0	mg/L
	Se	82	1399.851	0.6	661.626	2.16547	0.029	1.3	ug/L
	Kr	83	1185.096	3.0	694.703				mg/L
	Y	89	502373.646	3.6	420425.593				ug/L
	Mo	95	10884.214	2.2	127.336	1.61457	0.060	3.7	ug/L
	Mo	97	6695.423	2.2	61.668	1.63019	0.064	3.9	ug/L
	Mo	98	16513.581	1.5	69.388	1.52155	0.058	3.8	ug/L
	Rh	103	401822.899	1.5	381957.031				ug/L
	Ag	107	92.001	13.6	56.667	0.00184	0.001	34.8	ug/L
	Ag	109	63.668	6.5	52.667	0.00040	0.000	87.6	ug/L
	Cd	111	548.837	2.1	249.856	0.07575	0.007	9.0	ug/L
	Cd	114	555.302	14.1	64.386	0.05901	0.010	16.1	ug/L
>	In	115	433438.928	2.6	396447.935				ug/L
	Sb	121	987.069	10.1	62.334	0.08194	0.011	13.7	ug/L
	Sb	123	736.612	5.9	53.222	0.07998	0.007	8.7	ug/L
	Ba	135	166546.319	1.4	56.334	61.73683	0.432	0.7	ug/L
	Ba	137	297217.582	0.8	65.001	64.74766	1.023	1.6	ug/L
>	Tb	159	485448.286	0.7	486746.910				ug/L
>	Ho	165	462529.270	0.9	457509.069				ug/L
	Tl	203	470.685	5.3	48.667	0.04986	0.003	6.7	ug/L
	Tl	205	1042.742	1.2	63.334	0.05086	0.001	2.3	ug/L
	Pb	208	9529.540	1.5	537.345	0.33183	0.004	1.2	ug/L

Pb	206	2480.394	2.3	135.336	0.32967	0.006	1.8	ug/L
Pb	207	2077.613	3.0	124.336	0.32675	0.010	3.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		121.587			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.922			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.331			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.733			
>	Ho	165		101.097			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477D

Sample Date/Time: Monday, November 20, 2006 11:51:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477D.025

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	86.001	9.3	51.334	0.01454	0.005	37.1	ug/L
	Al	27	35958.782	1.2	4379.197	2.68073	0.082	3.1	ug/L
>	Sc	45	530278.794	1.6	424656.486				ug/L
	V	51	9226.289	8.3	5557.188	0.10892	0.043	39.2	ug/L
	Cr	52	26577.642	4.7	18419.857	0.20032	0.093	46.2	ug/L
	Cr	53	2437.714	2.8	945.730	0.56305	0.028	5.0	ug/L
	Mn	55	6653730.398	1.7	692.369	296.01422	10.115	3.4	ug/L
	Co	59	12275.492	1.6	265.007	0.60350	0.016	2.6	ug/L
	Ni	60	36349.552	4.0	177.337	8.32722	0.450	5.4	ug/L
	Ni	62	3170.635	2.7	902.391	3.27267	0.201	6.2	ug/L
	Cu	63	7671.273	1.6	876.388	0.65899	0.008	1.1	ug/L
	Cu	65	4130.399	3.0	254.340	0.78603	0.039	4.9	ug/L
	Zn	66	16830.151	2.0	2747.481	4.86166	0.232	4.8	ug/L
	Zn	67	3919.295	3.7	502.020	6.90641	0.440	6.4	ug/L
	Zn	68	17181.208	2.8	1975.921	7.33185	0.295	4.0	ug/L
>	Ge	72	256697.738	1.9	227398.462				ug/L
	As	75	7225.537	0.8	127.002	2.20669	0.053	2.4	ug/L
	Se	77	455.612	2.6	226.870	0.83148	0.066	7.9	ug/L
	Se	78	17751.655	0.4	16063.843	-0.50042	0.482	96.4	mg/L
	Se	82	1419.254	0.8	661.626	2.03070	0.087	4.3	ug/L
	Kr	83	1219.768	5.0	694.703				mg/L
	Y	89	519125.397	2.6	420425.593				ug/L
	Mo	95	10467.342	1.4	127.336	1.57208	0.030	1.9	ug/L
	Mo	97	6439.552	0.7	61.668	1.58740	0.017	1.1	ug/L
	Mo	98	16912.312	1.2	69.388	1.57826	0.020	1.3	ug/L
	Rh	103	396969.551	1.0	381957.031				ug/L
	Ag	107	92.668	2.5	56.667	0.00197	0.000	7.2	ug/L
	Ag	109	68.668	19.6	52.667	0.00077	0.001	116.2	ug/L
	Cd	111	500.070	3.3	249.856	0.06410	0.006	8.7	ug/L
	Cd	114	533.200	21.3	64.386	0.05721	0.014	25.2	ug/L
>	In	115	427767.858	0.7	396447.935				ug/L
	Sb	121	778.711	5.9	62.334	0.06414	0.004	6.5	ug/L
	Sb	123	571.834	4.7	53.222	0.06136	0.003	4.8	ug/L
	Ba	135	171416.506	0.8	56.334	64.14371	1.056	1.6	ug/L
	Ba	137	292725.980	0.8	65.001	64.36461	1.016	1.6	ug/L
>	Tb	159	480961.111	0.9	486746.910				ug/L
>	Ho	165	462333.693	0.5	457509.069				ug/L
	Tl	203	438.016	7.5	48.667	0.04601	0.004	9.0	ug/L
	Tl	205	1066.746	5.3	63.334	0.05213	0.003	6.2	ug/L
	Pb	208	9397.827	1.8	537.345	0.32714	0.008	2.5	ug/L

Pb	206	2435.380	2.0	135.336	0.32353	0.008	2.6	ug/L
Pb	207	2020.932	4.2	124.336	0.31744	0.015	4.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		124.872			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		112.885			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.900			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.811			
>	Ho	165		101.055			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477S

Sample Date/Time: Monday, November 20, 2006 11:57:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477S.026

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23383.668	1.6	51.334	15.95989	0.101	0.6	ug/L
	Al	27	227456.302	1.3	4379.197	20.13922	0.329	1.6	ug/L
>	Sc	45	514172.296	1.2	424656.486				ug/L
	V	51	384924.997	2.1	5557.188	18.50746	0.294	1.6	ug/L
	Cr	52	327427.993	1.1	18419.857	17.54711	0.415	2.4	ug/L
	Cr	53	40076.544	1.1	945.730	17.98660	0.046	0.3	ug/L
	Mn	55	6888257.361	1.1	692.369	320.75625	3.588	1.1	ug/L
	Co	59	405741.007	3.6	265.007	21.38752	0.735	3.4	ug/L
	Ni	60	119658.817	2.4	177.337	28.80172	0.726	2.5	ug/L
	Ni	62	15274.138	0.7	902.391	22.75841	0.229	1.0	ug/L
	Cu	63	197812.691	3.5	876.388	20.32697	0.636	3.1	ug/L
	Cu	65	93699.721	2.9	254.340	19.99494	0.499	2.5	ug/L
	Zn	66	55077.303	0.9	2747.481	19.31349	0.228	1.2	ug/L
	Zn	67	11071.129	2.2	502.020	22.69499	0.433	1.9	ug/L
	Zn	68	45499.347	1.6	1975.921	22.26449	0.449	2.0	ug/L
>	Ge	72	245150.441	0.4	227398.462				ug/L
	As	75	64555.215	3.1	127.002	21.01133	0.667	3.2	ug/L
	Se	77	4448.654	0.4	226.870	18.33425	0.156	0.8	ug/L
	Se	78	29583.288	0.8	16063.843	17.02845	0.467	2.7	mg/L
	Se	82	6947.495	0.5	661.626	19.70560	0.091	0.5	ug/L
	Kr	83	1200.099	5.6	694.703				mg/L
	Y	89	499974.487	1.6	420425.593				ug/L
	Mo	95	151001.438	1.3	127.336	23.55115	0.153	0.7	ug/L
	Mo	97	92586.529	1.8	61.668	23.63848	0.233	1.0	ug/L
	Mo	98	243709.068	1.7	69.388	23.43272	0.732	3.1	ug/L
	Rh	103	383325.729	2.7	381957.031				ug/L
	Ag	107	309068.604	1.8	56.667	19.81212	0.383	1.9	ug/L
	Ag	109	295265.881	1.2	52.667	19.70519	0.198	1.0	ug/L
	Cd	111	69543.525	3.7	249.856	19.75466	0.592	3.0	ug/L
	Cd	114	152289.768	0.8	64.386	19.24815	0.459	2.4	ug/L
>	In	115	417035.596	1.9	396447.935				ug/L
	Sb	121	214215.831	0.3	62.334	19.80490	0.328	1.7	ug/L
	Sb	123	159091.922	2.1	53.222	19.46466	0.535	2.7	ug/L
	Ba	135	224036.370	2.2	56.334	85.29717	1.619	1.9	ug/L
	Ba	137	380374.272	1.7	65.001	85.08999	0.012	0.0	ug/L
>	Tb	159	472729.779	1.7	486746.910				ug/L
>	Ho	165	459588.745	1.3	457509.069				ug/L
	Tl	203	170216.214	1.8	48.667	20.24977	0.095	0.5	ug/L
	Tl	205	409242.861	0.6	63.334	21.39891	0.367	1.7	ug/L
	Pb	208	550917.231	1.6	537.345	20.45304	0.066	0.3	ug/L

Pb	206	142756.465	2.1	135.336	20.19106	0.210	1.0	ug/L
Pb	207	118340.840	2.4	124.336	19.91465	0.266	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		121.080			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.807			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.193			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.120			
>	Ho	165		100.455			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477A

Sample Date/Time: Monday, November 20, 2006 12:03:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477A.027

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	24712.840	1.3	51.334	16.83099	0.525	3.1	ug/L
	Al	27	240239.712	2.4	4379.197	21.23881	0.410	1.9	ug/L
>	Sc	45	515593.587	2.3	424656.486				ug/L
	V	51	411084.276	1.8	5557.188	19.74228	0.701	3.6	ug/L
	Cr	52	352998.000	1.3	18419.857	18.96568	0.541	2.9	ug/L
	Cr	53	41158.836	2.2	945.730	18.43631	0.321	1.7	ug/L
	Mn	55	6898940.555	1.0	692.369	324.52360	7.501	2.3	ug/L
	Co	59	410481.859	1.3	265.007	21.85710	0.423	1.9	ug/L
	Ni	60	124002.066	1.0	177.337	30.14842	0.315	1.0	ug/L
	Ni	62	15203.675	0.3	902.391	22.89067	0.378	1.7	ug/L
	Cu	63	206925.350	0.6	876.388	21.48432	0.207	1.0	ug/L
	Cu	65	98748.615	4.2	254.340	21.28526	0.734	3.4	ug/L
	Zn	66	72124.553	1.8	2747.481	25.90454	0.827	3.2	ug/L
	Zn	67	13919.421	0.5	502.020	29.13837	0.460	1.6	ug/L
	Zn	68	57246.253	2.2	1975.921	28.58549	0.353	1.2	ug/L
>	Ge	72	242727.366	1.3	227398.462				ug/L
	As	75	68390.877	1.4	127.002	22.48510	0.187	0.8	ug/L
	Se	77	4600.736	0.7	226.870	19.19995	0.323	1.7	ug/L
	Se	78	31502.187	0.5	16063.843	20.13263	0.591	2.9	mg/L
	Se	82	7266.433	0.5	661.626	20.94665	0.421	2.0	ug/L
	Kr	83	1193.764	1.7	694.703				mg/L
	Y	89	495530.260	1.7	420425.593				ug/L
	Mo	95	162665.779	2.4	127.336	24.88064	0.405	1.6	ug/L
	Mo	97	99546.042	0.7	61.668	24.92944	0.375	1.5	ug/L
	Mo	98	255045.303	2.9	69.388	24.04176	0.573	2.4	ug/L
	Rh	103	387606.846	1.5	381957.031				ug/L
	Ag	107	332249.599	1.0	56.667	20.88881	0.386	1.8	ug/L
	Ag	109	308600.246	1.4	52.667	20.19729	0.176	0.9	ug/L
	Cd	111	73599.574	1.0	249.856	20.51142	0.369	1.8	ug/L
	Cd	114	160583.673	2.0	64.386	19.90385	0.528	2.7	ug/L
>	In	115	425199.131	0.9	396447.935				ug/L
	Sb	121	223252.958	0.7	62.334	20.24063	0.165	0.8	ug/L
	Sb	123	169528.217	1.1	53.222	20.33894	0.114	0.6	ug/L
	Ba	135	223184.119	0.6	56.334	83.69971	0.891	1.1	ug/L
	Ba	137	396257.160	0.6	65.001	87.32036	0.894	1.0	ug/L
>	Tb	159	479913.057	0.8	486746.910				ug/L
>	Ho	165	460664.199	0.4	457509.069				ug/L
	Tl	203	183140.516	1.1	48.667	21.73838	0.298	1.4	ug/L
	Tl	205	420136.932	0.1	63.334	21.91455	0.122	0.6	ug/L
	Pb	208	576672.845	1.1	537.345	21.36148	0.326	1.5	ug/L

Pb	206	150069.077	0.9	135.336	21.17787	0.201	0.9	ug/L
Pb	207	124826.703	1.7	124.336	20.96099	0.446	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		121.414			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		106.741			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.252			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.596			
>	Ho	165		100.690			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477L

Sample Date/Time: Monday, November 20, 2006 12:09:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477L.028

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.001	26.6	51.334	0.00448	0.013	281.8	ug/L
	Al	27	9335.320	1.0	4379.197	0.50400	0.022	4.4	ug/L
>	Sc	45	441990.731	1.6	424656.486				ug/L
	V	51	5697.609	0.7	5557.188	-0.00487	0.005	101.4	ug/L
	Cr	52	18558.498	1.6	18419.857	-0.04067	0.036	88.1	ug/L
	Cr	53	1336.454	2.3	945.730	0.18928	0.015	7.7	ug/L
	Mn	55	1130379.287	0.9	692.369	58.20492	1.211	2.1	ug/L
	Co	59	2470.057	0.6	265.007	0.12908	0.003	2.0	ug/L
	Ni	60	6982.661	1.5	177.337	1.81650	0.057	3.1	ug/L
	Ni	62	724.372	2.8	902.391	-0.27323	0.016	5.9	ug/L
	Cu	63	1691.522	3.7	876.388	0.09573	0.010	10.2	ug/L
	Cu	65	1090.416	0.6	254.340	0.19952	0.006	2.8	ug/L
	Zn	66	10055.831	0.6	2747.481	3.02523	0.088	2.9	ug/L
	Zn	67	1904.904	5.3	502.020	3.37574	0.249	7.4	ug/L
	Zn	68	8089.673	2.2	1975.921	3.50176	0.173	4.9	ug/L
>	Ge	72	221631.534	1.6	227398.462				ug/L
	As	75	1595.169	1.3	127.002	0.53088	0.006	1.2	ug/L
	Se	77	268.804	1.3	226.870	0.23022	0.024	10.5	ug/L
	Se	78	15772.523	1.2	16063.843	0.18261	0.505	276.4	mg/L
	Se	82	1129.743	0.8	661.626	1.69569	0.035	2.0	ug/L
	Kr	83	1114.419	3.6	694.703				mg/L
	Y	89	440980.260	1.3	420425.593				ug/L
	Mo	95	2092.284	1.2	127.336	0.30865	0.003	0.9	ug/L
	Mo	97	1216.101	5.0	61.668	0.29698	0.016	5.6	ug/L
	Mo	98	3120.113	0.9	69.388	0.29570	0.003	0.9	ug/L
	Rh	103	376345.631	1.4	381957.031				ug/L
	Ag	107	91.001	6.7	56.667	0.00206	0.000	18.2	ug/L
	Ag	109	69.334	11.2	52.667	0.00097	0.001	52.8	ug/L
	Cd	111	292.818	8.6	249.856	0.00930	0.007	74.6	ug/L
	Cd	114	151.433	28.0	64.386	0.01075	0.005	49.8	ug/L
>	In	115	413269.236	0.4	396447.935				ug/L
	Sb	121	445.683	8.9	62.334	0.03553	0.004	10.6	ug/L
	Sb	123	343.868	10.4	53.222	0.03562	0.005	12.7	ug/L
	Ba	135	34077.210	0.9	56.334	13.01795	0.301	2.3	ug/L
	Ba	137	59890.722	1.0	65.001	13.44973	0.311	2.3	ug/L
>	Tb	159	470586.064	1.5	486746.910				ug/L
>	Ho	165	453490.466	1.9	457509.069				ug/L
	Tl	203	147.003	7.2	48.667	0.01192	0.001	12.3	ug/L
	Tl	205	298.675	3.0	63.334	0.01251	0.001	5.3	ug/L
	Pb	208	2333.484	1.6	537.345	0.06786	0.003	4.2	ug/L

Pb	206	604.695	3.8	135.336	0.06753	0.003	5.0	ug/L
Pb	207	502.687	2.0	124.336	0.06483	0.003	5.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		104.082			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.464			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.243			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.680			
>	Ho	165		99.122			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956 D.10

Sample Date/Time: Monday, November 20, 2006 12:15:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\948956 D.10.029

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.001	14.4	51.334	0.00169	0.007	438.8	ug/L
	Al	27	6482.252	2.2	4379.197	0.20794	0.014	6.6	ug/L
>	Sc	45	438855.320	2.6	424656.486				ug/L
	V	51	5019.656	5.1	5557.188	-0.04155	0.009	22.4	ug/L
	Cr	52	16899.957	1.6	18419.857	-0.14366	0.014	9.5	ug/L
	Cr	53	1139.089	4.4	945.730	0.08810	0.039	44.3	ug/L
	Mn	55	14387526.925	1.7	692.369	709.99038	8.445	1.2	ug/L
	Co	59	26159.600	1.9	265.007	1.44737	0.033	2.3	ug/L
	Ni	60	5593.266	2.5	177.337	1.38302	0.044	3.2	ug/L
	Ni	62	804.380	6.7	902.391	-0.19137	0.095	49.8	ug/L
	Cu	63	1472.145	0.8	876.388	0.06353	0.001	2.2	ug/L
	Cu	65	486.352	4.1	254.340	0.05162	0.004	7.9	ug/L
	Zn	66	1374.128	8.3	2747.481	-0.55818	0.041	7.4	ug/L
	Zn	67	366.012	2.9	502.020	-0.33046	0.026	7.8	ug/L
	Zn	68	1393.464	2.2	1975.921	-0.33550	0.013	3.8	ug/L
>	Ge	72	231333.993	0.6	227398.462				ug/L
	As	75	74817.505	1.8	127.002	25.81459	0.304	1.2	ug/L
	Se	77	249.137	3.0	226.870	0.08465	0.028	32.5	ug/L
	Se	78	15997.211	0.1	16063.843	-0.50648	0.136	26.9	mg/L
	Se	82	1114.808	0.4	661.626	1.47968	0.009	0.6	ug/L
	Kr	83	1149.758	5.9	694.703				mg/L
	Y	89	430730.593	1.4	420425.593				ug/L
	Mo	95	17569.346	1.4	127.336	2.70244	0.074	2.8	ug/L
	Mo	97	11121.530	2.2	61.668	2.80440	0.056	2.0	ug/L
	Mo	98	28336.823	1.8	69.388	2.69769	0.009	0.4	ug/L
	Rh	103	388669.156	2.1	381957.031				ug/L
	Ag	107	78.001	6.8	56.667	0.00115	0.000	36.4	ug/L
	Ag	109	54.001	9.3	52.667	-0.00012	0.000	254.0	ug/L
	Cd	111	229.012	12.2	249.856	-0.01019	0.007	66.3	ug/L
	Cd	114	94.748	18.8	64.386	0.00335	0.002	73.1	ug/L
>	In	115	420083.930	1.8	396447.935				ug/L
	Sb	121	621.696	2.7	62.334	0.05100	0.001	1.0	ug/L
	Sb	123	504.043	4.8	53.222	0.05442	0.004	7.2	ug/L
	Ba	135	6724.446	0.3	56.334	2.48336	0.065	2.6	ug/L
	Ba	137	12031.471	3.0	65.001	2.61844	0.105	4.0	ug/L
>	Tb	159	483585.707	2.3	486746.910				ug/L
>	Ho	165	461125.752	0.5	457509.069				ug/L
	Tl	203	178.670	11.7	48.667	0.01538	0.003	16.8	ug/L
	Tl	205	362.011	1.9	63.334	0.01554	0.000	2.9	ug/L
	Pb	208	536.345	2.7	537.345	-0.00019	0.001	309.6	ug/L

Pb	206	142.336	6.0	135.336	0.00084	0.001	154.9	ug/L
Pb	207	122.669	6.2	124.336	-0.00044	0.001	303.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.344			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.731			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.962			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.351			
>	Ho	165		100.791			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956D D.10

Sample Date/Time: Monday, November 20, 2006 12:23:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\948956D D.10.030

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.001	14.0	51.334	-0.00251	0.005	206.1	ug/L
	Al	27	8156.739	2.2	4379.197	0.38515	0.029	7.6	ug/L
>	Sc	45	439222.748	1.2	424656.486				ug/L
	V	51	4900.725	2.3	5557.188	-0.04855	0.003	6.3	ug/L
	Cr	52	16675.504	1.7	18419.857	-0.15993	0.015	9.2	ug/L
	Cr	53	1083.748	5.3	945.730	0.05702	0.027	48.1	ug/L
	Mn	55	14578380.992	0.1	692.369	726.59887	16.887	2.3	ug/L
	Co	59	26413.728	1.0	265.007	1.47611	0.032	2.1	ug/L
	Ni	60	5532.892	2.5	177.337	1.38136	0.041	3.0	ug/L
	Ni	62	844.385	4.9	902.391	-0.11088	0.046	41.6	ug/L
	Cu	63	1491.148	4.4	876.388	0.06714	0.005	7.1	ug/L
	Cu	65	400.347	6.2	254.340	0.03302	0.006	17.9	ug/L
	Zn	66	1333.120	4.9	2747.481	-0.56925	0.017	3.0	ug/L
	Zn	67	338.677	5.4	502.020	-0.38482	0.055	14.3	ug/L
	Zn	68	1310.116	5.6	1975.921	-0.37334	0.051	13.7	ug/L
>	Ge	72	229132.324	2.2	227398.462				ug/L
	As	75	74454.561	1.0	127.002	25.94877	0.782	3.0	ug/L
	Se	77	242.737	1.4	226.870	0.06641	0.033	50.2	ug/L
	Se	78	15691.806	1.6	16063.843	-0.72095	0.904	125.4	mg/L
	Se	82	1094.805	0.4	661.626	1.44895	0.072	5.0	ug/L
	Kr	83	1100.084	3.5	694.703				mg/L
	Y	89	433136.970	3.3	420425.593				ug/L
	Mo	95	17526.590	1.7	127.336	2.77859	0.063	2.3	ug/L
	Mo	97	11166.255	1.0	61.668	2.90240	0.022	0.7	ug/L
	Mo	98	29032.455	2.5	69.388	2.84878	0.045	1.6	ug/L
	Rh	103	385733.440	1.2	381957.031				ug/L
	Ag	107	61.668	3.4	56.667	0.00023	0.000	83.1	ug/L
	Ag	109	51.334	6.0	52.667	-0.00019	0.000	133.7	ug/L
	Cd	111	218.965	10.5	249.856	-0.01110	0.006	54.4	ug/L
	Cd	114	111.033	15.7	64.386	0.00582	0.002	41.7	ug/L
>	In	115	407595.191	1.3	396447.935				ug/L
	Sb	121	619.363	3.9	62.334	0.05255	0.003	5.5	ug/L
	Sb	123	489.217	5.1	53.222	0.05438	0.002	4.4	ug/L
	Ba	135	6946.300	4.0	56.334	2.57061	0.115	4.5	ug/L
	Ba	137	11973.716	0.5	65.001	2.61026	0.027	1.0	ug/L
>	Tb	159	482611.126	1.5	486746.910				ug/L
>	Ho	165	467896.839	1.4	457509.069				ug/L
	Tl	203	183.337	11.9	48.667	0.01559	0.002	14.2	ug/L
	Tl	205	412.681	6.5	63.334	0.01788	0.002	9.2	ug/L
	Pb	208	469.676	6.5	537.345	-0.00292	0.001	30.3	ug/L

Pb	206	121.002	6.8	135.336	-0.00243	0.001	41.0	ug/L
Pb	207	113.002	16.8	124.336	-0.00236	0.003	124.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.430			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.762			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.812			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.150			
>	Ho	165		102.271			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956S D.10

Sample Date/Time: Monday, November 20, 2006 12:29:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\948956S D.10.031

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	2437.381	1.9	51.334	1.94102	0.090	4.7	ug/L
	Al	27	25192.608	0.3	4379.197	2.23400	0.070	3.1	ug/L
>	Sc	45	432733.523	2.6	424656.486				ug/L
	V	51	40663.054	1.5	5557.188	2.03687	0.099	4.9	ug/L
	Cr	52	46429.173	2.7	18419.857	1.89199	0.152	8.0	ug/L
	Cr	53	4505.596	1.8	945.730	1.94485	0.042	2.1	ug/L
	Mn	55	13960541.042	1.1	692.369	700.27680	20.379	2.9	ug/L
	Co	59	61600.469	1.1	265.007	3.48494	0.090	2.6	ug/L
	Ni	60	13516.092	2.6	177.337	3.46591	0.198	5.7	ug/L
	Ni	62	2012.263	1.9	902.391	1.90049	0.079	4.2	ug/L
	Cu	63	20075.353	0.5	876.388	2.13601	0.090	4.2	ug/L
	Cu	65	9473.144	1.6	254.340	2.12510	0.056	2.6	ug/L
	Zn	66	6563.317	2.2	2747.481	1.52150	0.047	3.1	ug/L
	Zn	67	1230.437	3.1	502.020	1.68868	0.032	1.9	ug/L
	Zn	68	5071.262	4.3	1975.921	1.71195	0.179	10.5	ug/L
>	Ge	72	227746.055	3.7	227398.462				ug/L
	As	75	75799.621	1.1	127.002	26.58661	0.795	3.0	ug/L
	Se	77	654.959	1.1	226.870	2.01054	0.112	5.6	ug/L
	Se	78	16826.788	1.0	16063.843	1.13132	1.146	101.3	mg/L
	Se	82	1675.168	1.0	661.626	3.44936	0.184	5.3	ug/L
	Kr	83	1119.086	5.0	694.703				mg/L
	Y	89	424098.822	0.6	420425.593				ug/L
	Mo	95	29003.692	2.3	127.336	4.73570	0.079	1.7	ug/L
	Mo	97	18991.818	2.9	61.668	5.08259	0.187	3.7	ug/L
	Mo	98	47719.057	3.5	69.388	4.81353	0.160	3.3	ug/L
	Rh	103	381876.757	1.3	381957.031				ug/L
	Ag	107	33564.134	1.4	56.667	2.25704	0.031	1.4	ug/L
	Ag	109	31342.817	1.2	52.667	2.19433	0.022	1.0	ug/L
	Cd	111	7455.635	2.8	249.856	2.15924	0.077	3.6	ug/L
	Cd	114	16541.953	1.0	64.386	2.18856	0.006	0.3	ug/L
>	In	115	396904.982	0.9	396447.935				ug/L
	Sb	121	22006.917	2.4	62.334	2.13187	0.042	2.0	ug/L
	Sb	123	16656.007	1.9	53.222	2.13495	0.059	2.7	ug/L
	Ba	135	12301.530	1.2	56.334	4.56573	0.097	2.1	ug/L
	Ba	137	21367.915	2.1	65.001	4.66611	0.082	1.8	ug/L
>	Tb	159	482901.876	1.5	486746.910				ug/L
>	Ho	165	455508.834	1.6	457509.069				ug/L
	Tl	203	18369.742	0.9	48.667	2.20040	0.054	2.5	ug/L
	Tl	205	44117.925	1.1	63.334	2.32437	0.012	0.5	ug/L
	Pb	208	57931.854	0.4	537.345	2.15241	0.028	1.3	ug/L

Pb	206	14618.626	1.6	135.336	2.06926	0.043	2.1	ug/L
Pb	207	12547.899	0.8	124.336	2.11241	0.051	2.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.902			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.153			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.115			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.210			
>	Ho	165		99.563			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956A D.10

Sample Date/Time: Monday, November 20, 2006 12:35:18
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\948956A D.10.032

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23011.627	1.0	51.334	19.57201	0.485	2.5	ug/L
	Al	27	199208.278	1.6	4379.197	22.00738	0.437	2.0	ug/L
>	Sc	45	413061.064	3.5	424656.486				ug/L
	V	51	351314.998	2.7	5557.188	21.08224	0.685	3.3	ug/L
	Cr	52	304461.940	1.3	18419.857	20.52055	0.523	2.6	ug/L
	Cr	53	34309.498	1.1	945.730	19.21681	0.660	3.4	ug/L
	Mn	55	14483909.907	1.2	692.369	759.57332	3.169	0.4	ug/L
	Co	59	375960.728	0.8	265.007	22.32281	0.473	2.1	ug/L
	Ni	60	84537.392	3.0	177.337	22.91020	0.872	3.8	ug/L
	Ni	62	12398.007	1.4	902.391	20.66959	0.064	0.3	ug/L
	Cu	63	182229.562	1.2	876.388	21.09394	0.255	1.2	ug/L
	Cu	65	87231.460	1.6	254.340	20.97188	0.598	2.9	ug/L
	Zn	66	48559.560	0.7	2747.481	19.16858	0.128	0.7	ug/L
	Zn	67	8302.884	1.2	502.020	18.98980	0.429	2.3	ug/L
	Zn	68	36069.008	4.2	1975.921	19.75258	0.614	3.1	ug/L
>	Ge	72	217692.888	1.3	227398.462				ug/L
	As	75	124660.168	1.3	127.002	45.75009	0.943	2.1	ug/L
	Se	77	4324.922	0.9	226.870	20.17522	0.301	1.5	ug/L
	Se	78	28516.115	0.8	16063.843	20.54110	0.271	1.3	mg/L
	Se	82	6721.176	1.2	661.626	21.67104	0.268	1.2	ug/L
	Kr	83	1083.081	2.9	694.703				mg/L
	Y	89	411761.670	3.6	420425.593				ug/L
	Mo	95	135704.390	0.6	127.336	22.70727	0.407	1.8	ug/L
	Mo	97	89207.266	1.9	61.668	24.43388	0.349	1.4	ug/L
	Mo	98	221600.117	0.5	69.388	22.85439	0.467	2.0	ug/L
	Rh	103	362792.301	2.7	381957.031				ug/L
	Ag	107	309353.531	1.2	56.667	21.27218	0.103	0.5	ug/L
	Ag	109	282029.195	2.8	52.667	20.19490	0.731	3.6	ug/L
	Cd	111	69916.683	1.2	249.856	21.31765	0.488	2.3	ug/L
	Cd	114	156193.193	1.2	64.386	21.17633	0.397	1.9	ug/L
>	In	115	388739.265	1.5	396447.935				ug/L
	Sb	121	207384.992	0.9	62.334	20.56907	0.439	2.1	ug/L
	Sb	123	157289.847	2.2	53.222	20.63988	0.228	1.1	ug/L
	Ba	135	61493.049	1.9	56.334	23.96214	0.322	1.3	ug/L
	Ba	137	103133.976	0.5	65.001	23.62351	0.494	2.1	ug/L
>	Tb	159	461590.838	1.8	486746.910				ug/L
>	Ho	165	435642.994	1.4	457509.069				ug/L
	Tl	203	173402.582	0.1	48.667	21.76671	0.289	1.3	ug/L
	Tl	205	407698.141	1.4	63.334	22.48756	0.218	1.0	ug/L
	Pb	208	545702.694	1.1	537.345	21.37529	0.175	0.8	ug/L

Pb	206	139787.196	1.3	135.336	20.86100	0.298	1.4	ug/L
Pb	207	118407.812	0.5	124.336	21.02579	0.200	0.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.269			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.732			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.056			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.832			
>	Ho	165		95.221			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948956L D.10

Sample Date/Time: Monday, November 20, 2006 12:41:16
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\948956L D.10.033

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	46.334	16.8	51.334	-0.00362	0.007	186.9	ug/L
	Al	27	4154.078	3.8	4379.197	-0.01890	0.011	59.9	ug/L
>	Sc	45	419229.812	1.4	424656.486				ug/L
	V	51	4495.275	4.5	5557.188	-0.05945	0.012	20.9	ug/L
	Cr	52	15447.798	2.5	18419.857	-0.19309	0.013	6.5	ug/L
	Cr	53	900.391	1.6	945.730	-0.01876	0.012	64.9	ug/L
	Mn	55	2767203.547	1.8	692.369	148.25335	3.458	2.3	ug/L
	Co	59	5263.383	4.2	265.007	0.30470	0.022	7.1	ug/L
	Ni	60	1110.752	8.3	177.337	0.26237	0.031	11.9	ug/L
	Ni	62	338.344	4.6	902.391	-0.92801	0.043	4.6	ug/L
	Cu	63	511.354	5.5	876.388	-0.03684	0.002	5.7	ug/L
	Cu	65	240.006	1.9	254.340	0.00042	0.001	194.2	ug/L
	Zn	66	895.724	1.7	2747.481	-0.71571	0.007	1.0	ug/L
	Zn	67	259.007	2.0	502.020	-0.52424	0.007	1.3	ug/L
	Zn	68	785.378	2.4	1975.921	-0.62935	0.022	3.6	ug/L
>	Ge	72	213110.203	2.6	227398.462				ug/L
	As	75	13802.896	1.9	127.002	5.13802	0.223	4.3	ug/L
	Se	77	217.003	2.5	226.870	0.02289	0.052	227.4	ug/L
	Se	78	14692.835	1.6	16063.843	-0.56269	0.895	159.1	mg/L
	Se	82	1054.333	2.0	661.626	1.58064	0.117	7.4	ug/L
	Kr	83	1071.746	3.9	694.703				mg/L
	Y	89	399570.193	3.0	420425.593				ug/L
	Mo	95	3553.127	2.6	127.336	0.56583	0.020	3.6	ug/L
	Mo	97	2149.966	3.7	61.668	0.56437	0.019	3.4	ug/L
	Mo	98	5474.498	0.7	69.388	0.54979	0.012	2.2	ug/L
	Rh	103	360062.405	0.2	381957.031				ug/L
	Ag	107	73.334	20.8	56.667	0.00115	0.001	90.4	ug/L
	Ag	109	64.668	28.7	52.667	0.00088	0.001	153.3	ug/L
	Cd	111	217.311	1.0	249.856	-0.00940	0.001	6.7	ug/L
	Cd	114	61.683	22.2	64.386	-0.00031	0.002	616.5	ug/L
>	In	115	394308.341	1.7	396447.935				ug/L
	Sb	121	417.681	5.0	62.334	0.03477	0.002	4.6	ug/L
	Sb	123	300.478	8.8	53.222	0.03205	0.004	11.0	ug/L
	Ba	135	1372.793	1.7	56.334	0.51497	0.015	2.9	ug/L
	Ba	137	2262.330	5.2	65.001	0.50469	0.030	5.9	ug/L
>	Tb	159	461314.839	1.1	486746.910				ug/L
>	Ho	165	452022.396	0.6	457509.069				ug/L
	Tl	203	76.001	6.6	48.667	0.00338	0.001	17.6	ug/L
	Tl	205	155.003	8.7	63.334	0.00491	0.001	13.7	ug/L
	Pb	208	417.675	4.8	537.345	-0.00428	0.001	17.6	ug/L

Pb	206	115.669	2.6	135.336	-0.00260	0.000	19.1	ug/L
Pb	207	106.668	9.8	124.336	-0.00277	0.002	64.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.722			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		93.717			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.460			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.775			
>	Ho	165		98.801			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 948957 D.10

Sample Date/Time: Monday, November 20, 2006 12:47:14
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\948957 D.10.034

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.334	13.9	51.334	0.00297	0.006	199.0	ug/L
	Al	27	4866.136	2.4	4379.197	0.05966	0.017	29.1	ug/L
>	Sc	45	419848.812	0.9	424656.486				ug/L
	V	51	4758.789	1.0	5557.188	-0.04408	0.000	0.3	ug/L
	Cr	52	16331.153	1.6	18419.857	-0.13244	0.008	5.8	ug/L
	Cr	53	989.069	2.5	945.730	0.03057	0.012	39.5	ug/L
	Mn	55	15047745.126	0.7	692.369	782.55548	6.256	0.8	ug/L
	Co	59	27356.446	1.9	265.007	1.59641	0.024	1.5	ug/L
	Ni	60	5767.053	1.3	177.337	1.50684	0.043	2.9	ug/L
	Ni	62	843.051	1.6	902.391	-0.04962	0.044	88.0	ug/L
	Cu	63	1474.145	4.0	876.388	0.07249	0.009	12.2	ug/L
	Cu	65	346.677	4.5	254.340	0.02420	0.004	18.3	ug/L
	Zn	66	2195.645	3.7	2747.481	-0.18924	0.023	12.0	ug/L
	Zn	67	463.351	3.5	502.020	-0.05080	0.055	107.9	ug/L
	Zn	68	1933.910	2.2	1975.921	0.01538	0.037	241.8	ug/L
>	Ge	72	219538.110	1.4	227398.462				ug/L
	As	75	64038.127	1.7	127.002	23.28487	0.663	2.8	ug/L
	Se	77	235.403	3.8	226.870	0.08025	0.058	72.7	ug/L
	Se	78	15357.562	1.3	16063.843	-0.23125	0.423	182.8	mg/L
	Se	82	1092.138	1.6	661.626	1.60038	0.042	2.6	ug/L
	Kr	83	1109.418	1.7	694.703				mg/L
	Y	89	419741.022	1.2	420425.593				ug/L
	Mo	95	18027.663	1.7	127.336	2.91020	0.025	0.9	ug/L
	Mo	97	11794.459	0.9	61.668	3.12355	0.109	3.5	ug/L
	Mo	98	29068.538	4.0	69.388	2.90403	0.105	3.6	ug/L
	Rh	103	381247.626	1.5	381957.031				ug/L
	Ag	107	74.001	8.2	56.667	0.00112	0.000	32.3	ug/L
	Ag	109	54.001	15.8	52.667	0.00006	0.001	1055.0	ug/L
	Cd	111	234.575	10.2	249.856	-0.00537	0.005	101.3	ug/L
	Cd	114	90.785	7.0	64.386	0.00339	0.001	21.8	ug/L
>	In	115	400429.675	2.6	396447.935				ug/L
	Sb	121	677.701	1.6	62.334	0.05924	0.002	4.2	ug/L
	Sb	123	505.340	5.3	53.222	0.05758	0.004	6.7	ug/L
	Ba	135	6706.431	0.7	56.334	2.52597	0.017	0.7	ug/L
	Ba	137	11529.087	2.0	65.001	2.55872	0.077	3.0	ug/L
>	Tb	159	474049.702	1.1	486746.910				ug/L
>	Ho	165	452769.345	1.7	457509.069				ug/L
	Tl	203	188.671	5.6	48.667	0.01699	0.002	9.6	ug/L
	Tl	205	462.017	5.6	63.334	0.02119	0.001	4.7	ug/L
	Pb	208	405.674	1.1	537.345	-0.00475	0.000	7.7	ug/L

Pb	206	109.335	7.6	135.336	-0.00352	0.001	40.9	ug/L
Pb	207	105.002	4.4	124.336	-0.00309	0.000	15.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.868			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		96.543			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.004			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.391			
>	Ho	165		98.964			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950471 D.5

Sample Date/Time: Monday, November 20, 2006 12:53:12
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950471 D.5.035

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	62.334	8.8	51.334	0.00927	0.006	59.7	ug/L
	Al	27	525672.945	0.7	4379.197	57.32328	1.506	2.6	ug/L
>	Sc	45	424004.590	2.0	424656.486				ug/L
	V	51	7195.641	5.9	5557.188	0.09769	0.023	23.1	ug/L
	Cr	52	39018.214	2.1	18419.857	1.43820	0.020	1.4	ug/L
	Cr	53	3622.830	10.8	945.730	1.50292	0.248	16.5	ug/L
	Mn	55	225279.961	2.2	692.369	11.96364	0.284	2.4	ug/L
	Co	59	4674.358	1.4	265.007	0.26691	0.003	1.1	ug/L
	Ni	60	15006.987	2.0	177.337	4.09157	0.096	2.3	ug/L
	Ni	62	2368.360	2.7	902.391	2.76191	0.113	4.1	ug/L
	Cu	63	3474.759	2.0	876.388	0.31279	0.009	3.0	ug/L
	Cu	65	1768.205	1.8	254.340	0.37414	0.009	2.5	ug/L
	Zn	66	3030.915	1.2	2747.481	0.18683	0.011	6.0	ug/L
	Zn	67	624.030	1.3	502.020	0.37172	0.024	6.5	ug/L
	Zn	68	2694.796	3.4	1975.921	0.48846	0.051	10.5	ug/L
>	Ge	72	214364.592	0.4	227398.462				ug/L
	As	75	574.026	4.5	127.002	0.16945	0.009	5.4	ug/L
	Se	77	243.804	1.6	226.870	0.14936	0.023	15.4	ug/L
	Se	78	15100.872	1.7	16063.843	-0.06675	0.414	619.9	mg/L
	Se	82	1072.936	0.6	661.626	1.62398	0.036	2.2	ug/L
	Kr	83	1072.746	2.3	694.703				mg/L
	Y	89	409833.347	2.9	420425.593				ug/L
	Mo	95	479.019	4.9	127.336	0.05833	0.003	5.7	ug/L
	Mo	97	262.673	7.3	61.668	0.05450	0.004	7.1	ug/L
	Mo	98	640.749	4.4	69.388	0.05826	0.002	3.3	ug/L
	Rh	103	373433.692	1.3	381957.031				ug/L
	Ag	107	65.668	10.1	56.667	0.00065	0.001	79.6	ug/L
	Ag	109	53.667	12.0	52.667	0.00011	0.001	504.4	ug/L
	Cd	111	294.870	8.8	249.856	0.01429	0.010	67.4	ug/L
	Cd	114	228.073	17.0	64.386	0.02194	0.005	21.1	ug/L
>	In	115	393492.002	1.9	396447.935				ug/L
	Sb	121	151.336	4.4	62.334	0.00877	0.001	7.8	ug/L
	Sb	123	128.059	7.9	53.222	0.00977	0.002	15.8	ug/L
	Ba	135	8094.010	1.3	56.334	3.09930	0.030	1.0	ug/L
	Ba	137	14261.003	1.6	65.001	3.21624	0.074	2.3	ug/L
>	Tb	159	466979.190	0.7	486746.910				ug/L
>	Ho	165	446343.722	0.8	457509.069				ug/L
	Tl	203	81.001	12.5	48.667	0.00411	0.001	31.7	ug/L
	Tl	205	164.337	3.1	63.334	0.00552	0.000	5.4	ug/L
	Pb	208	3431.640	1.4	537.345	0.11127	0.003	2.6	ug/L

Pb	206	885.723	0.9	135.336	0.10987	0.001	0.6	ug/L
Pb	207	764.709	4.3	124.336	0.11165	0.007	6.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.846			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		94.268			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.254			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.939			
>	Ho	165		97.560			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950474 D.5

Sample Date/Time: Monday, November 20, 2006 12:59:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950474 D.5.036

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.001	8.0	51.334	-0.00117	0.003	254.8	ug/L
	Al	27	101663.222	15.5	4379.197	10.66332	1.709	16.0	ug/L
>	Sc	45	425127.583	0.9	424656.486				ug/L
	V	51	5751.431	11.1	5557.188	0.01128	0.039	348.7	ug/L
	Cr	52	28271.181	2.7	18419.857	0.68395	0.067	9.7	ug/L
	Cr	53	2310.010	1.7	945.730	0.76189	0.030	4.0	ug/L
	Mn	55	92102.196	1.8	692.369	4.82950	0.066	1.4	ug/L
	Co	59	1159.426	2.8	265.007	0.05429	0.002	2.8	ug/L
	Ni	60	5415.815	3.2	177.337	1.43505	0.063	4.4	ug/L
	Ni	62	821.382	1.7	902.391	-0.06568	0.027	41.1	ug/L
	Cu	63	2574.424	5.7	876.388	0.20381	0.014	6.8	ug/L
	Cu	65	1310.449	1.5	254.340	0.25940	0.003	1.2	ug/L
	Zn	66	5552.572	2.5	2747.481	1.23584	0.048	3.9	ug/L
	Zn	67	987.402	0.4	502.020	1.24722	0.025	2.0	ug/L
	Zn	68	4650.011	2.1	1975.921	1.61419	0.085	5.3	ug/L
>	Ge	72	216168.528	1.1	227398.462				ug/L
	As	75	337.677	3.8	127.002	0.08023	0.004	4.7	ug/L
	Se	77	247.470	6.7	226.870	0.15797	0.095	60.1	ug/L
	Se	78	15359.436	1.7	16063.843	0.14508	0.683	471.1	mg/L
	Se	82	1106.740	2.5	661.626	1.71364	0.137	8.0	ug/L
	Kr	83	1102.751	2.2	694.703				mg/L
	Y	89	411423.008	4.3	420425.593				ug/L
	Mo	95	621.363	0.9	127.336	0.08159	0.000	0.5	ug/L
	Mo	97	413.014	3.1	61.668	0.09494	0.004	4.0	ug/L
	Mo	98	899.962	5.8	69.388	0.08441	0.005	5.8	ug/L
	Rh	103	374028.026	3.4	381957.031				ug/L
	Ag	107	63.668	7.1	56.667	0.00049	0.000	65.6	ug/L
	Ag	109	51.667	9.9	52.667	-0.00005	0.000	639.0	ug/L
	Cd	111	264.032	4.3	249.856	0.00461	0.003	69.8	ug/L
	Cd	114	105.488	10.3	64.386	0.00553	0.001	25.2	ug/L
>	In	115	394622.558	0.5	396447.935				ug/L
	Sb	121	212.672	5.7	62.334	0.01472	0.001	7.6	ug/L
	Sb	123	151.696	6.8	53.222	0.01277	0.001	10.4	ug/L
	Ba	135	12905.783	1.6	56.334	4.87479	0.084	1.7	ug/L
	Ba	137	22236.851	0.2	65.001	4.94191	0.007	0.1	ug/L
>	Tb	159	474561.014	0.1	486746.910				ug/L
>	Ho	165	445348.201	0.8	457509.069				ug/L
	Tl	203	111.002	2.4	48.667	0.00781	0.000	3.9	ug/L
	Tl	205	243.339	0.9	63.334	0.00981	0.000	2.0	ug/L
	Pb	208	926.029	1.2	537.345	0.01546	0.001	3.3	ug/L

Pb	206	242.339	6.4	135.336	0.01616	0.002	14.2	ug/L
Pb	207	207.338	10.4	124.336	0.01501	0.004	25.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		100.111			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.062			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.540			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.496			
>	Ho	165		97.342			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477 D.5

Sample Date/Time: Monday, November 20, 2006 13:05:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477 D.5.037

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.001	16.4	51.334	0.00223	0.007	317.8	ug/L
	Al	27	9175.810	2.9	4379.197	0.50915	0.027	5.3	ug/L
>	Sc	45	432078.248	0.6	424656.486				ug/L
	V	51	5696.784	3.3	5557.188	0.00245	0.010	393.4	ug/L
	Cr	52	18157.612	1.7	18419.857	-0.04000	0.017	42.4	ug/L
	Cr	53	1068.079	3.3	945.730	0.05826	0.023	39.4	ug/L
	Mn	55	1101203.791	2.2	692.369	58.66897	2.619	4.5	ug/L
	Co	59	2284.669	0.4	265.007	0.12285	0.004	3.2	ug/L
	Ni	60	6879.241	1.4	177.337	1.85135	0.029	1.6	ug/L
	Ni	62	707.037	3.3	902.391	-0.25989	0.074	28.3	ug/L
	Cu	63	1553.494	0.9	876.388	0.08599	0.004	4.5	ug/L
	Cu	65	894.057	6.2	254.340	0.16050	0.019	11.6	ug/L
	Zn	66	5766.052	1.3	2747.481	1.34709	0.035	2.6	ug/L
	Zn	67	1178.762	2.3	502.020	1.73980	0.017	1.0	ug/L
	Zn	68	5091.606	1.5	1975.921	1.89814	0.115	6.1	ug/L
>	Ge	72	214318.522	2.5	227398.462				ug/L
	As	75	1447.807	2.4	127.002	0.49593	0.026	5.3	ug/L
	Se	77	248.737	4.3	226.870	0.17499	0.070	39.9	ug/L
	Se	78	15371.882	1.7	16063.843	0.38028	0.817	214.8	mg/L
	Se	82	1118.008	1.5	661.626	1.78845	0.051	2.8	ug/L
	Kr	83	1110.752	2.6	694.703				mg/L
	Y	89	413660.482	0.6	420425.593				ug/L
	Mo	95	1979.588	2.7	127.336	0.30620	0.009	3.1	ug/L
	Mo	97	1213.768	8.5	61.668	0.31171	0.028	9.1	ug/L
	Mo	98	2942.680	2.9	69.388	0.29249	0.009	3.2	ug/L
	Rh	103	369465.823	0.6	381957.031				ug/L
	Ag	107	57.667	8.2	56.667	0.00009	0.000	341.0	ug/L
	Ag	109	46.001	14.3	52.667	-0.00045	0.000	104.4	ug/L
	Cd	111	305.700	3.3	249.856	0.01733	0.003	18.6	ug/L
	Cd	114	126.243	23.2	64.386	0.00833	0.004	46.5	ug/L
>	In	115	393959.930	0.3	396447.935				ug/L
	Sb	121	172.003	3.5	62.334	0.01077	0.001	5.2	ug/L
	Sb	123	145.642	3.0	53.222	0.01202	0.001	5.1	ug/L
	Ba	135	32556.465	0.6	56.334	12.59504	0.156	1.2	ug/L
	Ba	137	57285.799	0.5	65.001	13.02852	0.143	1.1	ug/L
>	Tb	159	464585.667	1.1	486746.910				ug/L
>	Ho	165	443211.380	2.0	457509.069				ug/L
	Tl	203	133.002	7.6	48.667	0.01059	0.001	9.9	ug/L
	Tl	205	274.341	6.3	63.334	0.01154	0.001	5.5	ug/L
	Pb	208	2209.801	0.3	537.345	0.06512	0.001	2.2	ug/L

Pb	206	577.359	0.9	135.336	0.06554	0.002	3.1	ug/L
Pb	207	496.353	1.3	124.336	0.06570	0.003	4.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.748			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		94.248			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.372			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.447			
>	Ho	165		96.875			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477D D.5

Sample Date/Time: Monday, November 20, 2006 13:11:09
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477D D.5.038

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56.001	14.6	51.334	0.00443	0.007	163.3	ug/L
	Al	27	9163.461	1.2	4379.197	0.53647	0.014	2.7	ug/L
>	Sc	45	419928.447	1.0	424656.486				ug/L
	V	51	5544.401	1.3	5557.188	0.00297	0.006	209.3	ug/L
	Cr	52	17555.983	0.9	18419.857	-0.04633	0.012	26.2	ug/L
	Cr	53	1115.753	2.2	945.730	0.10225	0.019	18.6	ug/L
	Mn	55	1041130.841	1.9	692.369	54.83225	1.939	3.5	ug/L
	Co	59	2303.675	4.1	265.007	0.12236	0.004	3.1	ug/L
	Ni	60	6940.960	2.5	177.337	1.84682	0.042	2.2	ug/L
	Ni	62	687.369	5.2	902.391	-0.31004	0.080	25.9	ug/L
	Cu	63	1578.499	1.8	876.388	0.08687	0.005	6.2	ug/L
	Cu	65	946.397	3.9	254.340	0.17045	0.008	4.9	ug/L
	Zn	66	3679.849	2.5	2747.481	0.44500	0.033	7.5	ug/L
	Zn	67	904.725	6.1	502.020	1.04079	0.165	15.8	ug/L
	Zn	68	3489.099	0.9	1975.921	0.93295	0.039	4.2	ug/L
>	Ge	72	216720.167	1.6	227398.462				ug/L
	As	75	1498.150	3.9	127.002	0.50842	0.031	6.0	ug/L
	Se	77	251.270	2.2	226.870	0.17301	0.026	14.9	ug/L
	Se	78	15432.251	0.9	16063.843	0.19478	0.203	104.4	mg/L
	Se	82	1106.473	0.9	661.626	1.70197	0.030	1.7	ug/L
	Kr	83	1058.411	3.0	694.703				mg/L
	Y	89	416560.620	1.8	420425.593				ug/L
	Mo	95	1958.917	4.5	127.336	0.29585	0.018	6.2	ug/L
	Mo	97	1122.087	2.4	61.668	0.28037	0.012	4.3	ug/L
	Mo	98	2881.322	4.3	69.388	0.27982	0.012	4.3	ug/L
	Rh	103	360767.165	1.4	381957.031				ug/L
	Ag	107	63.668	6.5	56.667	0.00041	0.000	83.0	ug/L
	Ag	109	52.667	6.1	52.667	-0.00006	0.000	380.3	ug/L
	Cd	111	288.691	9.9	249.856	0.01025	0.008	76.1	ug/L
	Cd	114	132.367	6.6	64.386	0.00877	0.001	15.4	ug/L
>	In	115	402788.332	1.7	396447.935				ug/L
	Sb	121	179.004	11.5	62.334	0.01106	0.002	15.3	ug/L
	Sb	123	141.071	6.3	53.222	0.01104	0.001	12.7	ug/L
	Ba	135	33105.962	0.5	56.334	12.86114	0.180	1.4	ug/L
	Ba	137	57799.354	1.4	65.001	13.20128	0.330	2.5	ug/L
>	Tb	159	462704.637	1.7	486746.910				ug/L
>	Ho	165	446789.364	1.2	457509.069				ug/L
	Tl	203	135.669	4.9	48.667	0.01079	0.001	6.4	ug/L
	Tl	205	275.674	6.7	63.334	0.01150	0.001	7.8	ug/L
	Pb	208	2193.467	3.0	537.345	0.06382	0.003	5.4	ug/L

Pb	206	570.025	1.8	135.336	0.06379	0.003	4.0	ug/L
Pb	207	486.352	3.0	124.336	0.06327	0.004	5.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.887			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		95.304			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.599			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.061			
>	Ho	165		97.657			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 20, 2006 13:17:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 6.039

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	60074.695	0.5	51.334	52.33774	1.403	2.7	ug/L
	Al	27	489053.394	2.4	4379.197	55.97737	0.408	0.7	ug/L
>	Sc	45	403738.979	2.4	424656.486				ug/L
	V	51	835159.603	1.8	5557.188	51.73078	1.018	2.0	ug/L
	Cr	52	712738.473	3.4	18419.857	50.90048	0.734	1.4	ug/L
	Cr	53	84372.857	1.2	945.730	49.13990	1.696	3.5	ug/L
	Mn	55	971027.107	1.6	692.369	52.64104	0.883	1.7	ug/L
	Co	59	826083.261	0.8	265.007	50.74916	0.889	1.8	ug/L
	Ni	60	188259.840	1.3	177.337	52.82369	0.949	1.8	ug/L
	Ni	62	27151.780	2.2	902.391	48.77814	0.844	1.7	ug/L
	Cu	63	437404.990	0.6	876.388	52.51377	0.266	0.5	ug/L
	Cu	65	212629.379	2.1	254.340	52.95526	1.243	2.3	ug/L
	Zn	66	115533.598	1.3	2747.481	48.77335	0.394	0.8	ug/L
	Zn	67	20545.510	2.3	502.020	50.41063	0.723	1.4	ug/L
	Zn	68	87483.341	3.3	1975.921	51.21143	1.386	2.7	ug/L
>	Ge	72	210464.489	1.0	227398.462				ug/L
	As	75	136273.202	3.7	127.002	51.72483	1.694	3.3	ug/L
	Se	77	10351.959	0.6	226.870	51.52032	0.422	0.8	ug/L
	Se	78	48057.483	2.7	16063.843	53.66910	1.959	3.7	mg/L
	Se	82	15216.016	2.0	661.626	53.76793	1.001	1.9	ug/L
	Kr	83	1075.413	1.9	694.703				mg/L
	Y	89	405675.845	1.7	420425.593				ug/L
	Mo	95	294720.236	1.4	127.336	49.01495	0.692	1.4	ug/L
	Mo	97	185151.293	1.2	61.668	50.40710	0.927	1.8	ug/L
	Mo	98	461728.120	2.2	69.388	47.31869	1.408	3.0	ug/L
	Rh	103	360673.742	3.4	381957.031				ug/L
	Ag	107	734889.489	4.0	56.667	50.22181	2.325	4.6	ug/L
	Ag	109	681790.674	0.7	52.667	48.50041	0.427	0.9	ug/L
	Cd	111	168993.781	2.3	249.856	51.28363	0.597	1.2	ug/L
	Cd	114	369212.152	2.8	64.386	49.74226	1.479	3.0	ug/L
>	In	115	391268.365	1.3	396447.935				ug/L
	Sb	121	485867.080	0.5	62.334	47.88346	0.809	1.7	ug/L
	Sb	123	378024.099	1.2	53.222	49.29832	0.538	1.1	ug/L
	Ba	135	130231.457	2.6	56.334	51.29478	1.139	2.2	ug/L
	Ba	137	226648.130	0.6	65.001	52.47156	1.345	2.6	ug/L
>	Tb	159	456941.638	2.7	486746.910				ug/L
>	Ho	165	435464.713	2.2	457509.069				ug/L
	Tl	203	422557.493	0.7	48.667	53.08786	1.507	2.8	ug/L
	Tl	205	977935.621	1.6	63.334	53.97043	0.375	0.7	ug/L
	Pb	208	1326741.792	0.7	537.345	52.02796	0.793	1.5	ug/L

Pb	206	343709.746	0.4	135.336	51.35252	0.976	1.9	ug/L
Pb	207	289889.985	2.2	124.336	51.53679	1.453	2.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	104.675				
	Al	27	111.955				
>	Sc	45		95.074			
	V	51	103.462				
	Cr	52	101.801				
	Cr	53	98.280				
	Mn	55	105.282				
	Co	59	101.498				
	Ni	60	105.647				
	Ni	62	97.556				
	Cu	63	105.028				
	Cu	65	105.911				
	Zn	66	97.547				
	Zn	67	100.821				
	Zn	68	102.423				
>	Ge	72		92.553			
	As	75	103.450				
	Se	77	103.041				
	Se	78	107.338				
	Se	82	107.536				
	Kr	83					
	Y	89					
	Mo	95	98.030				
	Mo	97	100.814				
	Mo	98	94.637				
	Rh	103					
	Ag	107	100.444				
	Ag	109	97.001				
	Cd	111	102.567				
	Cd	114	99.485				
>	In	115		98.694			
	Sb	121	95.767				
	Sb	123	98.597				
	Ba	135	102.590				
	Ba	137	104.943				
>	Tb	159		93.877			
>	Ho	165		95.182			
	Tl	203	106.176				
	Tl	205	107.941				
	Pb	208	104.056				
	Pb	206	102.705				
	Pb	207	103.074				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 20, 2006 13:23:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 7.040

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.667	6.4	51.334	0.00513	0.003	50.6	ug/L
	Al	27	3389.390	0.5	4379.197	-0.08901	0.005	5.8	ug/L
>	Sc	45	403420.013	1.5	424656.486				ug/L
	V	51	4961.191	3.5	5557.188	-0.01975	0.014	68.8	ug/L
	Cr	52	16586.662	2.4	18419.857	-0.06658	0.038	56.9	ug/L
	Cr	53	824.716	5.0	945.730	-0.04358	0.017	40.1	ug/L
	Mn	55	705.370	1.1	692.369	0.00313	0.001	17.0	ug/L
	Co	59	170.337	2.8	265.007	-0.00470	0.000	9.0	ug/L
	Ni	60	138.003	7.0	177.337	-0.00774	0.002	27.7	ug/L
	Ni	62	206.671	4.3	902.391	-1.16886	0.013	1.1	ug/L
	Cu	63	356.678	6.0	876.388	-0.05510	0.002	3.5	ug/L
	Cu	65	222.339	3.4	254.340	-0.00379	0.002	55.8	ug/L
	Zn	66	2255.661	0.6	2747.481	-0.13347	0.015	11.4	ug/L
	Zn	67	435.016	2.2	502.020	-0.08504	0.026	30.7	ug/L
	Zn	68	1613.172	3.8	1975.921	-0.13812	0.045	32.9	ug/L
>	Ge	72	212567.124	1.5	227398.462				ug/L
	As	75	136.336	11.8	127.002	0.00669	0.007	100.9	ug/L
	Se	77	219.470	4.1	226.870	0.03783	0.062	165.1	ug/L
	Se	78	14470.574	0.3	16063.843	-0.86913	0.422	48.6	mg/L
	Se	82	1057.200	0.2	661.626	1.59989	0.056	3.5	ug/L
	Kr	83	1056.411	2.3	694.703				mg/L
	Y	89	408028.511	2.5	420425.593				ug/L
	Mo	95	495.020	14.9	127.336	0.06298	0.012	18.9	ug/L
	Mo	97	281.341	23.7	61.668	0.06139	0.018	28.9	ug/L
	Mo	98	724.872	24.6	69.388	0.06856	0.018	26.0	ug/L
	Rh	103	362027.125	2.0	381957.031				ug/L
	Ag	107	128.669	4.3	56.667	0.00514	0.000	5.1	ug/L
	Ag	109	111.335	14.9	52.667	0.00437	0.001	25.8	ug/L
	Cd	111	247.297	7.2	249.856	0.00162	0.004	276.1	ug/L
	Cd	114	57.482	5.4	64.386	-0.00067	0.000	67.0	ug/L
>	In	115	383876.489	1.5	396447.935				ug/L
	Sb	121	912.393	12.3	62.334	0.08551	0.010	12.0	ug/L
	Sb	123	653.022	9.2	53.222	0.07991	0.007	8.9	ug/L
	Ba	135	49.001	17.7	56.334	-0.00152	0.003	224.5	ug/L
	Ba	137	62.334	15.8	65.001	0.00030	0.002	737.6	ug/L
>	Tb	159	456818.833	0.7	486746.910				ug/L
>	Ho	165	436757.991	0.6	457509.069				ug/L
	Tl	203	63.334	4.8	48.667	0.00211	0.000	16.1	ug/L
	Tl	205	114.335	12.3	63.334	0.00296	0.001	25.1	ug/L
	Pb	208	377.674	2.7	537.345	-0.00529	0.000	7.5	ug/L

Pb	206	93.335	10.6	135.336	-0.00534	0.001	27.7	ug/L
Pb	207	98.668	11.7	124.336	-0.00354	0.002	60.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		94.999			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		93.478			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.829			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		93.851			
>	Ho	165		95.464			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477S D.5

Sample Date/Time: Monday, November 20, 2006 13:29:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477S D.5.041

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	4670.022	1.3	51.334	3.85482	0.196	5.1	ug/L
	Al	27	48789.921	1.6	4379.197	4.90888	0.123	2.5	ug/L
>	Sc	45	422169.840	3.7	424656.486				ug/L
	V	51	74153.897	0.8	5557.188	4.09420	0.154	3.8	ug/L
	Cr	52	74796.595	0.7	18419.857	3.95974	0.171	4.3	ug/L
	Cr	53	7726.324	0.9	945.730	3.82353	0.204	5.3	ug/L
	Mn	55	1147605.620	0.8	692.369	62.97603	0.400	0.6	ug/L
	Co	59	68703.453	1.7	265.007	4.25749	0.026	0.6	ug/L
	Ni	60	21519.635	1.4	177.337	6.07029	0.062	1.0	ug/L
	Ni	62	2832.510	2.5	902.391	3.76548	0.081	2.1	ug/L
	Cu	63	35126.568	1.2	876.388	4.17916	0.080	1.9	ug/L
	Cu	65	17423.707	1.8	254.340	4.33831	0.092	2.1	ug/L
	Zn	66	11218.326	1.3	2747.481	3.80436	0.108	2.8	ug/L
	Zn	67	2240.990	2.3	502.020	4.52809	0.120	2.7	ug/L
	Zn	68	9243.552	2.4	1975.921	4.50181	0.179	4.0	ug/L
>	Ge	72	207941.760	1.3	227398.462				ug/L
	As	75	12242.776	0.5	127.002	4.66378	0.084	1.8	ug/L
	Se	77	1016.795	1.3	226.870	4.16227	0.139	3.3	ug/L
	Se	78	17559.135	2.7	16063.843	4.70615	1.128	24.0	mg/L
	Se	82	2179.952	1.7	661.626	5.86929	0.127	2.2	ug/L
	Kr	83	1103.084	3.0	694.703				mg/L
	Y	89	403847.926	1.2	420425.593				ug/L
	Mo	95	25464.789	2.8	127.336	4.24260	0.132	3.1	ug/L
	Mo	97	16523.869	2.0	61.668	4.51187	0.129	2.9	ug/L
	Mo	98	41450.125	2.9	69.388	4.26778	0.145	3.4	ug/L
	Rh	103	358232.394	3.1	381957.031				ug/L
	Ag	107	61448.762	2.5	56.667	4.22171	0.129	3.0	ug/L
	Ag	109	55583.981	0.4	52.667	3.97549	0.051	1.3	ug/L
	Cd	111	13684.632	0.3	249.856	4.11053	0.040	1.0	ug/L
	Cd	114	30007.324	1.6	64.386	4.06043	0.102	2.5	ug/L
>	In	115	388833.939	0.9	396447.935				ug/L
	Sb	121	42402.375	1.4	62.334	4.19916	0.073	1.7	ug/L
	Sb	123	31286.377	0.6	53.222	4.09921	0.013	0.3	ug/L
	Ba	135	42625.851	1.6	56.334	16.44750	0.270	1.6	ug/L
	Ba	137	74193.253	1.2	65.001	16.82707	0.159	0.9	ug/L
>	Tb	159	465947.424	0.3	486746.910				ug/L
>	Ho	165	440379.201	0.8	457509.069				ug/L
	Tl	203	34624.464	0.8	48.667	4.29449	0.043	1.0	ug/L
	Tl	205	82755.442	1.7	63.334	4.51248	0.040	0.9	ug/L
	Pb	208	111299.515	0.8	537.345	4.29654	0.019	0.4	ug/L

Pb	206	28282.194	0.2	135.336	4.15973	0.035	0.9	ug/L
Pb	207	24236.771	0.8	124.336	4.24063	0.065	1.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.414			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		91.444			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.079			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.727			
>	Ho	165		96.256			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477A D.5

Sample Date/Time: Monday, November 20, 2006 13:35:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477A D.5.042

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	23094.193	1.8	51.334	19.01294	0.490	2.6	ug/L
	Al	27	192566.998	2.0	4379.197	20.56633	0.638	3.1	ug/L
>	Sc	45	426542.951	1.5	424656.486				ug/L
	V	51	342748.457	1.1	5557.188	19.89493	0.525	2.6	ug/L
	Cr	52	299875.475	1.7	18419.857	19.50797	0.639	3.3	ug/L
	Cr	53	34929.074	1.4	945.730	18.92762	0.466	2.5	ug/L
	Mn	55	1465331.373	0.9	692.369	77.95531	1.742	2.2	ug/L
	Co	59	337599.667	1.3	265.007	20.33398	0.070	0.3	ug/L
	Ni	60	78344.368	1.3	177.337	21.54041	0.588	2.7	ug/L
	Ni	62	11623.553	2.1	902.391	19.58557	0.157	0.8	ug/L
	Cu	63	171694.163	0.9	876.388	20.16109	0.118	0.6	ug/L
	Cu	65	80488.005	1.2	254.340	19.62686	0.236	1.2	ug/L
	Zn	66	50534.266	0.5	2747.481	20.30255	0.222	1.1	ug/L
	Zn	67	8879.486	2.8	502.020	20.70376	0.625	3.0	ug/L
	Zn	68	37475.455	1.0	1975.921	20.88914	0.121	0.6	ug/L
>	Ge	72	214549.944	1.4	227398.462				ug/L
	As	75	54301.578	1.5	127.002	20.19383	0.263	1.3	ug/L
	Se	77	4095.273	1.1	226.870	19.34211	0.313	1.6	ug/L
	Se	78	27108.160	1.6	16063.843	18.96811	1.145	6.0	mg/L
	Se	82	6439.554	0.2	661.626	21.00594	0.296	1.4	ug/L
	Kr	83	1091.416	1.7	694.703				mg/L
	Y	89	409558.191	1.6	420425.593				ug/L
	Mo	95	120504.079	1.9	127.336	20.20498	0.469	2.3	ug/L
	Mo	97	75498.979	2.1	61.668	20.72586	0.607	2.9	ug/L
	Mo	98	201658.603	2.0	69.388	20.83917	0.353	1.7	ug/L
	Rh	103	350071.357	0.7	381957.031				ug/L
	Ag	107	288367.241	1.7	56.667	19.87182	0.225	1.1	ug/L
	Ag	109	277808.208	2.7	52.667	19.93157	0.471	2.4	ug/L
	Cd	111	66034.336	0.6	249.856	20.17256	0.291	1.4	ug/L
	Cd	114	149636.873	1.3	64.386	20.33056	0.317	1.6	ug/L
>	In	115	387871.686	0.9	396447.935				ug/L
	Sb	121	205434.822	0.7	62.334	20.41907	0.328	1.6	ug/L
	Sb	123	150357.331	0.9	53.222	19.77654	0.315	1.6	ug/L
	Ba	135	85326.197	1.6	56.334	33.61413	1.094	3.3	ug/L
	Ba	137	145969.576	2.4	65.001	33.78954	1.093	3.2	ug/L
>	Tb	159	456836.940	1.7	486746.910				ug/L
>	Ho	165	447025.136	0.3	457509.069				ug/L
	Tl	203	168345.443	0.6	48.667	20.59087	0.051	0.2	ug/L
	Tl	205	397939.845	0.5	63.334	21.39001	0.181	0.8	ug/L
	Pb	208	535691.126	1.2	537.345	20.44717	0.246	1.2	ug/L

Pb	206	137063.715	0.6	135.336	19.93135	0.100	0.5	ug/L
Pb	207	113243.824	1.5	124.336	19.59339	0.254	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		100.444			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		94.350			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.837			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		93.855			
>	Ho	165		97.708			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950477L D.5

Sample Date/Time: Monday, November 20, 2006 13:40:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990143
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\950477L D.5.043

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	53.001	16.8	51.334	0.00323	0.008	244.5	ug/L
	Al	27	4242.789	2.9	4379.197	0.00448	0.018	390.9	ug/L
>	Sc	45	407704.694	0.9	424656.486				ug/L
	V	51	4776.399	2.6	5557.188	-0.03446	0.009	27.1	ug/L
	Cr	52	15831.518	1.7	18419.857	-0.13421	0.029	21.4	ug/L
	Cr	53	853.719	2.4	945.730	-0.03157	0.014	43.2	ug/L
	Mn	55	216593.851	0.5	692.369	11.72436	0.295	2.5	ug/L
	Co	59	555.691	2.5	265.007	0.01909	0.000	1.5	ug/L
	Ni	60	1374.127	3.6	177.337	0.33994	0.009	2.8	ug/L
	Ni	62	279.674	12.6	902.391	-1.03019	0.055	5.3	ug/L
	Cu	63	516.355	5.0	876.388	-0.03539	0.004	10.3	ug/L
	Cu	65	373.679	1.3	254.340	0.03454	0.002	4.9	ug/L
	Zn	66	1612.172	3.6	2747.481	-0.40091	0.038	9.5	ug/L
	Zn	67	354.678	3.4	502.020	-0.27537	0.035	12.6	ug/L
	Zn	68	1329.453	3.9	1975.921	-0.29765	0.044	14.6	ug/L
>	Ge	72	210359.452	2.1	227398.462				ug/L
	As	75	362.345	13.5	127.002	0.09309	0.019	19.9	ug/L
	Se	77	223.203	4.4	226.870	0.06874	0.072	105.4	ug/L
	Se	78	14425.628	1.7	16063.843	-0.69824	0.497	71.2	mg/L
	Se	82	1059.201	0.3	661.626	1.64835	0.088	5.3	ug/L
	Kr	83	1074.080	1.7	694.703				mg/L
	Y	89	390475.001	1.9	420425.593				ug/L
	Mo	95	533.356	1.4	127.336	0.06792	0.001	2.1	ug/L
	Mo	97	285.008	9.8	61.668	0.06112	0.008	12.4	ug/L
	Mo	98	699.089	2.5	69.388	0.06470	0.002	3.0	ug/L
	Rh	103	345441.642	1.6	381957.031				ug/L
	Ag	107	84.001	8.3	56.667	0.00192	0.000	25.3	ug/L
	Ag	109	70.001	21.0	52.667	0.00129	0.001	82.1	ug/L
	Cd	111	250.594	0.6	249.856	0.00130	0.000	33.3	ug/L
	Cd	114	62.614	17.4	64.386	-0.00012	0.001	1206.1	ug/L
>	In	115	390851.811	0.4	396447.935				ug/L
	Sb	121	454.017	9.8	62.334	0.03872	0.004	11.0	ug/L
	Sb	123	357.498	16.1	53.222	0.03981	0.007	18.5	ug/L
	Ba	135	6487.923	1.6	56.334	2.57205	0.058	2.3	ug/L
	Ba	137	11411.924	1.4	65.001	2.66513	0.008	0.3	ug/L
>	Tb	159	450505.676	1.4	486746.910				ug/L
>	Ho	165	443786.566	0.9	457509.069				ug/L
	Tl	203	76.668	18.6	48.667	0.00362	0.002	45.8	ug/L
	Tl	205	133.336	4.8	63.334	0.00389	0.000	8.2	ug/L
	Pb	208	756.354	3.4	537.345	0.00905	0.001	12.5	ug/L

Pb	206	191.337	11.4	135.336	0.00883	0.003	38.9	ug/L
Pb	207	189.337	8.6	124.336	0.01199	0.003	24.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		96.008			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		92.507			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.588			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.554			
>	Ho	165		97.001			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 20, 2006 13:46:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 3.044

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1317.451	5.5	51.334	1.10027	0.083	7.5	ug/L
	Al	27	101898.950	3.1	4379.197	11.21575	0.167	1.5	ug/L
>	Sc	45	406003.755	1.9	424656.486				ug/L
	V	51	21761.453	1.7	5557.188	1.01963	0.029	2.9	ug/L
	Cr	52	31057.767	2.4	18419.857	0.97915	0.031	3.2	ug/L
	Cr	53	2552.417	2.6	945.730	0.96460	0.042	4.3	ug/L
	Mn	55	20676.169	2.5	692.369	1.11321	0.034	3.1	ug/L
	Co	59	16913.652	1.6	265.007	1.04849	0.013	1.2	ug/L
	Ni	60	3981.324	2.4	177.337	1.09808	0.026	2.4	ug/L
	Ni	62	739.707	3.4	902.391	-0.14484	0.049	33.7	ug/L
	Cu	63	8878.817	1.5	876.388	0.99533	0.011	1.1	ug/L
	Cu	65	4391.536	4.4	254.340	1.06199	0.055	5.2	ug/L
	Zn	66	14818.645	0.4	2747.481	5.44883	0.034	0.6	ug/L
	Zn	67	2415.708	2.6	502.020	5.03993	0.130	2.6	ug/L
	Zn	68	10778.075	2.1	1975.921	5.50263	0.166	3.0	ug/L
>	Ge	72	205647.948	0.5	227398.462				ug/L
	As	75	2859.519	2.7	127.002	1.06725	0.034	3.1	ug/L
	Se	77	402.876	3.5	226.870	1.02764	0.064	6.3	ug/L
	Se	78	15061.872	1.5	16063.843	0.88376	0.258	29.2	mg/L
	Se	82	1324.105	0.7	661.626	2.73476	0.037	1.4	ug/L
	Kr	83	1070.413	4.9	694.703				mg/L
	Y	89	389450.292	1.5	420425.593				ug/L
	Mo	95	6073.941	2.3	127.336	0.99546	0.014	1.4	ug/L
	Mo	97	3781.896	2.0	61.668	1.01931	0.020	1.9	ug/L
	Mo	98	9417.615	1.4	69.388	0.96401	0.030	3.2	ug/L
	Rh	103	360946.513	1.5	381957.031				ug/L
	Ag	107	15395.031	1.9	56.667	1.05444	0.030	2.8	ug/L
	Ag	109	14080.695	1.5	52.667	1.00417	0.034	3.3	ug/L
	Cd	111	3717.790	2.3	249.856	1.06152	0.014	1.3	ug/L
	Cd	114	7583.589	2.7	64.386	1.01949	0.039	3.9	ug/L
>	In	115	389023.926	1.9	396447.935				ug/L
	Sb	121	10261.750	0.7	62.334	1.01130	0.018	1.8	ug/L
	Sb	123	7875.320	1.6	53.222	1.02653	0.031	3.0	ug/L
	Ba	135	2816.838	1.8	56.334	1.07091	0.006	0.6	ug/L
	Ba	137	4950.520	2.1	65.001	1.11368	0.042	3.8	ug/L
>	Tb	159	464473.618	1.9	486746.910				ug/L
>	Ho	165	436022.239	0.9	457509.069				ug/L
	Tl	203	9061.348	1.2	48.667	1.13089	0.020	1.8	ug/L
	Tl	205	21140.663	1.4	63.334	1.16183	0.008	0.6	ug/L
	Pb	208	28774.541	0.4	537.345	1.10715	0.014	1.2	ug/L

Pb	206	7341.306	1.7	135.336	1.07625	0.009	0.9	ug/L
Pb	207	6387.178	1.2	124.336	1.11323	0.015	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	110.027				
	Al	27	112.157				
>	Sc	45		95.608			
	V	51	101.963				
	Cr	52	97.915				
	Cr	53	96.460				
	Mn	55	111.321				
	Co	59	104.849				
	Ni	60	109.808				
	Ni	62	-14.484				
	Cu	63	99.533				
	Cu	65	106.199				
	Zn	66	108.977				
	Zn	67	100.799				
	Zn	68	110.053				
>	Ge	72		90.435			
	As	75	106.725				
	Se	77	102.764				
	Se	78	88.376				
	Se	82	273.476				
	Kr	83					
	Y	89					
	Mo	95	99.546				
	Mo	97	101.931				
	Mo	98	96.401				
	Rh	103					
	Ag	107	105.444				
	Ag	109	100.417				
	Cd	111	106.152				
	Cd	114	101.949				
>	In	115		98.127			
	Sb	121	101.130				
	Sb	123	102.653				
	Ba	135	107.091				
	Ba	137	111.368				
>	Tb	159		95.424			
>	Ho	165		95.304			
	Tl	203	113.089				
	Tl	205	116.183				
	Pb	208	110.715				
	Pb	206	107.625				
	Pb	207	111.323				

Elan 9000 Method 6020 - Summary Report

Sample ID: HLCCV2

Sample Date/Time: Monday, November 20, 2006 13:52:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\HLCCV2.045

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	230401.919	2.2	51.334	195.30059	3.080	1.6	ug/L
	Al	27	1735567.496	1.0	4379.197	194.47995	5.212	2.7	ug/L
>	Sc	45	415043.195	1.7	424656.486				ug/L
	V	51	3672647.217	1.5	5557.188	222.41027	7.299	3.3	ug/L
	Cr	52	3142273.370	2.6	18419.857	222.65387	9.692	4.4	ug/L
	Cr	53	327760.296	1.7	945.730	187.06618	0.233	0.1	ug/L
	Mn	55	4224872.298	1.4	692.369	226.96844	6.825	3.0	ug/L
	Co	59	3582456.822	2.6	265.007	217.93913	3.710	1.7	ug/L
	Ni	60	694721.209	1.4	177.337	193.18551	5.741	3.0	ug/L
	Ni	62	106472.592	0.1	902.391	193.91248	3.786	2.0	ug/L
	Cu	63	1516353.043	2.2	876.388	180.51796	4.472	2.5	ug/L
	Cu	65	737102.428	1.5	254.340	181.92394	3.069	1.7	ug/L
	Zn	66	449436.080	0.7	2747.481	191.03520	3.423	1.8	ug/L
	Zn	67	76177.478	2.3	502.020	188.22277	4.318	2.3	ug/L
	Zn	68	322460.960	0.2	1975.921	189.87686	4.229	2.2	ug/L
>	Ge	72	212561.989	2.1	227398.462				ug/L
	As	75	505507.883	1.8	127.002	190.20603	7.012	3.7	ug/L
	Se	77	38715.058	0.6	226.870	193.69997	3.518	1.8	ug/L
	Se	78	136631.311	1.7	16063.843	194.82847	8.227	4.2	mg/L
	Se	82	54805.502	0.8	661.626	197.59427	4.393	2.2	ug/L
	Kr	83	1075.747	3.8	694.703				mg/L
	Y	89	411398.879	2.1	420425.593				ug/L
	Mo	95	1096226.815	2.0	127.336	183.31769	4.051	2.2	ug/L
	Mo	97	682821.667	0.7	61.668	186.97211	6.794	3.6	ug/L
	Mo	98	1755687.177	1.2	69.388	180.91212	6.145	3.4	ug/L
	Rh	103	363672.037	2.1	381957.031				ug/L
	Ag	107	3295282.233	0.4	56.667	226.44511	8.691	3.8	ug/L
	Ag	109	3133879.760	1.1	52.667	224.16480	7.077	3.2	ug/L
	Cd	111	623470.427	2.2	249.856	190.53416	9.411	4.9	ug/L
	Cd	114	1387473.267	2.9	64.386	187.87989	3.525	1.9	ug/L
>	In	115	389469.245	4.3	396447.935				ug/L
	Sb	121	1869112.658	0.1	62.334	185.26670	7.665	4.1	ug/L
	Sb	123	1408717.472	2.2	53.222	184.68009	3.887	2.1	ug/L
	Ba	135	499330.587	2.0	56.334	192.08172	2.560	1.3	ug/L
	Ba	137	834222.374	2.0	65.001	188.55264	2.406	1.3	ug/L
>	Tb	159	467888.526	0.8	486746.910				ug/L
>	Ho	165	452829.503	2.1	457509.069				ug/L
	Tl	203	1522466.854	1.6	48.667	183.89182	1.435	0.8	ug/L
	Tl	205	4568280.215	1.0	63.334	242.53678	7.293	3.0	ug/L
	Pb	208	5687525.948	0.3	537.345	214.55547	4.217	2.0	ug/L

Pb	206	1299113.585	1.5	135.336	186.67181	2.056	1.1	ug/L
Pb	207	1084679.054	1.1	124.336	185.47267	2.193	1.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.736			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		93.476			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.240			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.126			
>	Ho	165		98.977			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 20, 2006 13:58:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 6.046

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56466.597	1.7	51.334	49.18232	1.266	2.6	ug/L
	Al	27	463724.180	2.0	4379.197	53.05798	1.055	2.0	ug/L
>	Sc	45	403742.166	1.9	424656.486				ug/L
	V	51	801902.810	0.8	5557.188	49.65780	0.968	1.9	ug/L
	Cr	52	689846.936	1.4	18419.857	49.24972	1.555	3.2	ug/L
	Cr	53	82304.365	4.0	945.730	47.90872	2.202	4.6	ug/L
	Mn	55	935054.587	1.7	692.369	52.18164	1.357	2.6	ug/L
	Co	59	788901.472	3.9	265.007	49.87635	1.811	3.6	ug/L
	Ni	60	174082.205	0.1	177.337	50.27246	0.465	0.9	ug/L
	Ni	62	26457.531	0.3	902.391	48.93171	0.387	0.8	ug/L
	Cu	63	410791.751	3.5	876.388	50.75150	1.368	2.7	ug/L
	Cu	65	196335.371	2.8	254.340	50.32141	1.247	2.5	ug/L
	Zn	66	112954.406	2.2	2747.481	49.08909	1.100	2.2	ug/L
	Zn	67	19498.000	3.8	502.020	49.21231	1.562	3.2	ug/L
	Zn	68	81322.399	1.4	1975.921	48.95579	0.213	0.4	ug/L
>	Ge	72	204476.403	1.0	227398.462				ug/L
	As	75	126959.786	0.8	127.002	49.60314	0.204	0.4	ug/L
	Se	77	9800.226	0.5	226.870	50.17534	0.361	0.7	ug/L
	Se	78	44028.894	2.7	16063.843	49.23265	1.313	2.7	mg/L
	Se	82	14262.595	0.7	661.626	51.80106	0.892	1.7	ug/L
	Kr	83	1043.076	2.5	694.703				mg/L
	Y	89	389887.225	2.1	420425.593				ug/L
	Mo	95	276853.584	2.2	127.336	48.18902	3.121	6.5	ug/L
	Mo	97	173766.893	3.2	61.668	49.50816	3.369	6.8	ug/L
	Mo	98	454597.857	1.3	69.388	48.70948	1.764	3.6	ug/L
	Rh	103	344840.119	2.2	381957.031				ug/L
	Ag	107	681099.957	2.3	56.667	48.64256	0.999	2.1	ug/L
	Ag	109	656374.189	0.5	52.667	48.84328	2.320	4.7	ug/L
	Cd	111	160183.967	2.0	249.856	50.83581	1.952	3.8	ug/L
	Cd	114	360078.339	1.3	64.386	50.72480	1.781	3.5	ug/L
>	In	115	374541.237	4.4	396447.935				ug/L
	Sb	121	484853.873	0.8	62.334	49.98217	2.425	4.9	ug/L
	Sb	123	358003.824	1.4	53.222	48.81727	1.640	3.4	ug/L
	Ba	135	124722.726	2.6	56.334	50.70306	1.837	3.6	ug/L
	Ba	137	214061.282	3.7	65.001	51.13788	2.342	4.6	ug/L
>	Tb	159	442744.540	1.1	486746.910				ug/L
>	Ho	165	432819.337	1.7	457509.069				ug/L
	Tl	203	406822.024	1.7	48.667	51.40247	0.288	0.6	ug/L
	Tl	205	945524.102	1.0	63.334	52.49999	0.427	0.8	ug/L
	Pb	208	1295445.504	0.8	537.345	51.10836	0.878	1.7	ug/L

Pb	206	334032.812	1.3	135.336	50.19969	0.211	0.4	ug/L
Pb	207	277609.291	1.0	124.336	49.65080	0.986	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	98.365				
	Al	27	106.116				
>	Sc	45		95.075			
	V	51	99.316				
	Cr	52	98.499				
	Cr	53	95.817				
	Mn	55	104.363				
	Co	59	99.753				
	Ni	60	100.545				
	Ni	62	97.863				
	Cu	63	101.503				
	Cu	65	100.643				
	Zn	66	98.178				
	Zn	67	98.425				
	Zn	68	97.912				
>	Ge	72		89.920			
	As	75	99.206				
	Se	77	100.351				
	Se	78	98.465				
	Se	82	103.602				
	Kr	83					
	Y	89					
	Mo	95	96.378				
	Mo	97	99.016				
	Mo	98	97.419				
	Rh	103					
	Ag	107	97.285				
	Ag	109	97.687				
	Cd	111	101.672				
	Cd	114	101.450				
>	In	115		94.474			
	Sb	121	99.964				
	Sb	123	97.635				
	Ba	135	101.406				
	Ba	137	102.276				
>	Tb	159		90.960			
>	Ho	165		94.603			
	Tl	203	102.805				
	Tl	205	105.000				
	Pb	208	102.217				
	Pb	206	100.399				
	Pb	207	99.302				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 20, 2006 14:04:49
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112006\QC Std 7.047

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.334	11.6	51.334	0.00290	0.006	203.7	ug/L
	Al	27	3344.705	2.7	4379.197	-0.08111	0.013	15.8	ug/L
>	Sc	45	390245.925	1.3	424656.486				ug/L
	V	51	4683.278	3.4	5557.188	-0.02720	0.014	50.5	ug/L
	Cr	52	15962.440	2.6	18419.857	-0.07287	0.039	53.5	ug/L
	Cr	53	775.044	0.6	945.730	-0.05718	0.009	15.2	ug/L
	Mn	55	658.033	2.4	692.369	0.00264	0.000	8.0	ug/L
	Co	59	168.670	6.5	265.007	-0.00420	0.001	19.7	ug/L
	Ni	60	145.336	10.7	177.337	-0.00331	0.005	142.0	ug/L
	Ni	62	216.338	3.0	902.391	-1.12765	0.020	1.8	ug/L
	Cu	63	355.678	2.0	876.388	-0.05271	0.002	3.5	ug/L
	Cu	65	200.004	7.0	254.340	-0.00643	0.004	55.2	ug/L
	Zn	66	2138.963	5.1	2747.481	-0.13029	0.041	31.6	ug/L
	Zn	67	427.349	3.4	502.020	-0.04213	0.038	90.9	ug/L
	Zn	68	1610.838	0.9	1975.921	-0.08379	0.032	38.3	ug/L
>	Ge	72	200870.377	2.5	227398.462				ug/L
	As	75	143.336	9.2	127.002	0.01248	0.006	50.2	ug/L
	Se	77	217.069	3.9	226.870	0.08967	0.067	74.6	ug/L
	Se	78	14496.983	1.1	16063.843	0.53415	0.853	159.7	mg/L
	Se	82	1042.532	1.9	661.626	1.76766	0.044	2.5	ug/L
	Kr	83	1077.414	2.1	694.703				mg/L
	Y	89	382098.232	0.6	420425.593				ug/L
	Mo	95	710.704	13.9	127.336	0.10022	0.016	15.7	ug/L
	Mo	97	408.348	15.7	61.668	0.09732	0.017	17.2	ug/L
	Mo	98	966.082	21.5	69.388	0.09434	0.021	21.9	ug/L
	Rh	103	344279.705	1.4	381957.031				ug/L
	Ag	107	157.336	28.7	56.667	0.00718	0.003	42.3	ug/L
	Ag	109	133.669	33.7	52.667	0.00603	0.003	52.9	ug/L
	Cd	111	236.712	1.2	249.856	-0.00118	0.001	123.3	ug/L
	Cd	114	45.830	15.7	64.386	-0.00223	0.001	43.3	ug/L
>	In	115	381650.253	1.1	396447.935				ug/L
	Sb	121	1290.114	11.9	62.334	0.12420	0.014	11.6	ug/L
	Sb	123	972.549	12.8	53.222	0.12316	0.016	13.3	ug/L
	Ba	135	49.334	16.9	56.334	-0.00081	0.003	363.3	ug/L
	Ba	137	72.334	18.0	65.001	0.00311	0.003	83.7	ug/L
>	Tb	159	442680.058	3.3	486746.910				ug/L
>	Ho	165	429058.954	1.5	457509.069				ug/L
	Tl	203	82.668	13.9	48.667	0.00473	0.002	33.7	ug/L
	Tl	205	137.003	14.6	63.334	0.00436	0.001	27.8	ug/L
	Pb	208	412.675	5.1	537.345	-0.00362	0.001	28.8	ug/L

Pb	206	124.336	9.3	135.336	-0.00037	0.002	542.6	ug/L
Pb	207	91.668	11.7	124.336	-0.00451	0.002	38.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		91.897			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		88.334			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.267			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		90.947			
>	Ho	165		93.782			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Metals Cover Page

Analyst: S. Delto **Date:** 11/21/06 **Instrument:** ELAN

Data File: 112106 **Reviewed By:** SD 11/22/06 **Entered By:** SD 11/22/06

Approval: CK 11/22/06

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
137822	Pb	M3990146	2008		
137823	Be Mn Ni As Cd	M3990146	6020	Cu	

Package Data:

Client Sub#	Package	Analytes Used	Failed Metals	Batch ID	Stds Attached?	Tranferred To LIMS	Raw Data Copied?
33493	5 / ASP	Be Mn Ni As Cd	Cu	M3990146	Yes / No	MARRS / Run above	Yes / No
	5 / ASP	9500336 - Mn			Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, November 21, 2006 09:17:36
Sample Description:
Method File: c:\elandata\Method\EPA DAILY.mth
Dataset File: c:\elandata\Dataset\Daily2006\Sample.241
Tuning File: c:\elandata\Tuning\epa.tun
Optimization File: c:\elandata\Optimize\epa2.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 60
Current Dead Time (ns): 60

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	63564.4	63564.430	2015.118	3.2
	Rh	102.9	352900.7	352900.729	8653.625	2.5
	In	114.9	359254.9	359254.922	7755.537	2.2
	Pb	208.0	144816.7	144816.738	3293.502	2.3
	U	238.1	248906.1	248906.117	5969.677	2.4
⌈>	Ba	137.9	289673.2	289673.159	7353.083	2.5
⌊	Ba++	69.0	6979.0	0.024	0.000	1.5
⌈>	Ce	139.9	392279.8	392279.799	11566.557	2.9
⌊	CeO	155.9	7748.8	0.020	0.001	2.9
	Bkgd	220.0	34.2	34.203	4.765	13.9

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
8.00	Lens Voltage
1500.00	ICP RF Power
-1832.50	Analog Stage Voltage
1017.50	Pulse Stage Voltage
70.00	Discriminator Threshold
-2.50	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	6.0	11347.2
Co	59	29	7.8	163395.3
In	115	29	8.0	266809.4

Elan 9000 Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, November 21, 2006 09:33:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\Blank.001

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.001	8.1					ug/L
	Al	27	9687.584	37.5					ug/L
>	Sc	45	378480.621	2.0					ug/L
	V	51	4514.855	2.8					ug/L
	Cr	52	14908.140	0.9					ug/L
	Cr	53	661.366	1.5					ug/L
	Mn	55	587.693	8.5					ug/L
	Co	59	242.339	6.4					ug/L
	Ni	60	623.696	8.9					ug/L
	Ni	62	504.354	3.7					ug/L
	Cu	63	1290.783	21.5					ug/L
	Cu	65	588.027	20.6					ug/L
	Zn	66	2796.188	28.1					ug/L
	Zn	67	500.354	24.6					ug/L
	Zn	68	2052.621	28.7					ug/L
>	Ge	72	193550.369	2.5					ug/L
	As	75	97.335	6.8					ug/L
	Se	77	187.669	1.5					ug/L
	Se	78	13588.495	1.5					mg/L
	Se	82	1139.011	2.2					ug/L
	Kr	83	1141.423	2.7					mg/L
	Y	89	354910.360	4.5					ug/L
	Mo	95	114.335	3.6					ug/L
	Mo	97	49.001	10.8					ug/L
	Mo	98	58.127	6.6					ug/L
	Rh	103	323620.727	1.9					ug/L
	Ag	107	57.001	15.0					ug/L
	Ag	109	41.334	22.5					ug/L
	Cd	111	233.296	9.2					ug/L
	Cd	114	64.652	18.9					ug/L
>	In	115	364581.825	1.7					ug/L
	Sb	121	51.001	23.9					ug/L
	Sb	123	45.100	6.7					ug/L
	Ba	135	65.001	24.2					ug/L
	Ba	137	74.668	31.4					ug/L
>	Tb	159	439210.410	1.8					ug/L
>	Ho	165	425708.154	1.3					ug/L
	Tl	203	51.001	10.4					ug/L
	Tl	205	72.668	10.3					ug/L
	Pb	208	767.689	35.2					ug/L

Pb	206	194.671	31.6	ug/L
Pb	207	181.671	35.0	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, November 21, 2006 09:38:58
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\Standard 1.002

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	10964.986	1.5	54.001	10.00000	0.211	2.1	ug/L
	Al	27	88120.569	2.7	9687.584	10.00000	0.245	2.5	ug/L
>	Sc	45	360234.652	3.2	378480.621				ug/L
	V	51	159192.082	3.0	4514.855	10.00000	0.088	0.9	ug/L
	Cr	52	144871.255	1.0	14908.140	10.00000	0.305	3.1	ug/L
	Cr	53	16042.921	0.3	661.366	10.00000	0.303	3.0	ug/L
	Mn	55	173217.554	0.9	587.693	10.00000	0.127	1.3	ug/L
	Co	59	154126.474	0.7	242.339	10.00000	0.088	0.9	ug/L
	Ni	60	34218.144	2.4	623.696	10.00000	0.207	2.1	ug/L
	Ni	62	5351.772	2.5	504.354	10.00000	0.319	3.2	ug/L
	Cu	63	77795.984	2.0	1290.783	10.00000	0.242	2.4	ug/L
	Cu	65	37313.729	0.9	588.027	10.00000	0.127	1.3	ug/L
	Zn	66	22384.247	0.6	2796.188	10.00000	0.114	1.1	ug/L
	Zn	67	4026.347	3.4	500.354	10.00000	0.413	4.1	ug/L
	Zn	68	16579.983	2.5	2052.621	10.00000	0.262	2.6	ug/L
>	Ge	72	189838.191	0.4	193550.369				ug/L
	As	75	25039.485	1.6	97.335	10.00000	0.181	1.8	ug/L
	Se	77	1932.891	3.2	187.669	10.00000	0.397	4.0	ug/L
	Se	78	19421.524	2.1	13588.495	10.00000	0.790	7.9	mg/L
	Se	82	3524.212	2.1	1139.011	10.00000	0.367	3.7	ug/L
	Kr	83	1128.088	1.7	1141.423				mg/L
	Y	89	348769.309	2.3	354910.360				ug/L
	Mo	95	53971.147	2.4	114.335	10.00000	0.218	2.2	ug/L
	Mo	97	32590.299	2.9	49.001	10.00000	0.352	3.5	ug/L
	Mo	98	84343.314	2.9	58.127	10.00000	0.273	2.7	ug/L
	Rh	103	322108.223	2.9	323620.727				ug/L
	Ag	107	141559.673	3.0	57.001	10.00000	0.312	3.1	ug/L
	Ag	109	128823.500	1.4	41.334	10.00000	0.143	1.4	ug/L
	Cd	111	30646.534	1.2	233.296	10.00000	0.183	1.8	ug/L
	Cd	114	67842.105	0.8	64.652	10.00000	0.106	1.1	ug/L
>	In	115	367532.976	0.9	364581.825				ug/L
	Sb	121	96738.219	0.1	51.001	10.00000	0.089	0.9	ug/L
	Sb	123	75255.026	1.4	45.100	10.00000	0.084	0.8	ug/L
	Ba	135	25097.017	3.6	65.001	10.00000	0.498	5.0	ug/L
	Ba	137	43919.896	1.8	74.668	10.00000	0.336	3.4	ug/L
>	Tb	159	421509.211	2.1	439210.410				ug/L
>	Ho	165	421554.780	0.9	425708.154				ug/L
	Tl	203	82720.703	0.6	51.001	10.00000	0.029	0.3	ug/L
	Tl	205	192256.829	1.8	72.668	10.00000	0.248	2.5	ug/L
	Pb	208	262893.819	0.7	767.689	10.00000	0.042	0.4	ug/L

Pb	206	67856.495	0.4	194.671	10.00000	0.075	0.7	ug/L
Pb	207	57542.599	1.8	181.671	10.00000	0.119	1.2	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, November 21, 2006 09:44:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\Standard 2.003

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	21751.239	1.6	54.001	19.86165	0.394	2.0	ug/L
	Al	27	177683.932	1.3	9687.584	20.14340	0.952	4.7	ug/L
>	Sc	45	370581.167	3.3	378480.621				ug/L
	V	51	309278.227	1.5	4514.855	19.82155	0.372	1.9	ug/L
	Cr	52	279191.744	0.8	14908.140	19.93554	0.564	2.8	ug/L
	Cr	53	31324.433	2.5	661.366	19.86401	0.170	0.9	ug/L
	Mn	55	355277.731	2.5	587.693	20.14724	0.334	1.7	ug/L
	Co	59	298738.414	1.1	242.339	19.91871	0.092	0.5	ug/L
	Ni	60	66612.203	1.4	623.696	19.97020	0.540	2.7	ug/L
	Ni	62	10429.962	1.9	504.354	20.13178	0.120	0.6	ug/L
	Cu	63	150544.547	0.9	1290.783	19.94177	0.302	1.5	ug/L
	Cu	65	72611.406	1.5	588.027	19.96249	0.080	0.4	ug/L
	Zn	66	43705.464	2.6	2796.188	20.20783	0.258	1.3	ug/L
	Zn	67	7521.802	0.9	500.354	20.02184	0.351	1.8	ug/L
	Zn	68	32490.553	1.8	2052.621	20.22089	0.150	0.7	ug/L
>	Ge	72	187877.387	1.4	193550.369				ug/L
	As	75	47441.132	0.6	97.335	19.83073	0.321	1.6	ug/L
	Se	77	3632.458	2.2	187.669	19.98685	0.457	2.3	ug/L
	Se	78	24602.117	1.3	13588.495	19.77574	0.984	5.0	mg/L
	Se	82	5933.379	1.8	1139.011	20.05227	0.269	1.3	ug/L
	Kr	83	1165.426	1.2	1141.423				mg/L
	Y	89	354663.162	1.3	354910.360				ug/L
	Mo	95	100710.977	1.3	114.335	19.96497	0.174	0.9	ug/L
	Mo	97	65338.190	1.9	49.001	20.24543	0.129	0.6	ug/L
	Mo	98	166055.347	3.1	58.127	20.17444	0.614	3.0	ug/L
	Rh	103	331253.768	5.3	323620.727				ug/L
	Ag	107	267674.789	1.7	57.001	20.01475	0.437	2.2	ug/L
	Ag	109	248298.566	1.1	41.334	20.09054	0.314	1.6	ug/L
	Cd	111	61109.157	1.7	233.296	20.23756	0.203	1.0	ug/L
	Cd	114	137700.695	5.4	64.652	20.29069	0.799	3.9	ug/L
>	In	115	346305.329	1.5	364581.825				ug/L
	Sb	121	191359.658	3.7	51.001	20.19120	0.446	2.2	ug/L
	Sb	123	142294.002	0.9	45.100	20.01533	0.358	1.8	ug/L
	Ba	135	48382.690	4.2	65.001	19.74514	0.527	2.7	ug/L
	Ba	137	84203.800	0.8	74.668	19.72259	0.192	1.0	ug/L
>	Tb	159	432664.206	1.5	439210.410				ug/L
>	Ho	165	411626.794	0.7	425708.154				ug/L
	Tl	203	161366.398	1.0	51.001	19.99667	0.072	0.4	ug/L
	Tl	205	385796.797	2.6	72.668	20.10787	0.453	2.3	ug/L
	Pb	208	517203.702	2.1	767.689	20.03502	0.338	1.7	ug/L

Pb	206	132148.109	1.9	194.671	19.99433	0.348	1.7	ug/L
Pb	207	111400.108	0.5	181.671	19.97152	0.147	0.7	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, November 21, 2006 09:50:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\Standard 3.004

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	104113.691	2.7	54.001	99.73120	0.916	0.9	ug/L
	Al	27	825652.075	2.9	9687.584	99.85985	5.345	5.4	ug/L
>	Sc	45	372854.254	3.2	378480.621				ug/L
	V	51	1407087.546	1.9	4514.855	99.51021	1.579	1.6	ug/L
	Cr	52	1242958.112	4.0	14908.140	99.58533	4.367	4.4	ug/L
	Cr	53	150677.167	1.9	661.366	99.83077	1.526	1.5	ug/L
	Mn	55	1645969.080	2.3	587.693	99.51149	1.984	2.0	ug/L
	Co	59	1424048.044	2.8	242.339	99.59503	0.296	0.3	ug/L
	Ni	60	316444.688	3.1	623.696	99.62352	2.242	2.2	ug/L
	Ni	62	48941.482	1.8	504.354	99.75790	0.960	1.0	ug/L
	Cu	63	737825.733	3.1	1290.783	99.77048	0.604	0.6	ug/L
	Cu	65	359579.143	2.2	588.027	99.82646	0.408	0.4	ug/L
	Zn	66	207772.523	3.0	2796.188	99.90325	1.662	1.7	ug/L
	Zn	67	35283.563	1.2	500.354	99.80187	1.471	1.5	ug/L
	Zn	68	150454.600	2.1	2052.621	99.77321	2.150	2.2	ug/L
>	Ge	72	193730.226	2.6	193550.369				ug/L
	As	75	233120.836	2.3	97.335	99.73315	3.483	3.5	ug/L
	Se	77	17187.513	2.4	187.669	99.77607	0.355	0.4	ug/L
	Se	78	68541.595	2.5	13588.495	99.60401	0.268	0.3	mg/L
	Se	82	24850.627	3.5	1139.011	99.77598	1.500	1.5	ug/L
	Kr	83	1145.090	3.6	1141.423				mg/L
	Y	89	355332.011	4.3	354910.360				ug/L
	Mo	95	485276.269	2.1	114.335	99.75777	0.964	1.0	ug/L
	Mo	97	316026.611	2.5	49.001	99.84408	1.004	1.0	ug/L
	Mo	98	811235.155	2.3	58.127	99.87399	1.054	1.1	ug/L
	Rh	103	328715.119	1.9	323620.727				ug/L
	Ag	107	1242195.325	1.1	57.001	99.57663	1.059	1.1	ug/L
	Ag	109	1208090.648	1.9	41.334	99.83286	0.612	0.6	ug/L
	Cd	111	288843.716	2.5	233.296	99.73951	1.615	1.6	ug/L
	Cd	114	660238.152	2.3	64.652	99.81295	0.828	0.8	ug/L
>	In	115	350410.136	1.6	364581.825				ug/L
	Sb	121	915602.086	2.8	51.001	99.77646	1.424	1.4	ug/L
	Sb	123	686795.082	2.4	45.100	99.77474	0.855	0.9	ug/L
	Ba	135	240835.762	2.3	65.001	99.97039	2.569	2.6	ug/L
	Ba	137	402746.085	2.9	74.668	99.76561	2.121	2.1	ug/L
>	Tb	159	428496.661	1.0	439210.410				ug/L
>	Ho	165	414540.098	1.9	425708.154				ug/L
	Tl	203	760928.705	2.1	51.001	99.67873	1.480	1.5	ug/L
	Tl	205	1726745.758	2.4	72.668	99.43741	1.221	1.2	ug/L
	Pb	208	2407794.514	2.3	767.689	99.62755	0.769	0.8	ug/L

Pb	206	634928.801	4.1	194.671	99.77481	2.279	2.3	ug/L
Pb	207	527777.931	2.0	181.671	99.70068	0.910	0.9	ug/L

Quantitative Analysis Calibration Report

File Name: 112106.cal
File Path: C:\elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.00	0.00	0.999923
Al	26.982	Linear Thru Zero	0.02	0.00	0.999975
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V	50.944	Linear Thru Zero	0.04	0.00	0.999751
Cr	51.941	Linear Thru Zero	0.03	0.00	0.999827
Cr	52.941	Linear Thru Zero	0.00	0.00	0.999967
Mn	54.938	Linear Thru Zero	0.09	0.00	0.999755
Co	58.933	Linear Thru Zero	0.07	0.00	0.999834
Ni	59.933	Linear Thru Zero	0.02	0.00	0.999858
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999937
Cu	62.930	Linear Thru Zero	0.04	0.00	0.999946
Cu	64.928	Linear Thru Zero	0.02	0.00	0.999970
Zn	65.926	Linear Thru Zero	0.01	0.00	0.999980
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999961
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999936
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.01	0.00	0.999921
Se	76.920	Linear Thru Zero	0.00	0.00	0.999950
Se	77.917	Linear Thru Zero	0.00	0.00	0.999829
Se	81.917	Linear Thru Zero	0.00	0.00	0.999949
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Mo	94.906	Linear Thru Zero	0.01	0.00	0.999941
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999960
Mo	97.906	Linear Thru Zero	0.02	0.00	0.999977
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
Ag	106.905	Linear Thru Zero	0.04	0.00	0.999821
Ag	108.905	Linear Thru Zero	0.03	0.00	0.999970
Cd	110.904	Linear Thru Zero	0.01	0.00	0.999917
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999943
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb	120.904	Linear Thru Zero	0.03	0.00	0.999941
Sb	122.904	Linear Thru Zero	0.02	0.00	0.999949
Ba	134.906	Linear Thru Zero	0.01	0.00	0.999983
Ba	136.905	Linear Thru Zero	0.01	0.00	0.999925
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Tl	202.972	Linear Thru Zero	0.02	0.00	0.999897
Tl	204.975	Linear Thru Zero	0.04	0.00	0.999680
Pb	207.977	Linear Thru Zero	0.06	0.00	0.999861

Pb	205.975	Linear Thru Zero	0.02	0.00	0.999949
Pb	206.976	Linear Thru Zero	0.01	0.00	0.999910

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, November 21, 2006 09:56:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 1.005

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50482.396	3.3	54.001	49.28973	1.277	2.6	ug/L
	Al	27	422973.985	3.5	9687.584	51.56228	1.082	2.1	ug/L
>	Sc	45	365552.790	1.8	378480.621				ug/L
	V	51	735933.185	3.4	4514.855	52.91584	1.190	2.2	ug/L
	Cr	52	628608.266	2.1	14908.140	50.77442	0.760	1.5	ug/L
	Cr	53	76762.411	1.5	661.366	51.65365	0.347	0.7	ug/L
	Mn	55	844913.869	2.9	587.693	53.32936	1.265	2.4	ug/L
	Co	59	725485.467	0.6	242.339	52.99564	0.307	0.6	ug/L
	Ni	60	158514.742	1.0	623.696	52.03288	0.576	1.1	ug/L
	Ni	62	24448.395	1.7	504.354	51.54838	0.536	1.0	ug/L
	Cu	63	380096.306	0.9	1290.783	53.61705	0.861	1.6	ug/L
	Cu	65	177963.436	1.1	588.027	51.52825	0.703	1.4	ug/L
	Zn	66	103056.396	1.1	2796.188	51.10601	0.661	1.3	ug/L
	Zn	67	17717.328	1.6	500.354	51.65703	1.106	2.1	ug/L
	Zn	68	72519.599	1.2	2052.621	49.54425	1.084	2.2	ug/L
>	Ge	72	185465.453	1.1	193550.369				ug/L
	As	75	112560.722	1.9	97.335	50.25574	0.465	0.9	ug/L
	Se	77	8597.032	0.5	187.669	51.60481	0.327	0.6	ug/L
	Se	78	40027.907	3.4	13588.495	51.13168	1.868	3.7	mg/L
	Se	82	12904.184	1.2	1139.011	51.93171	0.629	1.2	ug/L
	Kr	83	1181.096	3.5	1141.423				mg/L
	Y	89	343157.022	1.0	354910.360				ug/L
	Mo	95	248103.117	0.9	114.335	52.75170	0.323	0.6	ug/L
	Mo	97	153302.475	0.7	49.001	50.10347	0.655	1.3	ug/L
	Mo	98	407336.960	2.0	58.127	51.87368	0.670	1.3	ug/L
	Rh	103	307742.040	1.7	323620.727				ug/L
	Ag	107	620526.135	1.2	57.001	51.45028	0.307	0.6	ug/L
	Ag	109	600265.680	2.4	41.334	51.30989	0.870	1.7	ug/L
	Cd	111	139358.399	2.0	233.296	49.74074	0.642	1.3	ug/L
	Cd	114	327564.468	1.5	64.652	51.23267	1.181	2.3	ug/L
>	In	115	338734.915	0.9	364581.825				ug/L
	Sb	121	447049.676	3.3	51.001	50.40225	1.752	3.5	ug/L
	Sb	123	338106.225	2.5	45.100	50.80836	0.868	1.7	ug/L
	Ba	135	121274.448	1.7	65.001	52.66838	0.627	1.2	ug/L
	Ba	137	206368.038	2.5	74.668	53.49524	0.949	1.8	ug/L
>	Tb	159	409428.971	1.2	439210.410				ug/L
>	Ho	165	404747.142	2.2	425708.154				ug/L
	Tl	203	381805.312	0.7	51.001	51.23703	1.230	2.4	ug/L
	Tl	205	895744.810	1.0	72.668	52.85362	1.622	3.1	ug/L
	Pb	208	1219104.689	1.8	767.689	51.66642	1.436	2.8	ug/L

Pb	206	318108.888	2.6	194.671	51.21597	1.840	3.6	ug/L
Pb	207	259672.379	1.3	181.671	50.24086	1.339	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	98.579				
	Al	27	103.125				
>	Sc	45		96.584			
	V	51	105.832				
	Cr	52	101.549				
	Cr	53	103.307				
	Mn	55	106.659				
	Co	59	105.991				
	Ni	60	104.066				
	Ni	62	103.097				
	Cu	63	107.234				
	Cu	65	103.057				
	Zn	66	102.212				
	Zn	67	103.314				
	Zn	68	99.088				
>	Ge	72		95.823			
	As	75	100.511				
	Se	77	103.210				
	Se	78	102.263				
	Se	82	103.863				
	Kr	83					
	Y	89					
	Mo	95	105.503				
	Mo	97	100.207				
	Mo	98	103.747				
	Rh	103					
	Ag	107	102.901				
	Ag	109	102.620				
	Cd	111	99.481				
	Cd	114	102.465				
>	In	115		92.911			
	Sb	121	100.804				
	Sb	123	101.617				
	Ba	135	105.337				
	Ba	137	106.990				
>	Tb	159		93.219			
>	Ho	165		95.076			
	Tl	203	102.474				
	Tl	205	105.707				
	Pb	208	103.333				
	Pb	206	102.432				
	Pb	207	100.482				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, November 21, 2006 10:02:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 2.006

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	52.667	7.2	54.001	-0.00036	0.006	1664.0	ug/L
	Al	27	3133.620	0.9	9687.584	-0.78317	0.020	2.6	ug/L
>	Sc	45	373071.384	4.6	378480.621				ug/L
	V	51	4367.326	3.0	4514.855	-0.00552	0.015	267.0	ug/L
	Cr	52	14443.320	2.0	14908.140	-0.01892	0.052	277.5	ug/L
	Cr	53	652.365	4.7	661.366	0.00030	0.004	1409.8	ug/L
	Mn	55	501.353	4.8	587.693	-0.00453	0.001	33.0	ug/L
	Co	59	224.005	6.7	242.339	-0.00090	0.001	163.6	ug/L
	Ni	60	518.355	3.5	623.696	-0.02950	0.006	19.2	ug/L
	Ni	62	549.024	3.4	504.354	0.11884	0.065	54.5	ug/L
	Cu	63	971.733	1.3	1290.783	-0.04020	0.004	9.8	ug/L
	Cu	65	407.347	3.4	588.027	-0.04756	0.007	15.7	ug/L
	Zn	66	1590.501	3.5	2796.188	-0.57037	0.026	4.6	ug/L
	Zn	67	312.342	5.4	500.354	-0.51957	0.038	7.4	ug/L
	Zn	68	1169.427	1.6	2052.621	-0.57568	0.035	6.1	ug/L
>	Ge	72	189259.912	3.1	193550.369				ug/L
	As	75	131.669	11.6	97.335	0.01590	0.005	33.9	ug/L
	Se	77	192.602	1.3	187.669	0.05508	0.022	40.0	ug/L
	Se	78	13473.750	1.4	13588.495	0.36021	0.765	212.5	mg/L
	Se	82	1172.816	3.8	1139.011	0.25375	0.039	15.5	ug/L
	Kr	83	1159.759	2.4	1141.423				mg/L
	Y	89	356439.907	2.8	354910.360				ug/L
	Mo	95	631.364	12.8	114.335	0.10787	0.013	11.7	ug/L
	Mo	97	345.011	13.6	49.001	0.09459	0.010	10.6	ug/L
	Mo	98	809.064	18.8	58.127	0.09305	0.015	16.1	ug/L
	Rh	103	322748.798	1.0	323620.727				ug/L
	Ag	107	132.336	21.2	57.001	0.00626	0.002	32.8	ug/L
	Ag	109	120.335	9.0	41.334	0.00673	0.001	12.2	ug/L
	Cd	111	205.850	5.8	233.296	-0.00573	0.006	107.9	ug/L
	Cd	114	57.723	7.1	64.652	-0.00059	0.001	149.3	ug/L
>	In	115	348086.270	4.3	364581.825				ug/L
	Sb	121	1053.411	11.5	51.001	0.11010	0.010	9.3	ug/L
	Sb	123	790.866	13.6	45.100	0.10912	0.012	10.5	ug/L
	Ba	135	44.667	1.3	65.001	-0.00796	0.000	1.7	ug/L
	Ba	137	59.334	18.6	74.668	-0.00346	0.003	85.2	ug/L
>	Tb	159	432622.687	1.6	439210.410				ug/L
>	Ho	165	411041.049	3.3	425708.154				ug/L
	Tl	203	66.001	8.0	51.001	0.00223	0.001	43.4	ug/L
	Tl	205	139.669	7.9	72.668	0.00403	0.000	11.7	ug/L
	Pb	208	414.341	10.6	767.689	-0.01366	0.001	10.7	ug/L

Pb	206	118.002	18.1	194.671	-0.01111	0.003	28.9	ug/L
Pb	207	98.335	4.1	181.671	-0.01469	0.000	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.571			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.783			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		95.475			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.500			
>	Ho	165		96.555			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, November 21, 2006 10:08:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 3.007

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1127.754	4.2	54.001	1.02269	0.075	7.4	ug/L
	Al	27	92342.105	1.2	9687.584	10.03899	0.355	3.5	ug/L
>	Sc	45	375866.215	3.6	378480.621				ug/L
	V	51	19679.943	4.7	4514.855	1.06928	0.048	4.5	ug/L
	Cr	52	27868.810	1.7	14908.140	1.05170	0.067	6.4	ug/L
	Cr	53	2157.968	2.9	661.366	0.99113	0.034	3.4	ug/L
	Mn	55	19138.486	2.6	587.693	1.15020	0.022	1.9	ug/L
	Co	59	15564.679	1.0	242.339	1.09872	0.008	0.7	ug/L
	Ni	60	3646.168	2.1	623.696	0.98152	0.015	1.5	ug/L
	Ni	62	1004.737	3.0	504.354	1.08031	0.046	4.2	ug/L
	Cu	63	8184.101	3.2	1290.783	0.96093	0.026	2.7	ug/L
	Cu	65	3989.662	1.8	588.027	0.97306	0.012	1.2	ug/L
	Zn	66	13074.379	0.8	2796.188	5.16622	0.093	1.8	ug/L
	Zn	67	2161.302	5.5	500.354	4.91473	0.295	6.0	ug/L
	Zn	68	9437.437	2.5	2052.621	5.11960	0.166	3.2	ug/L
>	Ge	72	189058.854	0.9	193550.369				ug/L
	As	75	2569.422	2.4	97.335	1.08461	0.017	1.6	ug/L
	Se	77	361.408	3.9	187.669	1.07068	0.066	6.2	ug/L
	Se	78	14267.577	3.0	13588.495	1.84427	0.575	31.2	mg/L
	Se	82	1430.990	2.5	1139.011	1.37258	0.097	7.1	ug/L
	Kr	83	1198.431	1.4	1141.423				mg/L
	Y	89	351304.106	0.8	354910.360				ug/L
	Mo	95	5397.135	2.2	114.335	1.05819	0.025	2.3	ug/L
	Mo	97	3354.375	2.6	49.001	1.01736	0.021	2.0	ug/L
	Mo	98	8628.461	3.5	58.127	1.02741	0.012	1.2	ug/L
	Rh	103	332499.322	1.1	323620.727				ug/L
	Ag	107	13913.746	1.2	57.001	1.08212	0.036	3.3	ug/L
	Ag	109	12707.477	1.8	41.334	1.01959	0.028	2.8	ug/L
	Cd	111	3242.739	1.6	233.296	1.01412	0.032	3.2	ug/L
	Cd	114	6928.765	0.9	64.652	1.01157	0.047	4.6	ug/L
>	In	115	360056.672	4.6	364581.825				ug/L
	Sb	121	10015.452	3.2	51.001	1.05816	0.051	4.8	ug/L
	Sb	123	7522.032	4.9	45.100	1.05736	0.018	1.7	ug/L
	Ba	135	2625.440	2.5	65.001	1.01985	0.030	2.9	ug/L
	Ba	137	4624.329	2.0	74.668	1.08173	0.028	2.6	ug/L
>	Tb	159	446482.324	0.6	439210.410				ug/L
>	Ho	165	409021.416	0.7	425708.154				ug/L
	Tl	203	8277.193	2.2	51.001	1.09236	0.018	1.7	ug/L
	Tl	205	19950.397	2.8	72.668	1.16026	0.024	2.1	ug/L
	Pb	208	26946.636	1.3	767.689	1.09948	0.014	1.3	ug/L

Pb	206	6922.944	0.6	194.671	1.07338	0.001	0.1	ug/L
Pb	207	5790.402	1.2	181.671	1.07555	0.013	1.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	102.269				
	Al	27	100.390				
>	Sc	45		99.309			
	V	51	106.928				
	Cr	52	105.170				
	Cr	53	99.113				
	Mn	55	115.020				
	Co	59	109.872				
	Ni	60	98.152				
	Ni	62	108.031				
	Cu	63	96.093				
	Cu	65	97.306				
	Zn	66	103.324				
	Zn	67	98.295				
	Zn	68	102.392				
>	Ge	72		97.679			
	As	75	108.461				
	Se	77	107.068				
	Se	78	184.427				
	Se	82	137.258				
	Kr	83					
	Y	89					
	Mo	95	105.819				
	Mo	97	101.736				
	Mo	98	102.741				
	Rh	103					
	Ag	107	108.212				
	Ag	109	101.959				
	Cd	111	101.412				
	Cd	114	101.157				
>	In	115		98.759			
	Sb	121	105.816				
	Sb	123	105.736				
	Ba	135	101.985				
	Ba	137	108.173				
>	Tb	159		101.656			
>	Ho	165		96.080			
	Tl	203	109.236				
	Tl	205	116.026				
	Pb	208	109.948				
	Pb	206	107.338				
	Pb	207	107.555				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, November 21, 2006 10:14:42
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 4.008

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	62.668	6.0	54.001	0.00828	0.004	43.9	ug/L
	Al	27	187845464.156	1.1	9687.584	22656.56731	337.765	1.5	ug/L
>	Sc	45	377954.768	2.4	378480.621				ug/L
	V	51	3696.997	5.2	4514.855	-0.05690	0.007	12.6	ug/L
	Cr	52	23223.558	2.2	14908.140	0.66655	0.009	1.4	ug/L
	Cr	53	7614.894	5.3	661.366	4.56183	0.160	3.5	ug/L
	Mn	55	6419.203	1.5	587.693	0.32304	0.017	5.1	ug/L
	Co	59	1012.738	3.2	242.339	0.04842	0.000	0.2	ug/L
	Ni	60	2362.026	5.3	623.696	0.49065	0.026	5.4	ug/L
	Ni	62	2251.994	1.9	504.354	3.24293	0.137	4.2	ug/L
	Cu	63	8076.996	3.5	1290.783	0.83531	0.039	4.7	ug/L
	Cu	65	3209.317	1.7	588.027	0.66022	0.013	1.9	ug/L
	Zn	66	4229.784	5.5	2796.188	0.53792	0.060	11.1	ug/L
	Zn	67	1909.238	6.6	500.354	3.61773	0.287	7.9	ug/L
	Zn	68	2001.927	1.9	2052.621	-0.13840	0.037	26.7	ug/L
>	Ge	72	209902.814	3.2	193550.369				ug/L
	As	75	2062.610	8.5	97.335	0.77182	0.043	5.5	ug/L
	Se	77	841.443	5.1	187.669	3.45391	0.106	3.1	ug/L
	Se	78	14663.230	1.1	13588.495	-0.10307	0.951	923.0	mg/L
	Se	82	1319.971	3.1	1139.011	0.32961	0.080	24.1	ug/L
	Kr	83	1407.800	3.4	1141.423				mg/L
	Y	89	362047.318	1.8	354910.360				ug/L
	Mo	95	2487134.152	2.6	114.335	522.40966	17.219	3.3	ug/L
	Mo	97	1283890.018	0.6	49.001	414.42809	6.920	1.7	ug/L
	Mo	98	3896078.057	3.2	58.127	489.92074	12.550	2.6	ug/L
	Rh	103	307023.384	2.5	323620.727				ug/L
	Ag	107	416.015	3.6	57.001	0.02968	0.002	5.2	ug/L
	Ag	109	363.012	3.4	41.334	0.02737	0.001	5.0	ug/L
	Cd	111	321.075	21.1	233.296	0.03598	0.025	69.4	ug/L
	Cd	114	4080.305	0.9	64.652	0.62083	0.013	2.0	ug/L
>	In	115	343076.654	1.1	364581.825				ug/L
	Sb	121	3204.982	1.1	51.001	0.35146	0.004	1.2	ug/L
	Sb	123	2483.866	3.1	45.100	0.36237	0.013	3.6	ug/L
	Ba	135	140.003	9.4	65.001	0.03540	0.006	16.6	ug/L
	Ba	137	208.671	6.1	74.668	0.03686	0.003	8.9	ug/L
>	Tb	159	403570.433	2.0	439210.410				ug/L
>	Ho	165	395355.359	1.6	425708.154				ug/L
	Tl	203	2064.944	6.7	51.001	0.27699	0.015	5.4	ug/L
	Tl	205	4879.151	8.7	72.668	0.29034	0.021	7.3	ug/L
	Pb	208	1573.739	6.4	767.689	0.03736	0.004	11.2	ug/L

Pb	206	408.681	4.8	194.671	0.03757	0.003	8.0	ug/L
Pb	207	358.678	5.5	181.671	0.03768	0.005	12.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	113.283				
>	Sc	45		99.861			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.449			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	130.602				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		94.101			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		91.885			
>	Ho	165		92.870			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, November 21, 2006 10:20:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 5.009

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	142.669	6.7	54.001	0.07842	0.010	12.5	ug/L
	Al	27	196112578.793	0.6	9687.584	22679.20501	294.397	1.3	ug/L
>	Sc	45	394152.255	1.6	378480.621				ug/L
	V	51	-1300.882	233.1	4514.855	-0.40480	0.204	50.4	ug/L
	Cr	52	305359.255	3.0	14908.140	22.21705	0.382	1.7	ug/L
	Cr	53	42844.982	2.0	661.366	26.52751	0.202	0.8	ug/L
	Mn	55	387853.011	1.9	587.693	20.87530	0.650	3.1	ug/L
	Co	59	325663.760	1.1	242.339	20.29533	0.591	2.9	ug/L
	Ni	60	72835.096	2.4	623.696	20.28495	0.632	3.1	ug/L
	Ni	62	13087.066	0.6	504.354	22.98762	0.527	2.3	ug/L
	Cu	63	311270.995	2.2	1290.783	37.40946	0.283	0.8	ug/L
	Cu	65	145427.411	2.0	588.027	35.89187	1.232	3.4	ug/L
	Zn	66	50338.759	1.0	2796.188	20.50674	0.199	1.0	ug/L
	Zn	67	8909.518	2.5	500.354	21.34923	0.739	3.5	ug/L
	Zn	68	33562.505	3.4	2052.621	18.73908	1.030	5.5	ug/L
>	Ge	72	217351.434	1.8	193550.369				ug/L
	As	75	55054.166	1.5	97.335	20.95358	0.307	1.5	ug/L
	Se	77	914.650	2.4	187.669	3.68474	0.202	5.5	ug/L
	Se	78	15336.682	2.2	13588.495	0.13114	0.761	580.3	mg/L
	Se	82	1369.246	1.7	1139.011	0.34039	0.179	52.6	ug/L
	Kr	83	1356.457	2.7	1141.423				mg/L
	Y	89	376576.835	2.8	354910.360				ug/L
	Mo	95	2695823.794	3.1	114.335	537.44958	25.328	4.7	ug/L
	Mo	97	1345501.164	1.8	49.001	412.11333	9.386	2.3	ug/L
	Mo	98	4344717.695	1.5	58.127	518.45752	4.944	1.0	ug/L
	Rh	103	331777.317	3.0	323620.727				ug/L
	Ag	107	275230.459	2.0	57.001	21.37602	0.165	0.8	ug/L
	Ag	109	255850.541	1.4	41.334	20.49066	0.397	1.9	ug/L
	Cd	111	60735.625	1.0	233.296	20.26580	0.198	1.0	ug/L
	Cd	114	140503.277	1.3	64.652	20.58392	0.517	2.5	ug/L
>	In	115	361572.621	1.6	364581.825				ug/L
	Sb	121	3254.335	2.2	51.001	0.33848	0.010	3.1	ug/L
	Sb	123	2507.849	3.3	45.100	0.34680	0.008	2.3	ug/L
	Ba	135	188.337	3.2	65.001	0.05465	0.002	4.5	ug/L
	Ba	137	293.675	2.4	74.668	0.05732	0.002	3.4	ug/L
>	Tb	159	413740.827	0.2	439210.410				ug/L
>	Ho	165	405545.944	1.5	425708.154				ug/L
	Tl	203	1948.914	3.6	51.001	0.25446	0.008	3.2	ug/L
	Tl	205	4571.635	5.6	72.668	0.26494	0.011	4.2	ug/L
	Pb	208	2349.818	3.0	767.689	0.06848	0.002	3.6	ug/L

Pb	206	624.030	6.5	194.671	0.07045	0.005	7.8	ug/L
Pb	207	509.021	1.7	181.671	0.06490	0.002	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	113.396				
>	Sc	45		104.141			
	V	51					
	Cr	52	111.085				
	Cr	53	132.638				
	Mn	55	104.377				
	Co	59	101.477				
	Ni	60	101.425				
	Ni	62	114.938				
	Cu	63	187.047				
	Cu	65	179.459				
	Zn	66	102.534				
	Zn	67	106.746				
	Zn	68	93.695				
>	Ge	72		112.297			
	As	75	104.768				
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	134.362				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107	106.880				
	Ag	109	102.453				
	Cd	111	101.329				
	Cd	114	102.920				
>	In	115		99.175			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.201			
>	Ho	165		95.264			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 21, 2006 10:26:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 6.010

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	53925.511	2.3	54.001	51.66875	1.518	2.9	ug/L
	Al	27	429802.180	3.1	9687.584	51.40847	1.494	2.9	ug/L
>	Sc	45	372823.237	4.4	378480.621				ug/L
	V	51	781968.803	4.1	4514.855	55.15451	0.186	0.3	ug/L
	Cr	52	673161.399	0.9	14908.140	53.43323	2.175	4.1	ug/L
	Cr	53	79953.195	0.7	661.366	52.83785	2.689	5.1	ug/L
	Mn	55	909850.773	2.6	587.693	53.73498	0.697	1.3	ug/L
	Co	59	792968.091	4.3	242.339	54.18832	1.706	3.1	ug/L
	Ni	60	173919.173	1.7	623.696	53.42219	0.326	0.6	ug/L
	Ni	62	25818.869	1.9	504.354	50.92648	0.454	0.9	ug/L
	Cu	63	417203.691	3.2	1290.783	55.06058	1.052	1.9	ug/L
	Cu	65	195698.410	1.4	588.027	53.02682	0.745	1.4	ug/L
	Zn	66	109624.122	2.8	2796.188	50.85409	0.794	1.6	ug/L
	Zn	67	19360.682	4.1	500.354	52.83553	1.526	2.9	ug/L
	Zn	68	80343.951	1.2	2052.621	51.41367	1.076	2.1	ug/L
>	Ge	72	198201.872	1.3	193550.369				ug/L
	As	75	126065.388	1.1	97.335	52.67561	0.562	1.1	ug/L
	Se	77	9661.201	3.1	187.669	54.31184	1.051	1.9	ug/L
	Se	78	45628.151	2.0	13588.495	56.19116	0.598	1.1	mg/L
	Se	82	14065.199	2.6	1139.011	53.05426	0.795	1.5	ug/L
	Kr	83	1328.453	2.6	1141.423				mg/L
	Y	89	367124.430	0.8	354910.360				ug/L
	Mo	95	274793.133	2.8	114.335	54.45207	1.783	3.3	ug/L
	Mo	97	168182.253	2.0	49.001	51.22751	1.506	2.9	ug/L
	Mo	98	431105.258	4.2	58.127	51.13462	0.442	0.9	ug/L
	Rh	103	326432.594	1.3	323620.727				ug/L
	Ag	107	665330.085	3.4	57.001	51.39831	1.241	2.4	ug/L
	Ag	109	629920.373	2.2	41.334	50.17680	0.854	1.7	ug/L
	Cd	111	152733.032	3.3	233.296	50.79134	0.764	1.5	ug/L
	Cd	114	336286.176	2.7	64.652	49.00672	1.311	2.7	ug/L
>	In	115	363629.938	3.4	364581.825				ug/L
	Sb	121	454685.505	3.1	51.001	47.75540	0.686	1.4	ug/L
	Sb	123	350403.940	1.3	45.100	49.07829	1.043	2.1	ug/L
	Ba	135	124134.200	3.1	65.001	53.24613	2.048	3.8	ug/L
	Ba	137	219576.740	1.4	74.668	56.21176	0.787	1.4	ug/L
>	Tb	159	414625.191	1.0	439210.410				ug/L
>	Ho	165	404488.507	2.6	425708.154				ug/L
	Tl	203	391319.334	1.2	51.001	52.55882	1.748	3.3	ug/L
	Tl	205	883274.789	1.0	72.668	52.14400	0.972	1.9	ug/L
	Pb	208	1217810.063	2.2	767.689	51.63875	1.056	2.0	ug/L

Pb	206	316569.175	1.5	194.671	50.99924	1.234	2.4	ug/L
Pb	207	261518.305	1.5	181.671	50.62379	0.683	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	103.338				
	Al	27	102.817				
>	Sc	45		98.505			
	V	51	110.309				
	Cr	52	106.866				
	Cr	53	105.676				
	Mn	55	107.470				
	Co	59	108.377				
	Ni	60	106.844				
	Ni	62	101.853				
	Cu	63	110.121				
	Cu	65	106.054				
	Zn	66	101.708				
	Zn	67	105.671				
	Zn	68	102.827				
>	Ge	72		102.403			
	As	75	105.351				
	Se	77	108.624				
	Se	78	112.382				
	Se	82	106.109				
	Kr	83					
	Y	89					
	Mo	95	108.904				
	Mo	97	102.455				
	Mo	98	102.269				
	Rh	103					
	Ag	107	102.797				
	Ag	109	100.354				
	Cd	111	101.583				
	Cd	114	98.013				
>	In	115		99.739			
	Sb	121	95.511				
	Sb	123	98.157				
	Ba	135	106.492				
	Ba	137	112.424				
>	Tb	159		94.402			
>	Ho	165		95.015			
	Tl	203	105.118				
	Tl	205	104.288				
	Pb	208	103.278				
	Pb	206	101.998				
	Pb	207	101.248				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 21, 2006 10:32:35
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 7.011

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.667	9.0	54.001	0.00248	0.007	275.9	ug/L
	Al	27	3445.080	1.4	9687.584	-0.74560	0.018	2.4	ug/L
>	Sc	45	373458.387	5.0	378480.621				ug/L
	V	51	4006.417	5.1	4514.855	-0.03151	0.015	48.7	ug/L
	Cr	52	14299.071	2.4	14908.140	-0.03201	0.044	137.0	ug/L
	Cr	53	1629.176	5.1	661.366	0.65212	0.106	16.3	ug/L
	Mn	55	545.023	2.7	587.693	-0.00369	0.001	19.2	ug/L
	Co	59	207.671	2.7	242.339	-0.00291	0.001	24.4	ug/L
	Ni	60	538.023	2.3	623.696	-0.03273	0.004	13.5	ug/L
	Ni	62	591.360	3.9	504.354	0.13803	0.025	18.2	ug/L
	Cu	63	1045.076	2.8	1290.783	-0.03798	0.007	18.7	ug/L
	Cu	65	443.683	4.8	588.027	-0.04439	0.002	4.9	ug/L
	Zn	66	1676.185	1.7	2796.188	-0.57347	0.032	5.5	ug/L
	Zn	67	401.680	3.5	500.354	-0.32158	0.054	16.9	ug/L
	Zn	68	1263.775	3.5	2052.621	-0.55942	0.020	3.6	ug/L
>	Ge	72	200325.553	3.0	193550.369				ug/L
	As	75	219.672	12.9	97.335	0.04933	0.013	26.3	ug/L
	Se	77	244.537	1.2	187.669	0.28659	0.056	19.6	ug/L
	Se	78	15029.547	2.2	13588.495	1.70000	0.567	33.3	mg/L
	Se	82	1337.041	1.9	1139.011	0.64522	0.097	15.1	ug/L
	Kr	83	1408.133	2.7	1141.423				mg/L
	Y	89	365299.421	2.1	354910.360				ug/L
	Mo	95	897.391	8.2	114.335	0.15890	0.022	14.1	ug/L
	Mo	97	528.689	13.7	49.001	0.14958	0.029	19.1	ug/L
	Mo	98	1286.539	15.0	58.127	0.14923	0.030	19.9	ug/L
	Rh	103	332619.135	3.8	323620.727				ug/L
	Ag	107	134.002	11.6	57.001	0.00614	0.001	18.6	ug/L
	Ag	109	118.002	9.6	41.334	0.00629	0.001	16.3	ug/L
	Cd	111	192.329	7.2	233.296	-0.01213	0.007	61.2	ug/L
	Cd	114	55.622	12.6	64.652	-0.00114	0.001	100.9	ug/L
>	In	115	357461.068	4.2	364581.825				ug/L
	Sb	121	835.051	12.8	51.001	0.08429	0.015	17.8	ug/L
	Sb	123	639.749	9.4	45.100	0.08512	0.012	13.7	ug/L
	Ba	135	40.334	25.3	65.001	-0.00948	0.004	44.4	ug/L
	Ba	137	56.667	8.2	74.668	-0.00393	0.001	23.0	ug/L
>	Tb	159	425928.755	2.6	439210.410				ug/L
>	Ho	165	405528.229	2.0	425708.154				ug/L
	Tl	203	173.004	15.4	51.001	0.01664	0.003	19.7	ug/L
	Tl	205	388.013	18.7	72.668	0.01877	0.004	22.4	ug/L
	Pb	208	398.674	10.2	767.689	-0.01405	0.002	14.8	ug/L

Pb	206	111.669	17.7	194.671	-0.01182	0.003	29.6	ug/L
Pb	207	98.335	14.8	181.671	-0.01439	0.003	22.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.673			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.500			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.047			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.976			
>	Ho	165		95.260			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, November 21, 2006 10:38:32
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 8.012

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	106137.294	2.5	54.001	102.62923	2.062	2.0	ug/L
	Al	27	825138.747	1.7	9687.584	100.66406	1.243	1.2	ug/L
>	Sc	45	369305.883	0.5	378480.621				ug/L
	V	51	1467456.748	1.7	4514.855	104.76288	1.750	1.7	ug/L
	Cr	52	1288364.630	1.8	14908.140	104.22570	1.548	1.5	ug/L
	Cr	53	151858.353	0.4	661.366	101.55903	0.375	0.4	ug/L
	Mn	55	1712441.274	3.3	587.693	104.93101	2.776	2.6	ug/L
	Co	59	1472868.836	3.1	242.339	104.42404	2.500	2.4	ug/L
	Ni	60	336738.801	2.8	623.696	107.46727	1.733	1.6	ug/L
	Ni	62	50071.643	4.1	504.354	103.47246	3.254	3.1	ug/L
	Cu	63	764270.731	1.2	1290.783	104.79190	1.186	1.1	ug/L
	Cu	65	376041.377	3.6	588.027	105.82455	2.982	2.8	ug/L
	Zn	66	214205.190	2.4	2796.188	104.48210	2.551	2.4	ug/L
	Zn	67	36981.260	1.7	500.354	106.10259	0.166	0.2	ug/L
	Zn	68	156534.855	1.2	2052.621	105.28813	0.551	0.5	ug/L
>	Ge	72	191104.981	1.5	193550.369				ug/L
	As	75	243383.066	1.8	97.335	105.50892	0.820	0.8	ug/L
	Se	77	18033.034	2.8	187.669	106.17781	1.738	1.6	ug/L
	Se	78	72408.419	1.4	13588.495	108.44817	3.513	3.2	mg/L
	Se	82	25821.821	1.9	1139.011	105.37069	1.616	1.5	ug/L
	Kr	83	1310.116	2.6	1141.423				mg/L
	Y	89	361393.665	4.2	354910.360				ug/L
	Mo	95	516668.746	2.5	114.335	107.26394	0.959	0.9	ug/L
	Mo	97	327442.949	3.2	49.001	104.48051	2.297	2.2	ug/L
	Mo	98	820278.524	3.9	58.127	101.97263	2.268	2.2	ug/L
	Rh	103	336297.417	3.2	323620.727				ug/L
	Ag	107	1272436.611	1.7	57.001	103.05820	4.017	3.9	ug/L
	Ag	109	1149670.594	0.3	41.334	95.99178	2.978	3.1	ug/L
	Cd	111	294675.167	0.6	233.296	102.80510	2.711	2.6	ug/L
	Cd	114	648221.418	1.8	64.652	98.98432	1.489	1.5	ug/L
>	In	115	347035.964	3.1	364581.825				ug/L
	Sb	121	897782.689	2.1	51.001	98.84386	3.005	3.0	ug/L
	Sb	123	687521.761	2.1	45.100	100.88326	1.306	1.3	ug/L
	Ba	135	235637.852	3.2	65.001	100.56201	2.336	2.3	ug/L
	Ba	137	415477.980	0.9	74.668	105.84967	1.148	1.1	ug/L
>	Tb	159	416705.792	1.2	439210.410				ug/L
>	Ho	165	396005.221	1.4	425708.154				ug/L
	Tl	203	742525.344	2.6	51.001	101.83633	3.344	3.3	ug/L
	Tl	205	1669837.254	2.6	72.668	100.69564	3.780	3.8	ug/L
	Pb	208	2329959.884	2.4	767.689	100.94955	3.407	3.4	ug/L

Pb	206	607702.598	3.0	194.671	100.01872	3.872	3.9	ug/L
Pb	207	520624.813	0.8	181.671	102.97431	2.303	2.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	102.629				
	Al	27	100.664				
>	Sc	45		97.576			
	V	51	104.763				
	Cr	52	104.226				
	Cr	53	101.559				
	Mn	55	104.931				
	Co	59	104.424				
	Ni	60	107.467				
	Ni	62	103.472				
	Cu	63	104.792				
	Cu	65	105.825				
	Zn	66	104.482				
	Zn	67	106.103				
	Zn	68	105.288				
>	Ge	72		98.737			
	As	75	105.509				
	Se	77	106.178				
	Se	78					
	Se	82	105.371				
	Kr	83					
	Y	89					
	Mo	95	107.264				
	Mo	97	104.481				
	Mo	98	101.973				
	Rh	103					
	Ag	107	103.058				
	Ag	109	95.992				
	Cd	111	102.805				
	Cd	114	98.984				
>	In	115		95.187			
	Sb	121	98.844				
	Sb	123	100.883				
	Ba	135	100.562				
	Ba	137	105.850				
>	Tb	159		94.876			
>	Ho	165		93.023			
	Tl	203	101.836				
	Tl	205	100.696				
	Pb	208	100.950				
	Pb	206	100.019				
	Pb	207	102.974				

Elan 9000 Method 6020 - Summary Report

Sample ID: PBW-M3990146

Sample Date/Time: Tuesday, November 21, 2006 10:44:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\PBW-M3990146.013

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	53.334	6.6	54.001	-0.00117	0.003	259.8	ug/L
	Al	27	850437.345	1.3	9687.584	100.19649	2.940	2.9	ug/L
>	Sc	45	382526.931	1.9	378480.621				ug/L
	V	51	4310.676	4.7	4514.855	-0.01745	0.013	74.1	ug/L
	Cr	52	15775.748	2.3	14908.140	0.05590	0.011	20.5	ug/L
	Cr	53	1318.451	3.3	661.366	0.42202	0.044	10.4	ug/L
	Mn	55	1094.750	2.2	587.693	0.03050	0.002	6.4	ug/L
	Co	59	363.345	0.8	242.339	0.00840	0.000	5.3	ug/L
	Ni	60	288.008	1.9	623.696	-0.10623	0.003	2.8	ug/L
	Ni	62	548.357	3.8	504.354	0.08704	0.027	31.2	ug/L
	Cu	63	639.364	1.7	1290.783	-0.08859	0.000	0.3	ug/L
	Cu	65	248.340	6.1	588.027	-0.09472	0.005	5.0	ug/L
	Zn	66	1779.208	4.4	2796.188	-0.49858	0.042	8.4	ug/L
	Zn	67	391.013	1.1	500.354	-0.31718	0.020	6.3	ug/L
	Zn	68	1303.782	3.4	2052.621	-0.50637	0.031	6.2	ug/L
>	Ge	72	194135.134	1.4	193550.369				ug/L
	As	75	209.338	15.4	97.335	0.04767	0.014	28.6	ug/L
	Se	77	228.203	5.8	187.669	0.23359	0.061	25.9	ug/L
	Se	78	14708.177	1.4	13588.495	1.95220	0.278	14.2	mg/L
	Se	82	1342.508	1.6	1139.011	0.84069	0.105	12.5	ug/L
	Kr	83	1335.454	3.0	1141.423				mg/L
	Y	89	363095.780	1.4	354910.360				ug/L
	Mo	95	1517.496	32.6	114.335	0.28476	0.104	36.4	ug/L
	Mo	97	897.394	33.9	49.001	0.26446	0.098	37.0	ug/L
	Mo	98	2219.875	33.8	58.127	0.26237	0.094	35.9	ug/L
	Rh	103	329141.177	0.6	323620.727				ug/L
	Ag	107	170.670	9.0	57.001	0.00905	0.001	11.9	ug/L
	Ag	109	135.002	3.2	41.334	0.00768	0.000	3.1	ug/L
	Cd	111	214.595	7.9	233.296	-0.00464	0.005	111.6	ug/L
	Cd	114	76.296	23.0	64.652	0.00196	0.003	138.3	ug/L
>	In	115	356574.589	1.1	364581.825				ug/L
	Sb	121	1294.449	15.9	51.001	0.13347	0.024	17.7	ug/L
	Sb	123	971.046	15.2	45.100	0.13249	0.022	16.9	ug/L
	Ba	135	87.001	9.4	65.001	0.01053	0.003	30.1	ug/L
	Ba	137	119.669	4.9	74.668	0.01223	0.002	14.1	ug/L
>	Tb	159	419726.159	0.9	439210.410				ug/L
>	Ho	165	404487.705	2.0	425708.154				ug/L
	Tl	203	73.001	14.5	51.001	0.00330	0.001	45.2	ug/L
	Tl	205	143.669	19.5	72.668	0.00443	0.002	41.7	ug/L
	Pb	208	586.680	2.1	767.689	-0.00604	0.001	16.8	ug/L

Pb	206	157.670	3.9	194.671	-0.00438	0.001	32.1	ug/L
Pb	207	131.002	6.7	181.671	-0.00807	0.001	15.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.069			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.302			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.804			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.564			
>	Ho	165		95.015			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: LCSW-M3990146

Sample Date/Time: Tuesday, November 21, 2006 10:50:28
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\LCSW-M3990146.014

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	21200.158	2.8	54.001	19.30905	0.480	2.5	ug/L
	Al	27	203611.455	0.2	9687.584	22.55358	0.150	0.7	ug/L
>	Sc	45	391245.089	0.6	378480.621				ug/L
	V	51	345028.561	1.1	4514.855	23.00652	0.394	1.7	ug/L
	Cr	52	307198.879	0.4	14908.140	22.53646	0.059	0.3	ug/L
	Cr	53	35450.303	2.8	661.366	22.04059	0.609	2.8	ug/L
	Mn	55	406995.050	3.5	587.693	23.34215	0.516	2.2	ug/L
	Co	59	335800.807	1.3	242.339	22.30629	0.617	2.8	ug/L
	Ni	60	75996.849	2.4	623.696	22.57608	0.300	1.3	ug/L
	Ni	62	11427.277	0.7	504.354	21.31934	0.217	1.0	ug/L
	Cu	63	177627.886	2.3	1290.783	22.69392	0.787	3.5	ug/L
	Cu	65	84871.222	1.3	588.027	22.25887	0.297	1.3	ug/L
	Zn	66	41904.904	2.8	2796.188	18.03846	0.319	1.8	ug/L
	Zn	67	7489.773	1.7	500.354	18.97791	0.408	2.2	ug/L
	Zn	68	31421.115	1.5	2052.621	18.68917	0.497	2.7	ug/L
>	Ge	72	203910.314	1.5	193550.369				ug/L
	As	75	48641.702	0.5	97.335	19.73190	0.343	1.7	ug/L
	Se	77	3353.475	1.3	187.669	17.59743	0.142	0.8	ug/L
	Se	78	26325.121	0.7	13588.495	20.69322	0.875	4.2	mg/L
	Se	82	5690.009	1.5	1139.011	17.95501	0.369	2.1	ug/L
	Kr	83	1426.803	1.5	1141.423				mg/L
	Y	89	392735.812	0.6	354910.360				ug/L
	Mo	95	118363.203	2.6	114.335	22.97671	0.679	3.0	ug/L
	Mo	97	75439.782	2.1	49.001	22.51575	0.695	3.1	ug/L
	Mo	98	187478.485	0.7	58.127	21.80746	0.366	1.7	ug/L
	Rh	103	347820.403	3.3	323620.727				ug/L
	Ag	107	291081.797	1.9	57.001	22.04689	0.636	2.9	ug/L
	Ag	109	267522.939	0.3	41.334	20.88796	0.161	0.8	ug/L
	Cd	111	62481.203	1.6	233.296	20.32745	0.425	2.1	ug/L
	Cd	114	135983.724	1.3	64.652	19.42104	0.414	2.1	ug/L
>	In	115	370843.796	1.0	364581.825				ug/L
	Sb	121	194252.283	0.7	51.001	20.00043	0.122	0.6	ug/L
	Sb	123	148139.016	1.8	45.100	20.33221	0.329	1.6	ug/L
	Ba	135	53548.027	0.2	65.001	22.03895	0.404	1.8	ug/L
	Ba	137	93524.967	2.1	74.668	22.98686	0.844	3.7	ug/L
>	Tb	159	431820.506	1.7	439210.410				ug/L
>	Ho	165	414237.824	1.9	425708.154				ug/L
	Tl	203	165396.930	1.9	51.001	21.68586	0.804	3.7	ug/L
	Tl	205	385505.007	2.2	72.668	22.21449	0.363	1.6	ug/L
	Pb	208	520714.187	0.9	767.689	21.54200	0.393	1.8	ug/L

Pb	206	133570.080	1.4	194.671	20.98820	0.138	0.7	ug/L
Pb	207	113684.720	1.1	181.671	21.47135	0.552	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.373			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.353			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.718			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.317			
>	Ho	165		97.306			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 952000 D.2

Sample Date/Time: Tuesday, November 21, 2006 10:56:25
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\952000 D.2.015

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	73.334	11.4	54.001	0.02033	0.007	36.0	ug/L
	Al	27	232296.244	0.7	9687.584	27.67436	0.610	2.2	ug/L
>	Sc	45	367182.240	1.6	378480.621				ug/L
	V	51	10080.661	11.4	4514.855	0.41140	0.092	22.5	ug/L
	Cr	52	24058.256	1.5	14908.140	0.79030	0.061	7.7	ug/L
	Cr	53	22287.942	12.0	661.366	14.63521	1.939	13.3	ug/L
	Mn	55	274303.439	1.8	587.693	18.59657	0.214	1.2	ug/L
	Co	59	10784.753	3.2	242.339	0.83056	0.028	3.4	ug/L
	Ni	60	44109.818	6.0	623.696	15.44174	1.128	7.3	ug/L
	Ni	62	1257.107	2.0	504.354	1.86921	0.096	5.1	ug/L
	Cu	63	364927.997	1.6	1290.783	55.36526	1.138	2.1	ug/L
	Cu	65	175001.270	0.9	588.027	54.50300	0.828	1.5	ug/L
	Zn	66	45933.830	3.9	2796.188	23.78322	0.847	3.6	ug/L
	Zn	67	7802.396	0.4	500.354	23.71026	0.526	2.2	ug/L
	Zn	68	34973.929	1.4	2052.621	25.03085	0.593	2.4	ug/L
>	Ge	72	172468.825	1.7	193550.369				ug/L
	As	75	12401.051	8.1	97.335	5.92221	0.548	9.3	ug/L
	Se	77	4452.195	8.6	187.669	28.27397	2.868	10.1	ug/L
	Se	78	13035.997	1.2	13588.495	1.89057	0.159	8.4	mg/L
	Se	82	1421.655	1.7	1139.011	1.92291	0.069	3.6	ug/L
	Kr	83	1336.787	3.0	1141.423				mg/L
	Y	89	335909.449	1.0	354910.360				ug/L
	Mo	95	31689.467	1.7	114.335	7.19576	0.093	1.3	ug/L
	Mo	97	19830.099	1.0	49.001	6.92777	0.117	1.7	ug/L
	Mo	98	51895.959	1.0	58.127	7.07309	0.170	2.4	ug/L
	Rh	103	280652.789	1.5	323620.727				ug/L
	Ag	107	464.018	5.6	57.001	0.03684	0.003	7.8	ug/L
	Ag	109	404.014	12.7	41.334	0.03373	0.005	14.8	ug/L
	Cd	111	240.305	17.1	233.296	0.01456	0.016	111.6	ug/L
	Cd	114	182.287	21.2	64.652	0.02120	0.007	32.6	ug/L
>	In	115	316326.220	1.5	364581.825				ug/L
	Sb	121	4212.774	1.4	51.001	0.50330	0.005	1.0	ug/L
	Sb	123	3087.226	2.3	45.100	0.49057	0.005	1.0	ug/L
	Ba	135	55475.606	1.0	65.001	24.43513	0.315	1.3	ug/L
	Ba	137	94900.970	1.2	74.668	24.95512	0.201	0.8	ug/L
>	Tb	159	403472.079	0.7	439210.410				ug/L
>	Ho	165	387076.892	1.9	425708.154				ug/L
	Tl	203	1024.408	19.4	51.001	0.13689	0.025	18.4	ug/L
	Tl	205	2474.066	17.9	72.668	0.14820	0.024	16.4	ug/L
	Pb	208	2366.820	1.9	767.689	0.07397	0.000	0.4	ug/L

Pb	206	637.031	2.0	194.671	0.07748	0.003	3.2	ug/L
Pb	207	500.020	1.9	181.671	0.06777	0.001	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.015			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		89.108			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		86.764			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		91.863			
>	Ho	165		90.925			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030

Sample Date/Time: Tuesday, November 21, 2006 11:02:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030.016

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	85.001	5.1	54.001	0.01472	0.004	28.9	ug/L
	Al	27	1551253.753	0.4	9687.584	151.70503	2.747	1.8	ug/L
>	Sc	45	462585.975	1.6	378480.621				ug/L
	V	51	9679.722	18.4	4514.855	0.23731	0.097	40.9	ug/L
	Cr	52	132156.575	3.7	14908.140	7.44328	0.312	4.2	ug/L
	Cr	53	19365.342	2.2	661.366	9.95319	0.345	3.5	ug/L
	Mn	55	292805.275	4.1	587.693	16.57069	0.390	2.4	ug/L
	Co	59	8181.096	0.8	242.339	0.52019	0.018	3.5	ug/L
	Ni	60	24664.695	0.9	623.696	7.10524	0.249	3.5	ug/L
	Ni	62	3735.875	1.7	504.354	6.17922	0.165	2.7	ug/L
	Cu	63	7657.928	1.9	1290.783	0.79934	0.057	7.1	ug/L
	Cu	65	3585.141	4.0	588.027	0.77165	0.036	4.6	ug/L
	Zn	66	6487.590	2.0	2796.188	1.60279	0.064	4.0	ug/L
	Zn	67	1566.830	2.7	500.354	2.78530	0.272	9.8	ug/L
	Zn	68	6013.230	3.1	2052.621	2.41072	0.074	3.1	ug/L
>	Ge	72	206580.003	3.9	193550.369				ug/L
	As	75	1195.098	11.2	97.335	0.43966	0.073	16.6	ug/L
	Se	77	476.214	8.4	187.669	1.52699	0.326	21.3	ug/L
	Se	78	15443.879	1.2	13588.495	1.61862	0.770	47.6	mg/L
	Se	82	1451.260	2.9	1139.011	0.93118	0.058	6.2	ug/L
	Kr	83	1444.140	1.0	1141.423				mg/L
	Y	89	409366.125	5.3	354910.360				ug/L
	Mo	95	1378.795	3.0	114.335	0.23857	0.008	3.3	ug/L
	Mo	97	812.714	3.4	49.001	0.22170	0.008	3.7	ug/L
	Mo	98	2099.525	4.3	58.127	0.23128	0.011	4.8	ug/L
	Rh	103	345028.472	2.1	323620.727				ug/L
	Ag	107	91.001	11.2	57.001	0.00233	0.001	32.2	ug/L
	Ag	109	75.001	12.7	41.334	0.00243	0.001	29.4	ug/L
	Cd	111	277.641	2.8	233.296	0.01090	0.003	26.4	ug/L
	Cd	114	187.144	42.1	64.652	0.01666	0.011	65.6	ug/L
>	In	115	380401.737	0.4	364581.825				ug/L
	Sb	121	421.682	8.2	51.001	0.03700	0.004	9.9	ug/L
	Sb	123	337.322	7.7	45.100	0.03886	0.004	9.5	ug/L
	Ba	135	25472.803	1.9	65.001	10.13703	0.164	1.6	ug/L
	Ba	137	43474.577	2.2	74.668	10.33402	0.180	1.7	ug/L
>	Tb	159	445868.385	0.6	439210.410				ug/L
>	Ho	165	437425.655	2.3	425708.154				ug/L
	Tl	203	305.009	19.5	51.001	0.03135	0.007	22.8	ug/L
	Tl	205	682.368	14.3	72.668	0.03317	0.005	15.9	ug/L
	Pb	208	8881.955	2.3	767.689	0.31746	0.001	0.2	ug/L

Pb	206	2294.672	2.4	194.671	0.31211	0.001	0.5	ug/L
Pb	207	1854.892	3.8	181.671	0.29872	0.008	2.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		122.222			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		106.732			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.339			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.516			
>	Ho	165		102.752			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030D

Sample Date/Time: Tuesday, November 21, 2006 11:08:20
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030D.017

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	88.335	6.5	54.001	0.01642	0.003	20.4	ug/L
	Al	27	2001241.484	11.2	9687.584	194.01145	25.555	13.2	ug/L
>	Sc	45	468062.963	2.0	378480.621				ug/L
	V	51	13239.497	8.5	4514.855	0.43279	0.066	15.1	ug/L
	Cr	52	166221.915	1.3	14908.140	9.54558	0.354	3.7	ug/L
	Cr	53	20605.662	2.6	661.366	10.49236	0.496	4.7	ug/L
	Mn	55	304621.092	1.1	587.693	16.50236	0.245	1.5	ug/L
	Co	59	8589.178	2.2	242.339	0.52258	0.019	3.6	ug/L
	Ni	60	27446.095	3.2	623.696	7.57528	0.246	3.2	ug/L
	Ni	62	4109.055	3.6	504.354	6.55663	0.250	3.8	ug/L
	Cu	63	7988.240	0.7	1290.783	0.79666	0.020	2.5	ug/L
	Cu	65	3981.658	2.2	588.027	0.83027	0.019	2.3	ug/L
	Zn	66	7175.160	2.2	2796.188	1.77532	0.048	2.7	ug/L
	Zn	67	1512.819	2.7	500.354	2.45963	0.115	4.7	ug/L
	Zn	68	6631.373	3.9	2052.621	2.61948	0.091	3.5	ug/L
>	Ge	72	215811.515	1.9	193550.369				ug/L
	As	75	935.395	1.9	97.335	0.31765	0.011	3.5	ug/L
	Se	77	375.742	4.4	187.669	0.87870	0.124	14.1	ug/L
	Se	78	15979.470	2.8	13588.495	1.35223	0.814	60.2	mg/L
	Se	82	1530.607	0.7	1139.011	0.98597	0.122	12.4	ug/L
	Kr	83	1425.470	2.1	1141.423				mg/L
	Y	89	431014.053	1.1	354910.360				ug/L
	Mo	95	1340.121	3.5	114.335	0.22836	0.011	5.0	ug/L
	Mo	97	817.715	5.5	49.001	0.22044	0.014	6.5	ug/L
	Mo	98	2050.362	3.9	58.127	0.22312	0.013	6.0	ug/L
	Rh	103	360904.331	0.8	323620.727				ug/L
	Ag	107	100.668	10.5	57.001	0.00296	0.001	27.0	ug/L
	Ag	109	76.668	5.4	41.334	0.00248	0.000	10.5	ug/L
	Cd	111	280.101	5.0	233.296	0.01060	0.003	27.3	ug/L
	Cd	114	221.135	34.3	64.652	0.02113	0.011	51.4	ug/L
>	In	115	384912.402	2.0	364581.825				ug/L
	Sb	121	396.347	2.5	51.001	0.03399	0.001	2.5	ug/L
	Sb	123	290.168	8.3	45.100	0.03211	0.004	11.3	ug/L
	Ba	135	25583.802	0.7	65.001	9.82403	0.060	0.6	ug/L
	Ba	137	43709.114	1.4	74.668	10.02634	0.188	1.9	ug/L
>	Tb	159	462058.219	0.7	439210.410				ug/L
>	Ho	165	442464.891	2.0	425708.154				ug/L
	Tl	203	214.672	5.4	51.001	0.01983	0.001	4.7	ug/L
	Tl	205	483.019	3.3	72.668	0.02198	0.000	1.6	ug/L
	Pb	208	8938.979	0.4	767.689	0.31580	0.008	2.5	ug/L

Pb	206	2274.333	1.4	194.671	0.30535	0.011	3.5	ug/L
Pb	207	1896.235	2.1	181.671	0.30246	0.013	4.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		123.669			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.501			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.576			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		105.202			
>	Ho	165		103.936			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030S

Sample Date/Time: Tuesday, November 21, 2006 11:14:18
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030S.018

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	21921.360	2.6	54.001	16.37847	0.653	4.0	ug/L
	Al	27	2637761.833	0.5	9687.584	250.94409	2.580	1.0	ug/L
>	Sc	45	476912.362	1.4	378480.621				ug/L
	V	51	354214.974	2.1	4514.855	19.33032	0.625	3.2	ug/L
	Cr	52	443937.101	1.0	14908.140	26.93952	0.194	0.7	ug/L
	Cr	53	55111.866	1.0	661.366	28.23556	0.666	2.4	ug/L
	Mn	55	714939.631	0.9	587.693	38.74911	0.253	0.7	ug/L
	Co	59	347143.152	1.0	242.339	21.77017	0.362	1.7	ug/L
	Ni	60	100423.505	1.0	623.696	28.22135	0.309	1.1	ug/L
	Ni	62	14791.265	1.5	504.354	26.29188	0.764	2.9	ug/L
	Cu	63	188020.393	1.8	1290.783	22.67995	0.623	2.7	ug/L
	Cu	65	88068.904	1.9	588.027	21.80689	0.489	2.2	ug/L
	Zn	66	47920.935	2.7	2796.188	19.59313	0.716	3.7	ug/L
	Zn	67	8370.287	2.3	500.354	20.11023	0.779	3.9	ug/L
	Zn	68	36415.128	2.8	2052.621	20.57793	0.558	2.7	ug/L
>	Ge	72	215953.511	1.4	193550.369				ug/L
	As	75	51930.507	1.3	97.335	19.89074	0.372	1.9	ug/L
	Se	77	3788.461	0.5	187.669	18.84581	0.187	1.0	ug/L
	Se	78	26501.642	2.2	13588.495	18.45596	1.489	8.1	mg/L
	Se	82	6271.359	0.7	1139.011	18.88112	0.230	1.2	ug/L
	Kr	83	1472.478	4.1	1141.423				mg/L
	Y	89	428236.384	4.3	354910.360				ug/L
	Mo	95	123670.240	1.4	114.335	23.09589	0.984	4.3	ug/L
	Mo	97	78238.543	2.9	49.001	22.46740	1.256	5.6	ug/L
	Mo	98	205193.407	0.2	58.127	22.95740	0.713	3.1	ug/L
	Rh	103	343960.482	1.3	323620.727				ug/L
	Ag	107	285125.443	2.0	57.001	20.76559	0.574	2.8	ug/L
	Ag	109	274190.570	2.7	41.334	20.58339	0.365	1.8	ug/L
	Cd	111	61281.331	0.8	233.296	19.17207	0.613	3.2	ug/L
	Cd	114	142862.879	1.7	64.652	19.63034	0.913	4.7	ug/L
>	In	115	385746.209	2.9	364581.825				ug/L
	Sb	121	204206.422	1.5	51.001	20.22191	0.561	2.8	ug/L
	Sb	123	150586.896	1.8	45.100	19.87559	0.423	2.1	ug/L
	Ba	135	80130.556	0.8	65.001	31.81984	0.376	1.2	ug/L
	Ba	137	136310.668	1.6	74.668	32.31161	0.389	1.2	ug/L
>	Tb	159	447645.925	0.5	439210.410				ug/L
>	Ho	165	434233.250	1.3	425708.154				ug/L
	Tl	203	163968.560	1.3	51.001	20.50029	0.289	1.4	ug/L
	Tl	205	386218.777	0.5	72.668	21.23255	0.358	1.7	ug/L
	Pb	208	532393.902	2.2	767.689	21.00971	0.608	2.9	ug/L

Pb	206	139183.464	0.8	194.671	20.86411	0.336	1.6	ug/L
Pb	207	112534.604	1.2	181.671	20.26987	0.368	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		126.007			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.575			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.805			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.921			
>	Ho	165		102.003			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030A

Sample Date/Time: Tuesday, November 21, 2006 11:20:15
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030A.019

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	22789.013	0.6	54.001	17.28982	0.369	2.1	ug/L
	Al	27	1768329.308	2.3	9687.584	170.53260	7.485	4.4	ug/L
>	Sc	45	469694.482	2.1	378480.621				ug/L
	V	51	375869.076	1.5	4514.855	20.84833	0.159	0.8	ug/L
	Cr	52	425078.323	1.6	14908.140	26.16335	0.598	2.3	ug/L
	Cr	53	52020.768	2.2	661.366	27.03905	0.385	1.4	ug/L
	Mn	55	706015.404	1.4	587.693	38.53688	1.275	3.3	ug/L
	Co	59	351076.178	0.3	242.339	22.17038	0.594	2.7	ug/L
	Ni	60	103972.059	1.6	623.696	29.43487	1.054	3.6	ug/L
	Ni	62	14644.009	2.9	504.354	26.19292	0.416	1.6	ug/L
	Cu	63	185286.458	0.8	1290.783	22.50049	0.503	2.2	ug/L
	Cu	65	90862.237	3.2	588.027	22.67243	1.280	5.6	ug/L
	Zn	66	47192.054	0.4	2796.188	19.41783	0.640	3.3	ug/L
	Zn	67	8852.791	3.2	500.354	21.49377	0.189	0.9	ug/L
	Zn	68	38250.308	1.2	2052.621	21.85247	0.894	4.1	ug/L
>	Ge	72	214538.288	2.7	193550.369				ug/L
	As	75	54767.329	2.4	97.335	21.11695	0.126	0.6	ug/L
	Se	77	3901.313	0.1	187.669	19.58436	0.579	3.0	ug/L
	Se	78	27949.291	1.0	13588.495	21.12525	1.552	7.3	mg/L
	Se	82	6451.030	1.8	1139.011	19.72272	0.249	1.3	ug/L
	Kr	83	1464.143	4.8	1141.423				mg/L
	Y	89	429840.232	1.0	354910.360				ug/L
	Mo	95	129538.088	2.6	114.335	24.22533	0.423	1.7	ug/L
	Mo	97	81791.703	4.2	49.001	23.52264	1.148	4.9	ug/L
	Mo	98	203072.460	2.0	58.127	22.76159	0.667	2.9	ug/L
	Rh	103	357056.681	3.6	323620.727				ug/L
	Ag	107	302216.430	3.2	57.001	22.05544	0.875	4.0	ug/L
	Ag	109	278753.268	1.1	41.334	20.97168	0.356	1.7	ug/L
	Cd	111	65073.787	2.0	233.296	20.39836	0.452	2.2	ug/L
	Cd	114	143223.907	0.6	64.652	19.70807	0.260	1.3	ug/L
>	In	115	384884.280	1.0	364581.825				ug/L
	Sb	121	205648.588	0.2	51.001	20.40198	0.163	0.8	ug/L
	Sb	123	158785.762	0.8	45.100	20.99946	0.237	1.1	ug/L
	Ba	135	80075.721	1.2	65.001	31.84663	0.736	2.3	ug/L
	Ba	137	140245.077	1.0	74.668	33.29492	0.506	1.5	ug/L
>	Tb	159	447032.437	1.3	439210.410				ug/L
>	Ho	165	423418.574	0.7	425708.154				ug/L
	Tl	203	168357.420	1.0	51.001	21.58544	0.118	0.5	ug/L
	Tl	205	388838.358	0.8	72.668	21.91997	0.173	0.8	ug/L
	Pb	208	539239.940	1.1	767.689	21.82201	0.347	1.6	ug/L

Pb	206	137543.340	2.6	194.671	21.14112	0.426	2.0	ug/L
Pb	207	116484.399	1.4	181.671	21.51824	0.411	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		124.100			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.844			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.569			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.781			
>	Ho	165		99.462			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030L

Sample Date/Time: Tuesday, November 21, 2006 11:26:13
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030L.020

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	70.001	21.0	54.001	0.01141	0.013	111.8	ug/L
	Al	27	326247.661	1.1	9687.584	35.96115	0.316	0.9	ug/L
>	Sc	45	400501.500	0.8	378480.621				ug/L
	V	51	5418.786	5.4	4514.855	0.04227	0.017	39.9	ug/L
	Cr	52	38379.564	0.9	14908.140	1.70546	0.003	0.2	ug/L
	Cr	53	4538.282	4.2	661.366	2.37788	0.140	5.9	ug/L
	Mn	55	61421.831	1.3	587.693	3.41387	0.088	2.6	ug/L
	Co	59	1731.197	1.2	242.339	0.09550	0.003	2.7	ug/L
	Ni	60	5172.990	1.1	623.696	1.31919	0.067	5.1	ug/L
	Ni	62	879.055	2.5	504.354	0.64124	0.031	4.9	ug/L
	Cu	63	1859.559	1.8	1290.783	0.05891	0.005	7.8	ug/L
	Cu	65	1008.405	4.7	588.027	0.09711	0.021	21.9	ug/L
	Zn	66	2006.928	2.4	2796.188	-0.45532	0.042	9.2	ug/L
	Zn	67	481.685	1.5	500.354	-0.15265	0.062	40.8	ug/L
	Zn	68	1744.200	1.8	2052.621	-0.29226	0.023	8.0	ug/L
>	Ge	72	208714.180	3.5	193550.369				ug/L
	As	75	320.676	5.0	97.335	0.08572	0.007	7.7	ug/L
	Se	77	253.604	1.2	187.669	0.27988	0.034	12.1	ug/L
	Se	78	14864.637	1.5	13588.495	0.38035	1.096	288.2	mg/L
	Se	82	1426.189	0.4	1139.011	0.77818	0.210	27.0	ug/L
	Kr	83	1439.139	1.1	1141.423				mg/L
	Y	89	393262.336	3.1	354910.360				ug/L
	Mo	95	392.013	12.3	114.335	0.05537	0.010	18.6	ug/L
	Mo	97	211.671	4.9	49.001	0.04979	0.004	7.4	ug/L
	Mo	98	476.554	5.9	58.127	0.04985	0.004	7.7	ug/L
	Rh	103	350423.349	2.2	323620.727				ug/L
	Ag	107	94.668	6.5	57.001	0.00295	0.001	18.6	ug/L
	Ag	109	75.334	6.5	41.334	0.00274	0.000	16.2	ug/L
	Cd	111	216.857	2.0	233.296	-0.00505	0.002	39.7	ug/L
	Cd	114	109.523	20.2	64.652	0.00663	0.003	51.1	ug/L
>	In	115	362572.447	1.0	364581.825				ug/L
	Sb	121	381.013	9.2	51.001	0.03482	0.004	11.8	ug/L
	Sb	123	271.737	8.2	45.100	0.03187	0.003	10.6	ug/L
	Ba	135	4982.207	3.6	65.001	1.97726	0.055	2.8	ug/L
	Ba	137	8395.645	1.8	74.668	1.99801	0.071	3.5	ug/L
>	Tb	159	442338.784	1.9	439210.410				ug/L
>	Ho	165	417037.797	2.2	425708.154				ug/L
	Tl	203	89.335	15.4	51.001	0.00511	0.002	30.2	ug/L
	Tl	205	161.670	14.2	72.668	0.00518	0.001	25.0	ug/L
	Pb	208	2336.150	3.0	767.689	0.06520	0.003	5.3	ug/L

Pb	206	600.028	4.0	194.671	0.06397	0.003	5.0	ug/L
Pb	207	515.021	9.9	181.671	0.06341	0.011	16.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		105.818			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.835			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.449			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.712			
>	Ho	165		97.963			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950031

Sample Date/Time: Tuesday, November 21, 2006 11:32:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950031.021

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	121.002	8.6	54.001	0.03996	0.007	17.5	ug/L
	Al	27	6924219.820	0.7	9687.584	663.05424	10.623	1.6	ug/L
>	Sc	45	475195.689	1.4	378480.621				ug/L
	V	51	30971.759	20.3	4514.855	1.40860	0.350	24.9	ug/L
	Cr	52	524095.795	3.0	14908.140	32.14222	1.120	3.5	ug/L
	Cr	53	60148.069	3.6	661.366	30.97342	1.481	4.8	ug/L
	Mn	55	811751.620	1.3	587.693	43.91230	0.775	1.8	ug/L
	Co	59	29374.986	1.8	242.339	1.82274	0.036	2.0	ug/L
	Ni	60	84755.642	3.3	623.696	23.73621	0.721	3.0	ug/L
	Ni	62	11461.324	0.7	504.354	20.09052	0.067	0.3	ug/L
	Cu	63	25112.378	2.3	1290.783	2.87071	0.067	2.3	ug/L
	Cu	65	12495.826	3.2	588.027	2.94675	0.083	2.8	ug/L
	Zn	66	12191.033	0.8	2796.188	3.95550	0.040	1.0	ug/L
	Zn	67	2339.685	1.8	500.354	4.57246	0.136	3.0	ug/L
	Zn	68	10773.402	1.8	2052.621	5.10270	0.145	2.8	ug/L
>	Ge	72	216391.695	0.5	193550.369				ug/L
	As	75	2728.807	2.2	97.335	1.00341	0.018	1.8	ug/L
	Se	77	401.676	1.2	187.669	1.00813	0.025	2.5	ug/L
	Se	78	16301.251	1.6	13588.495	1.79940	0.303	16.9	mg/L
	Se	82	1651.364	1.8	1139.011	1.42444	0.140	9.8	ug/L
	Kr	83	1540.825	1.9	1141.423				mg/L
	Y	89	451917.358	2.2	354910.360				ug/L
	Mo	95	9042.997	3.1	114.335	1.69807	0.026	1.5	ug/L
	Mo	97	5734.364	2.6	49.001	1.66274	0.059	3.6	ug/L
	Mo	98	14595.434	3.7	58.127	1.65586	0.020	1.2	ug/L
	Rh	103	360638.321	2.5	323620.727				ug/L
	Ag	107	141.669	8.8	57.001	0.00613	0.001	18.3	ug/L
	Ag	109	104.335	8.4	41.334	0.00470	0.001	15.2	ug/L
	Cd	111	347.692	6.2	233.296	0.03384	0.009	27.0	ug/L
	Cd	114	276.146	29.1	64.652	0.02918	0.011	36.8	ug/L
>	In	115	378651.249	2.5	364581.825				ug/L
	Sb	121	722.372	4.8	51.001	0.06750	0.002	3.3	ug/L
	Sb	123	549.881	4.7	45.100	0.06767	0.004	5.8	ug/L
	Ba	135	37107.814	1.2	65.001	14.48622	0.259	1.8	ug/L
	Ba	137	64669.699	2.4	74.668	15.08165	0.638	4.2	ug/L
>	Tb	159	454968.047	1.9	439210.410				ug/L
>	Ho	165	426375.226	1.8	425708.154				ug/L
	Tl	203	415.681	3.4	51.001	0.04643	0.001	2.7	ug/L
	Tl	205	937.396	6.8	72.668	0.04838	0.003	5.6	ug/L
	Pb	208	35135.165	2.3	767.689	1.38294	0.018	1.3	ug/L

Pb	206	9045.999	2.3	194.671	1.35308	0.025	1.9	ug/L
Pb	207	7648.920	2.4	181.671	1.37224	0.046	3.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		125.554			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.801			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.859			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		103.588			
>	Ho	165		100.157			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 21, 2006 11:38:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 6.022

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55173.986	2.1	54.001	52.11732	1.308	2.5	ug/L
	Al	27	440750.974	3.5	9687.584	51.97669	1.124	2.2	ug/L
>	Sc	45	377951.029	1.9	378480.621				ug/L
	V	51	784125.687	1.2	4514.855	54.55246	0.400	0.7	ug/L
	Cr	52	665311.130	0.4	14908.140	52.01656	1.126	2.2	ug/L
	Cr	53	80537.116	0.7	661.366	52.43448	1.197	2.3	ug/L
	Mn	55	918833.460	1.8	587.693	54.30764	0.796	1.5	ug/L
	Co	59	780365.013	2.3	242.339	53.37707	1.286	2.4	ug/L
	Ni	60	173046.933	4.5	623.696	53.19648	2.534	4.8	ug/L
	Ni	62	25517.264	0.5	504.354	50.35874	0.565	1.1	ug/L
	Cu	63	409867.224	2.1	1290.783	54.13634	1.196	2.2	ug/L
	Cu	65	193015.191	2.5	588.027	52.33188	1.380	2.6	ug/L
	Zn	66	110233.818	1.4	2796.188	51.18939	0.914	1.8	ug/L
	Zn	67	19421.135	1.6	500.354	53.05938	1.196	2.3	ug/L
	Zn	68	77855.440	0.2	2052.621	49.80719	0.388	0.8	ug/L
>	Ge	72	198067.551	0.6	193550.369				ug/L
	As	75	127440.663	2.3	97.335	53.28247	1.024	1.9	ug/L
	Se	77	9497.544	1.9	187.669	53.42341	1.334	2.5	ug/L
	Se	78	43792.484	0.2	13588.495	52.99764	0.423	0.8	mg/L
	Se	82	14033.941	0.7	1139.011	52.97288	0.557	1.1	ug/L
	Kr	83	1365.792	3.6	1141.423				mg/L
	Y	89	367738.309	2.4	354910.360				ug/L
	Mo	95	271191.098	2.0	114.335	54.21739	0.808	1.5	ug/L
	Mo	97	167580.127	2.3	49.001	51.50865	1.730	3.4	ug/L
	Mo	98	431749.300	0.4	58.127	51.71568	1.312	2.5	ug/L
	Rh	103	323879.516	0.5	323620.727				ug/L
	Ag	107	678076.370	3.1	57.001	52.85657	0.941	1.8	ug/L
	Ag	109	632882.822	1.9	41.334	50.88321	1.561	3.1	ug/L
	Cd	111	153903.085	2.2	233.296	51.65457	0.587	1.1	ug/L
	Cd	114	338784.097	0.6	64.652	49.82520	0.985	2.0	ug/L
>	In	115	360304.981	2.5	364581.825				ug/L
	Sb	121	464347.726	2.3	51.001	49.23072	1.447	2.9	ug/L
	Sb	123	355061.060	0.8	45.100	50.19398	1.640	3.3	ug/L
	Ba	135	126752.301	0.5	65.001	53.52916	0.784	1.5	ug/L
	Ba	137	222912.145	1.7	74.668	56.18665	0.661	1.2	ug/L
>	Tb	159	421090.063	1.1	439210.410				ug/L
>	Ho	165	408058.363	0.8	425708.154				ug/L
	Tl	203	390392.158	3.7	51.001	51.95736	2.264	4.4	ug/L
	Tl	205	900334.640	2.4	72.668	52.67947	1.715	3.3	ug/L
	Pb	208	1244522.460	1.7	767.689	52.30203	1.004	1.9	ug/L

Pb	206	325142.433	0.8	194.671	51.90727	0.604	1.2	ug/L
Pb	207	269596.391	2.8	181.671	51.72368	1.555	3.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	104.235				
	Al	27	103.953				
>	Sc	45		99.860			
	V	51	109.105				
	Cr	52	104.033				
	Cr	53	104.869				
	Mn	55	108.615				
	Co	59	106.754				
	Ni	60	106.393				
	Ni	62	100.717				
	Cu	63	108.273				
	Cu	65	104.664				
	Zn	66	102.379				
	Zn	67	106.119				
	Zn	68	99.614				
>	Ge	72		102.334			
	As	75	106.565				
	Se	77	106.847				
	Se	78	105.995				
	Se	82	105.946				
	Kr	83					
	Y	89					
	Mo	95	108.435				
	Mo	97	103.017				
	Mo	98	103.431				
	Rh	103					
	Ag	107	105.713				
	Ag	109	101.766				
	Cd	111	103.309				
	Cd	114	99.650				
>	In	115		98.827			
	Sb	121	98.461				
	Sb	123	100.388				
	Ba	135	107.058				
	Ba	137	112.373				
>	Tb	159		95.874			
>	Ho	165		95.854			
	Tl	203	103.915				
	Tl	205	105.359				
	Pb	208	104.604				
	Pb	206	103.815				
	Pb	207	103.447				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 21, 2006 11:44:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 7.023

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56.667	17.4	54.001	0.00257	0.011	420.6	ug/L
	Al	27	3222.989	1.6	9687.584	-0.77916	0.016	2.1	ug/L
>	Sc	45	379424.610	2.7	378480.621				ug/L
	V	51	4093.407	6.1	4514.855	-0.02993	0.021	70.7	ug/L
	Cr	52	14448.008	4.5	14908.140	-0.03843	0.076	199.0	ug/L
	Cr	53	1318.784	5.4	661.366	0.42863	0.038	9.0	ug/L
	Mn	55	546.690	4.9	587.693	-0.00375	0.001	38.7	ug/L
	Co	59	177.670	5.2	242.339	-0.00500	0.001	12.0	ug/L
	Ni	60	519.021	3.5	623.696	-0.03930	0.006	14.5	ug/L
	Ni	62	293.341	4.3	504.354	-0.45802	0.025	5.5	ug/L
	Cu	63	842.051	1.3	1290.783	-0.06521	0.001	1.3	ug/L
	Cu	65	444.683	1.9	588.027	-0.04461	0.003	6.5	ug/L
	Zn	66	1686.854	2.1	2796.188	-0.57256	0.020	3.4	ug/L
	Zn	67	367.678	1.9	500.354	-0.42131	0.014	3.4	ug/L
	Zn	68	1214.101	5.2	2052.621	-0.59547	0.037	6.3	ug/L
>	Ge	72	201237.511	0.6	193550.369				ug/L
	As	75	171.670	5.2	97.335	0.02901	0.003	11.3	ug/L
	Se	77	217.670	1.0	187.669	0.12737	0.006	4.6	ug/L
	Se	78	14028.133	1.2	13588.495	-0.17384	0.361	207.6	mg/L
	Se	82	1353.977	0.7	1139.011	0.68775	0.045	6.5	ug/L
	Kr	83	1363.792	1.8	1141.423				mg/L
	Y	89	373310.791	0.1	354910.360				ug/L
	Mo	95	501.687	17.1	114.335	0.07944	0.017	21.0	ug/L
	Mo	97	305.342	14.5	49.001	0.08057	0.013	16.2	ug/L
	Mo	98	693.721	18.6	58.127	0.07761	0.015	19.5	ug/L
	Rh	103	330440.396	1.0	323620.727				ug/L
	Ag	107	133.002	3.3	57.001	0.00616	0.000	5.9	ug/L
	Ag	109	107.002	20.1	41.334	0.00546	0.002	31.1	ug/L
	Cd	111	219.703	9.5	233.296	-0.00236	0.007	281.5	ug/L
	Cd	114	51.425	15.2	64.652	-0.00169	0.001	72.5	ug/L
>	In	115	353966.299	0.8	364581.825				ug/L
	Sb	121	907.726	15.9	51.001	0.09252	0.015	16.1	ug/L
	Sb	123	657.703	17.0	45.100	0.08823	0.015	17.5	ug/L
	Ba	135	46.667	23.9	65.001	-0.00701	0.005	67.4	ug/L
	Ba	137	53.334	14.1	74.668	-0.00490	0.002	35.1	ug/L
>	Tb	159	430339.820	1.6	439210.410				ug/L
>	Ho	165	422726.015	1.0	425708.154				ug/L
	Tl	203	89.335	13.4	51.001	0.00496	0.001	28.5	ug/L
	Tl	205	159.670	8.3	72.668	0.00494	0.001	13.8	ug/L
	Pb	208	414.675	7.1	767.689	-0.01412	0.001	7.7	ug/L

Pb	206	115.002	5.7	194.671	-0.01208	0.001	7.1	ug/L
Pb	207	103.002	6.7	181.671	-0.01434	0.001	9.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		100.249			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.972			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.088			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.980			
>	Ho	165		99.299			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950032

Sample Date/Time: Tuesday, November 21, 2006 11:50:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950032.024

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1119.420	3.0	54.001	0.78225	0.018	2.3	ug/L
	Al	27	29719929.117	1.9	9687.584	2821.00124	37.651	1.3	ug/L
>	Sc	45	479965.663	1.0	378480.621				ug/L
	V	51	60021.767	15.1	4514.855	2.99249	0.507	16.9	ug/L
	Cr	52	627945.655	1.3	14908.140	38.34855	0.789	2.1	ug/L
	Cr	53	78623.385	2.2	661.366	40.20317	1.141	2.8	ug/L
	Mn	55	11189928.369	2.8	587.693	608.24363	29.424	4.8	ug/L
	Co	59	303825.642	1.6	242.339	19.08263	0.550	2.9	ug/L
	Ni	60	257080.147	0.6	623.696	72.66769	1.297	1.8	ug/L
	Ni	62	39811.656	2.9	504.354	72.66073	3.637	5.0	ug/L
	Cu	63	43963.781	1.3	1290.783	5.17658	0.098	1.9	ug/L
	Cu	65	17572.026	2.9	588.027	4.22872	0.217	5.1	ug/L
	Zn	66	169372.621	0.6	2796.188	72.82210	1.840	2.5	ug/L
	Zn	67	26837.761	2.2	500.354	67.73154	1.259	1.9	ug/L
	Zn	68	122465.903	0.9	2052.621	72.60102	2.151	3.0	ug/L
>	Ge	72	215648.188	2.1	193550.369				ug/L
	As	75	4718.716	1.9	97.335	1.77202	0.028	1.6	ug/L
	Se	77	814.440	0.8	187.669	3.19251	0.058	1.8	ug/L
	Se	78	15881.834	1.1	13588.495	1.21459	0.520	42.8	mg/L
	Se	82	1634.560	0.5	1139.011	1.38414	0.159	11.5	ug/L
	Kr	83	1582.499	3.1	1141.423				mg/L
	Y	89	754422.207	1.2	354910.360				ug/L
	Mo	95	4720.718	1.8	114.335	0.88418	0.014	1.6	ug/L
	Mo	97	2799.498	2.0	49.001	0.81154	0.014	1.8	ug/L
	Mo	98	7256.584	0.6	58.127	0.82780	0.004	0.5	ug/L
	Rh	103	345528.935	2.3	323620.727				ug/L
	Ag	107	287.341	4.4	57.001	0.01713	0.001	5.6	ug/L
	Ag	109	252.673	5.8	41.334	0.01622	0.001	7.1	ug/L
	Cd	111	3806.286	4.2	233.296	1.15143	0.054	4.7	ug/L
	Cd	114	8287.189	4.8	64.652	1.16107	0.053	4.6	ug/L
>	In	115	375097.536	0.3	364581.825				ug/L
	Sb	121	1004.071	7.5	51.001	0.09690	0.008	8.2	ug/L
	Sb	123	746.898	10.8	45.100	0.09510	0.011	11.8	ug/L
	Ba	135	142724.815	1.7	65.001	56.58048	1.633	2.9	ug/L
	Ba	137	242737.434	1.5	74.668	57.43691	1.457	2.5	ug/L
>	Tb	159	448666.938	1.5	439210.410				ug/L
>	Ho	165	439400.206	0.8	425708.154				ug/L
	Tl	203	866.055	24.5	51.001	0.10046	0.026	25.7	ug/L
	Tl	205	1998.933	20.2	72.668	0.10447	0.021	20.6	ug/L
	Pb	208	65017.484	1.6	767.689	2.50829	0.062	2.5	ug/L

Pb	206	17057.952	2.6	194.671	2.50085	0.081	3.2	ug/L
Pb	207	13364.846	2.2	181.671	2.34960	0.072	3.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		126.814			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.417			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.884			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.153			
>	Ho	165		103.216			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950033

Sample Date/Time: Tuesday, November 21, 2006 11:56:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950033.025

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	70.001	11.2	54.001	0.00615	0.007	109.3	ug/L
	Al	27	312477.640	1.5	9687.584	31.35017	0.755	2.4	ug/L
>	Sc	45	438046.667	0.8	378480.621				ug/L
	V	51	9154.406	1.1	4514.855	0.23724	0.010	4.4	ug/L
	Cr	52	31916.333	1.7	14908.140	1.01174	0.056	5.6	ug/L
	Cr	53	3652.504	2.9	661.366	1.63456	0.047	2.8	ug/L
	Mn	55	3193518.368	1.0	587.693	181.64713	3.472	1.9	ug/L
	Co	59	6357.489	2.7	242.339	0.40145	0.013	3.3	ug/L
	Ni	60	16937.376	3.2	623.696	4.83017	0.210	4.3	ug/L
	Ni	62	971.400	0.5	504.354	0.84240	0.028	3.3	ug/L
	Cu	63	9967.724	0.5	1290.783	1.09536	0.014	1.3	ug/L
	Cu	65	4645.675	2.2	588.027	1.05179	0.039	3.7	ug/L
	Zn	66	5696.004	2.5	2796.188	1.24729	0.045	3.6	ug/L
	Zn	67	1604.171	3.2	500.354	2.89366	0.191	6.6	ug/L
	Zn	68	6714.110	5.8	2052.621	2.86379	0.221	7.7	ug/L
>	Ge	72	205940.895	1.2	193550.369				ug/L
	As	75	1184.763	3.8	97.335	0.43514	0.018	4.2	ug/L
	Se	77	335.607	4.3	187.669	0.75024	0.069	9.2	ug/L
	Se	78	15317.952	0.5	13588.495	1.46750	0.222	15.1	mg/L
	Se	82	1557.879	1.3	1139.011	1.36988	0.079	5.8	ug/L
	Kr	83	1488.815	2.5	1141.423				mg/L
	Y	89	417139.479	0.7	354910.360				ug/L
	Mo	95	12615.671	2.2	114.335	2.38327	0.030	1.3	ug/L
	Mo	97	7943.865	2.1	49.001	2.31553	0.126	5.4	ug/L
	Mo	98	20243.386	1.6	58.127	2.30543	0.060	2.6	ug/L
	Rh	103	349073.276	2.1	323620.727				ug/L
	Ag	107	91.668	0.6	57.001	0.00243	0.000	10.5	ug/L
	Ag	109	78.668	16.3	41.334	0.00275	0.001	37.7	ug/L
	Cd	111	351.703	5.2	233.296	0.03517	0.003	8.2	ug/L
	Cd	114	240.330	32.5	64.652	0.02407	0.010	41.5	ug/L
>	In	115	377921.968	3.4	364581.825				ug/L
	Sb	121	2869.189	2.2	51.001	0.28469	0.004	1.2	ug/L
	Sb	123	2128.569	2.1	45.100	0.28077	0.014	5.1	ug/L
	Ba	135	82945.268	1.0	65.001	33.05722	0.467	1.4	ug/L
	Ba	137	141112.656	1.6	74.668	33.57110	0.413	1.2	ug/L
>	Tb	159	446043.696	0.5	439210.410				ug/L
>	Ho	165	425703.207	1.1	425708.154				ug/L
	Tl	203	495.686	2.2	51.001	0.05673	0.001	2.3	ug/L
	Tl	205	1138.089	0.9	72.668	0.05975	0.000	0.8	ug/L
	Pb	208	2910.561	2.4	767.689	0.08640	0.004	4.6	ug/L

Pb	206	752.708	3.3	194.671	0.08543	0.003	3.9	ug/L
Pb	207	624.696	2.7	181.671	0.08153	0.003	4.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		115.738			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		106.402			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.659			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.556			
>	Ho	165		99.999			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950034

Sample Date/Time: Tuesday, November 21, 2006 12:02:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950034.026

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	147.003	7.6	54.001	0.06164	0.007	12.0	ug/L
	Al	27	8694897.636	0.9	9687.584	848.95808	8.358	1.0	ug/L
>	Sc	45	466181.872	1.1	378480.621				ug/L
	V	51	41041.954	53.4	4514.855	2.00680	1.229	61.2	ug/L
	Cr	52	716290.590	9.1	14908.140	45.22538	3.934	8.7	ug/L
	Cr	53	85045.276	0.4	661.366	44.82028	0.672	1.5	ug/L
	Mn	55	72986110.154	0.4	587.693	4060.86773	46.770	1.2	ug/L
	Co	59	147724.109	2.4	242.339	9.49117	0.238	2.5	ug/L
	Ni	60	128908.022	0.6	623.696	37.21515	0.319	0.9	ug/L
	Ni	62	18319.637	2.2	504.354	33.67631	1.067	3.2	ug/L
	Cu	63	33803.779	2.0	1290.783	4.03873	0.100	2.5	ug/L
	Cu	65	16132.429	0.8	588.027	3.96366	0.037	0.9	ug/L
	Zn	66	23865.705	1.8	2796.188	9.33760	0.104	1.1	ug/L
	Zn	67	4498.926	1.3	500.354	10.43709	0.047	0.4	ug/L
	Zn	68	19133.139	2.5	2052.621	10.45385	0.376	3.6	ug/L
>	Ge	72	210559.818	0.9	193550.369				ug/L
	As	75	11238.353	1.5	97.335	4.38172	0.028	0.6	ug/L
	Se	77	575.420	2.7	187.669	2.00508	0.095	4.7	ug/L
	Se	78	16095.730	1.3	13588.495	2.19056	0.315	14.4	mg/L
	Se	82	1609.089	0.8	1139.011	1.43278	0.047	3.3	ug/L
	Kr	83	1511.819	3.5	1141.423				mg/L
	Y	89	479937.362	1.8	354910.360				ug/L
	Mo	95	6475.247	2.1	114.335	1.24769	0.029	2.4	ug/L
	Mo	97	3499.770	1.7	49.001	1.04047	0.033	3.1	ug/L
	Mo	98	8943.767	1.7	58.127	1.04367	0.013	1.3	ug/L
	Rh	103	337282.304	2.4	323620.727				ug/L
	Ag	107	229.005	7.2	57.001	0.01313	0.002	11.6	ug/L
	Ag	109	167.337	10.4	41.334	0.00990	0.001	11.7	ug/L
	Cd	111	1171.751	1.2	233.296	0.30885	0.006	1.8	ug/L
	Cd	114	2070.858	3.1	64.652	0.28942	0.013	4.4	ug/L
>	In	115	367330.038	1.6	364581.825				ug/L
	Sb	121	1027.074	6.6	51.001	0.10151	0.008	8.1	ug/L
	Sb	123	727.788	4.2	45.100	0.09463	0.006	5.9	ug/L
	Ba	135	110071.729	1.6	65.001	44.10855	1.398	3.2	ug/L
	Ba	137	186559.239	1.4	74.668	44.61688	0.802	1.8	ug/L
>	Tb	159	443830.719	1.6	439210.410				ug/L
>	Ho	165	426157.497	0.3	425708.154				ug/L
	Tl	203	3667.177	3.4	51.001	0.46078	0.015	3.3	ug/L
	Tl	205	8869.807	1.3	72.668	0.49280	0.005	1.0	ug/L
	Pb	208	62721.577	1.1	767.689	2.49438	0.022	0.9	ug/L

Pb	206	16363.549	1.4	194.671	2.47289	0.032	1.3	ug/L
Pb	207	13223.950	1.0	181.671	2.39736	0.023	1.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		123.172			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.788			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.754			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.052			
>	Ho	165		100.106			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950035

Sample Date/Time: Tuesday, November 21, 2006 12:08:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950035.027

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	96.668	16.2	54.001	0.02658	0.012	43.7	ug/L
	Al	27	251962.916	2.4	9687.584	24.66888	1.122	4.5	ug/L
>	Sc	45	444753.036	2.0	378480.621				ug/L
	V	51	9460.970	7.2	4514.855	0.24692	0.035	14.1	ug/L
	Cr	52	75154.867	1.9	14908.140	3.91721	0.134	3.4	ug/L
	Cr	53	8690.953	3.3	661.366	4.41507	0.198	4.5	ug/L
	Mn	55	26463274.056	1.9	587.693	1413.37779	48.659	3.4	ug/L
	Co	59	23199.821	1.8	242.339	1.41639	0.045	3.2	ug/L
	Ni	60	44637.398	2.6	623.696	12.23660	0.366	3.0	ug/L
	Ni	62	4975.535	0.7	504.354	8.00818	0.106	1.3	ug/L
	Cu	63	11482.022	2.4	1290.783	1.19887	0.050	4.2	ug/L
	Cu	65	5192.337	3.7	588.027	1.11164	0.061	5.5	ug/L
	Zn	66	11299.439	2.8	2796.188	3.50056	0.205	5.9	ug/L
	Zn	67	2729.141	2.9	500.354	5.47494	0.100	1.8	ug/L
	Zn	68	11269.728	0.6	2052.621	5.30840	0.079	1.5	ug/L
>	Ge	72	219409.846	1.5	193550.369				ug/L
	As	75	948.063	2.3	97.335	0.31645	0.007	2.3	ug/L
	Se	77	616.356	0.9	187.669	2.09238	0.078	3.7	ug/L
	Se	78	16847.955	0.3	13588.495	2.31533	0.394	17.0	mg/L
	Se	82	2062.322	0.2	1139.011	2.86671	0.117	4.1	ug/L
	Kr	83	1575.498	3.5	1141.423				mg/L
	Y	89	454035.045	0.4	354910.360				ug/L
	Mo	95	126679.951	1.2	114.335	23.34467	0.393	1.7	ug/L
	Mo	97	80669.485	2.1	49.001	22.85413	0.561	2.5	ug/L
	Mo	98	207668.320	2.3	58.127	22.92953	0.492	2.1	ug/L
	Rh	103	357021.948	1.1	323620.727				ug/L
	Ag	107	103.668	4.9	57.001	0.00306	0.000	10.4	ug/L
	Ag	109	70.334	7.2	41.334	0.00193	0.000	18.5	ug/L
	Cd	111	1024.078	6.2	233.296	0.24007	0.022	9.0	ug/L
	Cd	114	2023.263	6.1	64.652	0.26503	0.017	6.3	ug/L
>	In	115	390638.716	0.8	364581.825				ug/L
	Sb	121	1385.462	2.7	51.001	0.13013	0.004	3.4	ug/L
	Sb	123	1011.838	1.8	45.100	0.12558	0.002	1.7	ug/L
	Ba	135	125053.718	1.6	65.001	49.20466	0.980	2.0	ug/L
	Ba	137	212801.344	1.6	74.668	49.97994	0.938	1.9	ug/L
>	Tb	159	451917.117	0.4	439210.410				ug/L
>	Ho	165	435928.320	0.7	425708.154				ug/L
	Tl	203	277.341	4.0	51.001	0.02805	0.002	5.6	ug/L
	Tl	205	604.695	2.7	72.668	0.02904	0.001	2.8	ug/L
	Pb	208	5492.432	1.4	767.689	0.18524	0.001	0.8	ug/L

Pb	206	1413.801	4.2	194.671	0.18156	0.008	4.5	ug/L
Pb	207	1169.761	3.9	181.671	0.17676	0.008	4.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		117.510			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		113.361			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.147			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.893			
>	Ho	165		102.401			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950036

Sample Date/Time: Tuesday, November 21, 2006 12:14:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950036.028

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	6745.463	1.2	54.001	4.58950	0.126	2.8	ug/L
	Al	27	108989287.982	1.2	9687.584	9562.15454	200.421	2.1	ug/L
>	Sc	45	519629.765	2.9	378480.621				ug/L
	V	51	5705.793	7.8	4514.855	-0.02526	0.017	66.7	ug/L
	Cr	52	49331.764	1.4	14908.140	1.68005	0.089	5.3	ug/L
	Cr	53	5494.867	2.2	661.366	2.18981	0.021	1.0	ug/L
	Mn	55	318457145.414	2.2	587.693	16700.66592	576.516	3.5	ug/L
	Co	59	4788091.081	1.3	242.339	290.42540	6.407	2.2	ug/L
	Ni	60	2840581.892	1.6	623.696	776.82538	22.232	2.9	ug/L
	Ni	62	346748.230	1.6	504.354	618.36767	25.191	4.1	ug/L
	Cu	63	25481692.071	3.1	1290.783	2992.05838	25.957	0.9	ug/L
	Cu	65	12265628.248	0.9	588.027	2957.16092	47.806	1.6	ug/L
	Zn	66	3937656.427	3.3	2796.188	1662.13065	14.534	0.9	ug/L
	Zn	67	496735.168	1.4	500.354	1234.36861	38.122	3.1	ug/L
	Zn	68	2753359.656	2.6	2052.621	1603.19683	32.235	2.0	ug/L
>	Ge	72	223478.973	2.5	193550.369				ug/L
	As	75	2310.344	3.1	97.335	0.81510	0.013	1.6	ug/L
	Se	77	772.502	1.0	187.669	2.82895	0.068	2.4	ug/L
	Se	78	18336.044	0.3	13588.495	4.17174	0.773	18.5	mg/L
	Se	82	2117.336	1.4	1139.011	2.92983	0.217	7.4	ug/L
	Kr	83	1786.210	5.3	1141.423				mg/L
	Y	89	3348963.503	1.2	354910.360				ug/L
	Mo	95	2942.883	3.2	114.335	0.52813	0.013	2.5	ug/L
	Mo	97	288.008	6.9	49.001	0.06800	0.006	9.5	ug/L
	Mo	98	1148.974	3.7	58.127	0.12190	0.005	3.9	ug/L
	Rh	103	349632.776	2.2	323620.727				ug/L
	Ag	107	153.336	1.4	57.001	0.00680	0.000	3.3	ug/L
	Ag	109	78.001	3.8	41.334	0.00258	0.000	6.8	ug/L
	Cd	111	35269.563	0.8	233.296	11.01820	0.175	1.6	ug/L
	Cd	114	74369.081	2.1	64.652	10.22590	0.183	1.8	ug/L
>	In	115	384965.065	0.9	364581.825				ug/L
	Sb	121	535.023	3.0	51.001	0.04773	0.001	2.6	ug/L
	Sb	123	417.660	3.2	45.100	0.04893	0.001	2.8	ug/L
	Ba	135	41855.946	1.2	65.001	15.53348	0.275	1.8	ug/L
	Ba	137	71410.045	0.7	74.668	15.82424	0.018	0.1	ug/L
>	Tb	159	478585.266	0.6	439210.410				ug/L
>	Ho	165	474687.495	1.4	425708.154				ug/L
	Tl	203	8536.456	0.9	51.001	0.97015	0.012	1.3	ug/L
	Tl	205	20408.168	1.8	72.668	1.02243	0.022	2.2	ug/L
	Pb	208	78939.471	1.5	767.689	2.82311	0.077	2.7	ug/L

Pb	206	20611.666	0.9	194.671	2.80080	0.055	2.0	ug/L
Pb	207	16894.945	0.7	181.671	2.75518	0.059	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		137.294			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		115.463			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.591			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		108.965			
>	Ho	165		111.505			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, November 21, 2006 12:19:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 3.029

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1224.769	2.7	54.001	1.04030	0.043	4.1	ug/L
	Al	27	92773.671	2.4	9687.584	9.37752	0.374	4.0	ug/L
>	Sc	45	401142.451	1.4	378480.621				ug/L
	V	51	20741.273	1.6	4514.855	1.05198	0.024	2.3	ug/L
	Cr	52	29149.195	1.9	14908.140	1.00557	0.033	3.3	ug/L
	Cr	53	3064.594	2.6	661.366	1.46206	0.071	4.9	ug/L
	Mn	55	21205.497	1.8	587.693	1.11800	0.031	2.7	ug/L
	Co	59	16772.698	1.2	242.339	1.03845	0.016	1.6	ug/L
	Ni	60	3905.287	1.3	623.696	0.91123	0.023	2.5	ug/L
	Ni	62	871.054	5.3	504.354	0.57374	0.081	14.0	ug/L
	Cu	63	9090.383	3.4	1290.783	0.93288	0.045	4.8	ug/L
	Cu	65	4405.542	2.7	588.027	0.93833	0.034	3.6	ug/L
	Zn	66	14621.964	0.8	2796.188	5.04657	0.072	1.4	ug/L
	Zn	67	2327.682	0.8	500.354	4.56955	0.045	1.0	ug/L
	Zn	68	10220.700	1.1	2052.621	4.79918	0.107	2.2	ug/L
>	Ge	72	215376.292	0.8	193550.369				ug/L
	As	75	2841.846	1.9	97.335	1.05190	0.019	1.8	ug/L
	Se	77	419.877	1.5	187.669	1.11434	0.044	4.0	ug/L
	Se	78	15187.375	2.9	13588.495	0.10941	0.740	676.0	mg/L
	Se	82	1676.702	1.0	1139.011	1.54941	0.067	4.3	ug/L
	Kr	83	1401.465	2.6	1141.423				mg/L
	Y	89	402094.790	2.7	354910.360				ug/L
	Mo	95	5860.454	3.7	114.335	1.07071	0.037	3.4	ug/L
	Mo	97	3580.472	3.4	49.001	1.01165	0.030	3.0	ug/L
	Mo	98	9329.887	0.8	58.127	1.03562	0.024	2.3	ug/L
	Rh	103	360453.405	0.8	323620.727				ug/L
	Ag	107	14733.833	2.5	57.001	1.06730	0.030	2.9	ug/L
	Ag	109	13924.767	2.1	41.334	1.04090	0.025	2.4	ug/L
	Cd	111	3408.796	2.0	233.296	0.99128	0.007	0.7	ug/L
	Cd	114	7528.635	0.5	64.652	1.02361	0.021	2.1	ug/L
>	In	115	386223.279	1.6	364581.825				ug/L
	Sb	121	10393.916	1.1	51.001	1.02268	0.024	2.3	ug/L
	Sb	123	7835.869	4.4	45.100	1.02635	0.030	2.9	ug/L
	Ba	135	2779.825	2.0	65.001	1.08466	0.006	0.6	ug/L
	Ba	137	4884.814	1.8	74.668	1.14741	0.032	2.8	ug/L
>	Tb	159	445107.734	1.5	439210.410				ug/L
>	Ho	165	443933.293	1.1	425708.154				ug/L
	Tl	203	8623.547	1.7	51.001	1.04856	0.029	2.7	ug/L
	Tl	205	20406.501	2.3	72.668	1.09358	0.036	3.3	ug/L
	Pb	208	26771.649	1.3	767.689	1.00396	0.024	2.4	ug/L

Pb	206	7001.010	1.3	194.671	0.99824	0.023	2.3	ug/L
Pb	207	5744.372	3.6	181.671	0.98053	0.047	4.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	104.030				
	Al	27	93.775				
>	Sc	45		105.988			
	V	51	105.198				
	Cr	52	100.557				
	Cr	53	146.206				
	Mn	55	111.800				
	Co	59	103.845				
	Ni	60	91.123				
	Ni	62	57.374				
	Cu	63	93.288				
	Cu	65	93.833				
	Zn	66	100.931				
	Zn	67	91.391				
	Zn	68	95.984				
>	Ge	72		111.277			
	As	75	105.190				
	Se	77	111.434				
	Se	78	10.941				
	Se	82	154.941				
	Kr	83					
	Y	89					
	Mo	95	107.071				
	Mo	97	101.165				
	Mo	98	103.562				
	Rh	103					
	Ag	107	106.730				
	Ag	109	104.090				
	Cd	111	99.128				
	Cd	114	102.361				
>	In	115		105.936			
	Sb	121	102.268				
	Sb	123	102.635				
	Ba	135	108.466				
	Ba	137	114.741				
>	Tb	159		101.343			
>	Ho	165		104.281			
	Tl	203	104.856				
	Tl	205	109.358				
	Pb	208	100.396				
	Pb	206	99.824				
	Pb	207	98.053				

Elan 9000 Method 6020 - Summary Report

Sample ID: HLCCV2

Sample Date/Time: Tuesday, November 21, 2006 12:25:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\HLCCV2.030

Not poured up

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	41.001	13.6	54.001	3.88513	0.500	12.9	ug/L
	Al	27	360.011	2.6	9687.584	3.24558	0.097	3.0	ug/L
>	Sc	45	3718.867	1.3	378480.621				ug/L
	V	51	2796.863	4.7	4514.855	19.57093	0.834	4.3	ug/L
	Cr	52	9618.310	0.5	14908.140	76.97300	1.107	1.4	ug/L
	Cr	53	778.044	4.0	661.366	51.45034	1.554	3.0	ug/L
	Mn	55	4317.161	0.7	587.693	145.90055	3.064	2.1	ug/L
	Co	59	100.002	11.4	242.339	3.90189	0.555	14.2	ug/L
	Ni	60	85.335	7.6	623.696	14.86927	1.520	10.2	ug/L
	Ni	62	102.002	2.6	504.354	116.40923	4.887	4.2	ug/L
	Cu	63	147.336	10.5	1290.783	10.97894	1.120	10.2	ug/L
	Cu	65	168.337	8.5	588.027	26.03260	2.732	10.5	ug/L
	Zn	66	146.336	15.0	2796.188	38.52623	6.137	15.9	ug/L
	Zn	67	105.668	14.2	500.354	168.02264	24.105	14.3	ug/L
	Zn	68	422.682	5.9	2052.621	157.34900	6.932	4.4	ug/L
>	Ge	72	346.677	2.7	193550.369				ug/L
	As	75	116.669	11.5	97.335	27.83201	2.858	10.3	ug/L
	Se	77	146.868	2.2	187.669	481.00934	23.740	4.9	ug/L
	Se	78	19156.511	1.1	13588.495	19394.72361	691.440	3.6	mg/L
	Se	82	3264.506	0.6	1139.011	7676.14112	193.861	2.5	ug/L
	Kr	83	3312.692	1.6	1141.423				mg/L
	Y	89	34.000	5.1	354910.360				ug/L
	Mo	95	109.668	6.7	114.335	281.62749	89.012	31.6	ug/L
	Mo	97	28.667	19.2	49.001	118.19447	63.297	53.6	ug/L
	Mo	98	27.346	8.0	58.127	42.98274	17.688	41.2	ug/L
	Rh	103	33.334	1.7	323620.727				ug/L
	Ag	107	48.001	10.8	57.001	48.47556	19.010	39.2	ug/L
	Ag	109	43.667	27.3	41.334	42.55754	5.455	12.8	ug/L
	Cd	111	62.135	22.0	233.296	282.52414	159.599	56.5	ug/L
	Cd	114	133.510	19.0	64.652	254.48774	110.341	43.4	ug/L
>	In	115	30.189	33.5	364581.825				ug/L
	Sb	121	33.334	6.2	51.001	46.01320	17.285	37.6	ug/L
	Sb	123	30.724	14.7	45.100	57.82623	28.467	49.2	ug/L
	Ba	135	28.000	27.0	65.001	172.63321	39.303	22.8	ug/L
	Ba	137	35.667	29.2	74.668	132.59173	38.983	29.4	ug/L
>	Tb	159	28.667	8.8	439210.410				ug/L
>	Ho	165	32.667	22.6	425708.154				ug/L
	Tl	203	171.670	12.0	51.001	289.62775	28.439	9.8	ug/L
	Tl	205	394.680	20.5	72.668	289.53838	14.476	5.0	ug/L
	Pb	208	144.002	11.2	767.689	77.10192	11.794	15.3	ug/L

Pb	206	50.667	20.2	194.671	101.91851	15.226	14.9	ug/L
Pb	207	37.000	29.2	181.671	91.68731	36.574	39.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		0.983			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		0.179			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		0.008			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		0.007			
>	Ho	165		0.008			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 21, 2006 12:31:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 6.031

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54326.180	3.4	54.001	50.45865	2.074	4.1	ug/L
	Al	27	441062.709	2.0	9687.584	51.14390	1.609	3.1	ug/L
>	Sc	45	384383.648	1.1	378480.621				ug/L
	V	51	780477.702	1.6	4514.855	53.37712	0.391	0.7	ug/L
	Cr	52	668054.598	0.5	14908.140	51.33069	0.369	0.7	ug/L
	Cr	53	82141.710	1.3	661.366	52.57267	0.612	1.2	ug/L
	Mn	55	911516.026	1.3	587.693	52.22278	1.173	2.2	ug/L
	Co	59	797585.795	1.7	242.339	52.87949	1.255	2.4	ug/L
	Ni	60	171711.321	1.5	623.696	51.15302	1.108	2.2	ug/L
	Ni	62	26651.490	1.6	504.354	50.98632	0.456	0.9	ug/L
	Cu	63	417601.680	3.3	1290.783	53.46946	2.299	4.3	ug/L
	Cu	65	197372.177	2.4	588.027	51.87292	1.763	3.4	ug/L
	Zn	66	112697.060	0.6	2796.188	50.71156	0.830	1.6	ug/L
	Zn	67	19128.142	4.0	500.354	50.59515	2.539	5.0	ug/L
	Zn	68	81476.637	2.2	2052.621	50.54629	1.601	3.2	ug/L
>	Ge	72	204361.631	0.9	193550.369				ug/L
	As	75	127446.089	2.3	97.335	51.65399	1.643	3.2	ug/L
	Se	77	9593.119	0.9	187.669	52.27735	0.993	1.9	ug/L
	Se	78	43945.774	3.8	13588.495	50.89035	3.592	7.1	mg/L
	Se	82	14296.255	1.7	1139.011	52.24799	1.497	2.9	ug/L
	Kr	83	1430.470	1.7	1141.423				mg/L
	Y	89	383157.047	0.8	354910.360				ug/L
	Mo	95	278401.824	2.6	114.335	54.90182	1.385	2.5	ug/L
	Mo	97	168818.266	2.0	49.001	51.18553	1.777	3.5	ug/L
	Mo	98	451314.092	1.3	58.127	53.33058	1.900	3.6	ug/L
	Rh	103	333473.946	1.7	323620.727				ug/L
	Ag	107	677933.087	3.8	57.001	52.11040	0.065	0.1	ug/L
	Ag	109	635808.327	1.3	41.334	50.42156	1.406	2.8	ug/L
	Cd	111	154322.599	1.3	233.296	51.10053	1.230	2.4	ug/L
	Cd	114	352848.602	0.5	64.652	51.20376	1.931	3.8	ug/L
>	In	115	365378.557	3.7	364581.825				ug/L
	Sb	121	479817.406	1.0	51.001	50.20508	2.310	4.6	ug/L
	Sb	123	361311.810	3.0	45.100	50.35552	1.033	2.1	ug/L
	Ba	135	133091.238	1.7	65.001	54.19486	0.708	1.3	ug/L
	Ba	137	222919.138	1.9	74.668	54.18247	0.790	1.5	ug/L
>	Tb	159	436659.988	0.5	439210.410				ug/L
>	Ho	165	427671.924	1.1	425708.154				ug/L
	Tl	203	397876.242	1.9	51.001	50.51426	0.792	1.6	ug/L
	Tl	205	930486.745	1.0	72.668	51.93802	0.221	0.4	ug/L
	Pb	208	1272803.475	1.3	767.689	51.03510	0.540	1.1	ug/L

Pb	206	334398.103	1.6	194.671	50.93459	0.748	1.5	ug/L
Pb	207	269400.617	2.9	181.671	49.30950	1.199	2.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.917				
	Al	27	102.288				
>	Sc	45		101.560			
	V	51	106.754				
	Cr	52	102.661				
	Cr	53	105.145				
	Mn	55	104.446				
	Co	59	105.759				
	Ni	60	102.306				
	Ni	62	101.973				
	Cu	63	106.939				
	Cu	65	103.746				
	Zn	66	101.423				
	Zn	67	101.190				
	Zn	68	101.093				
>	Ge	72		105.586			
	As	75	103.308				
	Se	77	104.555				
	Se	78	101.781				
	Se	82	104.496				
	Kr	83					
	Y	89					
	Mo	95	109.804				
	Mo	97	102.371				
	Mo	98	106.661				
	Rh	103					
	Ag	107	104.221				
	Ag	109	100.843				
	Cd	111	102.201				
	Cd	114	102.408				
>	In	115		100.219			
	Sb	121	100.410				
	Sb	123	100.711				
	Ba	135	108.390				
	Ba	137	108.365				
>	Tb	159		99.419			
>	Ho	165		100.461			
	Tl	203	101.029				
	Tl	205	103.876				
	Pb	208	102.070				
	Pb	206	101.869				
	Pb	207	98.619				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 21, 2006 12:37:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 7.032

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	57.667	12.8	54.001	0.00394	0.007	181.7	ug/L
	Al	27	3328.698	1.2	9687.584	-0.76234	0.006	0.8	ug/L
>	Sc	45	375292.267	0.3	378480.621				ug/L
	V	51	4241.049	2.9	4514.855	-0.01661	0.009	53.5	ug/L
	Cr	52	14473.705	1.5	14908.140	-0.02485	0.020	78.6	ug/L
	Cr	53	992.402	2.9	661.366	0.22249	0.020	9.1	ug/L
	Mn	55	687.369	10.5	587.693	0.00511	0.004	68.6	ug/L
	Co	59	192.337	2.9	242.339	-0.00378	0.001	16.6	ug/L
	Ni	60	570.025	1.8	623.696	-0.02070	0.004	20.0	ug/L
	Ni	62	320.676	2.2	504.354	-0.39253	0.004	1.1	ug/L
	Cu	63	876.388	5.7	1290.783	-0.05862	0.008	13.6	ug/L
	Cu	65	493.353	6.2	588.027	-0.02910	0.011	38.5	ug/L
	Zn	66	1647.179	0.2	2796.188	-0.57722	0.019	3.3	ug/L
	Zn	67	356.345	3.8	500.354	-0.43463	0.048	11.1	ug/L
	Zn	68	1231.770	1.9	2052.621	-0.56962	0.016	2.8	ug/L
>	Ge	72	197735.065	2.6	193550.369				ug/L
	As	75	138.336	20.2	97.335	0.01614	0.010	63.1	ug/L
	Se	77	210.136	0.2	187.669	0.10636	0.029	27.6	ug/L
	Se	78	14476.420	2.2	13588.495	1.07516	1.187	110.4	mg/L
	Se	82	1376.580	1.8	1139.011	0.88173	0.229	26.0	ug/L
	Kr	83	1401.799	1.2	1141.423				mg/L
	Y	89	375092.015	2.2	354910.360				ug/L
	Mo	95	528.356	18.3	114.335	0.08315	0.021	25.0	ug/L
	Mo	97	299.675	10.9	49.001	0.07723	0.011	14.6	ug/L
	Mo	98	687.087	22.1	58.127	0.07549	0.019	25.4	ug/L
	Rh	103	337337.894	4.2	323620.727				ug/L
	Ag	107	116.002	4.5	57.001	0.00464	0.000	6.4	ug/L
	Ag	109	101.668	15.7	41.334	0.00488	0.001	25.8	ug/L
	Cd	111	207.588	12.8	233.296	-0.00779	0.009	112.8	ug/L
	Cd	114	63.074	13.6	64.652	-0.00012	0.001	1192.5	ug/L
>	In	115	360636.361	1.4	364581.825				ug/L
	Sb	121	868.388	18.7	51.001	0.08678	0.018	21.2	ug/L
	Sb	123	650.223	15.6	45.100	0.08564	0.016	18.2	ug/L
	Ba	135	48.001	3.6	65.001	-0.00706	0.000	4.0	ug/L
	Ba	137	60.001	10.4	74.668	-0.00368	0.001	32.5	ug/L
>	Tb	159	442979.988	2.1	439210.410				ug/L
>	Ho	165	417591.090	0.9	425708.154				ug/L
	Tl	203	80.001	7.0	51.001	0.00390	0.001	19.1	ug/L
	Tl	205	129.669	9.4	72.668	0.00333	0.001	19.1	ug/L
	Pb	208	385.007	1.8	767.689	-0.01512	0.000	2.7	ug/L

Pb	206	102.002	10.8	194.671	-0.01388	0.002	13.2	ug/L
Pb	207	102.002	4.3	181.671	-0.01430	0.001	5.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.158			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.162			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.918			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.858			
>	Ho	165		98.093			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030 D.5

Sample Date/Time: Tuesday, November 21, 2006 12:49:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030 D.5.033

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	63.001	9.9	54.001	0.00582	0.006	102.1	ug/L
	Al	27	319943.758	1.9	9687.584	35.61114	0.423	1.2	ug/L
>	Sc	45	396475.326	0.8	378480.621				ug/L
	V	51	5296.979	11.2	4514.855	0.03804	0.042	110.8	ug/L
	Cr	52	37699.503	2.8	14908.140	1.68358	0.103	6.1	ug/L
	Cr	53	3639.164	1.8	661.366	1.84318	0.032	1.7	ug/L
	Mn	55	58540.178	1.5	587.693	3.41684	0.103	3.0	ug/L
	Co	59	1730.197	2.1	242.339	0.10105	0.003	2.9	ug/L
	Ni	60	5274.722	2.2	623.696	1.42519	0.017	1.2	ug/L
	Ni	62	851.719	1.2	504.354	0.67078	0.034	5.0	ug/L
	Cu	63	1833.220	1.2	1290.783	0.06719	0.007	10.4	ug/L
	Cu	65	982.068	1.8	588.027	0.10266	0.008	7.6	ug/L
	Zn	66	5604.608	2.7	2796.188	1.30067	0.121	9.3	ug/L
	Zn	67	1007.404	2.3	500.354	1.38198	0.105	7.6	ug/L
	Zn	68	4511.934	4.1	2052.621	1.57620	0.118	7.5	ug/L
>	Ge	72	198704.266	1.9	193550.369				ug/L
	As	75	232.672	3.8	97.335	0.05535	0.002	4.3	ug/L
	Se	77	234.670	5.1	187.669	0.24015	0.058	24.0	ug/L
	Se	78	14712.579	0.5	13588.495	1.35409	0.556	41.1	mg/L
	Se	82	1445.392	1.1	1139.011	1.13340	0.064	5.7	ug/L
	Kr	83	1497.816	2.8	1141.423				mg/L
	Y	89	373828.254	1.1	354910.360				ug/L
	Mo	95	479.685	8.6	114.335	0.06974	0.009	12.3	ug/L
	Mo	97	272.341	3.9	49.001	0.06570	0.004	6.8	ug/L
	Mo	98	624.417	6.9	58.127	0.06513	0.006	9.3	ug/L
	Rh	103	339198.644	5.3	323620.727				ug/L
	Ag	107	79.335	7.7	57.001	0.00157	0.001	35.2	ug/L
	Ag	109	55.334	4.5	41.334	0.00100	0.000	25.4	ug/L
	Cd	111	208.575	7.1	233.296	-0.01005	0.005	44.9	ug/L
	Cd	114	100.423	19.5	64.652	0.00483	0.003	59.9	ug/L
>	In	115	374466.756	1.8	364581.825				ug/L
	Sb	121	242.673	2.9	51.001	0.01941	0.001	3.8	ug/L
	Sb	123	178.685	3.0	45.100	0.01801	0.001	5.9	ug/L
	Ba	135	4890.818	3.1	65.001	1.96882	0.065	3.3	ug/L
	Ba	137	8760.692	2.4	74.668	2.11454	0.028	1.3	ug/L
>	Tb	159	436203.171	2.6	439210.410				ug/L
>	Ho	165	423188.890	1.1	425708.154				ug/L
	Tl	203	69.334	12.1	51.001	0.00240	0.001	48.4	ug/L
	Tl	205	141.669	5.0	72.668	0.00392	0.000	9.2	ug/L
	Pb	208	2307.478	0.9	767.689	0.06262	0.000	0.7	ug/L

Pb	206	615.696	3.8	194.671	0.06502	0.004	5.4	ug/L
Pb	207	516.021	5.2	181.671	0.06210	0.005	8.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		104.754			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.663			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.711			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.315			
>	Ho	165		99.408			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030D D.5

Sample Date/Time: Tuesday, November 21, 2006 12:55:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030D D.5.034

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	61.668	21.9	54.001	0.00478	0.011	231.0	ug/L
	Al	27	375499.775	0.6	9687.584	42.27755	1.392	3.3	ug/L
>	Sc	45	394168.457	2.7	378480.621				ug/L
	V	51	5729.210	9.6	4514.855	0.06903	0.038	54.6	ug/L
	Cr	52	43159.602	2.0	14908.140	2.12040	0.126	5.9	ug/L
	Cr	53	4172.420	2.5	661.366	2.19318	0.088	4.0	ug/L
	Mn	55	58190.728	1.2	587.693	3.36586	0.087	2.6	ug/L
	Co	59	1793.544	1.8	242.339	0.10435	0.005	4.9	ug/L
	Ni	60	5761.048	1.0	623.696	1.56019	0.068	4.3	ug/L
	Ni	62	965.399	2.5	504.354	0.88165	0.034	3.9	ug/L
	Cu	63	2641.779	5.5	1290.783	0.17120	0.027	15.7	ug/L
	Cu	65	1352.123	4.3	588.027	0.20002	0.024	12.1	ug/L
	Zn	66	2155.300	0.6	2796.188	-0.34842	0.036	10.2	ug/L
	Zn	67	473.018	7.1	500.354	-0.12357	0.124	100.5	ug/L
	Zn	68	1921.241	5.8	2052.621	-0.13323	0.061	46.1	ug/L
>	Ge	72	200505.151	3.0	193550.369				ug/L
	As	75	230.672	4.2	97.335	0.05377	0.006	11.3	ug/L
	Se	77	227.003	4.1	187.669	0.18544	0.062	33.4	ug/L
	Se	78	14635.759	1.1	13588.495	0.99979	1.044	104.4	mg/L
	Se	82	1443.258	1.3	1139.011	1.07506	0.229	21.3	ug/L
	Kr	83	1476.479	1.7	1141.423				mg/L
	Y	89	383029.330	2.7	354910.360				ug/L
	Mo	95	415.014	4.0	114.335	0.05948	0.001	1.7	ug/L
	Mo	97	201.338	4.6	49.001	0.04637	0.004	7.8	ug/L
	Mo	98	496.704	4.7	58.127	0.05194	0.001	2.6	ug/L
	Rh	103	341480.756	3.4	323620.727				ug/L
	Ag	107	80.001	11.5	57.001	0.00179	0.001	44.3	ug/L
	Ag	109	56.334	8.2	41.334	0.00120	0.000	40.0	ug/L
	Cd	111	221.604	4.8	233.296	-0.00372	0.005	142.7	ug/L
	Cd	114	74.641	28.9	64.652	0.00141	0.003	201.1	ug/L
>	In	115	364243.383	2.7	364581.825				ug/L
	Sb	121	189.004	9.2	51.001	0.01451	0.002	15.5	ug/L
	Sb	123	149.569	5.0	45.100	0.01460	0.001	4.6	ug/L
	Ba	135	4979.537	1.7	65.001	1.97646	0.039	2.0	ug/L
	Ba	137	8704.632	2.0	74.668	2.07140	0.045	2.2	ug/L
>	Tb	159	442330.642	0.4	439210.410				ug/L
>	Ho	165	412057.647	0.6	425708.154				ug/L
	Tl	203	92.668	14.7	51.001	0.00570	0.002	30.0	ug/L
	Tl	205	163.337	0.9	72.668	0.00539	0.000	0.5	ug/L
	Pb	208	2320.814	3.6	767.689	0.06571	0.004	6.2	ug/L

Pb	206	615.029	3.6	194.671	0.06748	0.004	5.4	ug/L
Pb	207	514.354	1.6	181.671	0.06436	0.002	3.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		104.145			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.593			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		99.907			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.710			
>	Ho	165		96.793			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030S D.5

Sample Date/Time: Tuesday, November 21, 2006 13:01:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030S D.5.035

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	4378.527	2.2	54.001	3.93306	0.130	3.3	ug/L
	Al	27	443630.033	1.6	9687.584	50.32035	1.185	2.4	ug/L
>	Sc	45	392769.156	1.1	378480.621				ug/L
	V	51	76924.414	12.8	4514.855	4.86152	0.633	13.0	ug/L
	Cr	52	112026.607	20.8	14908.140	7.42330	1.748	23.5	ug/L
	Cr	53	10569.808	2.7	661.366	6.24226	0.206	3.3	ug/L
	Mn	55	138468.086	1.3	587.693	7.93683	0.131	1.6	ug/L
	Co	59	66610.856	1.3	242.339	4.41932	0.034	0.8	ug/L
	Ni	60	19884.232	1.8	623.696	5.77519	0.139	2.4	ug/L
	Ni	62	3081.934	2.3	504.354	5.00355	0.168	3.4	ug/L
	Cu	63	36867.766	2.1	1290.783	4.58067	0.119	2.6	ug/L
	Cu	65	17810.861	1.6	588.027	4.55197	0.102	2.2	ug/L
	Zn	66	10781.748	2.7	2796.188	3.63935	0.139	3.8	ug/L
	Zn	67	1910.238	1.5	500.354	3.78055	0.065	1.7	ug/L
	Zn	68	8018.937	1.0	2052.621	3.75096	0.034	0.9	ug/L
>	Ge	72	203474.550	0.6	193550.369				ug/L
	As	75	10530.755	0.4	97.335	4.24772	0.011	0.2	ug/L
	Se	77	969.456	0.8	187.669	4.31488	0.039	0.9	ug/L
	Se	78	16827.646	3.3	13588.495	4.39064	1.052	24.0	mg/L
	Se	82	2482.703	2.3	1139.011	5.14953	0.168	3.3	ug/L
	Kr	83	1453.141	3.9	1141.423				mg/L
	Y	89	379066.466	2.1	354910.360				ug/L
	Mo	95	22718.157	1.6	114.335	4.40351	0.057	1.3	ug/L
	Mo	97	14771.896	1.1	49.001	4.40856	0.080	1.8	ug/L
	Mo	98	37850.548	2.8	58.127	4.40920	0.131	3.0	ug/L
	Rh	103	341574.855	1.3	323620.727				ug/L
	Ag	107	55943.771	2.2	57.001	4.24521	0.123	2.9	ug/L
	Ag	109	54223.401	1.4	41.334	4.24260	0.047	1.1	ug/L
	Cd	111	12701.041	3.8	233.296	4.08220	0.180	4.4	ug/L
	Cd	114	29480.472	1.9	64.652	4.21401	0.063	1.5	ug/L
>	In	115	369820.032	0.7	364581.825				ug/L
	Sb	121	41291.815	1.8	51.001	4.25893	0.072	1.7	ug/L
	Sb	123	30303.835	1.4	45.100	4.16610	0.087	2.1	ug/L
	Ba	135	15813.150	1.8	65.001	6.48554	0.187	2.9	ug/L
	Ba	137	27047.430	1.1	74.668	6.62944	0.170	2.6	ug/L
>	Tb	159	432117.024	1.6	439210.410				ug/L
>	Ho	165	420679.116	1.3	425708.154				ug/L
	Tl	203	32991.507	0.2	51.001	4.25276	0.056	1.3	ug/L
	Tl	205	79941.812	1.7	72.668	4.53382	0.138	3.0	ug/L
	Pb	208	107362.473	0.8	767.689	4.34860	0.070	1.6	ug/L

Pb	206	27430.012	0.6	194.671	4.22077	0.076	1.8	ug/L
Pb	207	22885.950	1.6	181.671	4.22879	0.097	2.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.775			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.127			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.437			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.385			
>	Ho	165		98.819			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 21, 2006 13:07:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 6.036

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54186.855	2.0	54.001	50.28737	1.463	2.9	ug/L
	Al	27	428214.052	0.4	9687.584	49.57244	0.641	1.3	ug/L
>	Sc	45	384688.113	1.0	378480.621				ug/L
	V	51	772124.428	3.7	4514.855	52.77530	2.391	4.5	ug/L
	Cr	52	651085.257	1.7	14908.140	49.95676	0.980	2.0	ug/L
	Cr	53	80146.434	1.7	661.366	51.24033	0.406	0.8	ug/L
	Mn	55	905453.486	1.0	587.693	52.42362	0.545	1.0	ug/L
	Co	59	771849.927	2.6	242.339	51.72351	1.794	3.5	ug/L
	Ni	60	165850.100	2.5	623.696	49.91761	0.641	1.3	ug/L
	Ni	62	24926.143	1.4	504.354	48.15098	1.425	3.0	ug/L
	Cu	63	402052.552	2.0	1290.783	52.00486	0.286	0.5	ug/L
	Cu	65	191046.369	3.8	588.027	50.72300	1.454	2.9	ug/L
	Zn	66	109849.098	1.2	2796.188	49.94232	1.314	2.6	ug/L
	Zn	67	18999.160	1.5	500.354	50.78555	1.100	2.2	ug/L
	Zn	68	80120.460	0.8	2052.621	50.21988	0.547	1.1	ug/L
>	Ge	72	202212.332	1.5	193550.369				ug/L
	As	75	122937.066	0.4	97.335	50.35444	0.912	1.8	ug/L
	Se	77	9423.460	1.9	187.669	51.88336	0.498	1.0	ug/L
	Se	78	44102.899	2.3	13588.495	51.93732	0.728	1.4	mg/L
	Se	82	14040.351	0.3	1139.011	51.82350	1.053	2.0	ug/L
	Kr	83	1440.472	4.7	1141.423				mg/L
	Y	89	366270.034	1.4	354910.360				ug/L
	Mo	95	269199.859	2.8	114.335	53.71608	0.585	1.1	ug/L
	Mo	97	166877.591	3.0	49.001	51.18123	0.639	1.2	ug/L
	Mo	98	442188.577	1.3	58.127	52.87573	1.588	3.0	ug/L
	Rh	103	328468.148	0.7	323620.727				ug/L
	Ag	107	666735.061	2.2	57.001	51.88659	0.569	1.1	ug/L
	Ag	109	649227.905	1.6	41.334	52.09640	0.855	1.6	ug/L
	Cd	111	149541.916	1.3	233.296	50.10405	0.216	0.4	ug/L
	Cd	114	343057.656	1.8	64.652	50.36605	1.338	2.7	ug/L
>	In	115	360893.256	1.7	364581.825				ug/L
	Sb	121	461600.389	0.6	51.001	48.85244	0.804	1.6	ug/L
	Sb	123	355724.537	1.2	45.100	50.18112	0.264	0.5	ug/L
	Ba	135	128362.096	1.3	65.001	54.27509	0.613	1.1	ug/L
	Ba	137	219740.625	1.9	74.668	55.46266	1.159	2.1	ug/L
>	Tb	159	420539.470	0.7	439210.410				ug/L
>	Ho	165	411673.005	0.7	425708.154				ug/L
	Tl	203	391162.921	2.2	51.001	51.59286	1.132	2.2	ug/L
	Tl	205	908360.316	1.4	72.668	52.67689	1.036	2.0	ug/L
	Pb	208	1245274.193	0.8	767.689	51.87264	0.479	0.9	ug/L

Pb	206	329079.395	1.6	194.671	52.07224	0.777	1.5	ug/L
Pb	207	267763.831	1.2	181.671	50.91737	0.430	0.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.575				
	Al	27	99.145				
>	Sc	45		101.640			
	V	51	105.551				
	Cr	52	99.914				
	Cr	53	102.481				
	Mn	55	104.847				
	Co	59	103.447				
	Ni	60	99.835				
	Ni	62	96.302				
	Cu	63	104.010				
	Cu	65	101.446				
	Zn	66	99.885				
	Zn	67	101.571				
	Zn	68	100.440				
>	Ge	72		104.475			
	As	75	100.709				
	Se	77	103.767				
	Se	78	103.875				
	Se	82	103.647				
	Kr	83					
	Y	89					
	Mo	95	107.432				
	Mo	97	102.362				
	Mo	98	105.751				
	Rh	103					
	Ag	107	103.773				
	Ag	109	104.193				
	Cd	111	100.208				
	Cd	114	100.732				
>	In	115		98.988			
	Sb	121	97.705				
	Sb	123	100.362				
	Ba	135	108.550				
	Ba	137	110.925				
>	Tb	159		95.749			
>	Ho	165		96.703			
	Tl	203	103.186				
	Tl	205	105.354				
	Pb	208	103.745				
	Pb	206	104.144				
	Pb	207	101.835				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 21, 2006 13:13:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 7.037

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.667	11.6	54.001	-0.00198	0.005	256.8	ug/L
	Al	27	3376.051	2.1	9687.584	-0.74973	0.012	1.6	ug/L
>	Sc	45	369172.344	1.4	378480.621				ug/L
	V	51	4351.782	1.8	4514.855	-0.00374	0.002	53.5	ug/L
	Cr	52	14883.097	1.7	14908.140	0.02799	0.016	56.0	ug/L
	Cr	53	789.045	1.6	661.366	0.09671	0.005	5.4	ug/L
	Mn	55	586.693	2.9	587.693	0.00001	0.001	8516.6	ug/L
	Co	59	190.337	5.2	242.339	-0.00361	0.001	21.5	ug/L
	Ni	60	515.688	2.6	623.696	-0.03378	0.004	12.6	ug/L
	Ni	62	288.341	3.6	504.354	-0.44403	0.023	5.1	ug/L
	Cu	63	829.383	7.9	1290.783	-0.06235	0.009	14.2	ug/L
	Cu	65	438.349	4.8	588.027	-0.04140	0.006	15.0	ug/L
	Zn	66	1624.175	3.0	2796.188	-0.57026	0.020	3.5	ug/L
	Zn	67	320.009	7.9	500.354	-0.51625	0.067	13.1	ug/L
	Zn	68	1219.435	3.9	2052.621	-0.55907	0.027	4.8	ug/L
>	Ge	72	193169.869	0.7	193550.369				ug/L
	As	75	131.002	6.1	97.335	0.01454	0.004	25.9	ug/L
	Se	77	208.536	4.7	187.669	0.12504	0.058	46.5	ug/L
	Se	78	14270.965	1.1	13588.495	1.29049	0.374	29.0	mg/L
	Se	82	1377.114	0.3	1139.011	1.01462	0.046	4.5	ug/L
	Kr	83	1437.805	0.5	1141.423				mg/L
	Y	89	361508.896	3.1	354910.360				ug/L
	Mo	95	514.355	14.3	114.335	0.08102	0.014	16.8	ug/L
	Mo	97	304.675	19.4	49.001	0.07938	0.017	21.4	ug/L
	Mo	98	687.755	19.6	58.127	0.07605	0.015	20.1	ug/L
	Rh	103	339310.595	1.7	323620.727				ug/L
	Ag	107	107.335	17.8	57.001	0.00404	0.001	34.9	ug/L
	Ag	109	103.002	24.4	41.334	0.00506	0.002	39.5	ug/L
	Cd	111	212.263	7.0	233.296	-0.00554	0.005	98.2	ug/L
	Cd	114	57.193	21.4	64.652	-0.00090	0.002	211.4	ug/L
>	In	115	357338.674	1.4	364581.825				ug/L
	Sb	121	908.059	14.7	51.001	0.09162	0.013	14.4	ug/L
	Sb	123	735.013	11.1	45.100	0.09833	0.010	10.3	ug/L
	Ba	135	46.667	6.9	65.001	-0.00743	0.001	12.4	ug/L
	Ba	137	55.334	6.8	74.668	-0.00467	0.001	13.7	ug/L
>	Tb	159	438943.395	2.3	439210.410				ug/L
>	Ho	165	408216.159	0.9	425708.154				ug/L
	Tl	203	70.334	10.8	51.001	0.00285	0.001	34.1	ug/L
	Tl	205	122.335	6.0	72.668	0.00308	0.000	14.4	ug/L
	Pb	208	385.674	11.4	767.689	-0.01472	0.002	13.1	ug/L

Pb	206	107.335	19.6	194.671	-0.01265	0.003	27.6	ug/L
Pb	207	92.335	11.3	181.671	-0.01571	0.002	12.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.541			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.803			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.013			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.939			
>	Ho	165		95.891			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030A D.5

Sample Date/Time: Tuesday, November 21, 2006 13:18:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030A D.5.038

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	38324.695	88.5	54.001	36.08310	32.614	90.4	ug/L
	Al	27	610932.691	44.6	9687.584	71.71003	34.447	48.0	ug/L
>	Sc	45	385523.002	3.0	378480.621				ug/L
	V	51	551187.747	89.4	4514.855	38.14663	35.076	91.9	ug/L
	Cr	52	480110.155	85.2	14908.140	37.06221	33.325	89.9	ug/L
	Cr	53	58188.900	83.7	661.366	37.61573	32.571	86.6	ug/L
	Mn	55	665239.303	80.3	587.693	41.28588	33.564	81.3	ug/L
	Co	59	524330.501	86.3	242.339	37.71036	32.800	87.0	ug/L
	Ni	60	125274.109	88.1	623.696	40.42539	36.056	89.2	ug/L
	Ni	62	17946.544	87.0	504.354	36.94891	33.343	90.2	ug/L
	Cu	63	279332.085	87.7	1290.783	38.75221	34.373	88.7	ug/L
	Cu	65	133035.849	91.3	588.027	37.88653	34.947	92.2	ug/L
	Zn	66	71669.164	86.6	2796.188	34.55362	31.349	90.7	ug/L
	Zn	67	12735.245	85.5	500.354	36.11819	32.373	89.6	ug/L
	Zn	68	52003.508	87.3	2052.621	34.55322	31.620	91.5	ug/L
>	Ge	72	191313.874	3.9	193550.369				ug/L
	As	75	86604.799	90.9	97.335	38.06933	34.856	91.6	ug/L
	Se	77	6232.933	85.6	187.669	36.50122	32.457	88.9	ug/L
	Se	78	33862.154	50.5	13588.495	38.10561	32.794	86.1	mg/L
	Se	82	9685.971	74.5	1139.011	37.03300	31.619	85.4	ug/L
	Kr	83	1454.475	1.1	1141.423				mg/L
	Y	89	364559.704	1.6	354910.360				ug/L
	Mo	95	183969.118	87.8	114.335	36.82476	32.397	88.0	ug/L
	Mo	97	114593.172	91.9	49.001	35.25877	32.429	92.0	ug/L
	Mo	98	299486.792	88.1	58.127	35.91241	31.691	88.2	ug/L
	Rh	103	324914.766	1.1	323620.727				ug/L
	Ag	107	422902.310	58.8	57.001	33.00423	19.453	58.9	ug/L
	Ag	109	384829.266	56.9	41.334	30.96302	17.666	57.1	ug/L
	Cd	111	102719.856	93.7	233.296	34.50189	32.429	94.0	ug/L
	Cd	114	221712.125	91.6	64.652	32.64489	29.928	91.7	ug/L
>	In	115	360318.812	0.4	364581.825				ug/L
	Sb	121	316695.253	88.3	51.001	33.61642	29.733	88.4	ug/L
	Sb	123	248236.902	89.3	45.100	35.12664	31.389	89.4	ug/L
	Ba	135	83552.640	57.4	65.001	35.54698	20.372	57.3	ug/L
	Ba	137	145200.302	57.2	74.668	36.87650	21.033	57.0	ug/L
>	Tb	159	418120.374	0.9	439210.410				ug/L
>	Ho	165	398192.988	2.0	425708.154				ug/L
	Tl	203	263421.167	88.0	51.001	36.33372	32.467	89.4	ug/L
	Tl	205	590188.109	87.2	72.668	35.78613	31.712	88.6	ug/L
	Pb	208	803968.171	90.7	767.689	35.02425	32.265	92.1	ug/L

Pb	206	212819.965	90.0	194.671	35.21782	32.198	91.4	ug/L
Pb	207	175278.239	92.8	181.671	34.86540	32.836	94.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.861			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		98.844			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.831			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.198			
>	Ho	165		93.537			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030L D.5

Sample Date/Time: Tuesday, November 21, 2006 13:24:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950030L D.5.039

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	56.334	11.8	54.001	0.00428	0.006	144.8	ug/L
	Al	27	63649.313	3.5	9687.584	6.80097	0.227	3.3	ug/L
>	Sc	45	364055.302	0.7	378480.621				ug/L
	V	51	4523.105	3.7	4514.855	0.01305	0.010	77.8	ug/L
	Cr	52	18631.000	2.8	14908.140	0.35622	0.044	12.4	ug/L
	Cr	53	1278.444	2.4	661.366	0.43771	0.026	6.0	ug/L
	Mn	55	11519.739	0.5	587.693	0.65734	0.003	0.5	ug/L
	Co	59	460.351	2.9	242.339	0.01506	0.001	5.8	ug/L
	Ni	60	1114.753	5.6	623.696	0.15288	0.020	13.3	ug/L
	Ni	62	345.344	2.5	504.354	-0.33214	0.018	5.5	ug/L
	Cu	63	688.035	2.8	1290.783	-0.08231	0.003	3.4	ug/L
	Cu	65	364.345	5.8	588.027	-0.06288	0.006	9.4	ug/L
	Zn	66	1558.828	5.4	2796.188	-0.60840	0.039	6.5	ug/L
	Zn	67	329.010	0.8	500.354	-0.49782	0.008	1.6	ug/L
	Zn	68	1201.765	0.6	2052.621	-0.57746	0.005	0.8	ug/L
>	Ge	72	194756.789	0.2	193550.369				ug/L
	As	75	131.002	5.3	97.335	0.01407	0.003	21.8	ug/L
	Se	77	215.003	1.6	187.669	0.15277	0.022	14.4	ug/L
	Se	78	14165.216	0.1	13588.495	0.88734	0.046	5.2	mg/L
	Se	82	1362.111	1.1	1139.011	0.90421	0.053	5.8	ug/L
	Kr	83	1434.471	1.0	1141.423				mg/L
	Y	89	356521.641	1.7	354910.360				ug/L
	Mo	95	235.339	10.1	114.335	0.02487	0.004	18.0	ug/L
	Mo	97	118.669	6.9	49.001	0.02193	0.003	12.4	ug/L
	Mo	98	259.357	0.9	58.127	0.02446	0.000	1.2	ug/L
	Rh	103	318935.239	1.8	323620.727				ug/L
	Ag	107	84.001	8.6	57.001	0.00222	0.001	26.5	ug/L
	Ag	109	67.668	13.7	41.334	0.00221	0.001	35.6	ug/L
	Cd	111	221.814	7.7	233.296	-0.00226	0.006	259.5	ug/L
	Cd	114	56.060	17.8	64.652	-0.00108	0.001	137.5	ug/L
>	In	115	357065.602	0.7	364581.825				ug/L
	Sb	121	446.350	9.8	51.001	0.04241	0.005	11.6	ug/L
	Sb	123	364.366	17.2	45.100	0.04569	0.009	20.2	ug/L
	Ba	135	990.735	2.8	65.001	0.39587	0.017	4.4	ug/L
	Ba	137	1671.518	1.5	74.668	0.40691	0.003	0.7	ug/L
>	Tb	159	417628.564	1.5	439210.410				ug/L
>	Ho	165	405417.238	1.3	425708.154				ug/L
	Tl	203	61.001	9.1	51.001	0.00167	0.001	44.0	ug/L
	Tl	205	100.002	8.9	72.668	0.00181	0.000	25.0	ug/L
	Pb	208	976.365	3.9	767.689	0.01037	0.001	12.0	ug/L

Pb	206	256.006	1.4	194.671	0.01136	0.001	9.1	ug/L
Pb	207	231.339	2.6	181.671	0.01127	0.001	6.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		96.189			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.623			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.938			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.086			
>	Ho	165		95.234			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950031 D.5

Sample Date/Time: Tuesday, November 21, 2006 13:30:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950031 D.5.040

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.334	8.3	54.001	0.00124	0.003	265.9	ug/L
	Al	27	1138877.059	0.3	9687.584	136.15097	5.098	3.7	ug/L
>	Sc	45	378355.456	3.7	378480.621				ug/L
	V	51	9343.354	11.6	4514.855	0.33633	0.051	15.2	ug/L
	Cr	52	107785.301	2.6	14908.140	7.42236	0.247	3.3	ug/L
	Cr	53	11211.984	1.5	661.366	6.92098	0.182	2.6	ug/L
	Mn	55	146491.579	1.0	587.693	8.70194	0.133	1.5	ug/L
	Co	59	5316.416	2.0	242.339	0.34984	0.007	1.9	ug/L
	Ni	60	15645.165	1.8	623.696	4.67188	0.167	3.6	ug/L
	Ni	62	2346.021	4.2	504.354	3.72561	0.206	5.5	ug/L
	Cu	63	5076.598	3.2	1290.783	0.50363	0.033	6.5	ug/L
	Cu	65	2531.076	0.6	588.027	0.53054	0.009	1.7	ug/L
	Zn	66	3102.609	2.7	2796.188	0.12800	0.065	50.7	ug/L
	Zn	67	604.695	3.1	500.354	0.27386	0.028	10.1	ug/L
	Zn	68	2590.762	3.5	2052.621	0.33615	0.032	9.5	ug/L
>	Ge	72	196433.249	1.7	193550.369				ug/L
	As	75	613.029	1.3	97.335	0.21706	0.008	3.5	ug/L
	Se	77	242.870	0.6	187.669	0.30368	0.030	10.0	ug/L
	Se	78	14351.672	1.5	13588.495	1.00949	0.700	69.3	mg/L
	Se	82	1433.990	2.3	1139.011	1.15620	0.221	19.1	ug/L
	Kr	83	1430.137	2.3	1141.423				mg/L
	Y	89	380132.168	1.6	354910.360				ug/L
	Mo	95	1879.231	2.4	114.335	0.35439	0.016	4.5	ug/L
	Mo	97	1229.770	2.7	49.001	0.36430	0.018	5.0	ug/L
	Mo	98	2983.618	2.1	58.127	0.35160	0.017	4.9	ug/L
	Rh	103	336156.205	1.5	323620.727				ug/L
	Ag	107	81.001	4.5	57.001	0.00195	0.000	22.7	ug/L
	Ag	109	67.668	10.4	41.334	0.00218	0.001	33.3	ug/L
	Cd	111	235.218	4.6	233.296	0.00177	0.003	180.5	ug/L
	Cd	114	88.646	64.2	64.652	0.00352	0.008	227.9	ug/L
>	In	115	359415.710	2.9	364581.825				ug/L
	Sb	121	365.678	4.9	51.001	0.03351	0.001	4.0	ug/L
	Sb	123	265.367	3.4	45.100	0.03132	0.002	6.2	ug/L
	Ba	135	7149.804	0.3	65.001	2.90592	0.038	1.3	ug/L
	Ba	137	12347.264	0.4	74.668	3.00425	0.053	1.8	ug/L
>	Tb	159	433837.456	1.5	439210.410				ug/L
>	Ho	165	412871.702	2.4	425708.154				ug/L
	Tl	203	200.671	8.7	51.001	0.01986	0.002	8.3	ug/L
	Tl	205	427.015	6.3	72.668	0.02061	0.001	6.1	ug/L
	Pb	208	7575.428	3.3	767.689	0.28387	0.007	2.4	ug/L

Pb	206	1909.571	2.5	194.671	0.27170	0.007	2.5	ug/L
Pb	207	1645.512	4.6	181.671	0.27876	0.012	4.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.967			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.489			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.583			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.777			
>	Ho	165		96.985			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950032 D.5

Sample Date/Time: Tuesday, November 21, 2006 13:36:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950032 D.5.041

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	280.341	5.5	54.001	0.20555	0.019	9.0	ug/L
	Al	27	5745599.490	2.1	9687.584	669.00012	9.990	1.5	ug/L
>	Sc	45	390890.483	3.5	378480.621				ug/L
	V	51	13791.260	6.2	4514.855	0.61801	0.061	9.8	ug/L
	Cr	52	131192.345	2.5	14908.140	8.95993	0.443	4.9	ug/L
	Cr	53	14978.600	1.1	661.366	9.07646	0.233	2.6	ug/L
	Mn	55	1813046.684	1.7	587.693	108.28219	2.627	2.4	ug/L
	Co	59	54860.569	1.7	242.339	3.77400	0.040	1.1	ug/L
	Ni	60	48997.851	2.7	623.696	15.07261	0.487	3.2	ug/L
	Ni	62	7432.721	1.4	504.354	14.08146	0.240	1.7	ug/L
	Cu	63	8631.225	4.0	1290.783	0.97991	0.038	3.8	ug/L
	Cu	65	3618.155	0.6	588.027	0.83025	0.011	1.3	ug/L
	Zn	66	34456.768	0.6	2796.188	15.22730	0.189	1.2	ug/L
	Zn	67	5720.354	2.2	500.354	14.77507	0.417	2.8	ug/L
	Zn	68	26424.453	3.1	2052.621	16.16911	0.677	4.2	ug/L
>	Ge	72	196105.973	0.7	193550.369				ug/L
	As	75	1005.404	4.8	97.335	0.38315	0.018	4.6	ug/L
	Se	77	310.806	2.8	187.669	0.69966	0.054	7.7	ug/L
	Se	78	14372.575	2.4	13588.495	1.08582	0.745	68.6	mg/L
	Se	82	1433.257	0.8	1139.011	1.16084	0.032	2.7	ug/L
	Kr	83	1467.477	1.0	1141.423				mg/L
	Y	89	422407.033	2.8	354910.360				ug/L
	Mo	95	976.400	2.3	114.335	0.17304	0.006	3.5	ug/L
	Mo	97	574.692	2.0	49.001	0.16210	0.006	3.7	ug/L
	Mo	98	1375.477	4.4	58.127	0.15820	0.010	6.0	ug/L
	Rh	103	326838.821	1.1	323620.727				ug/L
	Ag	107	115.669	8.9	57.001	0.00465	0.001	19.4	ug/L
	Ag	109	85.335	2.7	41.334	0.00359	0.000	1.8	ug/L
	Cd	111	872.959	8.4	233.296	0.21641	0.024	11.2	ug/L
	Cd	114	1777.711	2.3	64.652	0.25245	0.002	0.9	ug/L
>	In	115	359700.565	2.0	364581.825				ug/L
	Sb	121	280.674	6.7	51.001	0.02449	0.002	10.2	ug/L
	Sb	123	226.117	0.9	45.100	0.02572	0.001	3.1	ug/L
	Ba	135	27673.818	0.6	65.001	11.36706	0.202	1.8	ug/L
	Ba	137	48263.565	2.5	74.668	11.83897	0.251	2.1	ug/L
>	Tb	159	432171.665	1.2	439210.410				ug/L
>	Ho	165	410072.164	1.2	425708.154				ug/L
	Tl	203	903.059	16.4	51.001	0.11296	0.018	16.4	ug/L
	Tl	205	2033.941	18.9	72.668	0.11420	0.021	18.6	ug/L
	Pb	208	13506.744	1.2	767.689	0.53423	0.007	1.3	ug/L

Pb	206	3535.786	2.5	194.671	0.53222	0.014	2.7	ug/L
Pb	207	2856.518	2.0	181.671	0.51221	0.005	1.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		103.279			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.320			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.661			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.397			
>	Ho	165		96.327			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950034 D.100

Sample Date/Time: Tuesday, November 21, 2006 13:42:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950034 D.100.042

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54.001	6.4	54.001	0.00195	0.003	165.5	ug/L
	Al	27	78706.595	2.9	9687.584	8.67446	0.284	3.3	ug/L
>	Sc	45	364521.576	0.4	378480.621				ug/L
	V	51	4281.229	4.5	4514.855	-0.00484	0.015	305.4	ug/L
	Cr	52	20354.032	1.1	14908.140	0.49708	0.024	4.8	ug/L
	Cr	53	1620.174	5.3	661.366	0.66909	0.060	8.9	ug/L
	Mn	55	630491.805	1.7	587.693	38.42308	0.785	2.0	ug/L
	Co	59	1593.502	4.8	242.339	0.09547	0.005	5.6	ug/L
	Ni	60	1381.128	1.9	623.696	0.24251	0.008	3.2	ug/L
	Ni	62	382.679	3.1	504.354	-0.24470	0.023	9.3	ug/L
	Cu	63	1214.767	2.7	1290.783	-0.00904	0.004	39.2	ug/L
	Cu	65	592.027	5.2	588.027	0.00244	0.010	403.4	ug/L
	Zn	66	1165.093	2.2	2796.188	-0.79137	0.008	1.0	ug/L
	Zn	67	270.674	6.5	500.354	-0.65302	0.060	9.1	ug/L
	Zn	68	905.725	3.1	2052.621	-0.76702	0.012	1.6	ug/L
>	Ge	72	192067.944	1.2	193550.369				ug/L
	As	75	232.006	4.4	97.335	0.05842	0.004	6.1	ug/L
	Se	77	215.603	3.7	187.669	0.17434	0.062	35.3	ug/L
	Se	78	13592.815	1.1	13588.495	0.19935	0.275	138.0	mg/L
	Se	82	1359.044	1.0	1139.011	0.97142	0.068	7.0	ug/L
	Kr	83	1405.133	2.7	1141.423				mg/L
	Y	89	351643.310	1.9	354910.360				ug/L
	Mo	95	217.338	10.1	114.335	0.02127	0.005	21.8	ug/L
	Mo	97	100.335	14.1	49.001	0.01622	0.004	26.6	ug/L
	Mo	98	188.134	4.1	58.127	0.01585	0.001	5.3	ug/L
	Rh	103	309973.389	1.3	323620.727				ug/L
	Ag	107	54.334	25.8	57.001	-0.00012	0.001	876.2	ug/L
	Ag	109	47.667	13.5	41.334	0.00058	0.001	89.4	ug/L
	Cd	111	214.387	8.6	233.296	-0.00482	0.006	119.5	ug/L
	Cd	114	82.864	15.6	64.652	0.00289	0.002	63.8	ug/L
>	In	115	357138.230	0.6	364581.825				ug/L
	Sb	121	141.003	10.5	51.001	0.00974	0.002	17.2	ug/L
	Sb	123	126.429	16.2	45.100	0.01172	0.003	24.7	ug/L
	Ba	135	1098.083	3.2	65.001	0.44362	0.017	3.7	ug/L
	Ba	137	1862.227	2.3	74.668	0.45756	0.010	2.2	ug/L
>	Tb	159	415791.053	2.3	439210.410				ug/L
>	Ho	165	413577.025	0.8	425708.154				ug/L
	Tl	203	180.004	4.5	51.001	0.01713	0.001	7.0	ug/L
	Tl	205	381.013	6.4	72.668	0.01792	0.002	8.7	ug/L
	Pb	208	1274.716	1.6	767.689	0.02194	0.000	2.1	ug/L

Pb	206	360.011	4.4	194.671	0.02693	0.002	8.6	ug/L
Pb	207	279.674	2.9	181.671	0.01955	0.002	8.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		96.312			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.234			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.958			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.668			
>	Ho	165		97.150			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950034 D.5

Sample Date/Time: Tuesday, November 21, 2006 13:48:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950034 D.5.043

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	72.668	3.2	54.001	0.01693	0.001	5.7	ug/L
	Al	27	1624012.055	10.0	9687.584	192.81067	23.911	12.4	ug/L
>	Sc	45	382289.000	2.4	378480.621				ug/L
	V	51	10883.572	28.9	4514.855	0.43786	0.218	49.7	ug/L
	Cr	52	148383.947	2.2	14908.140	10.54202	0.316	3.0	ug/L
	Cr	53	16792.740	1.6	661.366	10.46336	0.088	0.8	ug/L
	Mn	55	14436742.420	0.0	587.693	840.75894	10.049	1.2	ug/L
	Co	59	29238.848	2.3	242.339	1.95330	0.068	3.5	ug/L
	Ni	60	26733.087	1.8	623.696	7.92457	0.179	2.3	ug/L
	Ni	62	3830.252	2.3	504.354	6.55690	0.181	2.8	ug/L
	Cu	63	6837.873	0.9	1290.783	0.71717	0.014	1.9	ug/L
	Cu	65	3535.119	1.9	588.027	0.78320	0.029	3.7	ug/L
	Zn	66	5853.781	2.3	2796.188	1.38428	0.094	6.8	ug/L
	Zn	67	1149.091	3.0	500.354	1.73797	0.096	5.5	ug/L
	Zn	68	4751.402	1.5	2052.621	1.69524	0.073	4.3	ug/L
>	Ge	72	201163.588	1.2	193550.369				ug/L
	As	75	2330.016	5.1	97.335	0.91824	0.047	5.1	ug/L
	Se	77	265.271	7.8	187.669	0.39618	0.100	25.2	ug/L
	Se	78	14481.789	1.0	13588.495	0.62893	0.403	64.0	mg/L
	Se	82	1502.335	0.5	1139.011	1.29175	0.100	7.7	ug/L
	Kr	83	1499.483	0.9	1141.423				mg/L
	Y	89	403255.822	1.1	354910.360				ug/L
	Mo	95	1315.117	1.9	114.335	0.24110	0.008	3.2	ug/L
	Mo	97	730.706	4.9	49.001	0.21019	0.009	4.2	ug/L
	Mo	98	1767.485	4.4	58.127	0.20531	0.009	4.6	ug/L
	Rh	103	331244.603	2.0	323620.727				ug/L
	Ag	107	90.001	7.7	57.001	0.00264	0.000	17.9	ug/L
	Ag	109	75.001	16.2	41.334	0.00276	0.001	35.3	ug/L
	Cd	111	415.194	3.7	233.296	0.06245	0.007	10.5	ug/L
	Cd	114	454.641	1.5	64.652	0.05762	0.000	0.6	ug/L
>	In	115	359404.199	1.0	364581.825				ug/L
	Sb	121	314.676	3.0	51.001	0.02810	0.001	4.5	ug/L
	Sb	123	219.486	9.8	45.100	0.02478	0.003	11.5	ug/L
	Ba	135	21988.206	2.8	65.001	8.80582	0.284	3.2	ug/L
	Ba	137	38077.509	0.3	74.668	9.11002	0.131	1.4	ug/L
>	Tb	159	442956.324	1.3	439210.410				ug/L
>	Ho	165	416433.546	1.1	425708.154				ug/L
	Tl	203	1306.782	5.1	51.001	0.16392	0.009	5.4	ug/L
	Tl	205	3225.996	12.1	72.668	0.18091	0.023	12.7	ug/L
	Pb	208	13843.307	2.0	767.689	0.53943	0.008	1.5	ug/L

Pb	206	3590.809	0.9	194.671	0.53223	0.004	0.7	ug/L
Pb	207	2938.214	2.9	181.671	0.51932	0.017	3.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.006			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.933			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.580			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.853			
>	Ho	165		97.821			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950035 D.20

Sample Date/Time: Tuesday, November 21, 2006 13:54:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950035 D.20.044

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	47.667	10.6	54.001	-0.00606	0.004	64.6	ug/L
	Al	27	15201.673	1.5	9687.584	0.66279	0.024	3.6	ug/L
>	Sc	45	378782.232	2.1	378480.621				ug/L
	V	51	4708.618	3.0	4514.855	0.01326	0.006	46.4	ug/L
	Cr	52	17945.491	2.9	14908.140	0.24123	0.016	6.5	ug/L
	Cr	53	1159.759	1.5	661.366	0.32638	0.027	8.2	ug/L
	Mn	55	1109624.477	0.4	587.693	67.61997	0.359	0.5	ug/L
	Co	59	1153.091	3.7	242.339	0.06435	0.002	3.7	ug/L
	Ni	60	2236.990	5.1	623.696	0.51450	0.035	6.8	ug/L
	Ni	62	462.684	3.2	504.354	-0.07893	0.028	35.1	ug/L
	Cu	63	915.393	4.9	1290.783	-0.04996	0.007	14.0	ug/L
	Cu	65	514.688	3.2	588.027	-0.01935	0.005	24.3	ug/L
	Zn	66	1228.436	1.1	2796.188	-0.76036	0.011	1.5	ug/L
	Zn	67	351.678	7.5	500.354	-0.41987	0.067	15.9	ug/L
	Zn	68	1140.423	2.6	2052.621	-0.60801	0.024	3.9	ug/L
>	Ge	72	192139.150	0.9	193550.369				ug/L
	As	75	153.670	5.8	97.335	0.02459	0.003	13.4	ug/L
	Se	77	223.070	2.1	187.669	0.21763	0.029	13.4	ug/L
	Se	78	14231.214	0.5	13588.495	1.35808	0.358	26.4	mg/L
	Se	82	1440.324	1.8	1139.011	1.31460	0.153	11.7	ug/L
	Kr	83	1383.462	5.0	1141.423				mg/L
	Y	89	367224.126	5.2	354910.360				ug/L
	Mo	95	5894.144	3.0	114.335	1.17654	0.032	2.7	ug/L
	Mo	97	3638.497	1.6	49.001	1.12281	0.017	1.5	ug/L
	Mo	98	9083.282	1.7	58.127	1.09967	0.005	0.4	ug/L
	Rh	103	333992.726	1.1	323620.727				ug/L
	Ag	107	62.668	12.2	57.001	0.00058	0.001	104.6	ug/L
	Ag	109	40.334	10.0	41.334	0.00001	0.000	2259.8	ug/L
	Cd	111	248.296	5.4	233.296	0.00738	0.003	46.3	ug/L
	Cd	114	145.211	14.0	64.652	0.01231	0.003	22.2	ug/L
>	In	115	354155.578	1.4	364581.825				ug/L
	Sb	121	167.670	15.6	51.001	0.01274	0.003	22.5	ug/L
	Sb	123	145.199	6.8	45.100	0.01457	0.001	8.9	ug/L
	Ba	135	5954.520	0.9	65.001	2.42546	0.030	1.2	ug/L
	Ba	137	10307.474	1.3	74.668	2.51490	0.037	1.5	ug/L
>	Tb	159	432102.460	1.5	439210.410				ug/L
>	Ho	165	411191.961	0.9	425708.154				ug/L
	Tl	203	51.667	26.8	51.001	0.00033	0.002	578.0	ug/L
	Tl	205	94.001	7.4	72.668	0.00138	0.000	26.3	ug/L
	Pb	208	865.359	1.8	767.689	0.00517	0.001	15.0	ug/L

Pb	206	233.006	5.7	194.671	0.00712	0.002	26.2	ug/L
Pb	207	191.337	3.2	181.671	0.00302	0.001	36.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		100.080			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.271			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.140			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.382			
>	Ho	165		96.590			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950036 D.500

Sample Date/Time: Tuesday, November 21, 2006 14:00:49
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950036 D.500.045

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	64.668	8.5	54.001	0.01173	0.006	50.1	ug/L
	Al	27	181125.689	0.1	9687.584	21.23301	0.558	2.6	ug/L
>	Sc	45	368706.503	2.6	378480.621				ug/L
	V	51	4429.278	0.5	4514.855	0.00235	0.007	308.3	ug/L
	Cr	52	14854.378	1.6	14908.140	0.02801	0.050	178.3	ug/L
	Cr	53	772.044	3.4	661.366	0.08587	0.004	5.0	ug/L
	Mn	55	504234.364	1.0	587.693	30.46008	0.727	2.4	ug/L
	Co	59	7753.685	2.7	242.339	0.52557	0.021	4.0	ug/L
	Ni	60	4390.200	1.5	623.696	1.18816	0.040	3.4	ug/L
	Ni	62	910.726	3.9	504.354	0.83676	0.101	12.1	ug/L
	Cu	63	40955.206	3.3	1290.783	5.37560	0.265	4.9	ug/L
	Cu	65	19288.157	1.1	588.027	5.19945	0.030	0.6	ug/L
	Zn	66	7699.299	1.2	2796.188	2.38928	0.103	4.3	ug/L
	Zn	67	1232.770	4.4	500.354	2.09845	0.107	5.1	ug/L
	Zn	68	5378.789	1.3	2052.621	2.23455	0.048	2.2	ug/L
>	Ge	72	193742.889	1.5	193550.369				ug/L
	As	75	111.335	6.7	97.335	0.00599	0.004	65.5	ug/L
	Se	77	196.269	1.9	187.669	0.04941	0.016	33.2	ug/L
	Se	78	13646.154	0.8	13588.495	0.08601	0.586	681.1	mg/L
	Se	82	1401.785	0.6	1139.011	1.10233	0.124	11.3	ug/L
	Kr	83	1418.802	4.3	1141.423				mg/L
	Y	89	359752.254	1.0	354910.360				ug/L
	Mo	95	146.003	3.8	114.335	0.00730	0.002	25.0	ug/L
	Mo	97	56.334	8.4	49.001	0.00285	0.002	64.6	ug/L
	Mo	98	92.940	9.7	58.127	0.00449	0.001	17.2	ug/L
	Rh	103	324258.914	2.3	323620.727				ug/L
	Ag	107	53.667	2.8	57.001	-0.00011	0.000	151.5	ug/L
	Ag	109	46.001	7.8	41.334	0.00050	0.000	43.6	ug/L
	Cd	111	277.322	4.5	233.296	0.01781	0.002	9.3	ug/L
	Cd	114	203.162	7.4	64.652	0.02117	0.002	10.8	ug/L
>	In	115	352305.178	3.1	364581.825				ug/L
	Sb	121	97.002	11.6	51.001	0.00518	0.001	25.3	ug/L
	Sb	123	89.822	12.1	45.100	0.00666	0.001	17.9	ug/L
	Ba	135	123.002	6.3	65.001	0.02598	0.005	17.5	ug/L
	Ba	137	192.337	4.9	74.668	0.03072	0.003	8.3	ug/L
>	Tb	159	418850.638	2.3	439210.410				ug/L
>	Ho	165	412001.737	1.8	425708.154				ug/L
	Tl	203	66.668	15.4	51.001	0.00230	0.001	64.7	ug/L
	Tl	205	128.002	7.5	72.668	0.00334	0.000	14.5	ug/L
	Pb	208	862.359	1.5	767.689	0.00498	0.001	21.8	ug/L

Pb	206	222.005	4.8	194.671	0.00532	0.002	32.2	ug/L
Pb	207	191.004	6.9	181.671	0.00288	0.002	79.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.418			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		100.099			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.633			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.364			
>	Ho	165		96.780			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950036 D.100

Sample Date/Time: Tuesday, November 21, 2006 14:06:47
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950036 D.100.046

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity		Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	122.669	0.9	54.001		0.06764	0.004	5.4	ug/L
	Al	27	921752.940	0.7	9687.584		112.52827	3.029	2.7	ug/L
>	Sc	45	369653.563	2.2	378480.621					ug/L
	V	51	4393.676	2.4	4514.855		-0.00104	0.010	981.8	ug/L
	Cr	52	15125.866	0.5	14908.140		0.04672	0.033	71.5	ug/L
	Cr	53	803.713	0.2	661.366		0.10603	0.011	10.7	ug/L
	Mn	55	2820622.681	1.4	587.693		175.05487	1.027	0.6	ug/L
	Co	59	37625.171	2.9	242.339		2.68561	0.104	3.9	ug/L
	~~Ni~~	60	22379.243	2.3	623.696	use 1/5	7.05039	0.191	2.7	ug/L
	Ni	62	3511.109	3.8	504.354		6.38045	0.133	2.1	ug/L
	~~Cu~~	63	197898.712	1.0	1290.783		27.34824	0.267	1.0	ug/L
	Cu	65	99305.884	1.0	588.027		28.18420	0.299	1.1	ug/L
	Zn	66	35219.624	0.9	2796.188		16.26138	0.408	2.5	ug/L
	Zn	67	5294.735	1.2	500.354		14.16024	0.482	3.4	ug/L
	Zn	68	24915.440	0.4	2052.621		15.81538	0.397	2.5	ug/L
>	Ge	72	188732.008	2.0	193550.369					ug/L
	As	75	125.002	11.5	97.335		0.01315	0.005	39.7	ug/L
	Se	77	198.536	3.4	187.669		0.09361	0.032	34.2	ug/L
	Se	78	13852.645	0.4	13588.495		1.12928	0.616	54.6	mg/L
	Se	82	1408.052	1.0	1139.011		1.28701	0.173	13.4	ug/L
	Kr	83	1446.807	1.3	1141.423					mg/L
	Y	89	378055.973	4.0	354910.360					ug/L
	Mo	95	167.003	9.4	114.335		0.01273	0.003	27.0	ug/L
	Mo	97	59.334	25.7	49.001		0.00436	0.005	108.0	ug/L
	Mo	98	97.753	8.2	58.127		0.00549	0.001	16.7	ug/L
	Rh	103	326519.872	1.3	323620.727					ug/L
	Ag	107	55.334	18.1	57.001		0.00016	0.001	470.7	ug/L
	Ag	109	41.334	7.8	41.334		0.00023	0.000	134.2	ug/L
	Cd	111	528.412	8.3	233.296		0.11034	0.016	14.6	ug/L
	Cd	114	781.969	1.8	64.652		0.11220	0.002	1.5	ug/L
>	In	115	340732.929	1.2	364581.825					ug/L
	Sb	121	94.335	4.8	51.001		0.00523	0.001	11.3	ug/L
	Sb	123	80.974	4.0	45.100		0.00581	0.001	10.7	ug/L
	Ba	135	454.017	2.5	65.001		0.16362	0.005	3.2	ug/L
	Ba	137	724.372	2.2	74.668		0.16282	0.005	2.9	ug/L
>	Tb	159	425284.309	1.7	439210.410					ug/L
>	Ho	165	401866.010	1.6	425708.154					ug/L
	Tl	203	136.002	1.3	51.001		0.01188	0.001	4.3	ug/L
	Tl	205	278.341	0.7	72.668		0.01246	0.000	3.0	ug/L
	Pb	208	1907.770	4.6	767.689		0.05054	0.004	8.5	ug/L

Pb	206	476.352	2.2	194.671	0.04746	0.001	3.0	ug/L
Pb	207	444.350	7.9	181.671	0.05317	0.006	12.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.668			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.511			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		93.459			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.829			
>	Ho	165		94.399			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 21, 2006 14:12:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 6.047

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54029.187	2.4	54.001	52.82699	2.231	4.2	ug/L
	Al	27	441972.780	1.9	9687.584	53.98295	0.273	0.5	ug/L
>	Sc	45	365292.975	2.4	378480.621				ug/L
	V	51	764590.713	1.0	4514.855	55.06362	1.856	3.4	ug/L
	Cr	52	648637.496	0.2	14908.140	52.48602	1.249	2.4	ug/L
	Cr	53	74955.744	1.8	661.366	50.46679	0.411	0.8	ug/L
	Mn	55	880477.629	2.3	587.693	54.34933	1.767	3.3	ug/L
	Co	59	729356.686	2.0	242.339	52.09416	1.342	2.6	ug/L
	Ni	60	168890.756	1.1	623.696	54.21142	0.824	1.5	ug/L
	Ni	62	24681.422	2.2	504.354	50.87728	1.660	3.3	ug/L
	Cu	63	387945.361	1.5	1290.783	53.49892	0.690	1.3	ug/L
	Cu	65	193189.000	2.3	588.027	54.70747	1.795	3.3	ug/L
	Zn	66	104375.312	2.9	2796.188	50.60217	1.999	3.9	ug/L
	Zn	67	18288.901	1.8	500.354	52.13946	0.552	1.1	ug/L
	Zn	68	77834.072	2.6	2052.621	52.06128	1.895	3.6	ug/L
>	Ge	72	189696.801	1.0	193550.369				ug/L
	As	75	121245.609	1.2	97.335	52.93016	0.159	0.3	ug/L
	Se	77	9029.156	1.0	187.669	53.02276	1.000	1.9	ug/L
	Se	78	42789.380	1.7	13588.495	54.57624	1.953	3.6	mg/L
	Se	82	13663.459	0.6	1139.011	53.93273	0.783	1.5	ug/L
	Kr	83	1330.119	0.7	1141.423				mg/L
	Y	89	361422.432	3.2	354910.360				ug/L
	Mo	95	264254.322	2.2	114.335	54.71140	1.142	2.1	ug/L
	Mo	97	165524.726	2.5	49.001	52.69039	1.992	3.8	ug/L
	Mo	98	411452.443	1.1	58.127	51.03339	1.192	2.3	ug/L
	Rh	103	325342.096	3.0	323620.727				ug/L
	Ag	107	654265.720	1.4	57.001	52.83591	1.494	2.8	ug/L
	Ag	109	601035.096	1.6	41.334	50.03241	0.872	1.7	ug/L
	Cd	111	149797.588	1.9	233.296	52.07081	0.982	1.9	ug/L
	Cd	114	332323.881	1.4	64.652	50.60446	0.339	0.7	ug/L
>	In	115	347882.471	1.4	364581.825				ug/L
	Sb	121	453463.779	3.1	51.001	49.79274	2.034	4.1	ug/L
	Sb	123	349072.010	0.5	45.100	51.08855	0.789	1.5	ug/L
	Ba	135	124523.112	2.6	65.001	52.95465	0.360	0.7	ug/L
	Ba	137	216237.425	0.5	74.668	54.90755	0.942	1.7	ug/L
>	Tb	159	418099.003	2.1	439210.410				ug/L
>	Ho	165	405251.271	1.7	425708.154				ug/L
	Tl	203	394511.742	1.4	51.001	52.87668	1.613	3.1	ug/L
	Tl	205	894543.186	1.8	72.668	52.69796	0.845	1.6	ug/L
	Pb	208	1229323.565	2.5	767.689	52.02491	1.356	2.6	ug/L

Pb	206	317414.440	0.7	194.671	51.03443	1.149	2.3	ug/L
Pb	207	271684.234	0.8	181.671	52.49323	0.990	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	105.654				
	Al	27	107.966				
>	Sc	45		96.516			
	V	51	110.127				
	Cr	52	104.972				
	Cr	53	100.934				
	Mn	55	108.699				
	Co	59	104.188				
	Ni	60	108.423				
	Ni	62	101.755				
	Cu	63	106.998				
	Cu	65	109.415				
	Zn	66	101.204				
	Zn	67	104.279				
	Zn	68	104.123				
>	Ge	72		98.009			
	As	75	105.860				
	Se	77	106.046				
	Se	78	109.152				
	Se	82	107.865				
	Kr	83					
	Y	89					
	Mo	95	109.423				
	Mo	97	105.381				
	Mo	98	102.067				
	Rh	103					
	Ag	107	105.672				
	Ag	109	100.065				
	Cd	111	104.142				
	Cd	114	101.209				
>	In	115		95.420			
	Sb	121	99.585				
	Sb	123	102.177				
	Ba	135	105.909				
	Ba	137	109.815				
>	Tb	159		95.193			
>	Ho	165		95.195			
	Tl	203	105.753				
	Tl	205	105.396				
	Pb	208	104.050				
	Pb	206	102.069				
	Pb	207	104.986				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 21, 2006 14:18:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 7.048

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51.667	4.0	54.001	-0.00137	0.003	203.1	ug/L
	Al	27	3181.973	1.3	9687.584	-0.77697	0.011	1.5	ug/L
>	Sc	45	372315.969	1.5	378480.621				ug/L
	V	51	4270.306	5.3	4514.855	-0.01194	0.021	173.2	ug/L
	Cr	52	14560.858	1.8	14908.140	-0.00810	0.038	471.8	ug/L
	Cr	53	728.039	1.3	661.366	0.05161	0.001	2.4	ug/L
	Mn	55	500.353	5.1	587.693	-0.00462	0.002	40.5	ug/L
	Co	59	179.004	5.0	242.339	-0.00415	0.001	20.6	ug/L
	Ni	60	535.689	2.8	623.696	-0.02411	0.004	17.3	ug/L
	Ni	62	289.008	3.9	504.354	-0.43056	0.034	8.0	ug/L
	Cu	63	799.380	4.5	1290.783	-0.06421	0.007	10.5	ug/L
	Cu	65	419.348	3.3	588.027	-0.04440	0.004	8.5	ug/L
	Zn	66	1547.493	4.8	2796.188	-0.59242	0.046	7.8	ug/L
	Zn	67	337.677	2.7	500.354	-0.44609	0.018	4.1	ug/L
	Zn	68	1203.432	3.0	2052.621	-0.55334	0.039	7.0	ug/L
>	Ge	72	189443.072	1.7	193550.369				ug/L
	As	75	129.669	15.2	97.335	0.01513	0.009	61.5	ug/L
	Se	77	196.336	3.0	187.669	0.07588	0.026	33.7	ug/L
	Se	78	13517.683	1.0	13588.495	0.40931	0.575	140.4	mg/L
	Se	82	1356.577	1.0	1139.011	1.04093	0.054	5.2	ug/L
	Kr	83	1394.464	3.1	1141.423				mg/L
	Y	89	357385.275	1.1	354910.360				ug/L
	Mo	95	512.688	12.8	114.335	0.07976	0.013	16.3	ug/L
	Mo	97	294.008	16.0	49.001	0.07532	0.014	19.0	ug/L
	Mo	98	684.752	22.3	58.127	0.07497	0.018	24.2	ug/L
	Rh	103	321088.999	1.2	323620.727				ug/L
	Ag	107	133.669	13.1	57.001	0.00601	0.001	22.2	ug/L
	Ag	109	111.002	16.9	41.334	0.00562	0.002	26.8	ug/L
	Cd	111	211.986	3.6	233.296	-0.00636	0.003	40.3	ug/L
	Cd	114	54.765	6.4	64.652	-0.00135	0.001	39.5	ug/L
>	In	115	360905.439	0.6	364581.825				ug/L
	Sb	121	972.067	16.5	51.001	0.09751	0.017	17.2	ug/L
	Sb	123	761.361	22.6	45.100	0.10110	0.024	23.9	ug/L
	Ba	135	45.667	20.3	65.001	-0.00704	0.004	57.9	ug/L
	Ba	137	52.001	10.7	74.668	-0.00494	0.002	30.6	ug/L
>	Tb	159	421577.587	1.2	439210.410				ug/L
>	Ho	165	417899.123	1.0	425708.154				ug/L
	Tl	203	55.334	19.9	51.001	0.00068	0.001	205.3	ug/L
	Tl	205	117.669	6.0	72.668	0.00265	0.000	14.0	ug/L
	Pb	208	380.007	10.7	767.689	-0.01534	0.002	10.7	ug/L

Pb	206	106.002	9.8	194.671	-0.01327	0.002	12.6	ug/L
Pb	207	91.001	16.6	181.671	-0.01639	0.003	16.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.371			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.878			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.992			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.985			
>	Ho	165		98.166			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950036 D.5

Sample Date/Time: Tuesday, November 21, 2006 14:24:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950036 D.5.049

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1347.122	2.1	54.001	1.09978	0.013	1.2	ug/L
	Al	27	20593955.903	1.7	9687.584	2244.38160	99.170	4.4	ug/L
>	Sc	45	418333.399	2.8	378480.621				ug/L
	V	51	4562.545	3.0	4514.855	-0.02702	0.005	18.2	ug/L
	Cr	52	21035.397	1.5	14908.140	0.32954	0.018	5.6	ug/L
	Cr	53	1522.821	4.0	661.366	0.47023	0.052	11.2	ug/L
	Mn	55	58162560.156	2.0	587.693	3444.34556	39.638	1.2	ug/L
	Co	59	805182.865	0.7	242.339	55.15728	1.265	2.3	ug/L
	Ni	60	441947.777	1.7	623.696	136.37413	4.617	3.4	ug/L
	Ni	62	68054.261	3.0	504.354	136.20365	3.258	2.4	ug/L
	Cu	63	4796168.055	2.3	1290.783	636.10357	4.954	0.8	ug/L
	Cu	65	1798610.703	1.6	588.027	489.65718	7.474	1.5	ug/L
	Zn	66	669727.077	2.0	2796.188	318.34287	6.368	2.0	ug/L
	Zn	67	103361.853	1.5	500.354	288.94453	0.578	0.2	ug/L
	Zn	68	462713.373	1.7	2052.621	303.27974	7.606	2.5	ug/L
>	Ge	72	197817.394	1.6	193550.369				ug/L
	As	75	508.687	8.5	97.335	0.17129	0.015	8.6	ug/L
	Se	77	309.739	3.8	187.669	0.67865	0.091	13.3	ug/L
	Se	78	14508.321	1.1	13588.495	1.10597	0.519	46.9	mg/L
	Se	82	1543.143	0.4	1139.011	1.56328	0.103	6.6	ug/L
	Kr	83	1494.482	1.8	1141.423				mg/L
	Y	89	774132.853	3.6	354910.360				ug/L
	Mo	95	723.039	2.2	114.335	0.11912	0.003	2.1	ug/L
	Mo	97	164.670	5.2	49.001	0.03475	0.003	9.3	ug/L
	Mo	98	481.071	4.9	58.127	0.04962	0.004	7.3	ug/L
	Rh	103	325888.272	1.4	323620.727				ug/L
	Ag	107	95.335	18.5	57.001	0.00289	0.001	46.4	ug/L
	Ag	109	63.001	18.0	41.334	0.00167	0.001	48.9	ug/L
	Cd	111	7075.277	0.7	233.296	2.25360	0.036	1.6	ug/L
	Cd	114	15180.892	3.2	64.652	2.17921	0.088	4.0	ug/L
>	In	115	367609.445	1.6	364581.825				ug/L
	Sb	121	447.016	6.9	51.001	0.04108	0.003	6.3	ug/L
	Sb	123	349.916	6.3	45.100	0.04216	0.003	6.6	ug/L
	Ba	135	8281.865	3.0	65.001	3.37950	0.106	3.1	ug/L
	Ba	137	14027.273	2.1	74.668	3.42486	0.087	2.6	ug/L
>	Tb	159	432633.090	1.2	439210.410				ug/L
>	Ho	165	419586.931	1.0	425708.154				ug/L
	Tl	203	1839.221	1.4	51.001	0.23155	0.004	1.8	ug/L
	Tl	205	4269.470	1.3	72.668	0.23885	0.002	1.0	ug/L
	Pb	208	16326.051	0.7	767.689	0.63673	0.008	1.2	ug/L

Pb	206	4299.819	1.5	194.671	0.63814	0.009	1.4	ug/L
Pb	207	3471.091	2.8	181.671	0.61468	0.021	3.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		110.530			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		102.205			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.830			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.502			
>	Ho	165		98.562			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, November 21, 2006 14:30:38
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 3.050

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1201.099	5.5	54.001	1.05140	0.079	7.5	ug/L
	Al	27	89995.975	1.4	9687.584	9.36194	0.029	0.3	ug/L
>	Sc	45	389602.867	1.7	378480.621				ug/L
	V	51	20183.134	2.3	4514.855	1.05449	0.022	2.1	ug/L
	Cr	52	28973.926	2.5	14908.140	1.05676	0.019	1.8	ug/L
	Cr	53	2369.694	0.1	661.366	1.07549	0.024	2.3	ug/L
	Mn	55	19724.193	3.1	587.693	1.10306	0.018	1.6	ug/L
	Co	59	16182.533	2.6	242.339	1.06376	0.010	0.9	ug/L
	Ni	60	3742.544	0.7	623.696	0.93075	0.039	4.2	ug/L
	Ni	62	789.712	3.9	504.354	0.51321	0.057	11.0	ug/L
	Cu	63	8395.978	0.3	1290.783	0.91137	0.031	3.4	ug/L
	Cu	65	4109.054	1.1	588.027	0.92783	0.041	4.4	ug/L
	Zn	66	14139.460	0.7	2796.188	5.21744	0.141	2.7	ug/L
	Zn	67	2187.309	0.7	500.354	4.55696	0.200	4.4	ug/L
	Zn	68	9680.385	2.7	2052.621	4.83682	0.330	6.8	ug/L
>	Ge	72	202932.017	2.7	193550.369				ug/L
	As	75	2689.462	5.1	97.335	1.05639	0.033	3.1	ug/L
	Se	77	394.276	1.1	187.669	1.10734	0.041	3.7	ug/L
	Se	78	14573.563	1.2	13588.495	0.57865	0.818	141.4	mg/L
	Se	82	1656.431	2.6	1139.011	1.85740	0.061	3.3	ug/L
	Kr	83	1435.471	1.3	1141.423				mg/L
	Y	89	379349.203	1.7	354910.360				ug/L
	Mo	95	5487.531	5.0	114.335	1.03966	0.020	1.9	ug/L
	Mo	97	3410.399	3.2	49.001	1.00094	0.051	5.1	ug/L
	Mo	98	9043.902	0.9	58.127	1.04234	0.024	2.3	ug/L
	Rh	103	344384.010	0.2	323620.727				ug/L
	Ag	107	13977.853	0.9	57.001	1.05132	0.024	2.3	ug/L
	Ag	109	13156.844	1.4	41.334	1.02110	0.019	1.9	ug/L
	Cd	111	3364.590	1.8	233.296	1.01789	0.015	1.5	ug/L
	Cd	114	7284.918	2.7	64.652	1.02805	0.004	0.4	ug/L
>	In	115	372071.216	3.1	364581.825				ug/L
	Sb	121	10169.971	1.1	51.001	1.03902	0.022	2.1	ug/L
	Sb	123	7541.427	2.8	45.100	1.02614	0.036	3.5	ug/L
	Ba	135	2608.434	2.8	65.001	1.03794	0.033	3.1	ug/L
	Ba	137	4647.676	1.7	74.668	1.11365	0.021	1.9	ug/L
>	Tb	159	436049.481	0.3	439210.410				ug/L
>	Ho	165	423455.577	3.3	425708.154				ug/L
	Tl	203	8181.096	1.6	51.001	1.04354	0.044	4.2	ug/L
	Tl	205	19770.290	1.1	72.668	1.11108	0.026	2.3	ug/L
	Pb	208	26340.842	0.4	767.689	1.03705	0.030	2.9	ug/L

Pb	206	6875.238	2.5	194.671	1.02889	0.031	3.0	ug/L
Pb	207	5598.604	2.9	181.671	1.00306	0.047	4.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	105.140				
	Al	27	93.619				
>	Sc	45		102.939			
	V	51	105.449				
	Cr	52	105.676				
	Cr	53	107.549				
	Mn	55	110.306				
	Co	59	106.376				
	Ni	60	93.075				
	Ni	62	51.321				
	Cu	63	91.137				
	Cu	65	92.783				
	Zn	66	104.349				
	Zn	67	91.139				
	Zn	68	96.736				
>	Ge	72		104.847			
	As	75	105.639				
	Se	77	110.734				
	Se	78	57.865				
	Se	82	185.740				
	Kr	83					
	Y	89					
	Mo	95	103.966				
	Mo	97	100.094				
	Mo	98	104.234				
	Rh	103					
	Ag	107	105.132				
	Ag	109	102.110				
	Cd	111	101.789				
	Cd	114	102.805				
>	In	115		102.054			
	Sb	121	103.902				
	Sb	123	102.614				
	Ba	135	103.794				
	Ba	137	111.365				
>	Tb	159		99.280			
>	Ho	165		99.471			
	Tl	203	104.354				
	Tl	205	111.108				
	Pb	208	103.705				
	Pb	206	102.889				
	Pb	207	100.306				

Elan 9000 Method 6020 - Summary Report

Sample ID: HLCCV2

Sample Date/Time: Tuesday, November 21, 2006 14:36:35
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\HLCCV2.051

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	216960.652	1.6	54.001	216.66622	5.063	2.3	ug/L
	Al	27	1589195.734	3.9	9687.584	201.28978	7.223	3.6	ug/L
>	Sc	45	357741.516	0.8	378480.621				ug/L
	V	51	3504968.836	1.0	4514.855	258.79258	4.316	1.7	ug/L
	Cr	52	2861500.965	1.5	14908.140	240.53137	4.565	1.9	ug/L
	Cr	53	298584.375	1.1	661.366	206.60012	3.406	1.6	ug/L
	Mn	55	3903610.465	0.5	587.693	245.59299	4.163	1.7	ug/L
	Co	59	3384432.172	1.4	242.339	246.35716	6.324	2.6	ug/L
	Ni	60	655097.564	1.8	623.696	214.78653	1.646	0.8	ug/L
	Ni	62	95155.221	1.6	504.354	202.83038	0.647	0.3	ug/L
	Cu	63	1419242.923	0.8	1290.783	199.90133	3.893	1.9	ug/L
	Cu	65	698872.756	3.0	588.027	201.99768	3.738	1.9	ug/L
	Zn	66	398621.258	1.6	2796.188	200.78780	2.896	1.4	ug/L
	Zn	67	71463.510	0.9	500.354	211.86804	2.477	1.2	ug/L
	Zn	68	299880.655	1.4	2052.621	208.35407	2.812	1.3	ug/L
>	Ge	72	186198.941	1.3	193550.369				ug/L
	As	75	480251.334	1.8	97.335	213.71970	2.389	1.1	ug/L
	Se	77	35112.153	0.9	187.669	213.31849	1.708	0.8	ug/L
	Se	78	128941.391	0.8	13588.495	218.56885	1.702	0.8	mg/L
	Se	82	49707.477	2.6	1139.011	212.83645	3.044	1.4	ug/L
	Kr	83	1227.771	13.9	1141.423				mg/L
	Y	89	344363.689	1.4	354910.360				ug/L
	Mo	95	1007030.610	0.7	114.335	211.54519	2.760	1.3	ug/L
	Mo	97	632075.478	2.1	49.001	204.07253	5.141	2.5	ug/L
	Mo	98	1542199.915	0.9	58.127	193.99515	0.416	0.2	ug/L
	Rh	103	319308.140	4.0	323620.727				ug/L
	Ag	107	3198922.837	1.3	57.001	261.98207	3.659	1.4	ug/L
	Ag	109	2936284.622	3.2	41.334	247.88355	5.883	2.4	ug/L
	Cd	111	584755.688	2.9	233.296	206.41040	6.905	3.3	ug/L
	Cd	114	1254581.733	1.8	64.652	193.81194	4.436	2.3	ug/L
>	In	115	342977.797	0.8	364581.825				ug/L
	Sb	121	1732671.411	1.7	51.001	192.95923	4.843	2.5	ug/L
	Sb	123	1358832.762	1.9	45.100	201.69941	2.661	1.3	ug/L
	Ba	135	468000.593	0.5	65.001	205.92088	6.100	3.0	ug/L
	Ba	137	804998.094	1.8	74.668	211.32702	2.369	1.1	ug/L
>	Tb	159	404487.726	2.8	439210.410				ug/L
>	Ho	165	389059.007	0.8	425708.154				ug/L
	Tl	203	1439143.584	1.8	51.001	200.85557	2.162	1.1	ug/L
	Tl	205	4294367.978	1.0	72.668	263.51126	2.549	1.0	ug/L
	Pb	208	5258738.142	0.6	767.689	231.89237	0.596	0.3	ug/L

Pb	206	1190780.335	1.6	194.671	199.45272	1.833	0.9	ug/L
Pb	207	1014216.452	2.5	181.671	204.15493	3.619	1.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		94.520			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		96.202			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		94.074			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.094			
>	Ho	165		91.391			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 21, 2006 14:42:33
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 6.052

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	53095.245	3.1	54.001	53.09245	1.112	2.1	ug/L
	Al	27	426745.075	1.0	9687.584	53.33934	1.450	2.7	ug/L
>	Sc	45	356958.020	1.9	378480.621				ug/L
	V	51	747604.586	1.2	4514.855	55.08208	1.242	2.3	ug/L
	Cr	52	640678.801	2.2	14908.140	53.07270	2.189	4.1	ug/L
	Cr	53	74907.589	0.8	661.366	51.62657	0.869	1.7	ug/L
	Mn	55	857641.848	1.9	587.693	54.18327	0.665	1.2	ug/L
	Co	59	723966.859	0.8	242.339	52.93619	0.875	1.7	ug/L
	Ni	60	165936.011	2.3	623.696	54.52171	0.870	1.6	ug/L
	Ni	62	24740.589	1.2	504.354	52.23400	1.164	2.2	ug/L
	Cu	63	386324.569	1.0	1290.783	54.54305	0.141	0.3	ug/L
	Cu	65	188482.555	2.2	588.027	54.62798	0.890	1.6	ug/L
	Zn	66	100381.342	1.1	2796.188	49.79352	0.963	1.9	ug/L
	Zn	67	18039.355	1.8	500.354	52.66224	0.403	0.8	ug/L
	Zn	68	77051.358	0.8	2052.621	52.77538	1.038	2.0	ug/L
>	Ge	72	185299.158	1.1	193550.369				ug/L
	As	75	119379.289	1.3	97.335	53.35254	0.227	0.4	ug/L
	Se	77	9100.233	0.5	187.669	54.74193	0.659	1.2	ug/L
	Se	78	42908.310	1.9	13588.495	56.67870	1.885	3.3	mg/L
	Se	82	13460.797	0.9	1139.011	54.43331	0.655	1.2	ug/L
	Kr	83	1374.795	10.6	1141.423				mg/L
	Y	89	348754.670	2.7	354910.360				ug/L
	Mo	95	260567.410	0.8	114.335	53.89814	0.642	1.2	ug/L
	Mo	97	164131.083	2.3	49.001	52.18327	1.251	2.4	ug/L
	Mo	98	410610.580	2.6	58.127	50.88774	1.998	3.9	ug/L
	Rh	103	315037.487	2.3	323620.727				ug/L
	Ag	107	660765.617	0.6	57.001	53.30588	1.101	2.1	ug/L
	Ag	109	599971.653	1.5	41.334	49.90038	1.200	2.4	ug/L
	Cd	111	150067.442	3.2	233.296	52.12436	2.113	4.1	ug/L
	Cd	114	330630.634	1.6	64.652	50.30271	0.980	1.9	ug/L
>	In	115	348218.051	1.5	364581.825				ug/L
	Sb	121	445047.053	1.4	51.001	48.81814	1.312	2.7	ug/L
	Sb	123	347398.340	0.8	45.100	50.79145	0.460	0.9	ug/L
	Ba	135	120256.013	0.4	65.001	52.19993	1.360	2.6	ug/L
	Ba	137	214406.320	0.4	74.668	55.54910	1.080	1.9	ug/L
>	Tb	159	409796.126	2.3	439210.410				ug/L
>	Ho	165	392963.599	0.7	425708.154				ug/L
	Tl	203	384436.995	0.8	51.001	53.12278	0.758	1.4	ug/L
	Tl	205	883415.869	2.3	72.668	53.66746	1.286	2.4	ug/L
	Pb	208	1193638.880	1.1	767.689	52.08835	0.485	0.9	ug/L

Pb	206	309660.929	0.5	194.671	51.33268	0.279	0.5	ug/L
Pb	207	261260.656	0.9	181.671	52.05010	0.727	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	106.185				
	Al	27	106.679				
>	Sc	45		94.313			
	V	51	110.164				
	Cr	52	106.145				
	Cr	53	103.253				
	Mn	55	108.367				
	Co	59	105.872				
	Ni	60	109.043				
	Ni	62	104.468				
	Cu	63	109.086				
	Cu	65	109.256				
	Zn	66	99.587				
	Zn	67	105.324				
	Zn	68	105.551				
>	Ge	72		95.737			
	As	75	106.705				
	Se	77	109.484				
	Se	78	113.357				
	Se	82	108.867				
	Kr	83					
	Y	89					
	Mo	95	107.796				
	Mo	97	104.367				
	Mo	98	101.775				
	Rh	103					
	Ag	107	106.612				
	Ag	109	99.801				
	Cd	111	104.249				
	Cd	114	100.605				
>	In	115		95.512			
	Sb	121	97.636				
	Sb	123	101.583				
	Ba	135	104.400				
	Ba	137	111.098				
>	Tb	159		93.303			
>	Ho	165		92.308			
	Tl	203	106.246				
	Tl	205	107.335				
	Pb	208	104.177				
	Pb	206	102.665				
	Pb	207	104.100				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 21, 2006 14:48:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 7.053

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	53.001	9.8	54.001	-0.00013	0.006	4283.2	ug/L
	Al	27	3259.003	0.9	9687.584	-0.76803	0.002	0.3	ug/L
>	Sc	45	372676.921	1.1	378480.621				ug/L
	V	51	4550.034	1.2	4514.855	0.00742	0.004	55.3	ug/L
	Cr	52	14860.392	2.4	14908.140	0.01456	0.018	120.8	ug/L
	Cr	53	667.033	3.3	661.366	0.01050	0.013	122.3	ug/L
	Mn	55	515.688	9.3	587.693	-0.00429	0.003	61.7	ug/L
	Co	59	170.003	5.2	242.339	-0.00502	0.001	16.0	ug/L
	Ni	60	522.688	7.1	623.696	-0.03131	0.014	45.1	ug/L
	Ni	62	316.009	5.0	504.354	-0.38602	0.042	11.0	ug/L
	Cu	63	853.719	4.8	1290.783	-0.05898	0.004	7.1	ug/L
	Cu	65	427.015	7.7	588.027	-0.04448	0.009	20.1	ug/L
	Zn	66	1643.512	0.5	2796.188	-0.56000	0.014	2.6	ug/L
	Zn	67	307.342	6.2	500.354	-0.55124	0.065	11.9	ug/L
	Zn	68	1204.432	1.4	2052.621	-0.56844	0.001	0.3	ug/L
>	Ge	72	193022.756	1.5	193550.369				ug/L
	As	75	124.669	6.5	97.335	0.01189	0.004	36.2	ug/L
	Se	77	210.203	2.8	187.669	0.13626	0.053	38.8	ug/L
	Se	78	13482.348	1.7	13588.495	-0.11946	0.711	595.4	mg/L
	Se	82	1334.507	3.2	1139.011	0.84132	0.260	30.9	ug/L
	Kr	83	1359.791	2.7	1141.423				mg/L
	Y	89	359934.416	3.1	354910.360				ug/L
	Mo	95	743.708	16.5	114.335	0.12799	0.019	14.8	ug/L
	Mo	97	439.350	24.4	49.001	0.12155	0.028	22.6	ug/L
	Mo	98	1085.171	17.4	58.127	0.12467	0.017	13.9	ug/L
	Rh	103	320540.200	0.9	323620.727				ug/L
	Ag	107	150.670	14.9	57.001	0.00751	0.001	17.0	ug/L
	Ag	109	130.336	4.7	41.334	0.00737	0.001	7.4	ug/L
	Cd	111	204.216	3.3	233.296	-0.00772	0.002	24.8	ug/L
	Cd	114	54.622	6.4	64.652	-0.00121	0.001	68.6	ug/L
>	In	115	354608.831	4.3	364581.825				ug/L
	Sb	121	1413.135	13.7	51.001	0.14645	0.015	10.0	ug/L
	Sb	123	1061.846	17.7	45.100	0.14558	0.021	14.1	ug/L
	Ba	135	45.667	24.6	65.001	-0.00694	0.005	69.7	ug/L
	Ba	137	53.667	7.5	74.668	-0.00446	0.001	21.5	ug/L
>	Tb	159	419165.588	0.5	439210.410				ug/L
>	Ho	165	410692.778	1.3	425708.154				ug/L
	Tl	203	68.001	9.6	51.001	0.00249	0.001	35.7	ug/L
	Tl	205	129.669	15.8	72.668	0.00346	0.001	33.4	ug/L
	Pb	208	436.675	6.6	767.689	-0.01271	0.001	7.6	ug/L

Pb	206	111.002	11.7	194.671	-0.01220	0.002	15.2	ug/L
Pb	207	101.002	4.0	181.671	-0.01416	0.001	7.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		98.467			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		99.727			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		97.265			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.436			
>	Ho	165		96.473			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950032 D.10

Sample Date/Time: Tuesday, November 21, 2006 15:04:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\950032 D.10.054

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	159.670	11.6	54.001	0.10356	0.020	19.6	ug/L
	Al	27	2839468.385	1.6	9687.584	349.01146	11.306	3.2	ug/L
>	Sc	45	369721.286	2.0	378480.621				ug/L
	V	51	9540.630	8.4	4514.855	0.36637	0.043	11.8	ug/L
	Cr	52	70505.762	1.6	14908.140	4.57284	0.075	1.6	ug/L
	Cr	53	7676.947	3.2	661.366	4.71645	0.107	2.3	ug/L
	Mn	55	946203.510	8.2	587.693	58.50582	4.583	7.8	ug/L
	Co	59	26469.251	2.4	242.339	1.87777	0.049	2.6	ug/L
	Ni	60	23936.912	2.2	623.696	7.53578	0.431	5.7	ug/L
	Ni	62	3912.291	1.0	504.354	7.20596	0.214	3.0	ug/L
	Cu	63	4396.537	2.7	1290.783	0.43452	0.020	4.6	ug/L
	Cu	65	1852.224	1.9	588.027	0.36378	0.028	7.8	ug/L
	Zn	66	17878.675	1.9	2796.188	7.55297	0.190	2.5	ug/L
	Zn	67	2930.211	2.7	500.354	7.16294	0.100	1.4	ug/L
	Zn	68	12942.840	1.2	2052.621	7.52242	0.199	2.6	ug/L
>	Ge	72	189395.154	3.4	193550.369				ug/L
	As	75	529.022	0.9	97.335	0.18996	0.006	3.2	ug/L
	Se	77	251.737	2.2	187.669	0.40929	0.026	6.3	ug/L
	Se	78	13753.074	1.3	13588.495	0.87324	1.211	138.7	mg/L
	Se	82	1355.244	2.5	1139.011	1.03857	0.156	15.0	ug/L
	Kr	83	1372.460	2.2	1141.423				mg/L
	Y	89	378285.272	3.7	354910.360				ug/L
	Mo	95	616.029	9.5	114.335	0.10768	0.013	12.2	ug/L
	Mo	97	342.010	7.9	49.001	0.09622	0.009	9.1	ug/L
	Mo	98	856.365	5.1	58.127	0.10147	0.004	3.9	ug/L
	Rh	103	317242.465	0.8	323620.727				ug/L
	Ag	107	87.335	18.9	57.001	0.00281	0.001	50.7	ug/L
	Ag	109	74.334	6.1	41.334	0.00303	0.000	11.7	ug/L
	Cd	111	579.886	5.2	233.296	0.12847	0.009	6.9	ug/L
	Cd	114	879.541	4.0	64.652	0.12727	0.004	2.9	ug/L
>	In	115	340885.995	1.4	364581.825				ug/L
	Sb	121	350.011	10.6	51.001	0.03385	0.004	11.1	ug/L
	Sb	123	249.343	13.0	45.100	0.03092	0.005	14.8	ug/L
	Ba	135	13673.355	3.7	65.001	5.81735	0.212	3.6	ug/L
	Ba	137	22846.178	2.1	74.668	5.81025	0.172	3.0	ug/L
>	Tb	159	416269.295	1.1	439210.410				ug/L
>	Ho	165	399857.962	3.3	425708.154				ug/L
	Tl	203	649.365	12.1	51.001	0.08157	0.009	10.4	ug/L
	Tl	205	1537.824	7.3	72.668	0.08767	0.004	4.5	ug/L
	Pb	208	6921.868	1.5	767.689	0.26622	0.007	2.5	ug/L

Pb	206	1800.546	0.9	194.671	0.26387	0.008	3.1	ug/L
Pb	207	1439.139	1.2	181.671	0.24865	0.006	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		97.686			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		97.853			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		93.501			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.777			
>	Ho	165		93.928			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, November 21, 2006 15:10:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 3.055

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1095.416	3.9	54.001	1.01455	0.053	5.2	ug/L
	Al	27	89618.826	3.0	9687.584	9.95278	0.454	4.6	ug/L
>	Sc	45	367450.264	1.1	378480.621				ug/L
	V	51	19524.471	1.1	4514.855	1.08974	0.018	1.7	ug/L
	Cr	52	28120.314	0.7	14908.140	1.12232	0.010	0.9	ug/L
	Cr	53	2283.336	1.7	661.366	1.10798	0.031	2.8	ug/L
	Mn	55	18485.333	1.0	587.693	1.10390	0.019	1.7	ug/L
	Co	59	15255.123	4.6	242.339	1.07021	0.025	2.3	ug/L
	Ni	60	3571.468	2.1	623.696	0.95145	0.028	2.9	ug/L
	Ni	62	767.710	4.1	504.354	0.57158	0.052	9.1	ug/L
	Cu	63	8165.414	1.2	1290.783	0.95299	0.041	4.3	ug/L
	Cu	65	3946.975	4.2	588.027	0.95583	0.068	7.2	ug/L
	Zn	66	13341.472	1.4	2796.188	5.26636	0.227	4.3	ug/L
	Zn	67	2081.614	2.5	500.354	4.65294	0.275	5.9	ug/L
	Zn	68	9394.386	0.8	2052.621	5.05773	0.200	3.9	ug/L
>	Ge	72	190092.713	2.4	193550.369				ug/L
	As	75	2483.061	0.8	97.335	1.04149	0.035	3.4	ug/L
	Se	77	373.675	6.3	187.669	1.13247	0.128	11.3	ug/L
	Se	78	14116.384	0.4	13588.495	1.43304	0.570	39.8	mg/L
	Se	82	1548.277	0.4	1139.011	1.84522	0.160	8.7	ug/L
	Kr	83	1360.458	1.2	1141.423				mg/L
	Y	89	355842.326	2.5	354910.360				ug/L
	Mo	95	5404.140	2.0	114.335	1.09531	0.050	4.6	ug/L
	Mo	97	3459.419	2.5	49.001	1.08417	0.016	1.5	ug/L
	Mo	98	8532.024	2.4	58.127	1.04992	0.047	4.5	ug/L
	Rh	103	335406.352	0.3	323620.727				ug/L
	Ag	107	13241.650	2.9	57.001	1.06376	0.062	5.8	ug/L
	Ag	109	12547.234	2.4	41.334	1.03926	0.021	2.0	ug/L
	Cd	111	3154.954	2.2	233.296	1.01903	0.037	3.6	ug/L
	Cd	114	6939.840	2.5	64.652	1.04557	0.020	1.9	ug/L
>	In	115	348613.308	3.1	364581.825				ug/L
	Sb	121	9962.052	1.6	51.001	1.08663	0.033	3.1	ug/L
	Sb	123	7271.353	1.9	45.100	1.05631	0.037	3.5	ug/L
	Ba	135	2565.754	2.5	65.001	1.01905	0.014	1.4	ug/L
	Ba	137	4395.536	0.7	74.668	1.05096	0.009	0.8	ug/L
>	Tb	159	436589.570	1.2	439210.410				ug/L
>	Ho	165	412142.522	1.8	425708.154				ug/L
	Tl	203	7998.584	1.8	51.001	1.04743	0.011	1.0	ug/L
	Tl	205	19566.474	0.9	72.668	1.12950	0.018	1.6	ug/L
	Pb	208	26288.482	1.1	767.689	1.06359	0.008	0.7	ug/L

Pb	206	6763.813	2.7	194.671	1.03976	0.011	1.1	ug/L
Pb	207	5632.960	2.1	181.671	1.03756	0.036	3.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	101.455				
	Al	27	99.528				
>	Sc	45		97.086			
	V	51	108.974				
	Cr	52	112.232				
	Cr	53	110.798				
	Mn	55	110.390				
	Co	59	107.021				
	Ni	60	95.145				
	Ni	62	57.158				
	Cu	63	95.299				
	Cu	65	95.583				
	Zn	66	105.327				
	Zn	67	93.059				
	Zn	68	101.155				
>	Ge	72		98.214			
	As	75	104.149				
	Se	77	113.247				
	Se	78	143.304				
	Se	82	184.522				
	Kr	83					
	Y	89					
	Mo	95	109.531				
	Mo	97	108.417				
	Mo	98	104.992				
	Rh	103					
	Ag	107	106.376				
	Ag	109	103.926				
	Cd	111	101.903				
	Cd	114	104.557				
>	In	115		95.620			
	Sb	121	108.663				
	Sb	123	105.631				
	Ba	135	101.905				
	Ba	137	105.096				
>	Tb	159		99.403			
>	Ho	165		96.813			
	Tl	203	104.743				
	Tl	205	112.950				
	Pb	208	106.359				
	Pb	206	103.976				
	Pb	207	103.756				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 21, 2006 15:15:58
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 6.056

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51640.701	0.9	54.001	51.91901	1.687	3.3	ug/L
	Al	27	430749.559	1.9	9687.584	54.14312	2.460	4.5	ug/L
>	Sc	45	355235.268	2.6	378480.621				ug/L
	V	51	734967.836	0.7	4514.855	54.42630	1.718	3.2	ug/L
	Cr	52	639078.318	0.9	14908.140	53.18879	0.930	1.7	ug/L
	Cr	53	74173.239	3.0	661.366	51.35508	0.622	1.2	ug/L
	Mn	55	869791.191	2.9	587.693	54.99712	0.729	1.3	ug/L
	Co	59	720510.029	3.1	242.339	52.72259	1.187	2.3	ug/L
	Ni	60	163885.891	2.1	623.696	53.91125	1.559	2.9	ug/L
	Ni	62	24851.273	3.2	504.354	52.50489	0.793	1.5	ug/L
	Cu	63	375747.094	1.4	1290.783	53.09628	0.412	0.8	ug/L
	Cu	65	186214.893	1.0	588.027	54.03261	1.188	2.2	ug/L
	Zn	66	102562.306	0.3	2796.188	50.95785	0.963	1.9	ug/L
	Zn	67	17425.040	0.4	500.354	50.88185	0.953	1.9	ug/L
	Zn	68	76762.457	2.1	2052.621	52.63852	2.058	3.9	ug/L
>	Ge	72	185129.023	1.8	193550.369				ug/L
	As	75	116415.529	1.9	97.335	52.08941	1.529	2.9	ug/L
	Se	77	8759.402	1.5	187.669	52.69699	0.128	0.2	ug/L
	Se	78	40795.909	2.3	13588.495	52.77411	3.080	5.8	mg/L
	Se	82	13098.553	0.9	1139.011	52.89717	0.789	1.5	ug/L
	Kr	83	1313.450	3.4	1141.423				mg/L
	Y	89	350709.276	4.0	354910.360				ug/L
	Mo	95	248561.052	1.8	114.335	52.97830	0.690	1.3	ug/L
	Mo	97	160958.367	1.4	49.001	52.74325	1.369	2.6	ug/L
	Mo	98	407007.184	0.8	58.127	51.96701	0.751	1.4	ug/L
	Rh	103	319262.566	2.6	323620.727				ug/L
	Ag	107	628310.292	2.2	57.001	52.22720	1.179	2.3	ug/L
	Ag	109	589756.641	2.2	41.334	50.53896	0.929	1.8	ug/L
	Cd	111	146875.407	1.5	233.296	52.55948	0.384	0.7	ug/L
	Cd	114	335647.234	1.0	64.652	52.62291	0.657	1.2	ug/L
>	In	115	337906.030	1.3	364581.825				ug/L
	Sb	121	454419.017	1.5	51.001	51.35493	0.300	0.6	ug/L
	Sb	123	336307.250	1.4	45.100	50.67808	1.352	2.7	ug/L
	Ba	135	122189.155	2.3	65.001	52.30226	2.055	3.9	ug/L
	Ba	137	208971.452	1.5	74.668	53.37405	0.598	1.1	ug/L
>	Tb	159	415586.262	1.7	439210.410				ug/L
>	Ho	165	398437.415	1.6	425708.154				ug/L
	Tl	203	382403.759	1.3	51.001	52.11402	0.163	0.3	ug/L
	Tl	205	897049.719	0.8	72.668	53.75337	0.902	1.7	ug/L
	Pb	208	1221764.449	1.3	767.689	52.58551	0.398	0.8	ug/L

Pb	206	308128.444	2.7	194.671	50.36982	0.573	1.1	ug/L
Pb	207	265346.684	0.5	181.671	52.14083	0.577	1.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	103.838				
	Al	27	108.286				
>	Sc	45		93.858			
	V	51	108.853				
	Cr	52	106.378				
	Cr	53	102.710				
	Mn	55	109.994				
	Co	59	105.445				
	Ni	60	107.823				
	Ni	62	105.010				
	Cu	63	106.193				
	Cu	65	108.065				
	Zn	66	101.916				
	Zn	67	101.764				
	Zn	68	105.277				
>	Ge	72		95.649			
	As	75	104.179				
	Se	77	105.394				
	Se	78	105.548				
	Se	82	105.794				
	Kr	83					
	Y	89					
	Mo	95	105.957				
	Mo	97	105.487				
	Mo	98	103.934				
	Rh	103					
	Ag	107	104.454				
	Ag	109	101.078				
	Cd	111	105.119				
	Cd	114	105.246				
>	In	115		92.683			
	Sb	121	102.710				
	Sb	123	101.356				
	Ba	135	104.605				
	Ba	137	106.748				
>	Tb	159		94.621			
>	Ho	165		93.594			
	Tl	203	104.228				
	Tl	205	107.507				
	Pb	208	105.171				
	Pb	206	100.740				
	Pb	207	104.282				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 21, 2006 15:21:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112106\QC Std 7.057

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	48.667	9.7	54.001	-0.00195	0.005	239.4	ug/L
	Al	27	3313.692	1.7	9687.584	-0.74063	0.016	2.1	ug/L
>	Sc	45	354726.257	2.0	378480.621				ug/L
	V	51	4129.380	1.9	4514.855	-0.00751	0.009	125.7	ug/L
	Cr	52	14035.617	0.2	14908.140	0.00567	0.022	384.1	ug/L
	Cr	53	680.701	2.1	661.366	0.04259	0.008	18.6	ug/L
	Mn	55	504.687	8.8	587.693	-0.00315	0.003	95.6	ug/L
	Co	59	163.003	10.5	242.339	-0.00485	0.001	27.7	ug/L
	Ni	60	508.021	1.6	623.696	-0.02673	0.004	16.0	ug/L
	Ni	62	322.009	0.6	504.354	-0.33541	0.009	2.6	ug/L
	Cu	63	815.381	1.1	1290.783	-0.05774	0.000	0.6	ug/L
	Cu	65	406.347	8.8	588.027	-0.04372	0.010	22.3	ug/L
	Zn	66	1543.492	1.2	2796.188	-0.56523	0.015	2.6	ug/L
	Zn	67	332.010	2.7	500.354	-0.42512	0.036	8.6	ug/L
	Zn	68	1200.765	1.3	2052.621	-0.52385	0.019	3.6	ug/L
>	Ge	72	182449.917	1.0	193550.369				ug/L
	As	75	121.669	1.7	97.335	0.01360	0.001	9.9	ug/L
	Se	77	199.336	3.7	187.669	0.13967	0.039	28.1	ug/L
	Se	78	13543.869	0.7	13588.495	1.41722	0.441	31.1	mg/L
	Se	82	1318.771	0.8	1139.011	1.09568	0.083	7.5	ug/L
	Kr	83	1378.795	2.6	1141.423				mg/L
	Y	89	342236.814	2.3	354910.360				ug/L
	Mo	95	542.023	18.4	114.335	0.08917	0.022	24.3	ug/L
	Mo	97	314.009	20.3	49.001	0.08462	0.021	24.8	ug/L
	Mo	98	742.319	20.3	58.127	0.08479	0.020	23.1	ug/L
	Rh	103	318350.753	0.5	323620.727				ug/L
	Ag	107	141.669	21.1	57.001	0.00700	0.003	36.4	ug/L
	Ag	109	118.669	9.8	41.334	0.00655	0.001	16.5	ug/L
	Cd	111	206.589	4.4	233.296	-0.00600	0.002	41.3	ug/L
	Cd	114	52.497	17.4	64.652	-0.00143	0.001	104.1	ug/L
>	In	115	349852.016	1.2	364581.825				ug/L
	Sb	121	981.736	20.8	51.001	0.10199	0.023	23.0	ug/L
	Sb	123	772.757	13.5	45.100	0.10624	0.016	15.1	ug/L
	Ba	135	46.001	13.0	65.001	-0.00658	0.003	40.5	ug/L
	Ba	137	58.001	7.5	74.668	-0.00319	0.001	38.6	ug/L
>	Tb	159	414556.676	0.8	439210.410				ug/L
>	Ho	165	400530.010	1.9	425708.154				ug/L
	Tl	203	59.001	19.5	51.001	0.00151	0.002	110.7	ug/L
	Tl	205	111.669	22.4	72.668	0.00258	0.001	57.5	ug/L
	Pb	208	401.674	5.0	767.689	-0.01373	0.001	6.0	ug/L

Pb	206	112.335	8.0	194.671	-0.01151	0.002	14.2	ug/L
Pb	207	100.335	12.1	181.671	-0.01382	0.002	15.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		93.724			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		94.265			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		95.960			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.387			
>	Ho	165		94.086			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Metals Cover Page

Analyst: SDeVito **Date:** 11/22/06 **Instrument:** ECAN

Data File: 112206 **Reviewed By:** SD 11/22/06 **Entered By:** SD 11/22/06

Approval: DCB 11/28/06

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Comments/ Problems
137904	~~Be~~ Cu Mn	M3990146	6020		

Package Data:

Client Sub#	Package	Analytes Used	Failed Metals	Batch ID	Stds Attached?	Tranferred To LIMS	Raw Data Copied?
34493	5 / ASP	~~Be~~ Cu Mn		M3990146	Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No
	5 / ASP				Yes / No	MARRS / Run above	Yes / No

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Wednesday, November 22, 2006 08:53:12
Sample Description:
Method File: c:\elandata\Method\EPA DAILY.mth
Dataset File: c:\elandata\Dataset\Daily2006\Sample.242
Tuning File: c:\elandata\Tuning\epa.tun
Optimization File: c:\elandata\Optimize\epa2.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 60
Current Dead Time (ns): 60

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	61815.4	61815.385	316.143	0.5
	Rh	102.9	342509.9	342509.889	3894.385	1.1
	In	114.9	350492.4	350492.433	4753.695	1.4
	Pb	208.0	135304.9	135304.908	1365.238	1.0
	U	238.1	234462.1	234462.092	1973.190	0.8
⌈>	Ba	137.9	249014.8	249014.773	1519.593	0.6
⌊	Ba++	69.0	6746.2	0.027	0.001	1.9
⌈>	Ce	139.9	350409.6	350409.591	3528.518	1.0
⌊	CeO	155.9	7056.7	0.020	0.000	0.8
	Bkgd	220.0	31.6	31.603	5.030	15.9

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
8.00	Lens Voltage
1500.00	ICP RF Power
-1832.50	Analog Stage Voltage
1017.50	Pulse Stage Voltage
70.00	Discriminator Threshold
-2.50	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	6.0	11347.2
Co	59	29	7.8	163395.3
In	115	29	8.0	266809.4

Elan 9000 Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, November 22, 2006 09:48:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\Blank.001

SDW 11/22/06

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	49.334	1.2					ug/L
	Al	27	2679.805	22.4					ug/L
>	Sc	45	378193.541	2.4					ug/L
	V	51	4537.327	1.7					ug/L
	Cr	52	15100.490	2.0					ug/L
	Cr	53	618.029	5.4					ug/L
	Mn	55	580.693	7.6					ug/L
	Co	59	202.004	5.6					ug/L
	Ni	60	196.338	11.0					ug/L
	Ni	62	499.020	5.7					ug/L
	Cu	63	505.687	11.2					ug/L
	Cu	65	212.672	17.8					ug/L
	Zn	66	1298.448	11.7					ug/L
	Zn	67	302.342	6.6					ug/L
	Zn	68	996.736	7.3					ug/L
>	Ge	72	197196.226	0.6					ug/L
	As	75	96.335	13.5					ug/L
	Se	77	202.002	2.3					ug/L
	Se	78	14431.438	1.8					mg/L
	Se	82	1747.050	0.8					ug/L
	Kr	83	1793.211	5.0					mg/L
	Y	89	365281.373	1.4					ug/L
	Mo	95	120.335	18.7					ug/L
	Mo	97	52.667	23.0					ug/L
	Mo	98	70.498	34.3					ug/L
	Rh	103	350376.944	2.2					ug/L
	Ag	107	46.001	21.4					ug/L
	Ag	109	42.334	11.9					ug/L
	Cd	111	203.876	3.0					ug/L
	Cd	114	55.152	19.8					ug/L
>	In	115	366049.872	1.4					ug/L
	Sb	121	54.667	15.2					ug/L
	Sb	123	37.221	19.4					ug/L
	Ba	135	52.001	18.9					ug/L
	Ba	137	70.668	5.0					ug/L
>	Tb	159	427712.876	0.7					ug/L
>	Ho	165	412683.278	2.1					ug/L
	Tl	203	51.667	22.3					ug/L
	Tl	205	75.334	2.8					ug/L
	Pb	208	440.342	39.2					ug/L

Pb	206	119.335	32.5	ug/L
Pb	207	109.335	39.0	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, November 22, 2006 09:54:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\Standard 1.002

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	10660.927	3.5	49.334	10.00000	0.531	5.3	ug/L
	Al	27	89892.501	1.0	2679.805	10.00000	0.171	1.7	ug/L
>	Sc	45	370838.752	1.9	378193.541				ug/L
	V	51	157762.142	1.9	4537.327	10.00000	0.358	3.6	ug/L
	Cr	52	143102.747	2.3	15100.490	10.00000	0.421	4.2	ug/L
	Cr	53	16137.114	3.1	618.029	10.00000	0.509	5.1	ug/L
	Mn	55	173909.026	0.7	580.693	10.00000	0.136	1.4	ug/L
	Co	59	154574.500	1.5	202.004	10.00000	0.311	3.1	ug/L
	Ni	60	33691.317	1.6	196.338	10.00000	0.320	3.2	ug/L
	Ni	62	5433.492	1.8	499.020	10.00000	0.180	1.8	ug/L
	Cu	63	78187.536	0.5	505.687	10.00000	0.225	2.3	ug/L
	Cu	65	36705.699	0.9	212.672	10.00000	0.237	2.4	ug/L
	Zn	66	23695.545	0.5	1298.448	10.00000	0.144	1.4	ug/L
	Zn	67	4054.027	1.4	302.342	10.00000	0.065	0.7	ug/L
	Zn	68	17240.992	1.6	996.736	10.00000	0.077	0.8	ug/L
>	Ge	72	192496.953	1.8	197196.226				ug/L
	As	75	24442.711	1.5	96.335	10.00000	0.324	3.2	ug/L
	Se	77	1941.026	1.4	202.002	10.00000	0.269	2.7	ug/L
	Se	78	20238.254	1.6	14431.438	10.00000	0.803	8.0	mg/L
	Se	82	4236.210	0.7	1747.050	10.00000	0.417	4.2	ug/L
	Kr	83	1771.539	2.3	1793.211				mg/L
	Y	89	357604.013	2.3	365281.373				ug/L
	Mo	95	53927.525	2.3	120.335	10.00000	0.202	2.0	ug/L
	Mo	97	33005.570	1.3	52.667	10.00000	0.181	1.8	ug/L
	Mo	98	86237.788	2.8	70.498	10.00000	0.343	3.4	ug/L
	Rh	103	325859.643	1.7	350376.944				ug/L
	Ag	107	141421.192	1.7	46.001	10.00000	0.118	1.2	ug/L
	Ag	109	133874.368	2.9	42.334	10.00000	0.341	3.4	ug/L
	Cd	111	30874.125	0.9	203.876	10.00000	0.043	0.4	ug/L
	Cd	114	70180.939	0.4	55.152	10.00000	0.101	1.0	ug/L
>	In	115	367083.884	0.6	366049.872				ug/L
	Sb	121	95725.999	1.1	54.667	10.00000	0.124	1.2	ug/L
	Sb	123	72525.911	1.3	37.221	10.00000	0.119	1.2	ug/L
	Ba	135	23473.586	1.3	52.001	10.00000	0.156	1.6	ug/L
	Ba	137	39690.030	1.1	70.668	10.00000	0.110	1.1	ug/L
>	Tb	159	408896.293	1.1	427712.876				ug/L
>	Ho	165	409298.267	0.8	412683.278				ug/L
	Tl	203	82620.042	0.6	51.667	10.00000	0.127	1.3	ug/L
	Tl	205	194208.973	0.8	75.334	10.00000	0.063	0.6	ug/L
	Pb	208	262525.065	1.1	440.342	10.00000	0.091	0.9	ug/L

Pb	206	69148.418	1.1	119.335	10.00000	0.140	1.4	ug/L
Pb	207	56455.866	1.9	109.335	10.00000	0.175	1.8	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, November 22, 2006 10:00:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\Standard 2.003

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	21259.975	2.5	49.334	19.98880	0.756	3.8	ug/L
	Al	27	172925.978	2.1	2679.805	19.89343	0.515	2.6	ug/L
>	Sc	45	371526.580	1.6	378193.541				ug/L
	V	51	299381.932	0.5	4537.327	19.83396	0.338	1.7	ug/L
	Cr	52	266775.800	1.0	15100.490	19.91809	0.508	2.6	ug/L
	Cr	53	31166.499	2.0	618.029	19.92595	0.734	3.7	ug/L
	Mn	55	348518.445	0.9	580.693	19.95163	0.352	1.8	ug/L
	Co	59	307265.401	1.2	202.004	19.91360	0.157	0.8	ug/L
	Ni	60	66225.137	1.5	196.338	19.87712	0.422	2.1	ug/L
	Ni	62	10502.720	1.6	499.020	19.98327	0.161	0.8	ug/L
	Cu	63	154877.567	0.8	505.687	19.90997	0.254	1.3	ug/L
	Cu	65	71968.494	0.8	212.672	19.86675	0.058	0.3	ug/L
	Zn	66	45143.732	0.5	1298.448	19.84518	0.234	1.2	ug/L
	Zn	67	7772.034	1.1	302.342	19.91289	0.403	2.0	ug/L
	Zn	68	32732.517	2.7	996.736	19.83768	0.723	3.6	ug/L
>	Ge	72	195526.271	0.8	197196.226				ug/L
	As	75	48973.078	3.4	96.335	19.95127	0.794	4.0	ug/L
	Se	77	3750.911	0.8	202.002	20.00821	0.243	1.2	ug/L
	Se	78	25249.502	1.9	14431.438	19.44559	1.208	6.2	mg/L
	Se	82	6699.826	0.7	1747.050	19.85926	0.230	1.2	ug/L
	Kr	83	1809.548	1.8	1793.211				mg/L
	Y	89	359707.461	2.2	365281.373				ug/L
	Mo	95	105260.684	0.7	120.335	19.87371	0.343	1.7	ug/L
	Mo	97	65742.034	2.1	52.667	19.95407	0.467	2.3	ug/L
	Mo	98	172289.266	2.5	70.498	19.96499	0.710	3.6	ug/L
	Rh	103	332717.682	1.3	350376.944				ug/L
	Ag	107	276989.917	0.4	46.001	19.88431	0.442	2.2	ug/L
	Ag	109	264134.271	2.2	42.334	19.91223	0.207	1.0	ug/L
	Cd	111	61175.749	1.4	203.876	19.94328	0.343	1.7	ug/L
	Cd	114	138234.623	1.9	55.152	19.90840	0.715	3.6	ug/L
>	In	115	370131.730	2.1	366049.872				ug/L
	Sb	121	190351.496	1.8	54.667	19.94607	0.610	3.1	ug/L
	Sb	123	140522.193	0.7	37.221	19.84051	0.508	2.6	ug/L
	Ba	135	46042.667	1.9	52.001	19.99288	0.313	1.6	ug/L
	Ba	137	77704.490	2.2	70.668	19.98462	0.410	2.1	ug/L
>	Tb	159	402140.640	1.3	427712.876				ug/L
>	Ho	165	407128.789	0.8	412683.278				ug/L
	Tl	203	162158.244	1.1	51.667	19.94681	0.224	1.1	ug/L
	Tl	205	376764.272	0.5	75.334	19.89962	0.243	1.2	ug/L
	Pb	208	516129.891	0.5	440.342	19.95610	0.251	1.3	ug/L

Pb	206	136011.335	0.6	119.335	19.95795	0.256	1.3	ug/L
Pb	207	111283.365	1.7	109.335	19.96720	0.434	2.2	ug/L

Elan 9000 Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Wednesday, November 22, 2006 10:06:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\Standard 3.004

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	101673.604	1.6	49.334	99.78635	2.998	3.0	ug/L
	Al	27	827174.916	1.9	2679.805	99.81487	2.165	2.2	ug/L
>	Sc	45	371874.089	3.1	378193.541				ug/L
	V	51	1402884.189	0.7	4537.327	99.69648	2.518	2.5	ug/L
	Cr	52	1245698.556	1.6	15100.490	99.86440	1.751	1.8	ug/L
	Cr	53	149527.025	1.9	618.029	99.85335	2.051	2.1	ug/L
	Mn	55	1648492.522	1.2	580.693	99.88633	0.322	0.3	ug/L
	Co	59	1421542.453	1.7	202.004	99.76446	0.689	0.7	ug/L
	Ni	60	318046.467	0.5	196.338	99.94715	0.969	1.0	ug/L
	Ni	62	49825.027	1.5	499.020	100.08680	1.281	1.3	ug/L
	Cu	63	744571.312	2.8	505.687	99.96075	2.133	2.1	ug/L
	Cu	65	363143.168	2.6	212.672	100.17712	1.725	1.7	ug/L
	Zn	66	211331.582	2.0	1298.448	99.91636	2.697	2.7	ug/L
	Zn	67	35522.658	4.2	302.342	99.85410	3.232	3.2	ug/L
	Zn	68	152545.132	1.0	996.736	99.89819	1.013	1.0	ug/L
>	Ge	72	189166.123	1.5	197196.226				ug/L
	As	75	233290.046	2.9	96.335	99.92143	2.568	2.6	ug/L
	Se	77	17532.157	0.9	202.002	100.04676	0.684	0.7	ug/L
	Se	78	68702.451	1.6	14431.438	100.03555	0.537	0.5	mg/L
	Se	82	25096.537	1.2	1747.050	99.84249	2.274	2.3	ug/L
	Kr	83	1047.743	7.1	1793.211				mg/L
	Y	89	353008.635	1.5	365281.373				ug/L
	Mo	95	499210.828	1.1	120.335	99.86691	2.009	2.0	ug/L
	Mo	97	313701.800	1.6	52.667	99.91694	4.025	4.0	ug/L
	Mo	98	810387.952	1.4	70.498	99.84491	1.140	1.1	ug/L
	Rh	103	321017.884	2.1	350376.944				ug/L
	Ag	107	1266378.888	1.1	46.001	99.68304	1.515	1.5	ug/L
	Ag	109	1214209.766	2.8	42.334	99.71791	1.713	1.7	ug/L
	Cd	111	295956.756	1.0	203.876	99.98829	1.537	1.5	ug/L
	Cd	114	681784.505	3.9	55.152	100.05666	1.447	1.4	ug/L
>	In	115	358981.062	2.5	366049.872				ug/L
	Sb	121	899997.889	1.1	54.667	99.86547	1.487	1.5	ug/L
	Sb	123	664241.599	2.3	37.221	99.83722	0.298	0.3	ug/L
	Ba	135	219886.002	2.9	52.001	99.75203	2.838	2.8	ug/L
	Ba	137	370939.098	2.2	70.668	99.74692	1.880	1.9	ug/L
>	Tb	159	404341.529	0.8	427712.876				ug/L
>	Ho	165	390874.409	1.7	412683.278				ug/L
	Tl	203	748999.959	0.6	51.667	99.80199	1.341	1.3	ug/L
	Tl	205	1709592.758	1.3	75.334	99.70047	0.865	0.9	ug/L
	Pb	208	2403409.124	1.9	440.342	99.84529	0.451	0.5	ug/L

Pb	206	623595.420	1.9	119.335	99.76921	0.173	0.2	ug/L
Pb	207	524509.836	2.8	109.335	99.90717	1.666	1.7	ug/L

Quantitative Analysis Calibration Report

File Name: 112206.cal
File Path: C:\elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.00	0.00	0.999954
Al	26.982	Linear Thru Zero	0.02	0.00	0.999963
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V	50.944	Linear Thru Zero	0.04	0.00	0.999901
Cr	51.941	Linear Thru Zero	0.03	0.00	0.999980
Cr	52.941	Linear Thru Zero	0.00	0.00	0.999977
Mn	54.938	Linear Thru Zero	0.09	0.00	0.999986
Co	58.933	Linear Thru Zero	0.08	0.00	0.999943
Ni	59.933	Linear Thru Zero	0.02	0.00	0.999994
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999992
Cu	62.930	Linear Thru Zero	0.04	0.00	0.999996
Cu	64.928	Linear Thru Zero	0.02	0.00	0.999965
Zn	65.926	Linear Thru Zero	0.01	0.00	0.999987
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999977
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999983
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.01	0.00	0.999993
Se	76.920	Linear Thru Zero	0.00	0.00	0.999998
Se	77.917	Linear Thru Zero	0.00	0.00	0.999927
Se	81.917	Linear Thru Zero	0.00	0.00	0.999970
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Mo	94.906	Linear Thru Zero	0.01	0.00	0.999978
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999993
Mo	97.906	Linear Thru Zero	0.02	0.00	0.999976
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
Ag	106.905	Linear Thru Zero	0.04	0.00	0.999896
Ag	108.905	Linear Thru Zero	0.03	0.00	0.999918
Cd	110.904	Linear Thru Zero	0.01	0.00	0.999999
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999995
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb	120.904	Linear Thru Zero	0.03	0.00	0.999981
Sb	122.904	Linear Thru Zero	0.02	0.00	0.999967
Ba	134.906	Linear Thru Zero	0.01	0.00	0.999939
Ba	136.905	Linear Thru Zero	0.01	0.00	0.999936
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Tl	202.972	Linear Thru Zero	0.02	0.00	0.999960
Tl	204.975	Linear Thru Zero	0.04	0.00	0.999908
Pb	207.977	Linear Thru Zero	0.06	0.00	0.999976

931

Pb	205.975	Linear Thru Zero	0.02	0.00	0.999946
Pb	206.976	Linear Thru Zero	0.01	0.00	0.999991

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, November 22, 2006 10:12:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 1.005

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50452.788	1.3	49.334	51.21575	0.700	1.4	ug/L
	Al	27	427869.523	2.7	2679.805	53.27605	0.389	0.7	ug/L
>	Sc	45	359228.951	2.1	378193.541				ug/L
	V	51	746076.573	0.4	4537.327	54.72861	1.025	1.9	ug/L
	Cr	52	623363.383	2.6	15100.490	51.13446	0.861	1.7	ug/L
	Cr	53	72788.231	0.2	618.029	50.11320	1.067	2.1	ug/L
	Mn	55	839656.193	1.4	580.693	53.13955	0.552	1.0	ug/L
	Co	59	705828.157	1.5	202.004	51.75501	1.147	2.2	ug/L
	Ni	60	161273.724	2.3	196.338	52.91643	0.886	1.7	ug/L
	Ni	62	24329.708	0.7	499.020	50.58702	0.498	1.0	ug/L
	Cu	63	384805.664	0.6	505.687	53.95079	0.417	0.8	ug/L
	Cu	65	185574.718	1.6	212.672	53.46170	0.490	0.9	ug/L
	Zn	66	101076.642	0.5	1298.448	49.62723	0.380	0.8	ug/L
	Zn	67	17826.560	1.3	302.342	51.97740	0.933	1.8	ug/L
	Zn	68	75093.030	2.4	996.736	51.06725	0.896	1.8	ug/L
>	Ge	72	181049.459	0.7	197196.226				ug/L
	As	75	116965.690	1.0	96.335	52.32714	0.816	1.6	ug/L
	Se	77	8732.373	0.2	202.002	51.52674	0.300	0.6	ug/L
	Se	78	42436.477	1.0	14431.438	55.60766	0.318	0.6	mg/L
	Se	82	12500.235	0.8	1747.050	48.52506	0.462	1.0	ug/L
	Kr	83	651.032	10.4	1793.211				mg/L
	Y	89	344695.701	3.1	365281.373				ug/L
	Mo	95	255509.550	0.5	120.335	52.23858	0.851	1.6	ug/L
	Mo	97	160536.511	2.6	52.667	52.24807	1.916	3.7	ug/L
	Mo	98	404621.964	1.1	70.498	50.95561	0.372	0.7	ug/L
	Rh	103	324823.697	2.5	350376.944				ug/L
	Ag	107	654139.719	1.0	46.001	52.63723	1.098	2.1	ug/L
	Ag	109	618066.483	1.1	42.334	51.89320	0.376	0.7	ug/L
	Cd	111	147204.922	2.8	203.876	50.81607	2.030	4.0	ug/L
	Cd	114	330420.816	1.5	55.152	49.59421	1.257	2.5	ug/L
>	In	115	351117.924	1.2	366049.872				ug/L
	Sb	121	433915.609	1.2	54.667	49.21633	0.900	1.8	ug/L
	Sb	123	331348.341	1.2	37.221	50.91758	0.863	1.7	ug/L
	Ba	135	109267.468	0.6	52.001	50.59546	0.199	0.4	ug/L
	Ba	137	191464.111	1.6	70.668	52.55614	0.895	1.7	ug/L
>	Tb	159	396060.269	0.8	427712.876				ug/L
>	Ho	165	381586.394	0.3	412683.278				ug/L
	Tl	203	386040.187	1.7	51.667	52.67848	0.716	1.4	ug/L
	Tl	205	876732.221	1.0	75.334	52.36861	0.501	1.0	ug/L
	Pb	208	1212474.975	1.7	440.342	51.58725	0.716	1.4	ug/L

Pb	206	315384.443	1.7	119.335	51.67845	0.844	1.6	ug/L
Pb	207	263594.145	2.7	109.335	51.42291	1.258	2.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	102.432				
	Al	27	106.552				
>	Sc	45		94.985			
	V	51	109.457				
	Cr	52	102.269				
	Cr	53	100.226				
	Mn	55	106.279				
	Co	59	103.510				
	Ni	60	105.833				
	Ni	62	101.174				
	Cu	63	107.902				
	Cu	65	106.923				
	Zn	66	99.254				
	Zn	67	103.955				
	Zn	68	102.134				
>	Ge	72		91.812			
	As	75	104.654				
	Se	77	103.053				
	Se	78	111.215				
	Se	82	97.050				
	Kr	83					
	Y	89					
	Mo	95	104.477				
	Mo	97	104.496				
	Mo	98	101.911				
	Rh	103					
	Ag	107	105.274				
	Ag	109	103.786				
	Cd	111	101.632				
	Cd	114	99.188				
>	In	115		95.921			
	Sb	121	98.433				
	Sb	123	101.835				
	Ba	135	101.191				
	Ba	137	105.112				
>	Tb	159		92.600			
>	Ho	165		92.465			
	Tl	203	105.357				
	Tl	205	104.737				
	Pb	208	103.175				
	Pb	206	103.357				
	Pb	207	102.846				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, November 22, 2006 10:18:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 2.006

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	48.334	22.8	49.334	-0.00079	0.011	1435.9	ug/L
	Al	27	2223.986	1.5	2679.805	-0.05370	0.004	8.3	ug/L
>	Sc	45	377464.987	1.7	378193.541				ug/L
	V	51	4161.402	3.3	4537.327	-0.02562	0.014	55.2	ug/L
	Cr	52	14010.580	2.6	15100.490	-0.08424	0.047	56.2	ug/L
	Cr	53	586.693	2.8	618.029	-0.01980	0.014	72.3	ug/L
	Mn	55	519.355	3.3	580.693	-0.00262	0.001	47.1	ug/L
	Co	59	212.005	4.1	202.004	0.00112	0.001	61.8	ug/L
	Ni	60	168.003	6.3	196.338	-0.00695	0.004	53.8	ug/L
	Ni	62	569.025	1.2	499.020	0.17061	0.005	2.7	ug/L
	Cu	63	524.355	5.4	505.687	0.00449	0.003	73.0	ug/L
	Cu	65	167.670	7.6	212.672	-0.01054	0.003	31.1	ug/L
	Zn	66	1168.094	3.0	1298.448	-0.04281	0.020	46.7	ug/L
	Zn	67	264.340	4.3	302.342	-0.08075	0.038	47.1	ug/L
	Zn	68	842.718	4.2	996.736	-0.08067	0.027	33.1	ug/L
>	Ge	72	191249.712	1.0	197196.226				ug/L
	As	75	128.336	12.4	96.335	0.01475	0.006	42.2	ug/L
	Se	77	205.269	4.6	202.002	0.05345	0.055	102.3	ug/L
	Se	78	14229.810	0.4	14431.438	0.42308	0.298	70.3	mg/L
	Se	82	667.493	1.7	1747.050	-4.32875	0.063	1.5	ug/L
	Kr	83	629.363	5.7	1793.211				mg/L
	Y	89	356025.555	1.1	365281.373				ug/L
	Mo	95	660.033	20.4	120.335	0.10555	0.027	25.8	ug/L
	Mo	97	388.013	27.9	52.667	0.10443	0.034	33.0	ug/L
	Mo	98	954.271	22.1	70.498	0.10650	0.026	24.6	ug/L
	Rh	103	329740.074	2.7	350376.944				ug/L
	Ag	107	119.335	26.9	46.001	0.00564	0.003	44.9	ug/L
	Ag	109	98.668	22.6	42.334	0.00452	0.002	41.1	ug/L
	Cd	111	213.887	11.2	203.876	0.00306	0.008	258.7	ug/L
	Cd	114	68.414	13.7	55.152	0.00188	0.001	74.8	ug/L
>	In	115	367364.842	1.1	366049.872				ug/L
	Sb	121	1210.435	19.0	54.667	0.12542	0.026	20.6	ug/L
	Sb	123	883.465	17.9	37.221	0.12439	0.024	19.4	ug/L
	Ba	135	52.667	12.6	52.001	0.00201	0.003	148.7	ug/L
	Ba	137	56.334	12.5	70.668	-0.00255	0.002	77.3	ug/L
>	Tb	159	397339.456	0.4	427712.876				ug/L
>	Ho	165	399632.571	1.8	412683.278				ug/L
	Tl	203	66.668	19.5	51.667	0.00217	0.002	78.2	ug/L
	Tl	205	117.335	12.4	75.334	0.00254	0.001	33.9	ug/L
	Pb	208	358.673	5.4	440.342	-0.00275	0.001	32.3	ug/L

Pb	206	104.668	7.3	119.335	-0.00170	0.001	70.6	ug/L
Pb	207	86.668	5.9	109.335	-0.00357	0.001	34.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		99.807			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		96.984			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		100.359			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.899			
>	Ho	165		96.838			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, November 22, 2006 10:24:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 3.007

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1108.085	4.1	49.334	1.06024	0.039	3.7	ug/L
	Al	27	91982.218	1.8	2679.805	11.02442	0.323	2.9	ug/L
>	Sc	45	364990.698	1.4	378193.541				ug/L
	V	51	19543.788	1.0	4537.327	1.10126	0.034	3.1	ug/L
	Cr	52	27915.968	1.7	15100.490	1.10326	0.073	6.6	ug/L
	Cr	53	2134.628	2.2	618.029	1.05084	0.049	4.6	ug/L
	Mn	55	18755.275	2.1	580.693	1.10646	0.054	4.8	ug/L
	Co	59	15372.653	0.6	202.004	1.06851	0.040	3.7	ug/L
	Ni	60	3576.803	1.6	196.338	1.06901	0.058	5.5	ug/L
	Ni	62	1110.419	4.5	499.020	1.28578	0.062	4.8	ug/L
	Cu	63	8168.751	1.9	505.687	1.03493	0.020	1.9	ug/L
	Cu	65	3850.595	3.3	212.672	1.01056	0.077	7.6	ug/L
	Zn	66	15129.881	2.9	1298.448	6.61790	0.065	1.0	ug/L
	Zn	67	2271.666	0.1	302.342	5.63594	0.248	4.4	ug/L
	Zn	68	10570.472	0.3	996.736	6.35597	0.276	4.3	ug/L
>	Ge	72	188793.391	3.7	197196.226				ug/L
	As	75	2435.714	1.8	96.335	1.00663	0.022	2.2	ug/L
	Se	77	371.608	5.4	202.002	1.02995	0.067	6.5	ug/L
	Se	78	14678.115	1.6	14431.438	1.60751	1.372	85.4	mg/L
	Se	82	906.916	0.9	1747.050	-3.26591	0.167	5.1	ug/L
	Kr	83	667.033	2.7	1793.211				mg/L
	Y	89	357120.365	0.8	365281.373				ug/L
	Mo	95	5462.513	4.4	120.335	1.07741	0.069	6.4	ug/L
	Mo	97	3467.756	2.3	52.667	1.09565	0.046	4.2	ug/L
	Mo	98	8768.306	2.4	70.498	1.07932	0.031	2.8	ug/L
	Rh	103	327015.307	2.0	350376.944				ug/L
	Ag	107	13786.538	2.7	46.001	1.08949	0.049	4.5	ug/L
	Ag	109	12853.041	3.5	42.334	1.05918	0.018	1.7	ug/L
	Cd	111	3383.919	1.1	203.876	1.08444	0.034	3.2	ug/L
	Cd	114	7231.829	1.7	55.152	1.06105	0.009	0.9	ug/L
>	In	115	356530.918	1.9	366049.872				ug/L
	Sb	121	9890.299	1.8	54.667	1.09890	0.014	1.2	ug/L
	Sb	123	7264.570	2.0	37.221	1.09393	0.010	0.9	ug/L
	Ba	135	2396.369	3.0	52.001	1.04562	0.033	3.2	ug/L
	Ba	137	3987.327	1.6	70.668	1.03536	0.025	2.4	ug/L
>	Tb	159	411714.707	0.7	427712.876				ug/L
>	Ho	165	397195.435	1.1	412683.278				ug/L
	Tl	203	8131.046	0.6	51.667	1.05972	0.018	1.7	ug/L
	Tl	205	19774.632	0.2	75.334	1.13079	0.015	1.3	ug/L
	Pb	208	26592.130	0.9	440.342	1.07004	0.003	0.3	ug/L

Pb	206	6833.869	0.6	119.335	1.05815	0.012	1.1	ug/L
Pb	207	5768.387	1.1	109.335	1.06182	0.003	0.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	106.024				
	Al	27	110.244				
>	Sc	45		96.509			
	V	51	110.126				
	Cr	52	110.326				
	Cr	53	105.084				
	Mn	55	110.646				
	Co	59	106.851				
	Ni	60	106.901				
	Ni	62	128.578				
	Cu	63	103.493				
	Cu	65	101.056				
	Zn	66	132.358				
	Zn	67	112.719				
	Zn	68	127.119				
>	Ge	72		95.739			
	As	75	100.663				
	Se	77	102.995				
	Se	78	160.751				
	Se	82	-326.591				
	Kr	83					
	Y	89					
	Mo	95	107.741				
	Mo	97	109.565				
	Mo	98	107.932				
	Rh	103					
	Ag	107	108.949				
	Ag	109	105.918				
	Cd	111	108.444				
	Cd	114	106.105				
>	In	115		97.400			
	Sb	121	109.890				
	Sb	123	109.393				
	Ba	135	104.562				
	Ba	137	103.536				
>	Tb	159		96.260			
>	Ho	165		96.247			
	Tl	203	105.972				
	Tl	205	113.079				
	Pb	208	107.004				
	Pb	206	105.815				
	Pb	207	106.182				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, November 22, 2006 10:30:35
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 4.008

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	60.667	6.9	49.334	0.00916	0.004	43.1	ug/L
	Al	27	199524941.009	1.2	2679.805	23018.84915	224.555	1.0	ug/L
>	Sc	45	390067.288	1.2	378193.541				ug/L
	V	51	4595.660	11.8	4537.327	-0.00569	0.037	652.3	ug/L
	Cr	52	25189.955	3.0	15100.490	0.74324	0.037	5.0	ug/L
	Cr	53	6908.278	8.2	618.029	4.00614	0.342	8.5	ug/L
	Mn	55	5426.154	2.7	580.693	0.25941	0.004	1.5	ug/L
	Co	59	1095.750	4.3	202.004	0.05494	0.002	2.9	ug/L
	Ni	60	2573.424	4.6	196.338	0.66212	0.032	4.8	ug/L
	Ni	62	2762.819	2.6	499.020	4.02445	0.094	2.3	ug/L
	Cu	63	9612.639	2.5	505.687	1.08621	0.027	2.5	ug/L
	Cu	65	3778.562	4.3	212.672	0.87324	0.025	2.9	ug/L
	Zn	66	4573.634	1.5	1298.448	1.34734	0.065	4.9	ug/L
	Zn	67	2117.958	7.6	302.342	4.52657	0.322	7.1	ug/L
	Zn	68	2253.327	2.7	996.736	0.69356	0.020	2.8	ug/L
>	Ge	72	212199.225	2.0	197196.226				ug/L
	As	75	1904.571	8.1	96.335	0.68741	0.048	6.9	ug/L
	Se	77	826.708	8.3	202.002	3.13117	0.285	9.1	ug/L
	Se	78	15790.235	3.9	14431.438	0.42235	0.783	185.5	mg/L
	Se	82	662.026	9.9	1747.050	-4.62436	0.292	6.3	ug/L
	Kr	83	643.032	16.0	1793.211				mg/L
	Y	89	375786.210	0.5	365281.373				ug/L
	Mo	95	2617091.150	2.8	120.335	532.22525	12.766	2.4	ug/L
	Mo	97	1337969.140	0.4	52.667	433.22495	14.635	3.4	ug/L
	Mo	98	4123355.117	2.6	70.498	516.42681	10.094	2.0	ug/L
	Rh	103	332711.838	3.1	350376.944				ug/L
	Ag	107	430.015	2.7	46.001	0.03088	0.002	5.9	ug/L
	Ag	109	373.345	4.1	42.334	0.02779	0.002	7.0	ug/L
	Cd	111	205.805	22.7	203.876	0.00331	0.017	510.5	ug/L
	Cd	114	4251.032	2.5	55.152	0.62714	0.036	5.7	ug/L
>	In	115	353212.238	3.6	366049.872				ug/L
	Sb	121	3274.343	1.7	54.667	0.36362	0.017	4.7	ug/L
	Sb	123	2426.185	2.6	37.221	0.36524	0.006	1.5	ug/L
	Ba	135	129.336	10.3	52.001	0.03632	0.006	17.4	ug/L
	Ba	137	189.337	5.4	70.668	0.03288	0.003	7.9	ug/L
>	Tb	159	404898.033	0.5	427712.876				ug/L
>	Ho	165	382936.727	0.6	412683.278				ug/L
	Tl	203	2847.182	2.8	51.667	0.38071	0.011	3.0	ug/L
	Tl	205	6770.820	3.6	75.334	0.39892	0.016	4.1	ug/L
	Pb	208	1562.072	5.1	440.342	0.04893	0.004	7.6	ug/L

Pb	206	413.348	7.3	119.335	0.04945	0.005	10.7	ug/L
Pb	207	348.344	1.4	109.335	0.04802	0.001	2.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	115.094				
>	Sc	45		103.140			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.608			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	133.056				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		96.493			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.666			
>	Ho	165		92.792			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, November 22, 2006 10:36:32
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 5.009

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	60.001	25.2	49.334	0.00517	0.013	249.4	ug/L
	Al	27	197457681.682	2.8	2679.805	21468.83629	1194.371	5.6	ug/L
>	Sc	45	414304.944	2.7	378193.541				ug/L
	V	51	-3236.435	89.5	4537.327	-0.52764	0.193	36.5	ug/L
	Cr	52	299927.685	1.5	15100.490	20.63679	0.415	2.0	ug/L
	Cr	53	40503.335	3.3	618.029	23.95861	0.217	0.9	ug/L
	Mn	55	383095.620	1.7	580.693	19.71324	0.112	0.6	ug/L
	Co	59	327028.994	2.4	202.004	19.50630	0.239	1.2	ug/L
	Ni	60	72450.322	1.0	196.338	19.31656	0.389	2.0	ug/L
	Ni	62	13053.347	1.3	499.020	21.54690	0.429	2.0	ug/L
	Cu	63	162369.575	0.8	505.687	18.48736	0.094	0.5	ug/L
	Cu	65	77080.008	1.7	212.672	18.04202	0.488	2.7	ug/L
	Zn	66	46843.786	1.8	1298.448	18.35116	0.143	0.8	ug/L
	Zn	67	8843.112	1.7	302.342	20.49875	0.492	2.4	ug/L
	Zn	68	31523.166	1.4	996.736	17.03630	0.156	0.9	ug/L
>	Ge	72	222425.433	1.2	197196.226				ug/L
	As	75	54794.790	1.3	96.335	19.92784	0.097	0.5	ug/L
	Se	77	883.914	4.5	202.002	3.21837	0.152	4.7	ug/L
	Se	78	16091.243	2.0	14431.438	-0.28295	0.791	279.7	mg/L
	Se	82	456.546	2.1	1747.050	-5.48789	0.044	0.8	ug/L
	Kr	83	486.019	3.9	1793.211				mg/L
	Y	89	390710.559	1.0	365281.373				ug/L
	Mo	95	2735097.663	1.6	120.335	531.76414	10.415	2.0	ug/L
	Mo	97	1331989.802	2.0	52.667	412.15006	10.124	2.5	ug/L
	Mo	98	4187801.975	2.5	70.498	501.42057	12.254	2.4	ug/L
	Rh	103	338175.985	1.3	350376.944				ug/L
	Ag	107	269289.928	1.3	46.001	20.59412	0.225	1.1	ug/L
	Ag	109	255168.809	4.3	42.334	20.36276	0.814	4.0	ug/L
	Cd	111	60383.298	1.5	203.876	19.76988	0.399	2.0	ug/L
	Cd	114	135311.394	1.4	55.152	19.29838	0.239	1.2	ug/L
>	In	115	369348.607	0.5	366049.872				ug/L
	Sb	121	3081.267	0.6	54.667	0.32630	0.002	0.5	ug/L
	Sb	123	2383.317	1.7	37.221	0.34267	0.005	1.3	ug/L
	Ba	135	126.336	9.5	52.001	0.03505	0.006	16.4	ug/L
	Ba	137	186.004	4.3	70.668	0.03208	0.002	7.6	ug/L
>	Tb	159	404276.959	0.6	427712.876				ug/L
>	Ho	165	386831.109	1.4	412683.278				ug/L
	Tl	203	2752.816	4.7	51.667	0.36429	0.023	6.2	ug/L
	Tl	205	6611.025	5.0	75.334	0.38562	0.025	6.4	ug/L
	Pb	208	1370.057	2.3	440.342	0.04021	0.002	5.2	ug/L

Pb	206	387.346	5.0	119.335	0.04456	0.004	8.0	ug/L
Pb	207	285.008	0.6	109.335	0.03514	0.001	1.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27	107.344				
>	Sc	45		109.548			
	V	51					
	Cr	52	103.184				
	Cr	53	119.793				
	Mn	55	98.566				
	Co	59	97.531				
	Ni	60	96.583				
	Ni	62	107.735				
	Cu	63	92.437				
	Cu	65	90.210				
	Zn	66	91.756				
	Zn	67	102.494				
	Zn	68	85.182				
>	Ge	72		112.794			
	As	75	99.639				
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95	132.941				
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107	102.971				
	Ag	109	101.814				
	Cd	111	98.849				
	Cd	114	96.492				
>	In	115		100.901			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.521			
>	Ho	165		93.736			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 22, 2006 10:42:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 6.010

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	52235.464	2.6	49.334	47.25540	0.367	0.8	ug/L
	Al	27	439042.691	1.0	2679.805	48.72920	1.425	2.9	ug/L
>	Sc	45	402962.522	1.9	378193.541				ug/L
	V	51	792097.773	2.5	4537.327	51.76753	0.807	1.6	ug/L
	Cr	52	678308.182	0.3	15100.490	49.57885	1.013	2.0	ug/L
	Cr	53	82513.741	1.8	618.029	50.64351	1.231	2.4	ug/L
	Mn	55	950082.838	1.4	580.693	52.90666	1.712	3.2	ug/L
	Co	59	795184.456	1.8	202.004	51.27880	0.366	0.7	ug/L
	Ni	60	175809.023	2.6	196.338	50.73294	0.354	0.7	ug/L
	Ni	62	27074.201	2.7	499.020	49.49694	1.451	2.9	ug/L
	Cu	63	417739.902	0.8	505.687	51.51524	0.572	1.1	ug/L
	Cu	65	202984.352	2.8	212.672	51.46345	2.430	4.7	ug/L
	Zn	66	113690.207	1.6	1298.448	49.09440	0.888	1.8	ug/L
	Zn	67	19380.706	1.2	302.342	49.66656	0.408	0.8	ug/L
	Zn	68	82254.879	2.0	996.736	49.18538	0.982	2.0	ug/L
>	Ge	72	205849.394	1.9	197196.226				ug/L
	As	75	126553.787	2.8	96.335	49.78515	0.432	0.9	ug/L
	Se	77	9882.523	0.5	202.002	51.29125	0.778	1.5	ug/L
	Se	78	46215.355	0.4	14431.438	52.22305	1.796	3.4	mg/L
	Se	82	13565.700	0.6	1747.050	46.00161	0.907	2.0	ug/L
	Kr	83	426.015	2.7	1793.211				mg/L
	Y	89	389256.961	1.7	365281.373				ug/L
	Mo	95	277918.503	2.9	120.335	53.37970	0.479	0.9	ug/L
	Mo	97	172421.384	1.3	52.667	52.72540	0.840	1.6	ug/L
	Mo	98	451650.316	2.0	70.498	53.45278	1.049	2.0	ug/L
	Rh	103	335992.710	1.4	350376.944				ug/L
	Ag	107	676069.079	3.1	46.001	51.10786	0.904	1.8	ug/L
	Ag	109	643362.521	3.6	42.334	50.75623	1.491	2.9	ug/L
	Cd	111	150686.673	2.4	203.876	48.86690	1.052	2.2	ug/L
	Cd	114	350598.205	0.7	55.152	49.45642	1.345	2.7	ug/L
>	In	115	373674.648	2.2	366049.872				ug/L
	Sb	121	458531.621	2.2	54.667	48.88452	1.753	3.6	ug/L
	Sb	123	335680.097	2.8	37.221	48.47043	1.243	2.6	ug/L
	Ba	135	115231.890	3.1	52.001	53.06349	1.143	2.2	ug/L
	Ba	137	192356.622	1.5	70.668	52.51419	0.341	0.6	ug/L
>	Tb	159	398218.267	1.5	427712.876				ug/L
>	Ho	165	389816.161	1.3	412683.278				ug/L
	Tl	203	370846.965	2.1	51.667	49.54620	1.374	2.8	ug/L
	Tl	205	880485.604	0.7	75.334	51.49074	0.967	1.9	ug/L
	Pb	208	1198294.958	0.5	440.342	49.91613	0.890	1.8	ug/L

Pb	206	313603.564	1.6	119.335	50.30346	0.691	1.4	ug/L
Pb	207	255999.856	1.1	109.335	48.89472	0.956	2.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	94.511				
	Al	27	97.458				
>	Sc	45		106.549			
	V	51	103.535				
	Cr	52	99.158				
	Cr	53	101.287				
	Mn	55	105.813				
	Co	59	102.558				
	Ni	60	101.466				
	Ni	62	98.994				
	Cu	63	103.030				
	Cu	65	102.927				
	Zn	66	98.189				
	Zn	67	99.333				
	Zn	68	98.371				
>	Ge	72		104.388			
	As	75	99.570				
	Se	77	102.583				
	Se	78	104.446				
	Se	82	92.003				
	Kr	83					
	Y	89					
	Mo	95	106.759				
	Mo	97	105.451				
	Mo	98	106.906				
	Rh	103					
	Ag	107	102.216				
	Ag	109	101.512				
	Cd	111	97.734				
	Cd	114	98.913				
>	In	115		102.083			
	Sb	121	97.769				
	Sb	123	96.941				
	Ba	135	106.127				
	Ba	137	105.028				
>	Tb	159		93.104			
>	Ho	165		94.459			
	Tl	203	99.092				
	Tl	205	102.981				
	Pb	208	99.832				
	Pb	206	100.607				
	Pb	207	97.789				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 22, 2006 10:48:28
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 7.011

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	48.001	11.6	49.334	-0.00442	0.004	101.6	ug/L
	Al	27	2645.113	1.9	2679.805	-0.02505	0.009	37.9	ug/L
>	Sc	45	405258.918	1.7	378193.541				ug/L
	V	51	4157.819	3.6	4537.327	-0.04588	0.015	31.6	ug/L
	Cr	52	14843.359	1.9	15100.490	-0.09913	0.040	39.9	ug/L
	Cr	53	1455.475	7.5	618.029	0.48731	0.052	10.7	ug/L
	Mn	55	573.359	4.8	580.693	-0.00280	0.002	55.2	ug/L
	Co	59	236.672	1.9	202.004	0.00120	0.000	39.4	ug/L
	Ni	60	152.670	5.3	196.338	-0.01642	0.003	17.1	ug/L
	Ni	62	699.703	2.4	499.020	0.29397	0.047	15.8	ug/L
	Cu	63	620.029	0.4	505.687	0.00906	0.001	13.1	ug/L
	Cu	65	167.670	9.7	212.672	-0.01504	0.005	30.1	ug/L
	Zn	66	1300.114	1.9	1298.448	-0.04139	0.012	29.5	ug/L
	Zn	67	336.010	4.9	302.342	0.02650	0.040	149.1	ug/L
	Zn	68	941.729	1.9	996.736	-0.07705	0.014	18.4	ug/L
>	Ge	72	212306.152	1.3	197196.226				ug/L
	As	75	213.672	17.4	96.335	0.04186	0.013	31.1	ug/L
	Se	77	253.804	1.7	202.002	0.18709	0.040	21.2	ug/L
	Se	78	15608.107	0.2	14431.438	0.11771	0.291	246.9	mg/L
	Se	82	454.546	0.4	1747.050	-5.41668	0.018	0.3	ug/L
	Kr	83	449.017	5.4	1793.211				mg/L
	Y	89	397332.991	1.3	365281.373				ug/L
	Mo	95	1075.749	20.0	120.335	0.18300	0.040	21.6	ug/L
	Mo	97	649.032	12.5	52.667	0.18208	0.023	12.9	ug/L
	Mo	98	1604.559	17.7	70.498	0.18134	0.032	17.8	ug/L
	Rh	103	348834.904	0.9	350376.944				ug/L
	Ag	107	137.669	10.3	46.001	0.00686	0.001	13.5	ug/L
	Ag	109	114.335	15.9	42.334	0.00560	0.001	23.2	ug/L
	Cd	111	197.300	4.1	203.876	-0.00345	0.003	84.9	ug/L
	Cd	114	60.432	21.5	55.152	0.00057	0.002	297.6	ug/L
>	In	115	373410.027	1.6	366049.872				ug/L
	Sb	121	1047.745	18.5	54.667	0.10575	0.020	19.2	ug/L
	Sb	123	743.481	20.5	37.221	0.10181	0.021	20.8	ug/L
	Ba	135	46.001	15.2	52.001	-0.00172	0.003	185.4	ug/L
	Ba	137	59.667	15.6	70.668	-0.00215	0.002	111.1	ug/L
>	Tb	159	410122.851	0.5	427712.876				ug/L
>	Ho	165	396333.844	0.8	412683.278				ug/L
	Tl	203	210.005	16.9	51.667	0.02108	0.005	22.5	ug/L
	Tl	205	480.686	15.4	75.334	0.02350	0.004	18.7	ug/L
	Pb	208	317.672	5.9	440.342	-0.00431	0.001	19.2	ug/L

Pb	206	84.335	9.0	119.335	-0.00478	0.001	25.8	ug/L
Pb	207	82.335	17.2	109.335	-0.00427	0.003	60.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		107.156			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.662			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.011			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.887			
>	Ho	165		96.038			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, November 22, 2006 10:54:25
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 8.012

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	106425.737	1.3	49.334	102.26469	2.830	2.8	ug/L
	Al	27	863869.763	2.3	2679.805	102.05638	1.556	1.5	ug/L
>	Sc	45	379722.589	1.5	378193.541				ug/L
	V	51	1494297.421	2.4	4537.327	103.96020	2.157	2.1	ug/L
	Cr	52	1306524.292	2.7	15100.490	102.56037	1.376	1.3	ug/L
	Cr	53	158280.847	3.1	618.029	103.48023	1.978	1.9	ug/L
	Mn	55	1752852.262	1.6	580.693	102.10738	0.419	0.4	ug/L
	Co	59	1512079.702	0.8	202.004	102.04307	2.180	2.1	ug/L
	Ni	60	348867.798	0.7	196.338	105.40629	1.422	1.3	ug/L
	Ni	62	52702.395	2.6	499.020	101.77672	0.718	0.7	ug/L
	Cu	63	795062.763	1.6	505.687	102.65301	3.033	3.0	ug/L
	Cu	65	395595.874	2.4	212.672	104.91341	0.504	0.5	ug/L
	Zn	66	222039.285	2.2	1298.448	100.91857	1.904	1.9	ug/L
	Zn	67	37703.146	0.9	302.342	101.95343	2.713	2.7	ug/L
	Zn	68	163589.701	3.1	996.736	102.98649	1.254	1.2	ug/L
>	Ge	72	196770.850	1.9	197196.226				ug/L
	As	75	254202.937	2.7	96.335	104.68859	3.161	3.0	ug/L
	Se	77	18698.822	0.5	202.002	102.62451	1.823	1.8	ug/L
	Se	78	76477.073	1.0	14431.438	108.84904	2.370	2.2	mg/L
	Se	82	26177.119	0.8	1747.050	100.13338	1.369	1.4	ug/L
	Kr	83	476.018	2.8	1793.211				mg/L
	Y	89	367481.489	1.3	365281.373				ug/L
	Mo	95	535453.837	0.4	120.335	107.51704	1.995	1.9	ug/L
	Mo	97	340930.500	2.3	52.667	108.92576	0.937	0.9	ug/L
	Mo	98	824255.800	1.2	70.498	101.93478	1.573	1.5	ug/L
	Rh	103	335088.700	3.6	350376.944				ug/L
	Ag	107	1309470.693	2.0	46.001	103.44351	1.187	1.1	ug/L
	Ag	109	1223859.569	2.2	42.334	100.88527	0.721	0.7	ug/L
	Cd	111	304721.387	2.3	203.876	103.35956	3.941	3.8	ug/L
	Cd	114	666638.955	1.2	55.152	98.23888	1.138	1.2	ug/L
>	In	115	357640.334	2.2	366049.872				ug/L
	Sb	121	885316.961	1.3	54.667	98.59500	1.124	1.1	ug/L
	Sb	123	674992.378	1.2	37.221	101.85757	2.284	2.2	ug/L
	Ba	135	216161.880	1.5	52.001	98.79638	1.391	1.4	ug/L
	Ba	137	375167.526	1.2	70.668	101.64850	1.784	1.8	ug/L
>	Tb	159	401359.979	1.5	427712.876				ug/L
>	Ho	165	383376.723	2.3	412683.278				ug/L
	Tl	203	738559.049	0.5	51.667	100.34781	1.756	1.8	ug/L
	Tl	205	1635062.346	2.0	75.334	97.21779	0.506	0.5	ug/L
	Pb	208	2307453.978	1.3	440.342	97.74996	0.967	1.0	ug/L

Pb	206	604871.126	1.0	119.335	98.68892	1.417	1.4	ug/L
Pb	207	516314.778	0.9	109.335	100.29741	1.367	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	102.265				
	Al	27	102.056				
>	Sc	45		100.404			
	V	51	103.960				
	Cr	52	102.560				
	Cr	53	103.480				
	Mn	55	102.107				
	Co	59	102.043				
	Ni	60	105.406				
	Ni	62	101.777				
	Cu	63	102.653				
	Cu	65	104.913				
	Zn	66	100.919				
	Zn	67	101.953				
	Zn	68	102.986				
>	Ge	72		99.784			
	As	75	104.689				
	Se	77	102.625				
	Se	78					
	Se	82	100.133				
	Kr	83					
	Y	89					
	Mo	95	107.517				
	Mo	97	108.926				
	Mo	98	101.935				
	Rh	103					
	Ag	107	103.444				
	Ag	109	100.885				
	Cd	111	103.360				
	Cd	114	98.239				
>	In	115		97.703			
	Sb	121	98.595				
	Sb	123	101.858				
	Ba	135	98.796				
	Ba	137	101.648				
>	Tb	159		93.839			
>	Ho	165		92.899			
	Tl	203	100.348				
	Tl	205	97.218				
	Pb	208	97.750				
	Pb	206	98.689				
	Pb	207	100.297				

Elan 9000 Method 6020 - Summary Report

Sample ID: PBW-M3990146

Sample Date/Time: Wednesday, November 22, 2006 11:00:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\PBW-M3990146.013

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	48.334	11.8	49.334	-0.00143	0.006	403.0	ug/L
	Al	27	957742.266	1.6	2679.805	112.42740	2.750	2.4	ug/L
>	Sc	45	382356.092	1.9	378193.541				ug/L
	V	51	5192.642	5.0	4537.327	0.04227	0.025	58.8	ug/L
	Cr	52	18056.406	3.7	15100.490	0.22105	0.080	36.1	ug/L
	Cr	53	1233.770	4.1	618.029	0.39676	0.018	4.5	ug/L
	Mn	55	1212.434	2.8	580.693	0.03584	0.001	3.1	ug/L
	Co	59	373.345	6.4	202.004	0.01122	0.001	12.4	ug/L
	Ni	60	294.675	4.1	196.338	0.02856	0.004	13.0	ug/L
	Ni	62	754.375	4.7	499.020	0.47815	0.053	11.0	ug/L
	Cu	63	840.717	1.9	505.687	0.04186	0.003	8.1	ug/L
	Cu	65	287.008	2.9	212.672	0.01873	0.001	7.7	ug/L
	Zn	66	1876.563	1.5	1298.448	0.25305	0.009	3.6	ug/L
	Zn	67	412.348	8.0	302.342	0.28550	0.094	32.9	ug/L
	Zn	68	1380.128	4.4	996.736	0.23191	0.049	21.2	ug/L
>	Ge	72	199688.805	1.4	197196.226				ug/L
	As	75	181.337	10.4	96.335	0.03397	0.007	20.5	ug/L
	Se	77	241.137	4.1	202.002	0.19984	0.047	23.7	ug/L
	Se	78	15750.944	1.2	14431.438	1.97037	0.678	34.4	mg/L
	Se	82	466.213	5.5	1747.050	-5.26111	0.086	1.6	ug/L
	Kr	83	452.350	7.0	1793.211				mg/L
	Y	89	383625.354	1.2	365281.373				ug/L
	Mo	95	1698.869	32.7	120.335	0.31460	0.109	34.7	ug/L
	Mo	97	1054.749	32.9	52.667	0.31773	0.109	34.3	ug/L
	Mo	98	2665.032	39.6	70.498	0.31817	0.128	40.3	ug/L
	Rh	103	341273.056	2.1	350376.944				ug/L
	Ag	107	170.003	5.4	46.001	0.00977	0.001	7.3	ug/L
	Ag	109	147.336	13.8	42.334	0.00864	0.002	19.7	ug/L
	Cd	111	213.219	8.0	203.876	0.00419	0.006	133.4	ug/L
	Cd	114	63.888	71.7	55.152	0.00139	0.007	480.4	ug/L
>	In	115	360459.450	0.3	366049.872				ug/L
	Sb	121	1511.155	18.0	54.667	0.16096	0.029	18.3	ug/L
	Sb	123	1095.561	23.0	37.221	0.15843	0.037	23.5	ug/L
	Ba	135	85.668	21.3	52.001	0.01595	0.008	52.2	ug/L
	Ba	137	125.002	12.5	70.668	0.01511	0.004	28.7	ug/L
>	Tb	159	411168.588	0.6	427712.876				ug/L
>	Ho	165	384336.230	1.1	412683.278				ug/L
	Tl	203	88.335	13.6	51.667	0.00546	0.002	31.6	ug/L
	Tl	205	140.336	5.1	75.334	0.00416	0.000	7.8	ug/L
	Pb	208	613.348	5.1	440.342	0.00859	0.001	16.2	ug/L

Pb	206	162.670	4.4	119.335	0.00839	0.001	14.5	ug/L
Pb	207	136.336	10.7	109.335	0.00669	0.003	43.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.101			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.264			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		98.473			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.132			
>	Ho	165		93.131			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: LCSW-M3990146

Sample Date/Time: Wednesday, November 22, 2006 11:06:20
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\LCSW-M3990146.014

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	20648.759	1.1	49.334	17.60836	0.602	3.4	ug/L
	Al	27	207864.175	1.3	2679.805	21.60126	0.906	4.2	ug/L
>	Sc	45	427087.662	3.1	378193.541				ug/L
	V	51	351489.467	0.6	4537.327	21.50557	0.787	3.7	ug/L
	Cr	52	318415.288	2.4	15100.490	21.29940	0.990	4.6	ug/L
	Cr	53	38060.435	0.9	618.029	21.81563	0.484	2.2	ug/L
	Mn	55	416311.532	2.1	580.693	21.74614	0.655	3.0	ug/L
	Co	59	361640.776	2.1	202.004	21.89036	0.214	1.0	ug/L
	Ni	60	77862.526	0.9	196.338	21.06941	0.354	1.7	ug/L
	Ni	62	12132.949	1.6	499.020	20.26440	0.169	0.8	ug/L
	Cu	63	184238.152	2.2	505.687	21.29496	0.404	1.9	ug/L
	Cu	65	87476.957	0.8	212.672	20.78332	0.303	1.5	ug/L
	Zn	66	44386.016	1.3	1298.448	17.62208	0.154	0.9	ug/L
	Zn	67	7939.529	2.9	302.342	18.59743	0.394	2.1	ug/L
	Zn	68	32048.509	1.9	996.736	17.59888	0.540	3.1	ug/L
>	Ge	72	219200.576	1.1	197196.226				ug/L
	As	75	49057.799	0.2	96.335	18.10203	0.239	1.3	ug/L
	Se	77	3524.278	0.6	202.002	16.43101	0.095	0.6	ug/L
	Se	78	27432.637	2.5	14431.438	17.92092	0.604	3.4	mg/L
	Se	82	5098.893	1.0	1747.050	11.61246	0.182	1.6	ug/L
	Kr	83	474.352	1.8	1793.211				mg/L
	Y	89	418229.724	2.6	365281.373				ug/L
	Mo	95	123998.044	2.7	120.335	23.01321	0.408	1.8	ug/L
	Mo	97	76902.314	0.5	52.667	22.72996	0.660	2.9	ug/L
	Mo	98	202250.822	1.4	70.498	23.14089	0.702	3.0	ug/L
	Rh	103	361387.929	2.3	350376.944				ug/L
	Ag	107	301016.693	4.1	46.001	21.98964	0.304	1.4	ug/L
	Ag	109	290355.202	1.7	42.334	22.14483	0.256	1.2	ug/L
	Cd	111	64474.139	2.3	203.876	20.17317	0.410	2.0	ug/L
	Cd	114	144539.099	2.6	55.152	19.69710	0.045	0.2	ug/L
>	In	115	386572.405	2.8	366049.872				ug/L
	Sb	121	196087.910	0.8	54.667	20.20951	0.744	3.7	ug/L
	Sb	123	144888.688	1.2	37.221	20.22622	0.513	2.5	ug/L
	Ba	135	49571.171	1.0	52.001	21.71871	0.653	3.0	ug/L
	Ba	137	84276.897	1.3	70.668	21.89199	0.728	3.3	ug/L
>	Tb	159	418501.762	2.1	427712.876				ug/L
>	Ho	165	411248.539	1.1	412683.278				ug/L
	Tl	203	160560.019	0.9	51.667	20.32627	0.030	0.1	ug/L
	Tl	205	378012.691	0.6	75.334	20.94958	0.223	1.1	ug/L
	Pb	208	517543.004	1.2	440.342	20.42220	0.192	0.9	ug/L

Pb	206	132891.350	2.6	119.335	20.19269	0.401	2.0	ug/L
Pb	207	109371.600	1.7	109.335	19.78541	0.135	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		112.928			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		111.159			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.606			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.846			
>	Ho	165		99.652			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030

Sample Date/Time: Wednesday, November 22, 2006 11:12:18
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030.015

rpt. MS & 7120°C

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	75.668	3.1	49.334	0.00616	0.001	11.4	ug/L
	Al	27	1756925.626	10.4	2679.805	153.46935	13.079	8.5	ug/L
>	Sc	45	513615.422	2.5	378193.541				ug/L
	V	51	12481.211	16.2	4537.327	0.32797	0.120	36.6	ug/L
	Cr	52	149681.011	3.8	15100.490	7.58967	0.416	5.5	ug/L
	Cr	53	16423.001	1.6	618.029	7.56438	0.123	1.6	ug/L
	Mn	55	323899.876	0.3	580.693	15.94752	0.251	1.6	ug/L
	Co	59	9036.654	0.7	202.004	0.50274	0.009	1.8	ug/L
	Ni	60	28402.301	3.1	196.338	7.21095	0.288	4.0	ug/L
	Ni	62	4383.530	0.9	499.020	6.26612	0.113	1.8	ug/L
	Cu	63	8810.744	1.6	505.687	0.89832	0.016	1.8	ug/L
	Cu	65	4070.037	5.8	212.672	0.85829	0.057	6.6	ug/L
	Zn	66	7648.919	1.4	1298.448	2.36815	0.022	0.9	ug/L
	Zn	67	1450.808	7.1	302.342	2.52707	0.274	10.8	ug/L
	Zn	68	7285.592	3.7	996.736	3.27896	0.188	5.7	ug/L
>	Ge	72	232415.227	1.6	197196.226				ug/L
	As	75	732.706	4.2	96.335	0.21602	0.013	6.0	ug/L
	Se	77	350.674	4.3	202.002	0.52863	0.062	11.8	ug/L
	Se	78	18044.872	2.2	14431.438	1.54524	0.883	57.2	mg/L
	Se	82	581.354	4.7	1747.050	-5.12598	0.100	2.0	ug/L
	Kr	83	455.017	2.0	1793.211				mg/L
	Y	89	465568.099	1.2	365281.373				ug/L
	Mo	95	1415.468	2.6	120.335	0.23161	0.012	5.1	ug/L
	Mo	97	918.727	2.1	52.667	0.24704	0.004	1.7	ug/L
	Mo	98	2219.482	3.1	70.498	0.23789	0.010	4.4	ug/L
	Rh	103	379229.607	1.7	350376.944				ug/L
	Ag	107	126.002	5.2	46.001	0.00538	0.000	6.7	ug/L
	Ag	109	98.668	5.8	42.334	0.00389	0.000	8.7	ug/L
	Cd	111	290.486	7.3	203.876	0.02084	0.006	27.0	ug/L
	Cd	114	180.266	28.3	55.152	0.01601	0.007	45.8	ug/L
>	In	115	398521.501	2.3	366049.872				ug/L
	Sb	121	573.692	13.1	54.667	0.05146	0.008	15.8	ug/L
	Sb	123	449.558	12.7	37.221	0.05544	0.008	14.7	ug/L
	Ba	135	22700.771	0.5	52.001	9.58490	0.122	1.3	ug/L
	Ba	137	38157.206	0.2	70.668	9.55372	0.089	0.9	ug/L
>	Tb	159	433551.051	0.8	427712.876				ug/L
>	Ho	165	409641.075	2.3	412683.278				ug/L
	Tl	203	172.337	6.5	51.667	0.01541	0.002	11.0	ug/L
	Tl	205	401.014	7.0	75.334	0.01814	0.001	7.0	ug/L
	Pb	208	8918.297	1.2	440.342	0.33641	0.011	3.1	ug/L

Pb	206	2267.998	2.5	119.335	0.32832	0.011	3.4	ug/L
Pb	207	1912.572	2.0	109.335	0.32820	0.015	4.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		135.808			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		117.860			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.871			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		101.365			
>	Ho	165		99.263			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030D

Sample Date/Time: Wednesday, November 22, 2006 11:18:15
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030D.016

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	77.001	11.9	49.334	0.00727	0.006	87.8	ug/L
	Al	27	2109297.952	13.9	2679.805	185.43952	29.357	15.8	ug/L
>	Sc	45	512142.668	3.6	378193.541				ug/L
	V	51	13065.603	6.9	4537.327	0.35904	0.060	16.6	ug/L
	Cr	52	175853.172	1.7	15100.490	9.15905	0.330	3.6	ug/L
	Cr	53	20165.581	2.4	618.029	9.41508	0.407	4.3	ug/L
	Mn	55	336713.844	3.4	580.693	16.28224	0.535	3.3	ug/L
	Co	59	9789.845	1.0	202.004	0.53578	0.006	1.2	ug/L
	Ni	60	31564.806	6.3	196.338	7.87496	0.494	6.3	ug/L
	Ni	62	4879.811	3.2	499.020	6.94145	0.244	3.5	ug/L
	Cu	63	9385.377	1.3	505.687	0.94291	0.014	1.5	ug/L
	Cu	65	4363.186	3.4	212.672	0.90656	0.032	3.5	ug/L
	Zn	66	7947.201	0.5	1298.448	2.42898	0.012	0.5	ug/L
	Zn	67	1509.485	4.1	302.342	2.59881	0.144	5.6	ug/L
	Zn	68	7587.529	0.4	996.736	3.36726	0.011	0.3	ug/L
>	Ge	72	236607.986	0.2	197196.226				ug/L
	As	75	796.713	2.6	96.335	0.23333	0.007	3.1	ug/L
	Se	77	358.141	5.0	202.002	0.53396	0.080	15.1	ug/L
	Se	78	18426.751	2.1	14431.438	1.62008	0.592	36.5	mg/L
	Se	82	589.688	2.3	1747.050	-5.13358	0.049	1.0	ug/L
	Kr	83	453.684	4.7	1793.211				mg/L
	Y	89	477082.212	1.6	365281.373				ug/L
	Mo	95	1457.142	4.0	120.335	0.24164	0.011	4.6	ug/L
	Mo	97	926.394	3.1	52.667	0.25189	0.007	2.9	ug/L
	Mo	98	2297.098	3.5	70.498	0.24898	0.009	3.6	ug/L
	Rh	103	375813.655	2.4	350376.944				ug/L
	Ag	107	106.668	8.4	46.001	0.00409	0.001	15.6	ug/L
	Ag	109	81.335	14.2	42.334	0.00267	0.001	33.1	ug/L
	Cd	111	294.265	10.9	203.876	0.02291	0.010	42.1	ug/L
	Cd	114	285.672	36.0	55.152	0.03026	0.014	45.9	ug/L
>	In	115	394512.198	0.4	366049.872				ug/L
	Sb	121	409.014	7.8	54.667	0.03535	0.003	9.6	ug/L
	Sb	123	326.412	2.6	37.221	0.03916	0.001	3.4	ug/L
	Ba	135	23335.865	1.3	52.001	10.09574	0.130	1.3	ug/L
	Ba	137	39790.168	0.6	70.668	10.20819	0.060	0.6	ug/L
>	Tb	159	423150.155	0.1	427712.876				ug/L
>	Ho	165	405326.439	1.4	412683.278				ug/L
	Tl	203	202.004	9.0	51.667	0.01942	0.002	10.7	ug/L
	Tl	205	439.683	6.8	75.334	0.02055	0.001	6.7	ug/L
	Pb	208	8724.870	0.9	440.342	0.33229	0.002	0.7	ug/L

Pb	206	2270.666	4.4	119.335	0.33225	0.012	3.6	ug/L
Pb	207	1861.560	0.8	109.335	0.32232	0.002	0.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		135.418			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		119.986			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		107.776			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.933			
>	Ho	165		98.217			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030S

Sample Date/Time: Wednesday, November 22, 2006 11:24:12
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030S.017

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	22814.083	1.0	49.334	15.98922	0.501	3.1	ug/L
	Al	27	2771039.207	1.0	2679.805	239.81352	4.099	1.7	ug/L
>	Sc	45	519404.522	2.1	378193.541				ug/L
	V	51	389604.799	3.4	4537.327	19.55626	0.434	2.2	ug/L
	Cr	52	490864.798	2.6	15100.490	27.30001	0.474	1.7	ug/L
	Cr	53	57105.573	0.9	618.029	27.00612	0.656	2.4	ug/L
	Mn	55	777353.628	0.3	580.693	37.25798	0.437	1.2	ug/L
	Co	59	381067.803	0.4	202.004	21.15663	0.293	1.4	ug/L
	Ni	60	109081.099	1.2	196.338	27.08731	0.594	2.2	ug/L
	Ni	62	16883.591	1.7	499.020	26.13598	0.830	3.2	ug/L
	Cu	63	204554.289	1.7	505.687	21.68942	0.679	3.1	ug/L
	Cu	65	96986.891	1.9	212.672	21.13135	0.381	1.8	ug/L
	Zn	66	52423.947	2.0	1298.448	19.13839	0.481	2.5	ug/L
	Zn	67	9285.597	0.7	302.342	20.00942	0.168	0.8	ug/L
	Zn	68	40598.440	2.7	996.736	20.54091	0.428	2.1	ug/L
>	Ge	72	239028.396	1.4	197196.226				ug/L
	As	75	56572.964	1.3	96.335	19.14838	0.497	2.6	ug/L
	Se	77	4177.647	1.0	202.002	17.95945	0.202	1.1	ug/L
	Se	78	30113.531	2.7	14431.438	18.22976	1.781	9.8	mg/L
	Se	82	5701.150	0.9	1747.050	12.09142	0.433	3.6	ug/L
	Kr	83	333.010	4.1	1793.211				mg/L
	Y	89	489358.465	2.0	365281.373				ug/L
	Mo	95	135729.781	0.4	120.335	24.19657	0.545	2.3	ug/L
	Mo	97	84221.108	2.3	52.667	23.91054	1.136	4.8	ug/L
	Mo	98	222491.113	1.4	70.498	24.43981	0.475	1.9	ug/L
	Rh	103	377551.911	0.7	350376.944				ug/L
	Ag	107	300018.865	1.5	46.001	21.05642	0.401	1.9	ug/L
	Ag	109	288959.291	2.0	42.334	21.16084	0.285	1.3	ug/L
	Cd	111	65408.682	2.0	203.876	19.65832	0.793	4.0	ug/L
	Cd	114	147655.962	1.3	55.152	19.32902	0.527	2.7	ug/L
>	In	115	402560.417	2.4	366049.872				ug/L
	Sb	121	197261.717	0.3	54.667	19.51685	0.474	2.4	ug/L
	Sb	123	146165.047	1.8	37.221	19.58914	0.340	1.7	ug/L
	Ba	135	74127.994	0.9	52.001	32.12390	0.131	0.4	ug/L
	Ba	137	124025.015	0.2	70.668	31.86328	0.203	0.6	ug/L
>	Tb	159	423073.670	0.6	427712.876				ug/L
>	Ho	165	413737.762	0.4	412683.278				ug/L
	Tl	203	161912.458	0.7	51.667	20.37392	0.100	0.5	ug/L
	Tl	205	384971.247	1.6	75.334	21.20500	0.263	1.2	ug/L
	Pb	208	527103.753	1.2	440.342	20.67506	0.335	1.6	ug/L

Pb	206	136510.344	2.0	119.335	20.62079	0.501	2.4	ug/L
Pb	207	110442.514	1.0	109.335	19.86002	0.214	1.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		137.338			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		121.213			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		109.974			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.915			
>	Ho	165		100.256			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030A

Sample Date/Time: Wednesday, November 22, 2006 11:30:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030A.018

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	24110.741	1.4	49.334	16.37068	0.225	1.4	ug/L
	Al	27	2164969.443	11.7	2679.805	181.58875	22.834	12.6	ug/L
>	Sc	45	535964.532	1.3	378193.541				ug/L
	V	51	428136.104	6.2	4537.327	20.84948	1.291	6.2	ug/L
	Cr	52	523343.827	10.7	15100.490	28.26499	3.359	11.9	ug/L
	Cr	53	57276.093	1.5	618.029	26.23451	0.637	2.4	ug/L
	Mn	55	792960.588	2.4	580.693	36.99686	0.734	2.0	ug/L
	Co	59	412459.002	0.5	202.004	22.30410	0.860	3.9	ug/L
	Ni	60	127456.900	18.0	196.338	30.95682	6.706	21.7	ug/L
	Ni	62	17177.546	4.3	499.020	25.85713	0.338	1.3	ug/L
	Cu	63	210445.630	2.9	505.687	21.72665	0.931	4.3	ug/L
	Cu	65	99183.117	3.2	212.672	21.05006	1.075	5.1	ug/L
	Zn	66	54311.754	3.4	1298.448	19.29938	0.022	0.1	ug/L
	Zn	67	9340.327	2.3	302.342	19.59220	1.054	5.4	ug/L
	Zn	68	39524.923	1.7	996.736	19.43897	0.401	2.1	ug/L
>	Ge	72	245604.607	3.5	197196.226				ug/L
	As	75	60034.148	2.4	96.335	19.77898	0.361	1.8	ug/L
	Se	77	4356.138	0.7	202.002	18.25346	0.564	3.1	ug/L
	Se	78	31794.979	1.8	14431.438	19.46237	2.256	11.6	mg/L
	Se	82	6008.833	1.4	1747.050	12.59245	0.437	3.5	ug/L
	Kr	83	293.008	7.1	1793.211				mg/L
	Y	89	489749.251	1.8	365281.373				ug/L
	Mo	95	144966.386	1.7	120.335	25.12773	0.230	0.9	ug/L
	Mo	97	88025.378	1.1	52.667	24.29310	0.530	2.2	ug/L
	Mo	98	229659.890	1.2	70.498	24.53492	0.533	2.2	ug/L
	Rh	103	379125.943	1.7	350376.944				ug/L
	Ag	107	112.002	8.5	46.001	0.00410	0.001	17.1	ug/L
	Ag	109	91.668	14.0	42.334	0.00311	0.001	26.8	ug/L
	Cd	111	67695.864	1.1	203.876	19.77876	0.200	1.0	ug/L
	Cd	114	149327.062	1.2	55.152	19.00713	0.274	1.4	ug/L
>	In	115	413889.096	1.4	366049.872				ug/L
	Sb	121	206533.716	1.3	54.667	19.87248	0.546	2.7	ug/L
	Sb	123	154628.048	1.3	37.221	20.15412	0.287	1.4	ug/L
	Ba	135	23073.799	0.9	52.001	9.94695	0.196	2.0	ug/L
	Ba	137	39653.195	1.5	70.668	10.13583	0.125	1.2	ug/L
>	Tb	159	424707.050	1.2	427712.876				ug/L
>	Ho	165	417084.035	1.2	412683.278				ug/L
	Tl	203	168965.989	1.4	51.667	21.09541	0.538	2.5	ug/L
	Tl	205	394969.787	1.4	75.334	21.58145	0.065	0.3	ug/L
	Pb	208	547323.270	1.0	440.342	21.29807	0.387	1.8	ug/L

Pb	206	143259.098	1.2	119.335	21.47006	0.515	2.4	ug/L
Pb	207	117032.048	1.7	109.335	20.88169	0.609	2.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		141.717			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		124.548			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		113.069			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.297			
>	Ho	165		101.066			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030L

Sample Date/Time: Wednesday, November 22, 2006 11:36:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030L.019

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	59.667	10.9	49.334	0.00339	0.005	154.5	ug/L
	Al	27	327550.929	1.6	2679.805	34.21710	0.334	1.0	ug/L
>	Sc	45	426784.659	0.7	378193.541				ug/L
	V	51	6047.850	4.4	4537.327	0.05767	0.019	33.0	ug/L
	Cr	52	39870.550	0.2	15100.490	1.61348	0.017	1.0	ug/L
	Cr	53	3748.214	1.7	618.029	1.78189	0.043	2.4	ug/L
	Mn	55	62912.424	3.7	580.693	3.12507	0.058	1.9	ug/L
	Co	59	1875.563	0.5	202.004	0.09551	0.002	2.6	ug/L
	Ni	60	5552.240	4.4	196.338	1.38815	0.086	6.2	ug/L
	Ni	62	1134.755	1.8	499.020	0.93636	0.041	4.4	ug/L
	Cu	63	2041.270	1.1	505.687	0.16214	0.007	4.1	ug/L
	Cu	65	982.401	0.6	212.672	0.16843	0.005	2.7	ug/L
	Zn	66	1961.917	3.1	1298.448	0.18059	0.009	5.0	ug/L
	Zn	67	412.014	1.5	302.342	0.14574	0.020	13.6	ug/L
	Zn	68	1736.532	2.2	996.736	0.31808	0.013	3.9	ug/L
>	Ge	72	228303.376	1.9	197196.226				ug/L
	As	75	244.006	9.8	96.335	0.04702	0.008	17.4	ug/L
	Se	77	246.670	4.7	202.002	0.06214	0.076	122.3	ug/L
	Se	78	16867.502	2.0	14431.438	0.25199	0.933	370.1	mg/L
	Se	82	324.206	2.0	1747.050	-5.99766	0.039	0.6	ug/L
	Kr	83	287.008	2.1	1793.211				mg/L
	Y	89	425580.130	2.0	365281.373				ug/L
	Mo	95	369.679	6.1	120.335	0.04424	0.004	9.0	ug/L
	Mo	97	235.339	9.4	52.667	0.05228	0.006	11.7	ug/L
	Mo	98	514.444	2.8	70.498	0.04964	0.002	3.8	ug/L
	Rh	103	364966.324	1.1	350376.944				ug/L
	Ag	107	69.001	1.4	46.001	0.00143	0.000	4.1	ug/L
	Ag	109	44.334	18.9	42.334	-0.00007	0.001	874.7	ug/L
	Cd	111	231.963	10.2	203.876	0.00434	0.007	161.7	ug/L
	Cd	114	67.320	36.5	55.152	0.00113	0.003	292.3	ug/L
>	In	115	391239.211	0.6	366049.872				ug/L
	Sb	121	406.347	10.5	54.667	0.03541	0.004	11.9	ug/L
	Sb	123	313.908	14.8	37.221	0.03779	0.006	16.6	ug/L
	Ba	135	4507.598	2.7	52.001	1.97166	0.066	3.3	ug/L
	Ba	137	7637.575	1.1	70.668	1.98445	0.031	1.6	ug/L
>	Tb	159	414819.345	0.9	427712.876				ug/L
>	Ho	165	401402.851	0.5	412683.278				ug/L
	Tl	203	82.668	6.7	51.667	0.00420	0.001	16.3	ug/L
	Tl	205	147.003	16.1	75.334	0.00419	0.001	33.0	ug/L
	Pb	208	1960.110	2.2	440.342	0.06199	0.002	3.5	ug/L

Pb	206	524.688	2.6	119.335	0.06368	0.002	3.9	ug/L
Pb	207	407.014	6.0	109.335	0.05580	0.005	8.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		112.848			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		115.775			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.881			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.985			
>	Ho	165		97.267			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950031

Sample Date/Time: Wednesday, November 22, 2006 11:42:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950031.020

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	110.002	13.4	49.334	0.03102	0.010	32.5	ug/L
	Al	27	7093123.747	2.2	2679.805	625.26267	17.593	2.8	ug/L
>	Sc	45	510300.575	0.6	378193.541				ug/L
	V	51	34757.733	47.1	4537.327	1.49025	0.862	57.9	ug/L
	Cr	52	560716.587	6.5	15100.490	31.94678	2.374	7.4	ug/L
	Cr	53	63587.054	2.2	618.029	30.65229	0.655	2.1	ug/L
	Mn	55	857929.000	1.3	580.693	40.93355	0.629	1.5	ug/L
	Co	59	31685.775	0.4	202.004	1.73852	0.010	0.6	ug/L
	Ni	60	90429.577	0.5	196.338	22.34020	0.212	0.9	ug/L
	Ni	62	12300.862	0.5	499.020	18.68446	0.278	1.5	ug/L
	Cu	63	28686.914	0.9	505.687	2.97117	0.046	1.5	ug/L
	Cu	65	13571.847	1.8	212.672	2.89477	0.030	1.0	ug/L
	Zn	66	13350.491	2.6	1298.448	4.40871	0.113	2.6	ug/L
	Zn	67	2682.458	0.5	302.342	5.16842	0.081	1.6	ug/L
	Zn	68	11780.773	1.1	996.736	5.48618	0.116	2.1	ug/L
>	Ge	72	240122.612	0.9	197196.226				ug/L
	As	75	2933.879	2.5	96.335	0.95072	0.023	2.4	ug/L
	Se	77	426.278	1.3	202.002	0.81966	0.032	3.8	ug/L
	Se	78	18982.665	1.0	14431.438	2.02768	0.468	23.1	mg/L
	Se	82	531.084	1.7	1747.050	-5.35990	0.015	0.3	ug/L
	Kr	83	344.011	11.0	1793.211				mg/L
	Y	89	492913.179	3.1	365281.373				ug/L
	Mo	95	10193.334	1.7	120.335	1.71246	0.071	4.1	ug/L
	Mo	97	6094.289	1.4	52.667	1.63465	0.023	1.4	ug/L
	Mo	98	15514.869	0.8	70.498	1.61859	0.051	3.2	ug/L
	Rh	103	380930.114	2.1	350376.944				ug/L
	Ag	107	138.336	2.9	46.001	0.00571	0.000	1.8	ug/L
	Ag	109	96.668	9.6	42.334	0.00336	0.001	24.1	ug/L
	Cd	111	383.426	5.9	203.876	0.04272	0.007	15.3	ug/L
	Cd	114	291.851	15.2	55.152	0.02859	0.006	21.7	ug/L
>	In	115	421889.947	2.3	366049.872				ug/L
	Sb	121	757.042	3.3	54.667	0.06554	0.003	4.3	ug/L
	Sb	123	546.796	7.1	37.221	0.06440	0.004	5.5	ug/L
	Ba	135	34148.836	0.7	52.001	14.57901	0.151	1.0	ug/L
	Ba	137	58697.922	0.4	70.668	14.85846	0.098	0.7	ug/L
>	Tb	159	429110.866	0.9	427712.876				ug/L
>	Ho	165	416023.933	1.2	412683.278				ug/L
	Tl	203	473.685	16.4	51.667	0.05284	0.010	19.4	ug/L
	Tl	205	1119.087	11.6	75.334	0.05720	0.008	13.5	ug/L
	Pb	208	34783.161	0.7	440.342	1.34064	0.008	0.6	ug/L

Pb	206	9062.351	2.3	119.335	1.34433	0.018	1.3	ug/L
Pb	207	7540.485	0.7	109.335	1.33017	0.013	1.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		134.931			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		121.768			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		115.255			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.327			
>	Ho	165		100.809			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

rpt

Elan 9000 Method 6020 - Summary Report

Sample ID: 950032

Sample Date/Time: Wednesday, November 22, 2006 11:48:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950032.021

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1195.764	2.4	49.334	0.78492	0.012	1.5	ug/L
	Al	27	32535108.719	0.2	2679.805	2794.37116	98.985	3.5	ug/L
>	Sc	45	524310.826	3.4	378193.541				ug/L
	V	51	45651.390	152.6	4537.327	1.97763	3.575	180.8	ug/L
	Cr	52	712825.235	7.8	15100.490	39.88073	4.237	10.6	ug/L
	Cr	53	84041.374	2.8	618.029	39.55200	0.308	0.8	ug/L
	Mn	55	12315236.466	3.5	580.693	591.40711	20.236	3.4	ug/L
	Co	59	333713.740	0.4	202.004	18.55135	0.524	2.8	ug/L
	Ni	60	290975.961	3.0	196.338	72.48888	4.129	5.7	ug/L
	Ni	62	42952.879	2.3	499.020	68.06565	2.104	3.1	ug/L
	Cu	63	50109.092	2.4	505.687	5.26834	0.066	1.3	ug/L
	Cu	65	19850.163	3.3	212.672	4.28871	0.254	5.9	ug/L
	Zn	66	186307.711	1.4	1298.448	69.60986	1.348	1.9	ug/L
	Zn	67	30913.544	0.8	302.342	68.63844	2.455	3.6	ug/L
	Zn	68	137553.086	1.1	996.736	71.22186	2.678	3.8	ug/L
>	Ge	72	238792.652	2.7	197196.226				ug/L
	As	75	5209.680	0.6	96.335	1.72961	0.051	2.9	ug/L
	Se	77	852.577	4.1	202.002	2.77868	0.115	4.1	ug/L
	Se	78	18897.888	0.9	14431.438	2.07233	0.978	47.2	mg/L
	Se	82	531.484	1.8	1747.050	-5.34781	0.050	0.9	ug/L
	Kr	83	429.015	2.3	1793.211				mg/L
	Y	89	832631.127	0.6	365281.373				ug/L
	Mo	95	5139.969	0.7	120.335	0.87487	0.019	2.2	ug/L
	Mo	97	3066.595	1.9	52.667	0.83670	0.027	3.2	ug/L
	Mo	98	7677.115	1.7	70.498	0.81778	0.009	1.1	ug/L
	Rh	103	379322.094	0.3	350376.944				ug/L
	Ag	107	287.008	9.9	46.001	0.01617	0.002	10.6	ug/L
	Ag	109	238.339	2.7	42.334	0.01370	0.001	5.6	ug/L
	Cd	111	4195.543	2.0	203.876	1.17172	0.042	3.6	ug/L
	Cd	114	8656.145	2.8	55.152	1.10240	0.034	3.1	ug/L
>	In	115	410907.496	1.8	366049.872				ug/L
	Sb	121	676.034	2.3	54.667	0.05958	0.001	1.8	ug/L
	Sb	123	524.879	5.2	37.221	0.06347	0.004	6.6	ug/L
	Ba	135	131013.920	1.3	52.001	54.97310	0.723	1.3	ug/L
	Ba	137	230524.416	1.5	70.668	57.34326	1.214	2.1	ug/L
>	Tb	159	437088.180	0.8	427712.876				ug/L
>	Ho	165	419356.701	1.9	412683.278				ug/L
	Tl	203	1016.741	21.2	51.667	0.11991	0.028	23.1	ug/L
	Tl	205	2380.705	18.6	75.334	0.12543	0.025	20.1	ug/L
	Pb	208	65284.331	0.2	440.342	2.51165	0.046	1.8	ug/L

Pb	206	16905.305	2.3	119.335	2.50348	0.042	1.7	ug/L
Pb	207	13858.321	1.7	109.335	2.44195	0.064	2.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		138.636			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		121.094			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		112.255			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		102.192			
>	Ho	165		101.617			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

rpt.

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 22, 2006 11:54:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 6.022

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55131.653	0.3	49.334	50.08336	1.112	2.2	ug/L
	Al	27	459751.381	3.4	2679.805	51.20454	0.625	1.2	ug/L
>	Sc	45	401489.070	2.4	378193.541				ug/L
	V	51	818226.072	1.2	4537.327	53.70434	1.453	2.7	ug/L
	Cr	52	705574.165	2.7	15100.490	51.79980	0.624	1.2	ug/L
	Cr	53	82060.248	1.3	618.029	50.54846	0.680	1.3	ug/L
	Mn	55	958677.247	2.2	580.693	52.33154	0.930	1.8	ug/L
	Co	59	800858.810	2.9	202.004	50.64379	1.268	2.5	ug/L
	Ni	60	185305.729	1.4	196.338	52.44701	0.542	1.0	ug/L
	Ni	62	27360.830	4.0	499.020	49.03782	1.895	3.9	ug/L
	Cu	63	428807.338	1.2	505.687	51.85246	0.441	0.9	ug/L
	Cu	65	210697.809	1.5	212.672	52.35734	0.635	1.2	ug/L
	Zn	66	119088.354	3.3	1298.448	50.44366	1.728	3.4	ug/L
	Zn	67	20428.551	1.8	302.342	51.36561	0.960	1.9	ug/L
	Zn	68	88110.324	1.7	996.736	51.69649	0.908	1.8	ug/L
>	Ge	72	209896.617	0.4	197196.226				ug/L
	As	75	133904.286	0.8	96.335	51.66835	0.391	0.8	ug/L
	Se	77	10279.470	1.3	202.002	52.33399	0.467	0.9	ug/L
	Se	78	49127.948	0.6	14431.438	55.49342	0.437	0.8	mg/L
	Se	82	14220.057	1.1	1747.050	47.47883	0.457	1.0	ug/L
	Kr	83	317.009	6.8	1793.211				mg/L
	Y	89	405606.302	3.4	365281.373				ug/L
	Mo	95	285417.404	3.2	120.335	54.57122	1.879	3.4	ug/L
	Mo	97	179920.777	2.5	52.667	54.74527	0.980	1.8	ug/L
	Mo	98	452245.474	2.3	70.498	53.25635	0.627	1.2	ug/L
	Rh	103	354820.820	1.1	350376.944				ug/L
	Ag	107	695650.857	0.8	46.001	52.35225	1.215	2.3	ug/L
	Ag	109	645103.221	3.4	42.334	50.64755	1.395	2.8	ug/L
	Cd	111	163299.848	0.7	203.876	52.70899	0.614	1.2	ug/L
	Cd	114	357844.963	5.1	55.152	50.19661	1.569	3.1	ug/L
>	In	115	375477.714	1.9	366049.872				ug/L
	Sb	121	468926.492	1.7	54.667	49.73785	0.891	1.8	ug/L
	Sb	123	351729.806	1.3	37.221	50.55076	1.178	2.3	ug/L
	Ba	135	114823.730	2.3	52.001	50.70099	0.718	1.4	ug/L
	Ba	137	198951.181	0.1	70.668	52.08355	0.601	1.2	ug/L
>	Tb	159	415305.810	1.2	427712.876				ug/L
>	Ho	165	391956.625	0.9	412683.278				ug/L
	Tl	203	388283.207	1.0	51.667	51.58558	0.524	1.0	ug/L
	Tl	205	891124.249	4.5	75.334	51.82600	2.484	4.8	ug/L
	Pb	208	1226979.366	1.6	440.342	50.82658	0.910	1.8	ug/L

Pb	206	312905.965	1.8	119.335	49.91886	1.044	2.1	ug/L
Pb	207	265272.404	1.3	109.335	50.38414	0.683	1.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.167				
	Al	27	102.409				
>	Sc	45		106.160			
	V	51	107.409				
	Cr	52	103.600				
	Cr	53	101.097				
	Mn	55	104.663				
	Co	59	101.288				
	Ni	60	104.894				
	Ni	62	98.076				
	Cu	63	103.705				
	Cu	65	104.715				
	Zn	66	100.887				
	Zn	67	102.731				
	Zn	68	103.393				
>	Ge	72		106.440			
	As	75	103.337				
	Se	77	104.668				
	Se	78	110.987				
	Se	82	94.958				
	Kr	83					
	Y	89					
	Mo	95	109.142				
	Mo	97	109.491				
	Mo	98	106.513				
	Rh	103					
	Ag	107	104.705				
	Ag	109	101.295				
	Cd	111	105.418				
	Cd	114	100.393				
>	In	115		102.576			
	Sb	121	99.476				
	Sb	123	101.102				
	Ba	135	101.402				
	Ba	137	104.167				
>	Tb	159		97.099			
>	Ho	165		94.978			
	Tl	203	103.171				
	Tl	205	103.652				
	Pb	208	101.653				
	Pb	206	99.838				
	Pb	207	100.768				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 22, 2006 11:59:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 7.023

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	45.001	21.2	49.334	-0.00699	0.009	126.0	ug/L
	Al	27	2536.411	0.9	2679.805	-0.03677	0.004	9.7	ug/L
>	Sc	45	404637.925	0.6	378193.541				ug/L
	V	51	4444.238	3.8	4537.327	-0.02684	0.012	44.5	ug/L
	Cr	52	15054.407	2.2	15100.490	-0.08218	0.021	25.1	ug/L
	Cr	53	940.063	5.6	618.029	0.17178	0.033	19.2	ug/L
	Mn	55	573.359	2.2	580.693	-0.00338	0.001	32.3	ug/L
	Co	59	165.337	2.1	202.004	-0.00346	0.000	10.0	ug/L
	Ni	60	171.003	15.5	196.338	-0.01228	0.007	54.9	ug/L
	Ni	62	436.682	5.8	499.020	-0.19702	0.039	19.7	ug/L
	Cu	63	403.014	7.5	505.687	-0.01785	0.003	19.5	ug/L
	Cu	65	212.338	9.3	212.672	-0.00506	0.005	102.5	ug/L
	Zn	66	1299.448	1.0	1298.448	-0.05217	0.012	23.6	ug/L
	Zn	67	276.007	7.5	302.342	-0.13785	0.060	43.8	ug/L
	Zn	68	930.728	1.2	996.736	-0.09394	0.014	14.4	ug/L
>	Ge	72	216452.530	1.4	197196.226				ug/L
	As	75	138.669	16.1	96.335	0.01238	0.009	70.8	ug/L
	Se	77	235.803	4.8	202.002	0.07132	0.065	90.6	ug/L
	Se	78	15688.853	2.4	14431.438	-0.24345	0.379	155.7	mg/L
	Se	82	461.946	6.8	1747.050	-5.42185	0.124	2.3	ug/L
	Kr	83	429.682	10.6	1793.211				mg/L
	Y	89	403901.314	1.5	365281.373				ug/L
	Mo	95	617.363	17.5	120.335	0.09221	0.019	20.3	ug/L
	Mo	97	378.346	15.4	52.667	0.09654	0.016	16.6	ug/L
	Mo	98	963.896	23.1	70.498	0.10278	0.024	23.4	ug/L
	Rh	103	354684.820	1.1	350376.944				ug/L
	Ag	107	136.336	16.5	46.001	0.00652	0.002	25.0	ug/L
	Ag	109	119.669	12.6	42.334	0.00583	0.001	21.3	ug/L
	Cd	111	244.084	26.4	203.876	0.01003	0.021	209.0	ug/L
	Cd	114	61.643	11.9	55.152	0.00055	0.001	172.1	ug/L
>	In	115	382216.328	1.4	366049.872				ug/L
	Sb	121	1061.413	14.6	54.667	0.10451	0.015	14.0	ug/L
	Sb	123	761.234	19.7	37.221	0.10179	0.020	19.3	ug/L
	Ba	135	41.667	16.0	52.001	-0.00432	0.003	69.0	ug/L
	Ba	137	83.335	62.1	70.668	0.00341	0.013	394.2	ug/L
>	Tb	159	425169.156	1.2	427712.876				ug/L
>	Ho	165	406310.324	0.9	412683.278				ug/L
	Tl	203	62.001	15.6	51.667	0.00142	0.001	81.8	ug/L
	Tl	205	139.669	18.0	75.334	0.00368	0.001	39.2	ug/L
	Pb	208	330.339	1.8	440.342	-0.00412	0.000	8.3	ug/L

Pb	206	95.668	7.8	119.335	-0.00336	0.001	32.8	ug/L
Pb	207	75.334	13.6	109.335	-0.00592	0.002	32.5	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		106.992			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		109.765			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.416			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.405			
>	Ho	165		98.456			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950033 D.5

Sample Date/Time: Wednesday, November 22, 2006 12:05:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950033 D.5.024

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	66.668	9.6	49.334	0.01114	0.006	53.9	ug/L
	Al	27	64551.079	1.9	2679.805	6.69278	0.184	2.7	ug/L
>	Sc	45	414346.205	0.8	378193.541				ug/L
	V	51	5658.495	2.8	4537.327	0.04400	0.012	27.1	ug/L
	Cr	52	19226.686	2.0	15100.490	0.19542	0.035	18.1	ug/L
	Cr	53	1280.111	4.5	618.029	0.36260	0.029	7.9	ug/L
	Mn	55	580356.913	2.4	580.693	30.57550	0.688	2.3	ug/L
	Co	59	1428.803	2.4	202.004	0.07367	0.002	3.3	ug/L
	Ni	60	3499.103	3.6	196.338	0.89810	0.034	3.7	ug/L
	Ni	62	553.024	2.0	499.020	0.00522	0.024	466.5	ug/L
	Cu	63	2521.073	2.2	505.687	0.22956	0.006	2.8	ug/L
	Cu	65	1153.091	4.8	212.672	0.22070	0.015	6.6	ug/L
	Zn	66	1601.837	1.3	1298.448	0.07055	0.010	14.3	ug/L
	Zn	67	487.353	8.0	302.342	0.38031	0.101	26.6	ug/L
	Zn	68	1736.532	5.0	996.736	0.36556	0.045	12.2	ug/L
>	Ge	72	217385.056	0.5	197196.226				ug/L
	As	75	332.677	4.8	96.335	0.08443	0.005	6.4	ug/L
	Se	77	252.537	2.1	202.002	0.14996	0.030	20.0	ug/L
	Se	78	15894.815	1.6	14431.438	-0.02291	0.331	1447.0	mg/L
	Se	82	559.685	1.5	1747.050	-5.06709	0.041	0.8	ug/L
	Kr	83	553.357	3.2	1793.211				mg/L
	Y	89	418158.431	0.8	365281.373				ug/L
	Mo	95	2690.461	2.9	120.335	0.48345	0.007	1.4	ug/L
	Mo	97	1640.178	0.6	52.667	0.47571	0.012	2.6	ug/L
	Mo	98	4277.750	2.4	70.498	0.48809	0.011	2.2	ug/L
	Rh	103	343253.127	0.9	350376.944				ug/L
	Ag	107	69.334	8.7	46.001	0.00160	0.001	37.3	ug/L
	Ag	109	70.668	18.2	42.334	0.00205	0.001	45.7	ug/L
	Cd	111	236.768	4.1	203.876	0.00792	0.005	67.3	ug/L
	Cd	114	95.596	25.4	55.152	0.00522	0.003	55.9	ug/L
>	In	115	381052.037	3.1	366049.872				ug/L
	Sb	121	921.394	6.3	54.667	0.09029	0.003	3.6	ug/L
	Sb	123	664.515	9.7	37.221	0.08849	0.006	7.2	ug/L
	Ba	135	14752.862	0.6	52.001	6.52123	0.011	0.2	ug/L
	Ba	137	24952.221	1.3	70.668	6.54194	0.050	0.8	ug/L
>	Tb	159	413648.205	0.5	427712.876				ug/L
>	Ho	165	407667.154	1.1	412683.278				ug/L
	Tl	203	168.670	8.1	51.667	0.01502	0.002	11.0	ug/L
	Tl	205	362.012	11.7	75.334	0.01607	0.002	13.4	ug/L
	Pb	208	977.365	4.3	440.342	0.02161	0.002	8.0	ug/L

Pb	206	257.007	8.2	119.335	0.02134	0.003	14.8	ug/L
Pb	207	209.671	6.1	109.335	0.01856	0.002	11.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		109.559			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		110.238			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.098			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.712			
>	Ho	165		98.785			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950033

Sample Date/Time: Wednesday, November 22, 2006 12:11:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950033.025

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	70.334	13.5	49.334	0.00869	0.008	86.5	ug/L
	Al	27	314096.036	1.4	2679.805	30.67930	0.483	1.6	ug/L
>	Sc	45	456056.043	2.1	378193.541				ug/L
	V	51	10084.203	4.8	4537.327	0.26821	0.031	11.7	ug/L
	Cr	52	33669.259	3.1	15100.490	1.02338	0.094	9.1	ug/L
	Cr	53	3020.244	0.4	618.029	1.24383	0.031	2.5	ug/L
	Mn	55	3401846.442	1.2	580.693	176.22090	2.065	1.2	ug/L
	Co	59	7101.436	5.9	202.004	0.41227	0.019	4.6	ug/L
	Ni	60	20719.601	0.9	196.338	5.51014	0.120	2.2	ug/L
	Ni	62	1169.760	1.7	499.020	1.05761	0.064	6.0	ug/L
	Cu	63	11284.417	2.3	505.687	1.23120	0.052	4.2	ug/L
	Cu	65	5226.024	0.2	212.672	1.17690	0.021	1.7	ug/L
	Zn	66	5959.190	2.0	1298.448	1.82984	0.037	2.0	ug/L
	Zn	67	1697.523	3.5	302.342	3.29102	0.143	4.4	ug/L
	Zn	68	7191.507	1.3	996.736	3.42063	0.021	0.6	ug/L
>	Ge	72	221316.777	1.7	197196.226				ug/L
	As	75	1200.432	3.9	96.335	0.40014	0.020	4.9	ug/L
	Se	77	347.141	2.6	202.002	0.59382	0.025	4.3	ug/L
	Se	78	17844.146	0.3	14431.438	2.57247	0.402	15.6	mg/L
	Se	82	713.364	2.0	1747.050	-4.54398	0.052	1.1	ug/L
	Kr	83	596.027	5.8	1793.211				mg/L
	Y	89	443185.619	2.1	365281.373				ug/L
	Mo	95	13628.939	0.4	120.335	2.43440	0.061	2.5	ug/L
	Mo	97	8457.042	2.2	52.667	2.41054	0.061	2.5	ug/L
	Mo	98	21393.821	2.0	70.498	2.36696	0.019	0.8	ug/L
	Rh	103	366981.268	0.7	350376.944				ug/L
	Ag	107	106.002	5.7	46.001	0.00397	0.000	8.4	ug/L
	Ag	109	78.001	15.1	42.334	0.00237	0.001	40.9	ug/L
	Cd	111	375.199	15.4	203.876	0.04647	0.015	31.7	ug/L
	Cd	114	395.482	16.6	55.152	0.04450	0.010	21.8	ug/L
>	In	115	398325.583	2.5	366049.872				ug/L
	Sb	121	2957.554	1.6	54.667	0.28993	0.011	3.7	ug/L
	Sb	123	2219.975	0.3	37.221	0.29536	0.008	2.6	ug/L
	Ba	135	74545.348	0.4	52.001	32.70976	0.305	0.9	ug/L
	Ba	137	131679.201	0.5	70.668	34.25331	0.296	0.9	ug/L
>	Tb	159	417862.789	0.8	427712.876				ug/L
>	Ho	165	404351.218	1.3	412683.278				ug/L
	Tl	203	503.354	5.6	51.667	0.05834	0.004	7.2	ug/L
	Tl	205	1140.423	4.5	75.334	0.06012	0.002	4.0	ug/L
	Pb	208	2932.895	1.2	440.342	0.10048	0.002	1.8	ug/L

Pb	206	752.708	2.1	119.335	0.09838	0.004	3.9	ug/L
Pb	207	656.699	2.8	109.335	0.10121	0.002	2.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		120.588			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		112.232			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.817			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.697			
>	Ho	165		97.981			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950034

Sample Date/Time: Wednesday, November 22, 2006 12:17:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950034.026

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	161.670	6.2	49.334	0.07208	0.008	10.6	ug/L
	Al	27	9269269.523	1.4	2679.805	845.90445	21.119	2.5	ug/L
>	Sc	45	493031.068	1.5	378193.541				ug/L
	V	51	48879.120	51.0	4537.327	2.30596	1.323	57.4	ug/L
	Cr	52	761716.714	7.8	15100.490	45.39110	3.499	7.7	ug/L
	Cr	53	86598.569	1.6	618.029	43.37392	0.271	0.6	ug/L
	Mn	55	79332290.326	1.6	580.693	4043.80234	64.294	1.6	ug/L
	Co	59	154119.040	0.9	202.004	9.08443	0.143	1.6	ug/L
	Ni	60	137687.602	3.8	196.338	36.34395	1.241	3.4	ug/L
	Ni	62	19448.864	0.7	499.020	32.20356	0.440	1.4	ug/L
	Cu	63	36237.344	2.5	505.687	4.02872	0.077	1.9	ug/L
	Cu	65	17420.719	4.3	212.672	3.98752	0.166	4.2	ug/L
	Zn	66	25321.006	1.9	1298.448	9.53460	0.252	2.6	ug/L
	Zn	67	4766.744	2.5	302.342	10.54217	0.347	3.3	ug/L
	Zn	68	21006.654	0.7	996.736	11.01144	0.107	1.0	ug/L
>	Ge	72	224935.303	0.7	197196.226				ug/L
	As	75	11776.768	1.6	96.335	4.20410	0.070	1.7	ug/L
	Se	77	577.220	3.6	202.002	1.68264	0.091	5.4	ug/L
	Se	78	17858.681	1.5	14431.438	2.14186	0.238	11.1	mg/L
	Se	82	804.572	1.4	1747.050	-4.25885	0.060	1.4	ug/L
	Kr	83	634.364	3.9	1793.211				mg/L
	Y	89	515683.228	0.8	365281.373				ug/L
	Mo	95	6892.251	0.4	120.335	1.25499	0.016	1.3	ug/L
	Mo	97	3775.227	3.1	52.667	1.09854	0.052	4.8	ug/L
	Mo	98	9495.349	3.4	70.498	1.07613	0.030	2.8	ug/L
	Rh	103	358379.229	3.8	350376.944				ug/L
	Ag	107	229.339	7.0	46.001	0.01319	0.001	8.7	ug/L
	Ag	109	187.004	2.1	42.334	0.01083	0.000	1.9	ug/L
	Cd	111	1199.674	2.7	203.876	0.30856	0.015	5.0	ug/L
	Cd	114	2088.478	3.2	55.152	0.27639	0.010	3.5	ug/L
>	In	115	387137.705	1.6	366049.872				ug/L
	Sb	121	1008.405	5.8	54.667	0.09778	0.005	5.6	ug/L
	Sb	123	713.028	5.8	37.221	0.09386	0.005	5.1	ug/L
	Ba	135	99787.724	2.1	52.001	43.40258	0.617	1.4	ug/L
	Ba	137	167775.421	0.3	70.668	43.26271	0.359	0.8	ug/L
>	Tb	159	421583.405	0.8	427712.876				ug/L
>	Ho	165	406091.303	1.1	412683.278				ug/L
	Tl	203	3797.904	4.2	51.667	0.48043	0.015	3.1	ug/L
	Tl	205	9156.119	0.9	75.334	0.50980	0.003	0.5	ug/L
	Pb	208	62777.511	0.9	440.342	2.49350	0.023	0.9	ug/L

Pb	206	16133.101	2.3	119.335	2.46663	0.029	1.2	ug/L
Pb	207	13405.910	1.3	109.335	2.43885	0.031	1.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		130.365			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		114.067			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		105.761			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.567			
>	Ho	165		98.403			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950035

Sample Date/Time: Wednesday, November 22, 2006 12:23:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950035.027

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	91.668	4.9	49.334	0.02288	0.004	17.5	ug/L
	Al	27	266827.552	2.0	2679.805	24.97324	0.512	2.0	ug/L
>	Sc	45	474762.553	0.8	378193.541				ug/L
	V	51	9058.062	3.4	4537.327	0.18761	0.014	7.7	ug/L
	Cr	52	80933.367	2.1	15100.490	3.93750	0.111	2.8	ug/L
	Cr	53	8511.430	1.6	618.029	4.06189	0.107	2.6	ug/L
	Mn	55	29069470.652	0.8	580.693	1425.77326	11.416	0.8	ug/L
	Co	59	25357.107	0.4	202.004	1.42673	0.016	1.1	ug/L
	Ni	60	48841.205	1.0	196.338	12.36703	0.047	0.4	ug/L
	Ni	62	5493.532	0.6	499.020	8.04546	0.091	1.1	ug/L
	Cu	63	12851.038	3.6	505.687	1.33200	0.053	4.0	ug/L
	Cu	65	5762.383	1.2	212.672	1.23088	0.021	1.7	ug/L
	Zn	66	12207.058	1.9	1298.448	4.10475	0.070	1.7	ug/L
	Zn	67	2931.878	1.6	302.342	5.90371	0.158	2.7	ug/L
	Zn	68	12485.813	3.6	996.736	6.02788	0.236	3.9	ug/L
>	Ge	72	233766.216	0.8	197196.226				ug/L
	As	75	997.403	0.9	96.335	0.30626	0.006	1.8	ug/L
	Se	77	676.694	3.3	202.002	2.04115	0.087	4.3	ug/L
	Se	78	18956.367	0.9	14431.438	2.73027	0.465	17.0	mg/L
	Se	82	1242.826	1.0	1747.050	-2.85626	0.065	2.3	ug/L
	Kr	83	735.707	6.1	1793.211				mg/L
	Y	89	490738.440	0.8	365281.373				ug/L
	Mo	95	136002.530	0.6	120.335	24.56822	0.395	1.6	ug/L
	Mo	97	88010.657	2.1	52.667	25.30529	0.286	1.1	ug/L
	Mo	98	221464.893	1.2	70.498	24.65353	0.485	2.0	ug/L
	Rh	103	377603.550	0.8	350376.944				ug/L
	Ag	107	112.335	10.1	46.001	0.00445	0.001	20.0	ug/L
	Ag	109	62.001	2.8	42.334	0.00119	0.000	14.4	ug/L
	Cd	111	1064.330	5.1	203.876	0.25751	0.015	5.7	ug/L
	Cd	114	2056.214	4.9	55.152	0.26489	0.013	5.0	ug/L
>	In	115	397175.310	1.0	366049.872				ug/L
	Sb	121	1359.791	3.2	54.667	0.13040	0.004	3.1	ug/L
	Sb	123	974.215	3.3	37.221	0.12689	0.005	4.1	ug/L
	Ba	135	112690.881	2.3	52.001	48.47326	1.043	2.2	ug/L
	Ba	137	192798.358	1.6	70.668	49.15938	0.461	0.9	ug/L
>	Tb	159	426352.384	1.2	427712.876				ug/L
>	Ho	165	401016.008	2.1	412683.278				ug/L
	Tl	203	267.674	1.8	51.667	0.02825	0.001	2.1	ug/L
	Tl	205	609.695	4.7	75.334	0.03052	0.002	7.1	ug/L
	Pb	208	5421.740	1.6	440.342	0.20233	0.007	3.3	ug/L

Pb	206	1381.795	2.0	119.335	0.19746	0.003	1.6	ug/L
Pb	207	1193.764	3.2	109.335	0.20213	0.012	5.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		125.534			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		118.545			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.503			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.682			
>	Ho	165		97.173			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950036 D.100

Sample Date/Time: Wednesday, November 22, 2006 12:29:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950036 D.100.028

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	114.002	6.1	49.334	0.05074	0.010	19.8	ug/L
	Al	27	985385.305	1.5	2679.805	104.34817	4.986	4.8	ug/L
>	Sc	45	424237.122	4.5	378193.541				ug/L
	V	51	4861.686	1.9	4537.327	-0.01384	0.014	104.0	ug/L
	Cr	52	16507.502	1.7	15100.490	-0.02934	0.049	166.4	ug/L
	Cr	53	1033.075	6.9	618.029	0.19922	0.015	7.3	ug/L
	Mn	55	3210281.393	1.3	580.693	163.97771	6.383	3.9	ug/L
	Co	59	43898.474	2.5	202.004	2.58197	0.028	1.1	ug/L
	Ni	60	24586.466	1.4	196.338	6.45549	0.209	3.2	ug/L
	Ni	62	4185.426	0.5	499.020	6.18212	0.160	2.6	ug/L
	Cu	63	223440.299	2.5	505.687	25.22449	0.536	2.1	ug/L
	Cu	65	105098.401	1.5	212.672	24.38928	0.654	2.7	ug/L
	Zn	66	40368.299	1.9	1298.448	15.57904	0.147	0.9	ug/L
	Zn	67	6015.898	2.7	302.342	13.54478	0.367	2.7	ug/L
	Zn	68	28329.359	1.2	996.736	15.10525	0.617	4.1	ug/L
>	Ge	72	224580.648	2.8	197196.226				ug/L
	As	75	157.336	8.8	96.335	0.01715	0.004	23.1	ug/L
	Se	77	236.003	2.0	202.002	0.02972	0.048	160.2	ug/L
	Se	78	15842.025	1.5	14431.438	-0.89442	0.960	107.3	mg/L
	Se	82	604.089	1.3	1747.050	-4.97333	0.059	1.2	ug/L
	Kr	83	576.026	0.6	1793.211				mg/L
	Y	89	458722.653	1.2	365281.373				ug/L
	Mo	95	173.004	6.7	120.335	0.00778	0.003	34.7	ug/L
	Mo	97	63.001	15.1	52.667	0.00170	0.002	138.8	ug/L
	Mo	98	105.013	15.0	70.498	0.00322	0.002	60.5	ug/L
	Rh	103	369408.653	0.5	350376.944				ug/L
	Ag	107	43.001	16.8	46.001	-0.00049	0.000	91.5	ug/L
	Ag	109	44.667	11.5	42.334	-0.00008	0.000	554.4	ug/L
	Cd	111	598.590	1.3	203.876	0.11578	0.005	4.5	ug/L
	Cd	114	910.515	1.1	55.152	0.11318	0.002	1.9	ug/L
>	In	115	396241.088	2.1	366049.872				ug/L
	Sb	121	91.335	3.3	54.667	0.00324	0.000	15.0	ug/L
	Sb	123	68.900	5.1	37.221	0.00390	0.001	16.0	ug/L
	Ba	135	434.016	3.7	52.001	0.16677	0.006	3.4	ug/L
	Ba	137	692.369	5.0	70.668	0.16079	0.007	4.3	ug/L
>	Tb	159	421106.167	1.3	427712.876				ug/L
>	Ho	165	407280.875	2.2	412683.278				ug/L
	Tl	203	145.669	8.2	51.667	0.01212	0.002	13.9	ug/L
	Tl	205	310.009	6.7	75.334	0.01318	0.001	7.1	ug/L
	Pb	208	1008.033	3.4	440.342	0.02287	0.001	3.9	ug/L

Pb	206	275.007	5.6	119.335	0.02413	0.001	6.1	ug/L
Pb	207	218.005	10.6	109.335	0.02015	0.004	21.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		112.175			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		113.887			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.248			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.455			
>	Ho	165		98.691			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, November 22, 2006 12:35:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 3.029

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1239.105	4.3	49.334	1.07281	0.040	3.7	ug/L
	Al	27	98391.483	1.3	2679.805	10.65310	0.030	0.3	ug/L
>	Sc	45	403540.694	1.1	378193.541				ug/L
	V	51	21260.928	0.9	4537.327	1.07823	0.015	1.4	ug/L
	Cr	52	30197.259	1.8	15100.490	1.05266	0.025	2.3	ug/L
	Cr	53	2637.110	2.4	618.029	1.22141	0.022	1.8	ug/L
	Mn	55	20484.354	1.5	580.693	1.07234	0.014	1.3	ug/L
	Co	59	17584.049	2.4	202.004	1.08599	0.028	2.6	ug/L
	Ni	60	4073.036	1.6	196.338	1.08168	0.019	1.8	ug/L
	Ni	62	1030.074	2.5	499.020	0.89027	0.042	4.7	ug/L
	Cu	63	9297.276	0.2	505.687	1.04762	0.005	0.5	ug/L
	Cu	65	4468.242	1.5	212.672	1.04247	0.014	1.3	ug/L
	Zn	66	16770.359	0.6	1298.448	6.51230	0.057	0.9	ug/L
	Zn	67	2695.463	1.2	302.342	5.98496	0.099	1.6	ug/L
	Zn	68	12142.628	0.6	996.736	6.49842	0.036	0.6	ug/L
>	Ge	72	212331.493	0.3	197196.226				ug/L
	As	75	2882.861	1.2	96.335	1.06086	0.013	1.2	ug/L
	Se	77	424.277	1.8	202.002	1.06283	0.034	3.2	ug/L
	Se	78	16602.840	2.2	14431.438	1.72774	0.555	32.1	mg/L
	Se	82	864.912	1.5	1747.050	-3.85881	0.047	1.2	ug/L
	Kr	83	565.358	2.8	1793.211				mg/L
	Y	89	408898.760	1.3	365281.373				ug/L
	Mo	95	6100.628	2.9	120.335	1.10662	0.034	3.0	ug/L
	Mo	97	3836.922	2.1	52.667	1.11483	0.025	2.2	ug/L
	Mo	98	9435.782	0.8	70.498	1.06805	0.009	0.8	ug/L
	Rh	103	368153.193	0.5	350376.944				ug/L
	Ag	107	15573.028	1.3	46.001	1.13150	0.014	1.3	ug/L
	Ag	109	14213.922	1.5	42.334	1.07768	0.014	1.3	ug/L
	Cd	111	3756.558	2.6	203.876	1.10835	0.032	2.9	ug/L
	Cd	114	7784.324	3.2	55.152	1.05041	0.033	3.2	ug/L
>	In	115	387609.537	0.2	366049.872				ug/L
	Sb	121	10100.555	2.7	54.667	1.03188	0.029	2.9	ug/L
	Sb	123	7593.776	1.8	37.221	1.05159	0.018	1.8	ug/L
	Ba	135	2441.382	1.4	52.001	1.04547	0.020	1.9	ug/L
	Ba	137	4291.814	0.1	70.668	1.09461	0.005	0.4	ug/L
>	Tb	159	419517.360	0.5	427712.876				ug/L
>	Ho	165	400424.125	1.8	412683.278				ug/L
	Tl	203	8562.486	3.6	51.667	1.10776	0.059	5.3	ug/L
	Tl	205	19828.770	2.5	75.334	1.12483	0.033	2.9	ug/L
	Pb	208	26893.745	0.5	440.342	1.07377	0.024	2.3	ug/L

Pb	206	6913.936	0.2	119.335	1.06217	0.022	2.1	ug/L
Pb	207	5931.503	1.7	109.335	1.08389	0.039	3.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	107.281				
	Al	27	106.531				
>	Sc	45		106.702			
	V	51	107.823				
	Cr	52	105.266				
	Cr	53	122.141				
	Mn	55	107.234				
	Co	59	108.599				
	Ni	60	108.168				
	Ni	62	89.027				
	Cu	63	104.762				
	Cu	65	104.247				
	Zn	66	130.246				
	Zn	67	119.699				
	Zn	68	129.968				
>	Ge	72		107.675			
	As	75	106.086				
	Se	77	106.283				
	Se	78	172.774				
	Se	82	-385.881				
	Kr	83					
	Y	89					
	Mo	95	110.662				
	Mo	97	111.483				
	Mo	98	106.805				
	Rh	103					
	Ag	107	113.150				
	Ag	109	107.768				
	Cd	111	110.835				
	Cd	114	105.041				
>	In	115		105.890			
	Sb	121	103.188				
	Sb	123	105.159				
	Ba	135	104.547				
	Ba	137	109.461				
>	Tb	159		98.084			
>	Ho	165		97.029			
	Tl	203	110.776				
	Tl	205	112.483				
	Pb	208	107.377				
	Pb	206	106.217				
	Pb	207	108.389				

Elan 9000 Method 6020 - Summary Report

Sample ID: HLCCV2

Sample Date/Time: Wednesday, November 22, 2006 12:41:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\HLCCV2.030

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	231373.873	1.6	49.334	204.71230	6.969	3.4	ug/L
	Al	27	1749318.959	1.7	2679.805	190.67577	10.030	5.3	ug/L
>	Sc	45	412844.149	5.0	378193.541				ug/L
	V	51	3818218.884	1.0	4537.327	245.12576	11.580	4.7	ug/L
	Cr	52	3214943.805	1.8	15100.490	234.03982	11.906	5.1	ug/L
	Cr	53	328491.099	3.6	618.029	198.02873	4.097	2.1	ug/L
	Mn	55	4446847.708	1.1	580.693	244.43302	6.701	2.7	ug/L
	Co	59	3826570.994	0.4	202.004	243.58975	5.561	2.3	ug/L
	Ni	60	692498.498	1.7	196.338	197.40251	4.772	2.4	ug/L
	Ni	62	108140.659	1.5	499.020	197.98433	6.982	3.5	ug/L
	Cu	63	1546801.898	1.8	505.687	188.41328	5.508	2.9	ug/L
	Cu	65	734316.278	0.6	212.672	183.78681	4.584	2.5	ug/L
	Zn	66	445736.227	0.5	1298.448	191.63300	3.510	1.8	ug/L
	Zn	67	78013.010	2.1	302.342	199.73473	5.819	2.9	ug/L
	Zn	68	330507.364	1.1	996.736	196.91296	5.580	2.8	ug/L
>	Ge	72	208629.692	2.0	197196.226				ug/L
	As	75	518053.887	4.2	96.335	201.21317	7.123	3.5	ug/L
	Se	77	40182.717	0.8	202.002	209.13630	2.796	1.3	ug/L
	Se	78	142604.498	0.8	14431.438	210.59361	4.549	2.2	mg/L
	Se	82	56230.276	0.5	1747.050	210.21314	3.949	1.9	ug/L
	Kr	83	493.353	20.8	1793.211				mg/L
	Y	89	410403.642	0.7	365281.373				ug/L
	Mo	95	1107301.970	2.1	120.335	209.21809	3.158	1.5	ug/L
	Mo	97	708060.907	2.0	52.667	212.93137	4.059	1.9	ug/L
	Mo	98	1786098.612	0.3	70.498	207.86449	0.696	0.3	ug/L
	Rh	103	351855.840	0.6	350376.944				ug/L
	Ag	107	3397421.136	0.3	46.001	252.58949	1.152	0.5	ug/L
	Ag	109	3304387.790	2.2	42.334	256.35382	4.493	1.8	ug/L
	Cd	111	628003.803	3.9	203.876	200.42954	6.718	3.4	ug/L
	Cd	114	1414634.242	1.6	55.152	196.17582	2.009	1.0	ug/L
>	In	115	379989.132	0.6	366049.872				ug/L
	Sb	121	1847853.841	0.5	54.667	193.67236	2.231	1.2	ug/L
	Sb	123	1367653.297	0.7	37.221	194.19535	1.122	0.6	ug/L
	Ba	135	450358.987	1.2	52.001	204.35966	3.128	1.5	ug/L
	Ba	137	744347.446	2.3	70.668	200.17184	1.328	0.7	ug/L
>	Tb	159	404350.449	2.1	427712.876				ug/L
>	Ho	165	391529.291	2.0	412683.278				ug/L
	Tl	203	1433882.115	2.6	51.667	190.70525	1.894	1.0	ug/L
	Tl	205	4564878.448	1.7	75.334	265.87880	9.292	3.5	ug/L
	Pb	208	5498505.591	0.5	440.342	228.13527	5.138	2.3	ug/L

Pb	206	1235357.975	3.2	119.335	197.30528	2.739	1.4	ug/L
Pb	207	1018817.056	0.3	109.335	193.81170	3.317	1.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		109.162			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		105.798			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		103.808			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.538			
>	Ho	165		94.874			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, November 22, 2006 12:47:42
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 3.031

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1203.766	2.1	49.334	1.01790	0.029	2.8	ug/L
	Al	27	96225.714	1.2	2679.805	10.18427	0.247	2.4	ug/L
>	Sc	45	412377.106	1.7	378193.541				ug/L
	V	51	21348.585	0.9	4537.327	1.05422	0.032	3.0	ug/L
	Cr	52	30459.547	1.7	15100.490	1.02429	0.071	7.0	ug/L
	Cr	53	2524.741	1.8	618.029	1.11878	0.017	1.5	ug/L
	Mn	55	20770.061	1.0	580.693	1.08415	0.026	2.4	ug/L
	Co	59	17360.905	0.1	202.004	1.06855	0.026	2.5	ug/L
	Ni	60	3934.968	2.0	196.338	1.03984	0.049	4.7	ug/L
	Ni	62	1055.411	1.5	499.020	0.92972	0.034	3.7	ug/L
	Cu	63	8916.525	2.3	505.687	0.99833	0.018	1.8	ug/L
	Cu	65	4222.779	3.4	212.672	0.97937	0.060	6.1	ug/L
	Zn	66	16459.739	1.2	1298.448	6.35873	0.208	3.3	ug/L
	Zn	67	2569.088	0.9	302.342	5.64589	0.217	3.8	ug/L
	Zn	68	11568.479	3.3	996.736	6.13754	0.185	3.0	ug/L
>	Ge	72	213096.009	2.4	197196.226				ug/L
	As	75	2860.853	1.2	96.335	1.04882	0.018	1.7	ug/L
	Se	77	434.878	2.6	202.002	1.11118	0.113	10.2	ug/L
	Se	78	16164.558	1.4	14431.438	0.93562	0.896	95.7	mg/L
	Se	82	686.295	2.5	1747.050	-4.54642	0.006	0.1	ug/L
	Kr	83	359.678	9.9	1793.211				mg/L
	Y	89	416663.093	1.7	365281.373				ug/L
	Mo	95	7163.825	6.6	120.335	1.29413	0.081	6.3	ug/L
	Mo	97	4512.935	3.7	52.667	1.30477	0.044	3.4	ug/L
	Mo	98	12126.007	5.2	70.498	1.36519	0.066	4.9	ug/L
	Rh	103	360177.637	0.4	350376.944				ug/L
	Ag	107	14898.123	1.4	46.001	1.07478	0.016	1.5	ug/L
	Ag	109	14318.440	2.8	42.334	1.07809	0.031	2.9	ug/L
	Cd	111	3487.143	1.9	203.876	1.01646	0.025	2.4	ug/L
	Cd	114	7679.400	1.9	55.152	1.02884	0.014	1.4	ug/L
>	In	115	390324.710	0.5	366049.872				ug/L
	Sb	121	12166.332	1.8	54.667	1.23542	0.022	1.8	ug/L
	Sb	123	8823.590	3.5	37.221	1.21418	0.040	3.3	ug/L
	Ba	135	2497.066	3.2	52.001	1.09405	0.035	3.2	ug/L
	Ba	137	4237.786	1.7	70.668	1.10500	0.013	1.2	ug/L
>	Tb	159	410385.541	0.8	427712.876				ug/L
>	Ho	165	402956.516	2.0	412683.278				ug/L
	Tl	203	8159.742	1.8	51.667	1.04810	0.005	0.5	ug/L
	Tl	205	19601.223	1.2	75.334	1.10492	0.024	2.2	ug/L
	Pb	208	26862.227	0.8	440.342	1.06566	0.024	2.3	ug/L

Pb	206	6877.907	2.5	119.335	1.04979	0.033	3.1	ug/L
Pb	207	5760.382	2.4	109.335	1.04508	0.029	2.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	101.790				
	Al	27	101.843				
>	Sc	45		109.039			
	V	51	105.422				
	Cr	52	102.429				
	Cr	53	111.878				
	Mn	55	108.415				
	Co	59	106.855				
	Ni	60	103.984				
	Ni	62	92.972				
	Cu	63	99.833				
	Cu	65	97.937				
	Zn	66	127.175				
	Zn	67	112.918				
	Zn	68	122.751				
>	Ge	72		108.063			
	As	75	104.882				
	Se	77	111.118				
	Se	78	93.562				
	Se	82	-454.642				
	Kr	83					
	Y	89					
	Mo	95	129.413				
	Mo	97	130.477				
	Mo	98	136.519				
	Rh	103					
	Ag	107	107.478				
	Ag	109	107.809				
	Cd	111	101.646				
	Cd	114	102.884				
>	In	115		106.632			
	Sb	121	123.542				
	Sb	123	121.418				
	Ba	135	109.405				
	Ba	137	110.500				
>	Tb	159		95.949			
>	Ho	165		97.643			
	Tl	203	104.810				
	Tl	205	110.492				
	Pb	208	106.566				
	Pb	206	104.979				
	Pb	207	104.508				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 22, 2006 12:53:39
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 6.032

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54885.060	1.6	49.334	50.42748	1.182	2.3	ug/L
	Al	27	457111.032	0.5	2679.805	51.54094	2.102	4.1	ug/L
>	Sc	45	397049.418	3.7	378193.541				ug/L
	V	51	785806.961	3.3	4537.327	52.13855	1.208	2.3	ug/L
	Cr	52	682653.140	1.8	15100.490	50.70193	2.226	4.4	ug/L
	Cr	53	79281.829	1.0	618.029	49.40635	1.775	3.6	ug/L
	Mn	55	935775.832	1.9	580.693	52.54231	1.591	3.0	ug/L
	Co	59	784989.651	3.2	202.004	51.03667	0.705	1.4	ug/L
	Ni	60	174891.716	1.1	196.338	50.95258	2.828	5.6	ug/L
	Ni	62	27024.708	2.8	499.020	49.82503	1.339	2.7	ug/L
	Cu	63	411230.011	0.8	505.687	51.16959	2.269	4.4	ug/L
	Cu	65	200602.038	2.0	212.672	51.29609	2.505	4.9	ug/L
	Zn	66	113273.928	4.0	1298.448	49.30331	0.591	1.2	ug/L
	Zn	67	19465.241	2.0	302.342	50.32186	1.523	3.0	ug/L
	Zn	68	82493.159	1.2	996.736	49.76879	1.823	3.7	ug/L
>	Ge	72	204249.403	4.5	197196.226				ug/L
	As	75	129040.863	2.8	96.335	51.21699	2.025	4.0	ug/L
	Se	77	9988.984	1.3	202.002	52.31601	1.874	3.6	ug/L
	Se	78	46003.050	1.9	14431.438	52.51681	2.422	4.6	mg/L
	Se	82	13931.106	2.4	1747.050	47.90486	2.183	4.6	ug/L
	Kr	83	365.345	4.9	1793.211				mg/L
	Y	89	407080.054	2.2	365281.373				ug/L
	Mo	95	279921.486	1.1	120.335	52.92098	0.783	1.5	ug/L
	Mo	97	178357.462	2.7	52.667	53.69735	2.598	4.8	ug/L
	Mo	98	458163.886	1.9	70.498	53.35871	1.072	2.0	ug/L
	Rh	103	349244.474	0.8	350376.944				ug/L
	Ag	107	686502.891	1.7	46.001	51.07479	0.386	0.8	ug/L
	Ag	109	658002.916	4.0	42.334	51.06873	0.936	1.8	ug/L
	Cd	111	159238.638	1.2	203.876	50.83315	1.524	3.0	ug/L
	Cd	114	368666.947	1.5	55.152	51.16160	0.495	1.0	ug/L
>	In	115	379744.377	2.4	366049.872				ug/L
	Sb	121	470841.738	0.3	54.667	49.39093	1.087	2.2	ug/L
	Sb	123	347209.947	1.2	37.221	49.33969	0.817	1.7	ug/L
	Ba	135	114372.260	2.3	52.001	51.25517	0.975	1.9	ug/L
	Ba	137	195036.869	1.5	70.668	51.82200	1.245	2.4	ug/L
>	Tb	159	409211.681	0.9	427712.876				ug/L
>	Ho	165	389059.272	2.4	412683.278				ug/L
	Tl	203	379286.762	1.5	51.667	50.78726	1.636	3.2	ug/L
	Tl	205	901215.217	1.4	75.334	52.81119	1.064	2.0	ug/L
	Pb	208	1225955.449	1.5	440.342	51.17554	1.190	2.3	ug/L

Pb	206	312629.911	1.6	119.335	50.26558	1.585	3.2	ug/L
Pb	207	262149.403	0.1	109.335	50.17934	1.205	2.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.855				
	Al	27	103.082				
>	Sc	45		104.986			
	V	51	104.277				
	Cr	52	101.404				
	Cr	53	98.813				
	Mn	55	105.085				
	Co	59	102.073				
	Ni	60	101.905				
	Ni	62	99.650				
	Cu	63	102.339				
	Cu	65	102.592				
	Zn	66	98.607				
	Zn	67	100.644				
	Zn	68	99.538				
>	Ge	72		103.577			
	As	75	102.434				
	Se	77	104.632				
	Se	78	105.034				
	Se	82	95.810				
	Kr	83					
	Y	89					
	Mo	95	105.842				
	Mo	97	107.395				
	Mo	98	106.717				
	Rh	103					
	Ag	107	102.150				
	Ag	109	102.137				
	Cd	111	101.666				
	Cd	114	102.323				
>	In	115		103.741			
	Sb	121	98.782				
	Sb	123	98.679				
	Ba	135	102.510				
	Ba	137	103.644				
>	Tb	159		95.674			
>	Ho	165		94.276			
	Tl	203	101.575				
	Tl	205	105.622				
	Pb	208	102.351				
	Pb	206	100.531				
	Pb	207	100.359				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 22, 2006 12:59:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 7.033

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.001	13.7	49.334	0.00217	0.007	339.9	ug/L
	Al	27	2536.745	0.7	2679.805	-0.03604	0.003	8.5	ug/L
>	Sc	45	403663.600	1.4	378193.541				ug/L
	V	51	4723.583	1.5	4537.327	-0.00783	0.002	21.8	ug/L
	Cr	52	15883.950	1.1	15100.490	-0.01733	0.018	105.0	ug/L
	Cr	53	706.370	3.7	618.029	0.02891	0.017	60.1	ug/L
	Mn	55	581.359	4.3	580.693	-0.00116	0.002	155.8	ug/L
	Co	59	185.337	8.9	202.004	-0.00156	0.001	79.9	ug/L
	Ni	60	170.670	3.9	196.338	-0.00956	0.003	27.9	ug/L
	Ni	62	480.352	3.9	499.020	-0.06944	0.046	66.6	ug/L
	Cu	63	450.683	3.1	505.687	-0.00918	0.001	15.1	ug/L
	Cu	65	185.337	7.6	212.672	-0.00903	0.003	31.5	ug/L
	Zn	66	1285.112	4.7	1298.448	-0.02703	0.029	105.6	ug/L
	Zn	67	287.675	4.1	302.342	-0.06810	0.022	32.5	ug/L
	Zn	68	960.732	4.1	996.736	-0.04423	0.033	74.0	ug/L
>	Ge	72	204539.147	1.5	197196.226				ug/L
	As	75	132.002	20.4	96.335	0.01279	0.011	87.7	ug/L
	Se	77	226.536	4.6	202.002	0.09145	0.071	77.8	ug/L
	Se	78	15097.852	2.2	14431.438	0.22729	0.943	415.0	mg/L
	Se	82	383.476	6.9	1747.050	-5.63113	0.109	1.9	ug/L
	Kr	83	371.679	6.0	1793.211				mg/L
	Y	89	391170.478	2.3	365281.373				ug/L
	Mo	95	753.709	22.7	120.335	0.11242	0.029	26.0	ug/L
	Mo	97	440.683	20.8	52.667	0.11016	0.025	22.3	ug/L
	Mo	98	1082.578	16.0	70.498	0.11188	0.018	15.7	ug/L
	Rh	103	357808.064	2.1	350376.944				ug/L
	Ag	107	150.670	15.3	46.001	0.00717	0.002	23.3	ug/L
	Ag	109	141.669	8.8	42.334	0.00711	0.001	14.0	ug/L
	Cd	111	226.957	5.2	203.876	0.00179	0.004	232.5	ug/L
	Cd	114	57.372	8.7	55.152	-0.00033	0.001	189.0	ug/L
>	In	115	397120.402	1.4	366049.872				ug/L
	Sb	121	1322.785	8.4	54.667	0.12662	0.009	7.4	ug/L
	Sb	123	998.091	10.1	37.221	0.13001	0.012	9.1	ug/L
	Ba	135	40.000	18.9	52.001	-0.00444	0.003	78.8	ug/L
	Ba	137	53.334	15.6	70.668	-0.00385	0.002	58.2	ug/L
>	Tb	159	411066.157	1.0	427712.876				ug/L
>	Ho	165	404258.400	1.2	412683.278				ug/L
	Tl	203	68.001	5.1	51.667	0.00224	0.000	16.5	ug/L
	Tl	205	123.335	6.6	75.334	0.00279	0.000	15.0	ug/L
	Pb	208	343.339	6.6	440.342	-0.00354	0.001	21.6	ug/L

Pb	206	87.668	9.2	119.335	-0.00452	0.001	27.0	ug/L
Pb	207	89.001	8.1	109.335	-0.00333	0.001	40.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		106.735			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.724			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		108.488			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.108			
>	Ho	165		97.959			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: CCV

Sample Date/Time: Wednesday, November 22, 2006 13:29:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\CCV.034

Not needed

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	51634.768	3.3	49.334	48.85640	0.490	1.0	ug/L
	Al	27	451982.003	2.2	2679.805	52.49399	1.731	3.3	ug/L
>	Sc	45	385408.067	4.0	378193.541				ug/L
	V	51	761492.039	2.6	4537.327	52.05621	0.748	1.4	ug/L
	Cr	52	662663.131	1.3	15100.490	50.69927	1.766	3.5	ug/L
	Cr	53	78951.291	3.3	618.029	50.67585	1.435	2.8	ug/L
	Mn	55	882682.881	0.6	580.693	50.68429	1.084	2.1	ug/L
	Co	59	759780.780	2.0	202.004	50.53028	0.589	1.2	ug/L
	Ni	60	173071.485	4.2	196.338	51.51265	1.894	3.7	ug/L
	Ni	62	26232.486	0.4	499.020	49.46365	0.924	1.9	ug/L
	Cu	63	405029.445	2.4	505.687	51.52292	1.803	3.5	ug/L
	Cu	65	197368.145	2.0	212.672	51.57955	0.812	1.6	ug/L
	Zn	66	109987.922	3.0	1298.448	48.96873	0.512	1.0	ug/L
	Zn	67	18597.961	5.7	302.342	49.13078	2.396	4.9	ug/L
	Zn	68	80433.847	1.6	996.736	49.60473	0.303	0.6	ug/L
>	Ge	72	199601.828	2.1	197196.226				ug/L
	As	75	124492.805	3.8	96.335	50.51269	1.556	3.1	ug/L
	Se	77	9626.024	1.5	202.002	51.52786	0.863	1.7	ug/L
	Se	78	45199.504	4.8	14431.438	52.84376	2.344	4.4	mg/L
	Se	82	13247.991	1.7	1747.050	46.37315	0.208	0.4	ug/L
	Kr	83	320.676	11.0	1793.211				mg/L
	Y	89	379406.222	3.9	365281.373				ug/L
	Mo	95	270879.586	0.6	120.335	52.22220	0.585	1.1	ug/L
	Mo	97	173130.819	2.6	52.667	53.13194	1.773	3.3	ug/L
	Mo	98	451014.451	3.6	70.498	53.56881	2.165	4.0	ug/L
	Rh	103	356364.604	1.1	350376.944				ug/L
	Ag	107	686307.940	4.1	46.001	52.08321	2.489	4.8	ug/L
	Ag	109	654838.390	0.6	42.334	51.85027	0.609	1.2	ug/L
	Cd	111	158802.755	3.0	203.876	51.69001	1.863	3.6	ug/L
	Cd	114	365730.979	0.7	55.152	51.75823	0.264	0.5	ug/L
>	In	115	372326.307	0.7	366049.872				ug/L
	Sb	121	471816.709	1.6	54.667	50.46259	0.815	1.6	ug/L
	Sb	123	347763.578	1.2	37.221	50.39530	0.928	1.8	ug/L
	Ba	135	117501.500	1.1	52.001	52.42343	1.009	1.9	ug/L
	Ba	137	194223.931	0.5	70.668	51.36600	0.780	1.5	ug/L
>	Tb	159	411108.788	1.2	427712.876				ug/L
>	Ho	165	397343.449	1.2	412683.278				ug/L
	Tl	203	388534.641	1.3	51.667	50.92355	0.983	1.9	ug/L
	Tl	205	910464.629	2.0	75.334	52.22761	0.877	1.7	ug/L
	Pb	208	1237941.863	0.5	440.342	50.58638	0.410	0.8	ug/L

Pb	206	319239.907	2.6	119.335	50.23455	1.046	2.1	ug/L
Pb	207	265925.667	1.2	109.335	49.82945	1.062	2.1	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		101.908			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.220			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		101.715			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.118			
>	Ho	165		96.283			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: CCB

Sample Date/Time: Wednesday, November 22, 2006 13:35:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\CCB.035

not needed

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.001	10.4	49.334	-0.00064	0.004	590.0	ug/L
	Al	27	2587.761	0.4	2679.805	-0.01862	0.008	43.4	ug/L
>	Sc	45	388018.799	2.3	378193.541				ug/L
	V	51	4996.755	6.3	4537.327	0.02313	0.014	61.8	ug/L
	Cr	52	16407.659	4.8	15100.490	0.07063	0.031	44.1	ug/L
	Cr	53	776.711	6.2	618.029	0.09141	0.023	25.1	ug/L
	Mn	55	809.381	3.9	580.693	0.01241	0.002	17.8	ug/L
	Co	59	285.341	5.1	202.004	0.00524	0.001	18.4	ug/L
	Ni	60	163.337	4.4	196.338	-0.01088	0.003	23.7	ug/L
	Ni	62	460.017	3.8	499.020	-0.09320	0.025	26.9	ug/L
	Cu	63	419.348	8.6	505.687	-0.01219	0.004	33.5	ug/L
	Cu	65	193.004	12.8	212.672	-0.00614	0.007	111.8	ug/L
	Zn	66	1247.439	3.6	1298.448	-0.03418	0.019	57.0	ug/L
	Zn	67	279.341	13.1	302.342	-0.07712	0.098	126.5	ug/L
	Zn	68	939.396	0.3	996.736	-0.04759	0.007	14.3	ug/L
>	Ge	72	201051.860	0.9	197196.226				ug/L
	As	75	119.335	3.8	96.335	0.00852	0.002	25.0	ug/L
	Se	77	231.470	2.3	202.002	0.13871	0.037	26.8	ug/L
	Se	78	14764.859	2.8	14431.438	0.08530	0.507	594.8	mg/L
	Se	82	338.207	3.0	1747.050	-5.78645	0.052	0.9	ug/L
	Kr	83	297.008	5.3	1793.211				mg/L
	Y	89	384007.952	2.2	365281.373				ug/L
	Mo	95	643.698	15.0	120.335	0.09989	0.020	19.6	ug/L
	Mo	97	392.680	18.6	52.667	0.10356	0.024	23.3	ug/L
	Mo	98	921.634	18.8	70.498	0.10051	0.022	22.3	ug/L
	Rh	103	359120.480	3.3	350376.944				ug/L
	Ag	107	153.336	12.1	46.001	0.00802	0.001	18.4	ug/L
	Ag	109	131.336	3.1	42.334	0.00693	0.000	7.2	ug/L
	Cd	111	232.980	4.8	203.876	0.00784	0.002	22.5	ug/L
	Cd	114	86.646	9.2	55.152	0.00427	0.001	33.0	ug/L
>	In	115	374678.238	2.5	366049.872				ug/L
	Sb	121	1108.086	13.0	54.667	0.11208	0.018	16.0	ug/L
	Sb	123	827.998	14.8	37.221	0.11397	0.020	17.3	ug/L
	Ba	135	38.667	32.3	52.001	-0.00557	0.005	95.8	ug/L
	Ba	137	55.001	22.1	70.668	-0.00385	0.003	79.6	ug/L
>	Tb	159	423484.834	1.6	427712.876				ug/L
>	Ho	165	394832.321	0.8	412683.278				ug/L
	Tl	203	74.001	8.4	51.667	0.00324	0.001	27.2	ug/L
	Tl	205	127.669	16.6	75.334	0.00322	0.001	39.8	ug/L
	Pb	208	365.340	8.5	440.342	-0.00230	0.001	58.5	ug/L

Pb	206	97.335	15.0	119.335	-0.00267	0.002	84.5	ug/L
Pb	207	90.335	20.9	109.335	-0.00267	0.004	138.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		102.598			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		101.955			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		102.357			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.011			
>	Ho	165		95.674			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030

Sample Date/Time: Wednesday, November 22, 2006 13:41:40
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030.036

Sample cup dry

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	39.667	22.0	49.334	2.15885	1.515	70.2	ug/L
	Al	27	35145.687	171.1	2679.805	57.43004	92.365	160.8	ug/L
>	Sc	45	12470.255	112.2	378193.541				ug/L
	V	51	3511.261	13.2	4537.327	13.99178	9.179	65.6	ug/L
	Cr	52	12139.125	29.2	15100.490	50.73307	30.266	59.7	ug/L
	Cr	53	712.044	56.3	618.029	21.18565	9.852	46.5	ug/L
	Mn	55	8400.163	81.0	580.693	105.70483	64.610	61.1	ug/L
	Co	59	266.676	100.8	202.004	3.16013	1.646	52.1	ug/L
	Ni	60	378.022	128.3	196.338	13.90443	4.110	29.6	ug/L
	Ni	62	328.343	25.5	499.020	208.42812	159.318	76.4	ug/L
	Cu	63	312.010	52.2	505.687	10.93734	7.685	70.3	ug/L
	Cu	65	167.004	41.2	212.672	13.01405	9.468	72.7	ug/L
	Zn	66	224.339	60.1	1298.448	25.83110	18.029	69.8	ug/L
	Zn	67	111.669	14.6	302.342	105.33999	82.412	78.2	ug/L
	Zn	68	461.684	14.1	996.736	101.40157	78.671	77.6	ug/L
>	Ge	72	2226.405	145.3	197196.226				ug/L
	As	75	88.668	19.7	96.335	12.45164	9.683	77.8	ug/L
	Se	77	140.935	1.1	202.002	292.25760	232.105	79.4	ug/L
	Se	78	18908.529	3.4	14431.438	12685.28468	10121.155	79.8	mg/L
	Se	82	1876.411	3.9	1747.050	2944.70663	2353.774	79.9	ug/L
	Kr	83	1900.903	2.8	1793.211				mg/L
	Y	89	2333.978	169.8	365281.373				ug/L
	Mo	95	109.335	18.9	120.335	143.39028	138.949	96.9	ug/L
	Mo	97	42.334	49.1	52.667	73.39690	75.084	102.3	ug/L
	Mo	98	45.161	70.3	70.498	24.30604	22.796	93.8	ug/L
	Rh	103	1671.174	170.2	350376.944				ug/L
	Ag	107	48.001	14.4	46.001	27.68780	24.762	89.4	ug/L
	Ag	109	43.334	13.3	42.334	23.96655	22.862	95.4	ug/L
	Cd	111	87.376	16.1	203.876	196.52499	173.334	88.2	ug/L
	Cd	114	151.775	12.8	55.152	151.18769	135.266	89.5	ug/L
>	In	115	1414.507	168.8	366049.872				ug/L
	Sb	121	36.334	22.1	54.667	25.27883	22.295	88.2	ug/L
	Sb	123	35.408	25.1	37.221	35.66360	30.544	85.6	ug/L
	Ba	135	96.002	111.9	52.001	82.23161	90.388	109.9	ug/L
	Ba	137	156.005	128.9	70.668	54.55911	52.291	95.8	ug/L
>	Tb	159	1454.369	164.0	427712.876				ug/L
>	Ho	165	1329.977	164.4	412683.278				ug/L
	Tl	203	105.002	8.3	51.667	107.96400	143.674	133.1	ug/L
	Tl	205	229.672	19.2	75.334	96.12320	121.257	126.1	ug/L
	Pb	208	196.003	24.8	440.342	53.87630	72.010	133.7	ug/L

Pb	206	58.001	23.7	119.335	60.65583	79.857	131.7	ug/L
Pb	207	50.001	23.1	109.335	63.71387	85.143	133.6	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		3.297			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		1.129			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		0.386			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		0.340			
>	Ho	165		0.322			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 22, 2006 13:47:38
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 6.037

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	52390.694	0.2	49.334	50.07421	0.755	1.5	ug/L
	Al	27	448387.690	2.1	2679.805	52.57198	1.070	2.0	ug/L
>	Sc	45	381528.234	1.6	378193.541				ug/L
	V	51	763510.189	2.7	4537.327	52.71457	1.488	2.8	ug/L
	Cr	52	674336.613	1.9	15100.490	52.10710	0.851	1.6	ug/L
	Cr	53	77771.158	2.7	618.029	50.39676	0.568	1.1	ug/L
	Mn	55	907879.305	0.4	580.693	52.37048	1.891	3.6	ug/L
	Co	59	762287.345	2.6	202.004	50.91408	1.039	2.0	ug/L
	Ni	60	170968.456	1.9	196.338	51.11552	1.344	2.6	ug/L
	Ni	62	26176.352	4.0	499.020	49.54867	1.227	2.5	ug/L
	Cu	63	400951.733	1.7	505.687	51.21461	1.137	2.2	ug/L
	Cu	65	196362.464	2.6	212.672	51.54347	1.536	3.0	ug/L
	Zn	66	110002.591	4.3	1298.448	49.17413	0.893	1.8	ug/L
	Zn	67	18609.609	0.6	302.342	49.41368	1.838	3.7	ug/L
	Zn	68	81773.259	2.7	996.736	50.67819	2.010	4.0	ug/L
>	Ge	72	198805.022	3.6	197196.226				ug/L
	As	75	121472.809	0.3	96.335	49.52493	1.697	3.4	ug/L
	Se	77	9436.610	2.9	202.002	50.73076	2.265	4.5	ug/L
	Se	78	44246.889	2.2	14431.438	51.61914	4.066	7.9	mg/L
	Se	82	13168.466	2.0	1747.050	46.28931	1.365	2.9	ug/L
	Kr	83	332.677	4.1	1793.211				mg/L
	Y	89	385344.943	3.5	365281.373				ug/L
	Mo	95	274167.483	1.6	120.335	54.08085	0.928	1.7	ug/L
	Mo	97	177817.506	3.6	52.667	55.82912	2.085	3.7	ug/L
	Mo	98	451267.123	3.9	70.498	54.82195	1.605	2.9	ug/L
	Rh	103	349677.741	3.4	350376.944				ug/L
	Ag	107	675039.132	2.2	46.001	52.40442	1.147	2.2	ug/L
	Ag	109	635492.067	3.0	42.334	51.47312	0.999	1.9	ug/L
	Cd	111	158106.055	0.1	203.876	52.65205	0.599	1.1	ug/L
	Cd	114	359081.026	4.3	55.152	51.98326	1.791	3.4	ug/L
>	In	115	363905.132	1.1	366049.872				ug/L
	Sb	121	463323.517	2.3	54.667	50.69572	0.628	1.2	ug/L
	Sb	123	335469.803	1.2	37.221	49.73753	0.649	1.3	ug/L
	Ba	135	113820.398	2.2	52.001	51.48448	0.561	1.1	ug/L
	Ba	137	191633.688	0.8	70.668	51.39072	0.565	1.1	ug/L
>	Tb	159	405440.194	1.9	427712.876				ug/L
>	Ho	165	388503.176	3.1	412683.278				ug/L
	Tl	203	376340.021	0.9	51.667	50.46528	1.181	2.3	ug/L
	Tl	205	895526.261	1.1	75.334	52.56151	1.139	2.2	ug/L
	Pb	208	1216950.666	1.2	440.342	50.87780	1.045	2.1	ug/L

Pb	206	313369.901	1.5	119.335	50.45021	0.789	1.6	ug/L
Pb	207	263337.300	1.1	109.335	50.49969	1.999	4.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.148				
	Al	27	105.144				
>	Sc	45		100.882			
	V	51	105.429				
	Cr	52	104.214				
	Cr	53	100.794				
	Mn	55	104.741				
	Co	59	101.828				
	Ni	60	102.231				
	Ni	62	99.097				
	Cu	63	102.429				
	Cu	65	103.087				
	Zn	66	98.348				
	Zn	67	98.827				
	Zn	68	101.356				
>	Ge	72		100.816			
	As	75	99.050				
	Se	77	101.462				
	Se	78	103.238				
	Se	82	92.579				
	Kr	83					
	Y	89					
	Mo	95	108.162				
	Mo	97	111.658				
	Mo	98	109.644				
	Rh	103					
	Ag	107	104.809				
	Ag	109	102.946				
	Cd	111	105.304				
	Cd	114	103.967				
>	In	115		99.414			
	Sb	121	101.391				
	Sb	123	99.475				
	Ba	135	102.969				
	Ba	137	102.781				
>	Tb	159		94.793			
>	Ho	165		94.141			
	Tl	203	100.931				
	Tl	205	105.123				
	Pb	208	101.756				
	Pb	206	100.900				
	Pb	207	100.999				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 22, 2006 13:53:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 7.038

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	55.001	7.3	49.334	0.00294	0.003	107.4	ug/L
	Al	27	2626.440	3.2	2679.805	-0.02118	0.005	21.9	ug/L
>	Sc	45	397120.925	3.8	378193.541				ug/L
	V	51	4695.291	3.7	4537.327	-0.00458	0.006	120.2	ug/L
	Cr	52	15610.433	1.8	15100.490	-0.01806	0.025	139.7	ug/L
	Cr	53	684.035	2.9	618.029	0.02213	0.007	29.8	ug/L
	Mn	55	662.366	8.0	580.693	0.00336	0.004	107.1	ug/L
	Co	59	230.339	5.6	202.004	0.00135	0.001	85.8	ug/L
	Ni	60	147.003	7.1	196.338	-0.01653	0.003	17.4	ug/L
	Ni	62	507.021	4.9	499.020	-0.02158	0.020	94.1	ug/L
	Cu	63	438.016	2.2	505.687	-0.01077	0.003	26.1	ug/L
	Cu	65	181.670	6.8	212.672	-0.00999	0.003	30.9	ug/L
	Zn	66	1259.441	6.9	1298.448	-0.03974	0.019	48.6	ug/L
	Zn	67	277.341	9.3	302.342	-0.09697	0.047	48.8	ug/L
	Zn	68	896.724	6.0	996.736	-0.08384	0.041	48.4	ug/L
>	Ge	72	204868.353	3.5	197196.226				ug/L
	As	75	115.335	9.3	96.335	0.00614	0.005	88.8	ug/L
	Se	77	228.870	1.0	202.002	0.10198	0.030	29.9	ug/L
	Se	78	14768.183	3.9	14431.438	-0.36941	0.922	249.5	mg/L
	Se	82	340.274	2.3	1747.050	-5.80208	0.078	1.3	ug/L
	Kr	83	308.675	2.3	1793.211				mg/L
	Y	89	385016.004	2.5	365281.373				ug/L
	Mo	95	670.034	17.8	120.335	0.10214	0.021	20.3	ug/L
	Mo	97	396.347	23.5	52.667	0.10191	0.026	26.0	ug/L
	Mo	98	915.928	22.7	70.498	0.09727	0.023	23.2	ug/L
	Rh	103	348763.506	2.9	350376.944				ug/L
	Ag	107	158.336	17.7	46.001	0.00814	0.002	23.7	ug/L
	Ag	109	141.336	20.9	42.334	0.00747	0.002	28.4	ug/L
	Cd	111	210.404	6.5	203.876	-0.00080	0.003	408.4	ug/L
	Cd	114	72.878	20.2	55.152	0.00213	0.002	100.8	ug/L
>	In	115	382078.307	1.7	366049.872				ug/L
	Sb	121	1212.769	17.4	54.667	0.12028	0.020	16.9	ug/L
	Sb	123	913.511	20.3	37.221	0.12327	0.024	19.8	ug/L
	Ba	135	49.334	12.2	52.001	0.00016	0.003	1850.5	ug/L
	Ba	137	57.667	24.3	70.668	-0.00239	0.004	161.8	ug/L
>	Tb	159	403204.942	1.0	427712.876				ug/L
>	Ho	165	402032.958	0.7	412683.278				ug/L
	Tl	203	64.668	14.4	51.667	0.00186	0.001	67.6	ug/L
	Tl	205	117.669	12.4	75.334	0.00251	0.001	32.6	ug/L
	Pb	208	342.339	1.4	440.342	-0.00350	0.000	3.3	ug/L

Pb	206	96.335	5.2	119.335	-0.00310	0.001	24.1	ug/L
Pb	207	90.335	14.4	109.335	-0.00300	0.002	79.3	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		105.005			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		103.891			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		104.379			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		94.270			
>	Ho	165		97.419			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030

Sample Date/Time: Wednesday, November 22, 2006 14:04:24
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030.039

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	75.334	11.1	49.334	0.00712	0.006	84.6	ug/L
	Al	27	1848628.606	10.9	2679.805	165.37562	19.520	11.8	ug/L
>	Sc	45	502477.810	2.3	378193.541				ug/L
	V	51	21009.724	46.3	4537.327	0.79599	0.526	66.1	ug/L
	Cr	52	169853.098	14.5	15100.490	9.01049	1.632	18.1	ug/L
	Cr	53	15646.166	1.6	618.029	7.35588	0.152	2.1	ug/L
	Mn	55	310145.460	1.5	580.693	15.75983	0.107	0.7	ug/L
	Co	59	9227.198	0.4	202.004	0.53057	0.004	0.7	ug/L
	Ni	60	28976.288	3.6	196.338	7.59652	0.315	4.1	ug/L
	Ni	62	3954.978	1.2	499.020	5.76907	0.122	2.1	ug/L
	Cu	63	8870.808	1.4	505.687	0.93617	0.016	1.7	ug/L
	Cu	65	3988.662	3.2	212.672	0.86866	0.026	3.0	ug/L
	Zn	66	7137.796	3.3	1298.448	2.25915	0.078	3.4	ug/L
	Zn	67	1412.134	3.7	302.342	2.54054	0.099	3.9	ug/L
	Zn	68	6824.528	0.6	996.736	3.14842	0.028	0.9	ug/L
>	Ge	72	225146.593	0.8	197196.226				ug/L
	As	75	720.705	3.0	96.335	0.21983	0.006	2.6	ug/L
	Se	77	338.940	1.9	202.002	0.52519	0.039	7.5	ug/L
	Se	78	17234.549	0.9	14431.438	1.16092	0.173	14.9	mg/L
	Se	82	460.613	1.4	1747.050	-5.49352	0.022	0.4	ug/L
	Kr	83	354.011	1.1	1793.211				mg/L
	Y	89	452555.866	0.6	365281.373				ug/L
	Mo	95	1523.489	10.9	120.335	0.23714	0.029	12.3	ug/L
	Mo	97	921.394	5.4	52.667	0.23450	0.014	6.1	ug/L
	Mo	98	2254.605	6.8	70.498	0.22911	0.017	7.4	ug/L
	Rh	103	368802.219	0.3	350376.944				ug/L
	Ag	107	102.335	8.3	46.001	0.00334	0.001	17.5	ug/L
	Ag	109	76.001	10.5	42.334	0.00193	0.001	30.6	ug/L
	Cd	111	298.664	8.2	203.876	0.01876	0.007	36.8	ug/L
	Cd	114	172.267	86.5	55.152	0.01368	0.019	136.5	ug/L
>	In	115	419659.132	0.5	366049.872				ug/L
	Sb	121	619.696	8.0	54.667	0.05287	0.005	9.1	ug/L
	Sb	123	483.215	8.2	37.221	0.05665	0.005	9.3	ug/L
	Ba	135	22343.480	2.2	52.001	9.76806	0.284	2.9	ug/L
	Ba	137	39995.531	2.8	70.668	10.36725	0.197	1.9	ug/L
>	Tb	159	418779.217	1.1	427712.876				ug/L
>	Ho	165	409300.098	0.8	412683.278				ug/L
	Tl	203	176.670	5.7	51.667	0.01597	0.001	9.0	ug/L
	Tl	205	402.014	2.4	75.334	0.01823	0.001	3.2	ug/L
	Pb	208	8824.916	0.7	440.342	0.33287	0.004	1.3	ug/L

Pb	206	2275.333	0.2	119.335	0.32964	0.003	1.0	ug/L
Pb	207	1887.233	2.6	109.335	0.32370	0.011	3.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		132.863			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		114.174			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		114.645			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.911			
>	Ho	165		99.180			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030D

Sample Date/Time: Wednesday, November 22, 2006 14:10:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030D.040

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	70.334	6.4	49.334	0.00325	0.003	92.8	ug/L
	Al	27	1923009.969	1.1	2679.805	171.17576	1.196	0.7	ug/L
>	Sc	45	504610.461	1.0	378193.541				ug/L
	V	51	13483.917	7.0	4537.327	0.39035	0.053	13.7	ug/L
	Cr	52	173913.750	1.7	15100.490	9.19193	0.240	2.6	ug/L
	Cr	53	18961.073	1.5	618.029	8.96028	0.232	2.6	ug/L
	Mn	55	322992.002	1.0	580.693	16.27493	0.202	1.2	ug/L
	Co	59	9475.814	2.3	202.004	0.54056	0.018	3.3	ug/L
	Ni	60	32890.782	1.3	196.338	8.55798	0.281	3.3	ug/L
	Ni	62	4516.602	1.4	499.020	6.66223	0.250	3.7	ug/L
	Cu	63	8946.227	3.9	505.687	0.93650	0.053	5.7	ug/L
	Cu	65	4455.569	2.9	212.672	0.96813	0.025	2.6	ug/L
	Zn	66	7926.848	1.6	1298.448	2.54847	0.098	3.9	ug/L
	Zn	67	1476.812	4.6	302.342	2.66420	0.130	4.9	ug/L
	Zn	68	7478.095	1.0	996.736	3.47495	0.041	1.2	ug/L
>	Ge	72	227108.444	2.0	197196.226				ug/L
	As	75	761.709	1.8	96.335	0.23238	0.010	4.2	ug/L
	Se	77	354.008	2.2	202.002	0.58420	0.071	12.2	ug/L
	Se	78	17723.675	2.3	14431.438	1.69076	1.150	68.0	mg/L
	Se	82	479.214	3.5	1747.050	-5.44196	0.036	0.7	ug/L
	Kr	83	351.011	7.7	1793.211				mg/L
	Y	89	461187.766	1.8	365281.373				ug/L
	Mo	95	1473.478	2.5	120.335	0.23759	0.005	2.1	ug/L
	Mo	97	923.060	1.8	52.667	0.24399	0.005	2.2	ug/L
	Mo	98	2127.492	4.1	70.498	0.22380	0.011	4.9	ug/L
	Rh	103	383350.402	1.2	350376.944				ug/L
	Ag	107	129.669	10.2	46.001	0.00549	0.001	16.4	ug/L
	Ag	109	95.001	5.3	42.334	0.00350	0.000	10.3	ug/L
	Cd	111	288.427	2.0	203.876	0.01881	0.001	6.2	ug/L
	Cd	114	164.365	52.4	55.152	0.01347	0.011	83.7	ug/L
>	In	115	405063.314	0.6	366049.872				ug/L
	Sb	121	478.685	0.7	54.667	0.04112	0.000	0.1	ug/L
	Sb	123	360.159	4.8	37.221	0.04250	0.003	6.0	ug/L
	Ba	135	22793.696	1.4	52.001	9.91296	0.229	2.3	ug/L
	Ba	137	39404.686	1.6	70.668	10.16267	0.245	2.4	ug/L
>	Tb	159	420982.243	0.9	427712.876				ug/L
>	Ho	165	395760.284	1.6	412683.278				ug/L
	Tl	203	190.004	11.5	51.667	0.01846	0.002	13.5	ug/L
	Tl	205	388.680	5.7	75.334	0.01823	0.001	7.9	ug/L
	Pb	208	8608.154	0.5	440.342	0.33598	0.004	1.2	ug/L

Pb	206	2217.651	2.5	119.335	0.33244	0.009	2.6	ug/L
Pb	207	1859.226	2.6	109.335	0.33024	0.013	3.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		133.427			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		115.169			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		110.658			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.426			
>	Ho	165		95.899			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030S

Sample Date/Time: Wednesday, November 22, 2006 14:16:18
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030S.041

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	22533.652	0.9	49.334	15.75518	0.422	2.7	ug/L
	Al	27	2782959.788	0.9	2679.805	240.30430	3.916	1.6	ug/L
>	Sc	45	520571.640	2.1	378193.541				ug/L
	V	51	388694.187	2.2	4537.327	19.46697	0.088	0.5	ug/L
	Cr	52	468857.641	2.3	15100.490	25.96033	0.195	0.8	ug/L
	Cr	53	56349.773	0.4	618.029	26.58340	0.670	2.5	ug/L
	Mn	55	759925.382	1.2	580.693	37.04847	0.191	0.5	ug/L
	Co	59	374923.467	0.8	202.004	21.17348	0.091	0.4	ug/L
	Ni	60	107483.502	1.0	196.338	27.14999	0.426	1.6	ug/L
	Ni	62	16182.860	0.9	499.020	25.45625	0.486	1.9	ug/L
	Cu	63	205459.527	1.1	505.687	22.16084	0.486	2.2	ug/L
	Cu	65	96004.147	0.7	212.672	21.28073	0.348	1.6	ug/L
	Zn	66	51527.345	1.3	1298.448	19.13368	0.105	0.6	ug/L
	Zn	67	9269.245	0.7	302.342	20.33368	0.376	1.9	ug/L
	Zn	68	39544.333	0.6	996.736	20.35090	0.309	1.5	ug/L
>	Ge	72	234965.056	1.1	197196.226				ug/L
	As	75	56142.750	1.7	96.335	19.33135	0.553	2.9	ug/L
	Se	77	4074.996	0.5	202.002	17.81303	0.261	1.5	ug/L
	Se	78	29600.077	0.2	14431.438	18.21521	0.562	3.1	mg/L
	Se	82	5664.725	1.0	1747.050	12.29512	0.026	0.2	ug/L
	Kr	83	363.345	7.6	1793.211				mg/L
	Y	89	475633.910	1.5	365281.373				ug/L
	Mo	95	138469.704	2.2	120.335	24.58152	0.898	3.7	ug/L
	Mo	97	84284.376	2.0	52.667	23.82481	1.087	4.6	ug/L
	Mo	98	222402.300	1.9	70.498	24.33869	1.178	4.8	ug/L
	Rh	103	376487.173	0.9	350376.944				ug/L
	Ag	107	302270.461	1.8	46.001	21.13046	0.836	4.0	ug/L
	Ag	109	281491.439	0.4	42.334	20.53869	0.884	4.3	ug/L
	Cd	111	65333.121	1.3	203.876	19.55115	0.762	3.9	ug/L
	Cd	114	146051.434	0.8	55.152	19.04500	0.862	4.5	ug/L
>	In	115	404429.536	3.8	366049.872				ug/L
	Sb	121	203710.840	0.2	54.667	20.07462	0.803	4.0	ug/L
	Sb	123	150200.795	2.1	37.221	20.04327	0.435	2.2	ug/L
	Ba	135	71656.842	1.3	52.001	32.12590	0.286	0.9	ug/L
	Ba	137	121822.899	0.8	70.668	32.37884	0.245	0.8	ug/L
>	Tb	159	408939.677	0.4	427712.876				ug/L
>	Ho	165	403637.292	1.1	412683.278				ug/L
	Tl	203	159127.638	1.2	51.667	20.52667	0.358	1.7	ug/L
	Tl	205	376622.492	1.9	75.334	21.26674	0.470	2.2	ug/L
	Pb	208	518468.097	0.8	440.342	20.84721	0.384	1.8	ug/L

Pb	206	134660.878	1.9	119.335	20.85156	0.490	2.3	ug/L
Pb	207	111393.102	1.4	109.335	20.53599	0.489	2.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		137.647			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		119.153			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		110.485			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.611			
>	Ho	165		97.808			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030A

Sample Date/Time: Wednesday, November 22, 2006 14:22:16
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030A.042

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	24356.469	2.6	49.334	17.13702	0.337	2.0	ug/L
	Al	27	2326513.922	0.8	2679.805	202.13886	4.639	2.3	ug/L
>	Sc	45	517238.950	1.5	378193.541				ug/L
	V	51	425721.461	5.9	4537.327	21.48661	1.107	5.2	ug/L
	Cr	52	525540.212	10.5	15100.490	29.43340	3.094	10.5	ug/L
	Cr	53	66581.871	18.8	618.029	31.70884	6.242	19.7	ug/L
	Mn	55	774696.562	3.5	580.693	37.95970	2.206	5.8	ug/L
	Co	59	399908.893	3.2	202.004	22.67608	0.298	1.3	ug/L
	Ni	60	116894.653	3.5	196.338	29.64740	0.417	1.4	ug/L
	Ni	62	16505.508	3.5	499.020	26.09801	0.991	3.8	ug/L
	Cu	63	203910.753	3.0	505.687	22.07987	0.288	1.3	ug/L
	Cu	65	100024.788	1.4	212.672	22.27483	0.740	3.3	ug/L
	Zn	66	53984.520	1.3	1298.448	20.16351	0.198	1.0	ug/L
	Zn	67	9149.446	2.3	302.342	20.14508	0.205	1.0	ug/L
	Zn	68	39852.476	1.4	996.736	20.60913	0.655	3.2	ug/L
>	Ge	72	233991.015	2.3	197196.226				ug/L
	As	75	59367.648	0.4	96.335	20.53082	0.393	1.9	ug/L
	Se	77	4351.869	0.2	202.002	19.18804	0.437	2.3	ug/L
	Se	78	31066.586	2.1	14431.438	20.58338	1.999	9.7	mg/L
	Se	82	6065.473	0.5	1747.050	13.76240	0.377	2.7	ug/L
	Kr	83	369.345	3.2	1793.211				mg/L
	Y	89	476918.064	2.1	365281.373				ug/L
	Mo	95	147544.737	3.3	120.335	25.99563	1.003	3.9	ug/L
	Mo	97	90801.308	1.4	52.667	25.46585	0.555	2.2	ug/L
	Mo	98	229429.222	1.3	70.498	24.91363	0.855	3.4	ug/L
	Rh	103	389099.213	1.4	350376.944				ug/L
	Ag	107	115.669	8.7	46.001	0.00448	0.001	19.2	ug/L
	Ag	109	86.668	5.2	42.334	0.00287	0.000	13.0	ug/L
	Cd	111	70532.299	2.7	203.876	20.95789	1.035	4.9	ug/L
	Cd	114	150923.026	2.4	55.152	19.53191	0.906	4.6	ug/L
>	In	115	407328.984	2.3	366049.872				ug/L
	Sb	121	207419.140	0.9	54.667	20.28199	0.542	2.7	ug/L
	Sb	123	158006.282	1.3	37.221	20.93554	0.714	3.4	ug/L
	Ba	135	22183.712	1.1	52.001	9.71697	0.066	0.7	ug/L
	Ba	137	38720.808	1.0	70.668	10.05877	0.126	1.3	ug/L
>	Tb	159	417898.799	0.7	427712.876				ug/L
>	Ho	165	406237.510	0.8	412683.278				ug/L
	Tl	203	168463.224	1.1	51.667	21.59057	0.248	1.1	ug/L
	Tl	205	388510.074	1.4	75.334	21.79735	0.415	1.9	ug/L
	Pb	208	536846.673	0.8	440.342	21.44721	0.317	1.5	ug/L

Pb	206	138882.198	1.1	119.335	21.36601	0.209	1.0	ug/L
Pb	207	116718.984	1.4	109.335	21.38000	0.476	2.2	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		136.766			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		118.659			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		111.277			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.705			
>	Ho	165		98.438			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950030L

Sample Date/Time: Wednesday, November 22, 2006 14:28:13
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950030L.043

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	50.001	19.3	49.334	-0.00410	0.008	189.6	ug/L
	Al	27	327766.643	2.5	2679.805	34.92477	1.439	4.1	ug/L
>	Sc	45	418707.580	2.0	378193.541				ug/L
	V	51	5516.888	12.2	4537.327	0.03121	0.042	134.2	ug/L
	Cr	52	39459.266	0.8	15100.490	1.63862	0.037	2.3	ug/L
	Cr	53	3456.751	0.8	618.029	1.65113	0.049	3.0	ug/L
	Mn	55	62441.448	2.5	580.693	3.30358	0.057	1.7	ug/L
	Co	59	1832.220	2.2	202.004	0.09982	0.003	2.8	ug/L
	Ni	60	5443.500	4.1	196.338	1.44981	0.047	3.3	ug/L
	Ni	62	1033.074	1.3	499.020	0.87700	0.032	3.6	ug/L
	Cu	63	1907.571	2.0	505.687	0.16089	0.007	4.5	ug/L
	Cu	65	1012.405	2.2	212.672	0.19021	0.009	4.7	ug/L
	Zn	66	1955.916	1.0	1298.448	0.22798	0.012	5.3	ug/L
	Zn	67	404.681	1.9	302.342	0.18942	0.009	4.6	ug/L
	Zn	68	1679.186	1.0	996.736	0.34576	0.005	1.3	ug/L
>	Ge	72	214509.916	1.4	197196.226				ug/L
	As	75	217.672	7.9	96.335	0.04262	0.006	13.7	ug/L
	Se	77	253.137	2.0	202.002	0.16991	0.015	8.7	ug/L
	Se	78	16266.708	0.6	14431.438	0.91842	0.512	55.8	mg/L
	Se	82	364.608	1.7	1747.050	-5.77226	0.040	0.7	ug/L
	Kr	83	328.343	10.5	1793.211				mg/L
	Y	89	419214.150	3.4	365281.373				ug/L
	Mo	95	357.345	2.6	120.335	0.04235	0.002	4.2	ug/L
	Mo	97	196.004	9.4	52.667	0.04114	0.006	13.6	ug/L
	Mo	98	461.182	2.8	70.498	0.04391	0.002	3.7	ug/L
	Rh	103	358290.922	1.0	350376.944				ug/L
	Ag	107	76.334	11.3	46.001	0.00199	0.001	32.5	ug/L
	Ag	109	66.001	20.0	42.334	0.00159	0.001	63.0	ug/L
	Cd	111	240.701	4.3	203.876	0.00748	0.003	41.8	ug/L
	Cd	114	70.790	35.8	55.152	0.00166	0.003	209.2	ug/L
>	In	115	389080.316	0.4	366049.872				ug/L
	Sb	121	460.017	14.3	54.667	0.04116	0.007	16.8	ug/L
	Sb	123	339.486	15.1	37.221	0.04161	0.007	17.5	ug/L
	Ba	135	4378.194	1.4	52.001	1.90333	0.025	1.3	ug/L
	Ba	137	7689.624	1.4	70.668	1.98674	0.028	1.4	ug/L
>	Tb	159	417152.578	0.9	427712.876				ug/L
>	Ho	165	392098.178	1.7	412683.278				ug/L
	Tl	203	59.001	6.8	51.667	0.00131	0.000	31.1	ug/L
	Tl	205	145.003	4.2	75.334	0.00427	0.000	9.5	ug/L
	Pb	208	1950.107	2.4	440.342	0.06346	0.003	4.0	ug/L

Pb	206	534.022	4.7	119.335	0.06716	0.005	7.9	ug/L
Pb	207	414.014	6.4	109.335	0.05889	0.005	7.8	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		110.713			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		108.780			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.292			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.531			
>	Ho	165		95.012			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950031

Sample Date/Time: Wednesday, November 22, 2006 14:34:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950031.044

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	121.669	7.5	49.334	0.03988	0.011	26.5	ug/L
	Al	27	7217610.894	2.1	2679.805	637.86166	23.681	3.7	ug/L
>	Sc	45	509486.381	4.7	378193.541				ug/L
	V	51	43686.637	27.1	4537.327	1.97334	0.722	36.6	ug/L
	Cr	52	579176.578	7.3	15100.490	33.19963	4.026	12.1	ug/L
	Cr	53	64558.080	0.5	618.029	31.22454	1.526	4.9	ug/L
	Mn	55	855375.601	1.2	580.693	42.68797	1.542	3.6	ug/L
	Co	59	31550.602	1.3	202.004	1.81173	0.085	4.7	ug/L
	Ni	60	90024.020	5.0	196.338	23.29188	1.979	8.5	ug/L
	Ni	62	12884.418	2.2	499.020	20.56603	1.001	4.9	ug/L
	Cu	63	27721.314	1.4	505.687	3.00358	0.108	3.6	ug/L
	Cu	65	13374.199	3.4	212.672	2.98889	0.227	7.6	ug/L
	Zn	66	14063.666	1.5	1298.448	4.91751	0.168	3.4	ug/L
	Zn	67	2555.418	3.9	302.342	5.14645	0.296	5.8	ug/L
	Zn	68	11774.100	2.4	996.736	5.76277	0.249	4.3	ug/L
>	Ge	72	229772.382	3.9	197196.226				ug/L
	As	75	2805.834	0.3	96.335	0.95114	0.037	3.9	ug/L
	Se	77	435.745	2.5	202.002	0.95341	0.077	8.0	ug/L
	Se	78	17766.800	0.4	14431.438	1.45464	1.010	69.4	mg/L
	Se	82	567.619	1.0	1747.050	-5.14964	0.063	1.2	ug/L
	Kr	83	371.679	4.7	1793.211				mg/L
	Y	89	492780.305	1.4	365281.373				ug/L
	Mo	95	10137.937	3.8	120.335	1.84128	0.077	4.2	ug/L
	Mo	97	6391.848	2.2	52.667	1.85452	0.033	1.8	ug/L
	Mo	98	16408.263	3.1	70.498	1.85030	0.063	3.4	ug/L
	Rh	103	377403.948	2.3	350376.944				ug/L
	Ag	107	126.002	9.2	46.001	0.00557	0.001	14.6	ug/L
	Ag	109	110.335	5.5	42.334	0.00492	0.000	9.1	ug/L
	Cd	111	415.679	6.2	203.876	0.06161	0.008	13.0	ug/L
	Cd	114	382.880	30.7	55.152	0.04378	0.016	36.7	ug/L
>	In	115	390405.123	0.4	366049.872				ug/L
	Sb	121	802.047	8.3	54.667	0.07588	0.007	9.2	ug/L
	Sb	123	594.223	2.8	37.221	0.07663	0.002	2.7	ug/L
	Ba	135	34252.262	1.1	52.001	15.27690	0.196	1.3	ug/L
	Ba	137	57873.558	1.9	70.668	15.30482	0.348	2.3	ug/L
>	Tb	159	410775.406	0.8	427712.876				ug/L
>	Ho	165	396732.427	1.8	412683.278				ug/L
	Tl	203	406.681	6.3	51.667	0.04684	0.002	5.1	ug/L
	Tl	205	939.396	7.6	75.334	0.04979	0.004	7.1	ug/L
	Pb	208	34928.487	0.1	440.342	1.41290	0.028	2.0	ug/L

Pb	206	9048.334	1.1	119.335	1.40860	0.012	0.8	ug/L
Pb	207	7294.932	1.6	109.335	1.35007	0.040	3.0	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		134.716			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		116.520			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.654			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.040			
>	Ho	165		96.135			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: 950032

Sample Date/Time: Wednesday, November 22, 2006 14:40:09
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID: M3990146
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\950032.045

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1179.429	1.8	49.334	0.76436	0.010	1.3	ug/L
	Al	27	31347665.117	0.5	2679.805	2660.99768	27.220	1.0	ug/L
>	Sc	45	530086.828	0.7	378193.541				ug/L
	V	51	30345.010	289.4	4537.327	1.18136	4.379	370.7	ug/L
	Cr	52	737367.884	11.1	15100.490	40.74277	4.539	11.1	ug/L
	Cr	53	84184.258	0.4	618.029	39.17879	0.149	0.4	ug/L
	Mn	55	12007406.121	2.3	580.693	578.46262	20.689	3.6	ug/L
	Co	59	325794.853	1.2	202.004	18.16212	0.478	2.6	ug/L
	Ni	60	296801.524	12.4	196.338	74.19524	10.390	14.0	ug/L
	Ni	62	42508.591	1.8	499.020	67.53381	0.270	0.4	ug/L
	Cu	63	49577.871	0.5	505.687	5.22852	0.106	2.0	ug/L
	Cu	65	19445.188	0.3	212.672	4.20929	0.053	1.3	ug/L
	Zn	66	185466.672	1.6	1298.448	69.48879	0.738	1.1	ug/L
	Zn	67	30020.634	2.6	302.342	66.82066	2.624	3.9	ug/L
	Zn	68	135055.000	2.4	996.736	70.11425	2.732	3.9	ug/L
>	Ge	72	238058.259	1.5	197196.226				ug/L
	As	75	5121.960	3.7	96.335	1.70505	0.087	5.1	ug/L
	Se	77	868.245	2.3	202.002	2.86278	0.073	2.5	ug/L
	Se	78	17677.253	1.7	14431.438	0.37691	0.757	200.9	mg/L
	Se	82	545.818	2.7	1747.050	-5.29402	0.063	1.2	ug/L
	Kr	83	427.349	5.3	1793.211				mg/L
	Y	89	831481.709	1.7	365281.373				ug/L
	Mo	95	5365.451	5.9	120.335	0.92429	0.053	5.7	ug/L
	Mo	97	3182.306	1.7	52.667	0.87836	0.012	1.3	ug/L
	Mo	98	8524.912	0.7	70.498	0.91920	0.016	1.7	ug/L
	Rh	103	371976.256	3.4	350376.944				ug/L
	Ag	107	300.675	5.4	46.001	0.01736	0.001	7.5	ug/L
	Ag	109	243.006	3.3	42.334	0.01422	0.001	5.2	ug/L
	Cd	111	4254.203	0.6	203.876	1.20254	0.016	1.3	ug/L
	Cd	114	8811.608	2.3	55.152	1.13469	0.029	2.5	ug/L
>	In	115	406429.901	1.1	366049.872				ug/L
	Sb	121	689.035	3.5	54.667	0.06159	0.003	4.7	ug/L
	Sb	123	531.122	4.4	37.221	0.06501	0.002	3.7	ug/L
	Ba	135	132093.809	2.6	52.001	57.23763	2.327	4.1	ug/L
	Ba	137	224051.030	1.6	70.668	57.52627	0.174	0.3	ug/L
>	Tb	159	423424.580	1.6	427712.876				ug/L
>	Ho	165	410752.626	1.1	412683.278				ug/L
	Tl	203	703.037	12.9	51.667	0.08262	0.012	14.0	ug/L
	Tl	205	1713.530	17.1	75.334	0.09095	0.017	18.2	ug/L
	Pb	208	64167.904	2.1	440.342	2.52037	0.076	3.0	ug/L

Pb	206	17018.200	1.9	119.335	2.57394	0.076	3.0	ug/L
Pb	207	13303.413	1.9	109.335	2.39263	0.064	2.7	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		140.163			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		120.722			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		111.031			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.997			
>	Ho	165		99.532			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, November 22, 2006 14:46:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 3.046

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	1214.767	4.5	49.334	1.03321	0.066	6.4	ug/L
	Al	27	95678.432	0.8	2679.805	10.18119	0.543	5.3	ug/L
>	Sc	45	410693.900	4.5	378193.541				ug/L
	V	51	21556.096	1.4	4537.327	1.07437	0.052	4.9	ug/L
	Cr	52	30663.286	0.8	15100.490	1.05037	0.093	8.8	ug/L
	Cr	53	2863.521	4.8	618.029	1.33045	0.007	0.5	ug/L
	Mn	55	20905.065	0.9	580.693	1.06528	0.012	1.1	ug/L
	Co	59	17648.193	3.6	202.004	1.06075	0.034	3.2	ug/L
	Ni	60	4054.027	1.6	196.338	1.04631	0.013	1.2	ug/L
	Ni	62	967.066	3.2	499.020	0.73049	0.060	8.3	ug/L
	Cu	63	9188.488	0.5	505.687	1.00562	0.016	1.6	ug/L
	Cu	65	4415.881	1.8	212.672	1.00128	0.038	3.8	ug/L
	Zn	66	17129.763	1.9	1298.448	6.47244	0.094	1.4	ug/L
	Zn	67	2628.107	0.5	302.342	5.63982	0.088	1.6	ug/L
	Zn	68	11906.623	2.7	996.736	6.17682	0.253	4.1	ug/L
>	Ge	72	218112.929	1.8	197196.226				ug/L
	As	75	2969.892	0.2	96.335	1.06425	0.017	1.6	ug/L
	Se	77	465.213	2.6	202.002	1.20972	0.021	1.8	ug/L
	Se	78	16213.482	0.3	14431.438	0.40312	0.481	119.3	mg/L
	Se	82	617.356	2.4	1747.050	-4.86113	0.015	0.3	ug/L
	Kr	83	332.343	4.6	1793.211				mg/L
	Y	89	420876.743	0.9	365281.373				ug/L
	Mo	95	5998.885	0.7	120.335	1.10069	0.031	2.8	ug/L
	Mo	97	3752.216	4.0	52.667	1.10319	0.067	6.1	ug/L
	Mo	98	9790.646	1.6	70.498	1.12167	0.041	3.7	ug/L
	Rh	103	372116.704	1.8	350376.944				ug/L
	Ag	107	14806.293	1.8	46.001	1.08780	0.003	0.3	ug/L
	Ag	109	14013.916	1.7	42.334	1.07453	0.005	0.4	ug/L
	Cd	111	3537.564	0.8	203.876	1.05258	0.026	2.5	ug/L
	Cd	114	7905.431	3.5	55.152	1.07890	0.026	2.4	ug/L
>	In	115	383293.525	2.1	366049.872				ug/L
	Sb	121	10189.998	2.8	54.667	1.05301	0.031	3.0	ug/L
	Sb	123	7569.543	2.6	37.221	1.06020	0.025	2.4	ug/L
	Ba	135	2522.074	4.1	52.001	1.07548	0.035	3.2	ug/L
	Ba	137	4206.104	1.9	70.668	1.06750	0.024	2.2	ug/L
>	Tb	159	421462.957	1.8	427712.876				ug/L
>	Ho	165	407971.397	2.5	412683.278				ug/L
	Tl	203	8138.388	1.8	51.667	1.03253	0.014	1.3	ug/L
	Tl	205	19905.945	0.3	75.334	1.10847	0.025	2.3	ug/L
	Pb	208	26704.680	1.0	440.342	1.04607	0.018	1.8	ug/L

Pb	206	6842.545	2.7	119.335	1.03108	0.020	1.9	ug/L
Pb	207	5736.365	1.7	109.335	1.02792	0.035	3.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	103.321				
	Al	27	101.812				
>	Sc	45		108.594			
	V	51	107.437				
	Cr	52	105.037				
	Cr	53	133.045				
	Mn	55	106.528				
	Co	59	106.075				
	Ni	60	104.631				
	Ni	62	73.049				
	Cu	63	100.562				
	Cu	65	100.128				
	Zn	66	129.449				
	Zn	67	112.796				
	Zn	68	123.536				
>	Ge	72		110.607			
	As	75	106.425				
	Se	77	120.972				
	Se	78	40.312				
	Se	82	-486.113				
	Kr	83					
	Y	89					
	Mo	95	110.069				
	Mo	97	110.319				
	Mo	98	112.167				
	Rh	103					
	Ag	107	108.780				
	Ag	109	107.453				
	Cd	111	105.258				
	Cd	114	107.890				
>	In	115		104.711			
	Sb	121	105.301				
	Sb	123	106.020				
	Ba	135	107.548				
	Ba	137	106.750				
>	Tb	159		98.539			
>	Ho	165		98.858			
	Tl	203	103.253				
	Tl	205	110.847				
	Pb	208	104.607				
	Pb	206	103.108				
	Pb	207	102.792				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 22, 2006 14:52:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 6.047

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	54537.422	0.1	49.334	50.08772	1.496	3.0	ug/L
	Al	27	453031.190	2.5	2679.805	51.02215	1.465	2.9	ug/L
>	Sc	45	397223.175	3.0	378193.541				ug/L
	V	51	790126.485	2.8	4537.327	52.39151	0.308	0.6	ug/L
	Cr	52	688820.238	2.0	15100.490	51.13562	2.145	4.2	ug/L
	Cr	53	81108.354	1.7	618.029	50.50182	0.736	1.5	ug/L
	Mn	55	940533.488	1.4	580.693	51.28539	1.210	2.4	ug/L
	Co	59	803800.940	2.0	202.004	50.76394	0.251	0.5	ug/L
	Ni	60	177338.834	0.1	196.338	50.13570	1.024	2.0	ug/L
	Ni	62	27215.984	1.7	499.020	48.70926	0.187	0.4	ug/L
	Cu	63	419188.033	3.9	505.687	50.60732	1.021	2.0	ug/L
	Cu	65	201774.332	0.9	212.672	50.08270	1.070	2.1	ug/L
	Zn	66	116274.728	2.5	1298.448	49.17202	1.013	2.1	ug/L
	Zn	67	19377.381	3.5	302.342	48.60466	0.922	1.9	ug/L
	Zn	68	83606.219	1.7	996.736	48.97145	1.564	3.2	ug/L
>	Ge	72	210186.502	2.1	197196.226				ug/L
	As	75	127849.333	2.7	96.335	49.26376	0.991	2.0	ug/L
	Se	77	10094.110	0.9	202.002	51.31271	1.103	2.1	ug/L
	Se	78	45754.405	4.2	14431.438	49.87814	3.827	7.7	mg/L
	Se	82	13914.348	3.2	1747.050	46.22512	0.857	1.9	ug/L
	Kr	83	323.343	6.8	1793.211				mg/L
	Y	89	406489.349	3.8	365281.373				ug/L
	Mo	95	285445.767	0.8	120.335	54.19094	0.560	1.0	ug/L
	Mo	97	181690.179	2.9	52.667	54.92054	2.385	4.3	ug/L
	Mo	98	472879.282	0.7	70.498	55.30681	0.907	1.6	ug/L
	Rh	103	357605.260	1.7	350376.944				ug/L
	Ag	107	694668.701	4.1	46.001	51.88568	1.393	2.7	ug/L
	Ag	109	652294.995	3.9	42.334	50.84960	1.611	3.2	ug/L
	Cd	111	159155.218	2.6	203.876	51.00196	1.021	2.0	ug/L
	Cd	114	370385.838	2.9	55.152	51.60558	0.605	1.2	ug/L
>	In	115	378129.081	1.8	366049.872				ug/L
	Sb	121	479834.866	1.2	54.667	50.53634	0.516	1.0	ug/L
	Sb	123	347450.986	0.8	37.221	49.58638	1.150	2.3	ug/L
	Ba	135	115243.281	2.8	52.001	51.15484	1.283	2.5	ug/L
	Ba	137	195410.072	3.9	70.668	51.43123	2.352	4.6	ug/L
>	Tb	159	413141.563	1.1	427712.876				ug/L
>	Ho	165	395054.097	1.9	412683.278				ug/L
	Tl	203	373716.290	1.9	51.667	49.25896	0.137	0.3	ug/L
	Tl	205	897499.494	1.4	75.334	51.78929	0.913	1.8	ug/L
	Pb	208	1215435.646	1.0	440.342	49.95707	0.544	1.1	ug/L

Pb	206	314146.152	3.5	119.335	49.71051	0.863	1.7	ug/L
Pb	207	259149.695	1.1	109.335	48.85048	1.429	2.9	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.175				
	Al	27	102.044				
>	Sc	45		105.032			
	V	51	104.783				
	Cr	52	102.271				
	Cr	53	101.004				
	Mn	55	102.571				
	Co	59	101.528				
	Ni	60	100.271				
	Ni	62	97.419				
	Cu	63	101.215				
	Cu	65	100.165				
	Zn	66	98.344				
	Zn	67	97.209				
	Zn	68	97.943				
>	Ge	72		106.587			
	As	75	98.528				
	Se	77	102.625				
	Se	78	99.756				
	Se	82	92.450				
	Kr	83					
	Y	89					
	Mo	95	108.382				
	Mo	97	109.841				
	Mo	98	110.614				
	Rh	103					
	Ag	107	103.771				
	Ag	109	101.699				
	Cd	111	102.004				
	Cd	114	103.211				
>	In	115		103.300			
	Sb	121	101.073				
	Sb	123	99.173				
	Ba	135	102.310				
	Ba	137	102.862				
>	Tb	159		96.593			
>	Ho	165		95.728			
	Tl	203	98.518				
	Tl	205	103.579				
	Pb	208	99.914				
	Pb	206	99.421				
	Pb	207	97.701				

Elan 9000 Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 22, 2006 14:58:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\epa 6020b.mth
Dataset File: C:\elandata\Dataset\112206\QC Std 7.048

	Analyte	Mass	Meas. Intens.	Intens. RSD	Blank Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
	Be	9	49.001	10.8	49.334	-0.00428	0.005	106.6	ug/L
	Al	27	2727.474	1.1	2679.805	-0.02141	0.005	21.5	ug/L
>	Sc	45	412663.121	1.4	378193.541				ug/L
	V	51	4570.405	2.1	4537.327	-0.02434	0.010	40.3	ug/L
	Cr	52	15249.093	1.4	15100.490	-0.08957	0.023	25.7	ug/L
	Cr	53	794.713	5.9	618.029	0.07264	0.026	35.7	ug/L
	Mn	55	580.359	4.7	580.693	-0.00243	0.002	62.4	ug/L
	Co	59	169.670	12.1	202.004	-0.00299	0.001	45.0	ug/L
	Ni	60	222.672	39.8	196.338	0.00337	0.026	768.1	ug/L
	Ni	62	383.679	2.2	499.020	-0.27774	0.022	7.8	ug/L
	Cu	63	406.681	1.8	505.687	-0.01651	0.001	6.8	ug/L
	Cu	65	199.004	3.1	212.672	-0.00738	0.002	28.0	ug/L
	Zn	66	1281.445	4.8	1298.448	-0.04980	0.020	39.2	ug/L
	Zn	67	291.675	5.1	302.342	-0.08581	0.037	43.0	ug/L
	Zn	68	953.397	1.8	996.736	-0.07059	0.007	9.8	ug/L
>	Ge	72	212421.070	1.4	197196.226				ug/L
	As	75	140.336	9.0	96.335	0.01400	0.006	39.9	ug/L
	Se	77	234.870	2.2	202.002	0.08893	0.033	36.8	ug/L
	Se	78	15240.844	1.7	14431.438	-0.49333	0.426	86.4	mg/L
	Se	82	340.140	1.9	1747.050	-5.85182	0.031	0.5	ug/L
	Kr	83	325.676	4.5	1793.211				mg/L
	Y	89	406483.312	0.7	365281.373				ug/L
	Mo	95	662.700	20.2	120.335	0.09818	0.022	22.2	ug/L
	Mo	97	404.347	21.5	52.667	0.10181	0.023	22.3	ug/L
	Mo	98	996.680	28.5	70.498	0.10416	0.030	28.4	ug/L
	Rh	103	357338.810	0.8	350376.944				ug/L
	Ag	107	143.003	15.8	46.001	0.00680	0.001	20.6	ug/L
	Ag	109	145.669	11.7	42.334	0.00760	0.001	13.4	ug/L
	Cd	111	238.575	9.6	203.876	0.00678	0.008	111.3	ug/L
	Cd	114	74.077	13.2	55.152	0.00207	0.001	56.2	ug/L
>	In	115	389552.067	2.6	366049.872				ug/L
	Sb	121	1200.767	19.9	54.667	0.11645	0.021	18.4	ug/L
	Sb	123	863.087	19.2	37.221	0.11375	0.020	17.7	ug/L
	Ba	135	43.001	8.1	52.001	-0.00335	0.001	43.9	ug/L
	Ba	137	47.667	17.5	70.668	-0.00552	0.002	37.8	ug/L
>	Tb	159	416198.054	0.7	427712.876				ug/L
>	Ho	165	407479.229	1.6	412683.278				ug/L
	Tl	203	66.001	6.6	51.667	0.00191	0.000	21.8	ug/L
	Tl	205	121.335	12.0	75.334	0.00262	0.001	28.3	ug/L
	Pb	208	327.672	4.3	440.342	-0.00427	0.000	8.1	ug/L

Pb	206	92.335	14.9	119.335	-0.00393	0.002	47.7	ug/L
Pb	207	74.001	2.3	109.335	-0.00620	0.000	7.4	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	Al	27					
>	Sc	45		109.114			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Ni	62					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	72		107.721			
	As	75					
	Se	77					
	Se	78					
	Se	82					
	Kr	83					
	Y	89					
	Mo	95					
	Mo	97					
	Mo	98					
	Rh	103					
	Ag	107					
	Ag	109					
	Cd	111					
	Cd	114					
>	In	115		106.420			
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.308			
>	Ho	165		98.739			
	Tl	203					
	Tl	205					
	Pb	208					
	Pb	206					
	Pb	207					

Quantitative Analysis Calibration Report

File Name: 112206.cal
File Path: C:\elandata\System
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.00	0.00	0.999954
Al	26.982	Linear Thru Zero	0.02	0.00	0.999963
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V	50.944	Linear Thru Zero	0.04	0.00	0.999901
Cr	51.941	Linear Thru Zero	0.03	0.00	0.999980
Cr	52.941	Linear Thru Zero	0.00	0.00	0.999977
Mn	54.938	Linear Thru Zero	0.09	0.00	0.999986
Co	58.933	Linear Thru Zero	0.08	0.00	0.999943
Ni	59.933	Linear Thru Zero	0.02	0.00	0.999994
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999992
Cu	62.930	Linear Thru Zero	0.04	0.00	0.999996
Cu	64.928	Linear Thru Zero	0.02	0.00	0.999965
Zn	65.926	Linear Thru Zero	0.01	0.00	0.999987
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999977
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999983
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.01	0.00	0.999993
Se	76.920	Linear Thru Zero	0.00	0.00	0.999998
Se	77.917	Linear Thru Zero	0.00	0.00	0.999927
Se	81.917	Linear Thru Zero	0.00	0.00	0.999970
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Mo	94.906	Linear Thru Zero	0.01	0.00	0.999978
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999993
Mo	97.906	Linear Thru Zero	0.02	0.00	0.999976
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
Ag	106.905	Linear Thru Zero	0.04	0.00	0.999896
Ag	108.905	Linear Thru Zero	0.03	0.00	0.999918
Cd	110.904	Linear Thru Zero	0.01	0.00	0.999999
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999995
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb	120.904	Linear Thru Zero	0.03	0.00	0.999981
Sb	122.904	Linear Thru Zero	0.02	0.00	0.999967
Ba	134.906	Linear Thru Zero	0.01	0.00	0.999939
Ba	136.905	Linear Thru Zero	0.01	0.00	0.999936
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Tl	202.972	Linear Thru Zero	0.02	0.00	0.999960
Tl	204.975	Linear Thru Zero	0.04	0.00	0.999908
Pb	207.977	Linear Thru Zero	0.06	0.00	0.999976

Pb	205.975	Linear Thru Zero	0.02	0.00	0.999946
Pb	206.976	Linear Thru Zero	0.01	0.00	0.999991

CAS - Rochester,NY: ICP-MS // GFAA Water Digestion Log

6010B/SW846 // 200Series/Part136 // 6020 // 200.8 // CLP5.3

Analyst: CMW Date: 10/31/06 Report Type: Routine // 6 // ASP // Pkg5

Prep Method: 3020 Modified // CLP

Digest: Initial // Redigest Of: _____

Spike Witness / Lot Approval: DK 10/31/06

Batch ID: M3990131

Batch Temp: 93°C

	Submission / Order #	pH	Initial Vol(ml)	Final Vol(ml)	Initial Color / Clarity	Final Color / Clarity	Metals	Spike Added Vol(ml)
1	PBW		50	50	C-CLR	C-CLR	As,Be,Cd,Co,Mn,Ni by MS; Se,Tl by GFAA	
2	LCSW							0.1 ml spk #1, spk #2
3	R-34493 950466	<2			Y-CLR		As,Be,Cd,Co,Mn,Ni by ICPMS	
4	467							
5	468							
6	469							
7	470							
8	471							
9	472							
10	473							
11	474							
12	475							
13	476							
14	477							
15	477dup							
16	477spk							0.1 ml spk #1, spk #2
17	R-33532 935153	<2			B-CDY		Se,Tl by GFAA	TO IDL
18	155				Y-CLR			
19	R-34382 948956	<2			C-CLR		As,Mn by ICPMS	
20	956dup							
21	956spk							0.1 ml spk #1, spk #2
22	957							
23	958							
24	R-33943 942336	<2	50		C-CLR CMW		SEE BELOW	
25								
26						10/31/06		

Spiking Standards / Reagent Lot Numbers:

Spike A,B: – Spike 4: –

MS Spk 1: M1780069J MS Spk 2: M1780069I

HNO3: M1780071Q HCL: –

H2O2: M1780071S

Color / Clarity Key:

Color: C = Colorless ; Y = Yellow ; B = Brown ; G = Grey
BL = Black

Clarity: CDY = Cloudy ; CLR = Clear ; OP = Opaque

COMMENTS: HB#1 ☆R-33943 = As,Pb,Se,Tl by GFAA
R-33532 = RTN = Ag,As,Ba,Be,Cd,Cr,Co,Mn,Ni,Pb,Sb,Se,Tl,Zn by MS

CAS - Rochester,NY: ICP-MS // GFAA Water Digestion Log

6010B/SW846 // 200Series/Part136 // 6020 // 200.8 // CLP5.3

Analyst: CMW Date: 11/15/06 Report Type: Routine // 6 // ASP // Pkg5

Prep Method: 3020 Modified // CLP

Digest: Initial // Redigest OP: M3990131 11/15/06

Spike Witness / Lot Approval: DK 11/15/06

Batch ID: M3990143

Batch Temp: 94°C

	Submission / Order #	pH	Initial Vol(ml)	Final Vol(ml)	Initial Color / Clarity	Final Color / Clarity	Metals	Spike Added Vol(ml)
1	PBW		50	50	C-CLR	C-CLR	As, Be, Cu, Mn Cd	
2	LCSW							0.1ml spk #1, #2
3	R-34493 950466	<2			Y-CLR		Be, Cu, Mn	
4	467							
5	468							
6	469							
7	470							
8	471							
9	472							
10	473							
11	474						Cd	
12	475							
13	476							
14	477						Cd	
15	477 dup							
16	477 spk							0.1ml spk #1, #2
17	R-34382 948956	<2			C-CLR		As, Mn	
18	956 dup							
19	956 spk							0.1ml spk #1, #2
20	957							
21	958							
22								
23								
24								
25								
26								

CMW 11/15/06

Spiking Standards / Reagent Lot Numbers:

Spike A,B: — Spike 4: —

MS Spk 1: M1780073P MS Spk 2: M1780073Q

HNO3: M1780073N HCL: —

H2O2: M1780071S

Color / Clarity Key:

Color: C = Colorless ; Y = Yellow ; B = Brown ; G = Grey
BL = Black

Clarity: CDY = Cloudy ; CLR = Clear ; OP = Opaque

COMMENTS: CPI-A

CAS - Rochester,NY: ICP-MS // GFAA Water Digestion Log

6010B/SW846 // 200Series/Part136 // 6020 // 200.8 // CLP5.3

Analyst: CMW Date: 11/15/06 Report Type: Routine // 6 // ASP // Pkg5

Prep Method: 3020 Modified // CLP

Digest: Initial // Redigest Of: _____

Spike Witness / Lot Approval: DK 11/15/06

Batch ID: M3990146

Batch Temp: 93°C

	Submission / Order #	pH	Initial Vol(ml)	Final Vol(ml)	Initial Color / Clarity	Final Color / Clarity	Metals	Spike Added Vol(ml)
1	PBW		50	50	C-CLR	C-CLR	As, Be, Cd, Cu, Mn, Ni, Pb	
2	LCSW							0.1 ml spk #1, #2
3	R-34493 950030	<2			Y-CLR		As, Be, Cd, Cu, Mn, Ni	846
4	030 dup							
5	030 spk							0.1 ml spk #1, #2
6	031							
7	032							
8	033							
9	034							
10	035							
11	036							
12	R-34591 952000	<2					Pb	136 GE
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

CMW 11/15/06

Spiking Standards / Reagent Lot Numbers:

Spike A,B: – Spike 4: –

MS Spk 1: M1780073P MS Spk 2: M1780073Q

HNO3: M1780073N HCL: –

H2O2: M1780071S

Color / Clarity Key:

Color: C = Colorless ; Y = Yellow ; B = Brown ; G = Grey
BL = Black

Clarity: CDY = Cloudy ; CLR = Clear ; OP = Opaque

COMMENTS: HB#1 R-34493=ASP

P-MS CALIBRATION STANDARD #1
REPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
al Std 1	SB	M17800065G	20000	0.250	500	10	1% HNO_3	SD 2/3/06	A	M17800065G	—	3/3/06	M13
	MO	—						SD 3/6/06	B	M17800670	—	4/6/06	M13
al Std 2	AL	M17800671H		0.250				DCB 4/6/06	C	M17800670	—	5/6/06	M7
	AS							SD 5/1/06	D	M17800680W	—	6/1/06	M13
	BA							SD 5/17/06	E	M17800681W	—	6/17/06	M13
	BE							DCB 6/2/06	F	M17800680W	—	7/2/06	M13
	CD							SD 6/23/06	G	M17800700G	—	7/23/06	M13
	CR							SD 7/24/06	H	M17800700G	—	8/24/06	M13
	CO							DCB 8/18/06	I	M17800706	—	9/18/06	M13
	CU							SD 9/8/06	J	M17800700G	—	10/8/06	M13
	PB							DCB 10/4/06	K	M17800710	—	11/4/06	M13
	MN							SD 10/25/06	L	M17800710	—	11/25/06	M13
	NI							SD 10/30/06	M	M17800710	—	11/30/06	M13
	AG								N				
	TL								O				
	V								P				
	ZN								Q				
	SE								R				

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✓ SD 4/5/06
SD 7/6/06

003

CP-MS CALIBRATION STANDARD #1
PREPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
Cal Std 1	SB	M1780065G	20000	0.250	500	10	1% HNO_3	SD 11/14/06	A	M1780073N	—	12/14/06	M13
	MO	———							B				
Cal Std 2	AL	M1780073X		0.250					C				
	AS								D				
	BA								E				
	BE								F				
	CD								G				
	CR								H				
	CO								I				
	CU								J				
	PB								K				
	MN								L				
	NI								M				
	AG								N				
	TL								O				
	V								P				
	ZN								Q				
	SE								R				

1071

004

-MS CALIBRATION STANDARD #2
EPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
Std 1	SB	M17800065G	20000	0.500	500	20	1% HNO3	SD 2/3/06	A	M17800654	—	3/3/06	M13
	MO	—						SD 3/6/06	B	M17800670	—	4/6/06	M13
Std 2	AL	M17800667 A		0.500				DCB 4/6/06	C	M17800670	—	5/6/06	M10
	AS							SD 5/1/06	D	M17800668W	—	6/1/06	M10
	BA							SD 5/17/06	E	M17800668W	—	6/17/06	M13
	BE							DCB 6/2/06	F	M17800668W	—	7/2/06	M13
	CD							SD 6/23/06	G	M17800670G	—	7/23/06	M13
	CR							SD 7/24/06	H	M17800706	—	8/24/06	M13
	CO							DCB 8/18/06	I	M17800706	—	9/18/06	M23
	CU							SD 9/8/06	J	M17800706	—	10/8/06	M23
	PB							DCB 10/4/06	K	M17800710	—	~~10/4/06~~ 11/4/06	M23
	MN							SD 10/25/06	L	M17800710	—	11/25/06	M23
	NI							SD 10/31/06	M	M17800710	—	11/30/06	M23
	AG								N				
	TL								O				
	V								P				
	ZN								Q				
	SE								R				

✓ SD 4/5/06
SD 7/19/06

1072

023

CP-MS CALIBRATION STANDARD #2
PREPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
Cal Std 1	SB	M1780065G	20000	0.500	500	20	1% HNO_3	SD 11/14/06	A	M1780073N	—	12/14/06	M13
	MO	—							B				
Cal Std 2	AL	M1780073X		0.500					C				
	AS								D				
	BA								E				
	BE								F				
	CD								G				
	CR								H				
	CO								I				
	CU								J				
	PB								K				
	MN								L				
	NI								M				
	AG								N				
	TL								O				
	V								P				
	ZN								Q				
	SE								R				

1073

024

CP-MS CALIBRATION STANDARD #3
PREPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
Cal Std 1	SB	M1780065G	20000	2.50	500	100	1% HNO_3	SD 2/3/06	A	M1780065G	—	3/3/06	M18 M13
	MO	———						SD 3/6/06	B	M1780067O	—	4/6/06	M18/M17
Cal Std 2	AL	M1780067H		2.50				DCB 4/6/06	C	M1780067O	—	5/6/06	M18 M10
	AS							SD 5/1/06	D	M1780068W	—	6/1/06	M18 M10
	BA							SD 5/17/06	E	M1780068W	—	6/17/06	M14/M17
	BE							DCB 6/2/06	F	M1780068W	—	7/2/06	M18 M13
	CD							SD 6/23/06	G	M1780070G	—	7/23/06	M18/M13
	CR							SD 7/24/06	H	M1780070G	—	8/24/06	M18/M13
	CO							DCB 8/18/06	I	M1780070G	—	9/18/06	M18 M23
	CU							SD 9/8/06	J	M1780070G	—	10/8/06	M18/M23
	PB							DCB 10/4/06	K	M1780071Q	—	11/4/06	M18 M23
	MN							SD 10/25/06	L	M1780071Q	—	11/25/06	M18 M23
	NI							SD 10/31/06	M	M1780071Q	—	11/30/06	M18/M23
	AG								N				
	TL								O				
	V								P				
	ZN								Q				
	SE								R				

✓ SD 4/5/06
SD 7/19/06

1074

ICP-MS CALIBRATION STANDARD #3
(PREPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
Cal Std 1	SB	M1780065G	20000	2.50	500	100	1% HNO_3	SA 11/14/06	A	M1780073N	—	12/14/06	M18/M13
	MO	—							B				
Cal Std 2	AL	M1780073X		2.50					C				
	AS								D				
	BA								E				
	BE								F				
	CD								G				
	CR								H				
	CO								I				
	CU								J				
	PB								K				
	MN								L				
	NI								M				
	AG								N				
	TL								O				
	V								P				
	ZN								Q				
	SE								R				

1075

044

:P-MS ICV / CCV STANDARD
REPARED DAILY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
al Std 1	AL	M1780073P	10000	0.500	100	50	1% HNO_3	SD 11/8/06	A	M1780073N	–	11/9/06	M23
	SB							SD 11/9/06	B	M1780073N	–	11/10/06	M23
	AS							SD 11/10/06	C	M1780073N	–	11/11/06	M23
	BE							SD 11/13/06	D	M1780073N	–	11/14/06	M23
	CD							SD 11/14/06	E	M1780073N	–	11/15/06	M23
	CR							SD 11/15/06	F	M1780073N	–	11/16/06	M23
	CO							SD 11/16/06	G	M1780073N	–	11/17/06	M23
	CU							SD 11/17/06	H	M1780073N	–	11/18/06	M23
	PB							SD 11/20/06	I	M1780073N	–	11/21/06	M23
	MN							SD 11/21/06	J	M1780073N	–	11/22/06	M23
	MO							SD 11/22/06	K	M1780073N	–	11/23/06	M23
	NI								L				
	TL								M				
	V								N				
	ZN								O				
	SE								P				
al Std 2	BA	M1780073Q		0.500					Q				
	AG	———							R				

1076

074

›-MS HLCCV2 STANDARD
(EPARED MONTHLY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
l Std 1	AL	M1780067H	20000	0.500	50	200	1% HNO_3	SD 3/1/06	A	M1780067O	—	4/1/06 ~~3/8/06~~	M13 ~~M17~~
	BA						1% HNO_3	DCB 3/14/06	B	M1780067O	—	4/14/06 ~~3/21/06~~	M13
	AS						1% HNO_3	DCB 4/18/06	C	M1780067O	—	5/18/06 ~~4/25/06~~	M10
	BE						1% HNO_3	SD 5/3/06	D	M1780068W	—	6/3/06	M13
	CD						1% HNO_3	SD 5/16/06	E	M1780068W	—	6/16/06	M10
	CR						1% HNO_3	SD 5/30/06	F	M1780068W	—	8/30/06	M10
	CO						1% HNO_3	DCB 6/15/06	G	M1780068W	—	7/15/06	M10
	CU						1% HNO_3	SD 6/23/06	H	M1780070G	—	7/23/06	M13
	PB						1% HNO_3	SD 7/24/06	I	M1780070G	—	8/24/06	M13
	MN						1% HNO_3	SD 8/4/06	J	M1780070G	—	9/4/06	M23
	AG						1% HNO_3	DCB 8/17/06	K	M1780070G	—	9/1/06 ~~8/17/06~~	M23
	NI						1% HNO_3	DCB 9/5/06	L	M1780070G	—	9/19/06	M23
	TL						1% HNO_3	SD 9/19/06	M	M1780070G	—	10/19/06	M13
	V						1% HNO_3	SD 10/3/06	N	M1780071Q	—	11/3/06	M13
	ZN						1% HNO_3	SD 10/13/06	O	M1780071Q	—	10/13/06	M13
	SE						1% HNO_3	SD 10/31/06	P	M1780071Q	—	11/30/06	M13
Cal Std 2	SB	M1780065G		0.500			1% HNO_3	SD 11/9/06	Q	M1780073N	—	12/8/06	M13
	MO	—							R				

✓ SD 4/5/06
SD 7/10/06

1077

:P-MS HLCCV2 STANDARD
REPARED MONTHLY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
al Std 1	AL	M1780073X	20000	0.500	50	200	1% HNO3	SD 11/16/06	A	M1780073N	—	12/16/06	MD3
	BA							SD 11/22/06	B	M1780073N	—	12/22/06	MD3
	AS								C				
	BE								D				
	CD								E				
	CR								F				
	CO								G				
	CU								H				
	PB								I				
	MN								J				
	AG								K				
	NI								L				
	TL								M				
	V								N				
	ZN								O				
	SE								P				
Cal Std 2	SB	M1780065G		0.500					Q				
	MO	———							R				

1078

ICP-MS MRL STANDARD
(PREPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
Cal Std 1	SB	M178006 5G	20000	0.025	500	1.0	1% HNO3	SD 11/10/06	A	M178007 3N	—	12/10/06	M17 M13
	MO	—				1.0			B				
Cal Std 2	AL	M178006 7H		0.025		below			C				
	AS					1.0			D				
	BA								E				
	BE								F				
	CD								G				
	CR								H				
	CO								I				
	CU								J				
	PB								K				
	MN								L				
	NI								M				
	AG								N				
	TL								O				
	V								P				
	ZN					below			Q				
	SE					1.0			R				
Indiv. Std	AL	M369 0028C	10000	0.450		10.0			S				
	ZN	M369 0028P	10000	~~0.150~~ 0.200		~~4.0~~ 5.0			T				

SD 11/9/06

1079

096

ICP-MS MRL STANDARD
(PREPARED MONTHLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
Cal Std 1	SB	M1780065G	20000	0.025	500	1.0	1% HNO_3	SD 11/14/06	A	M1780073N	–	12/10/06	M13 M17
	MO	———				1.0			B				
Cal Std 2	AL	M1780067H		0.025		below			C				
	AS					1.0			D				
	BA								E				
	BE								F				
	CD								G				
	CR								H				
	CO								I				
	CU								J				
	PB								K				
	MN								L				
	NI								M				
	AG								N				
	TL								O				
	V								P				
	ZN					below			Q				
	SE					1.0			R				
Indiv. Std	AL	3690123C M~~17800~~	10000	0.450		10.0			S				
	ZN	M3690122P	10000	~~0.150~~ 0.200		~~4.0~~ 5.0			T				

SD 10/9/06

1080

ICP-MS ICSA SOLUTION
(PREPARED WEEKLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
ICSA	CL-	M1780072L	10000	2.00	100	200000	1% HNO_3	SD 9/26/06	A	M1780071Q	—	10/3/06	M18
	AL		1000			20000	1% HNO_3	DCB 10/4/06	B	M1780071Q	—	10/11/06	M18
	CA						1% HNO_3	SD 10/12/06	C	M1780071Q	—	10/19/06	M18
	FE						1% HNO_3	SD 10/20/06	D	M1780071Q	—	10/27/06	M18
	MG						1% HNO_3	DCB 10/30/06	E	M1780071Q	—	11/7/06	M18
	P						1% HNO_3	SD 11/6/06	F	M1780073N	—	11/13/06	M18
	K						1% HNO_3	SD 11/13/06	G	M1780073N	—	11/20/06	M18
	NA						1% HNO_3	SD 11/20/06	H	M1780073N	—	11/27/06	M18
	S								I				
	C		2000			40000			J				
	MO		20			400			K				
	TI		20			400			L				
									M				
									N				
									O				
									P				
									Q				
									R				
									S				
									T				

1081

CP-MS ICSAB SOLUTION
PREPARED WEEKLY OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
ICSA	CL-	M1780072L	10000	2.00	100	200000	1% HNO_3	SD 9/26/06	A	M1780071Q	–	10/3/06	MB
	AL,CA		1000			20000	1% HNO_3	DCB 10/4/06	B	M1780071Q	–	10/11/06	MB
	FE,MG						1% HNO_3	SD 10/12/06	C	M1780071Q	–	10/19/06	MB
	P,K						1% HNO_3	SD 10/20/06	D	M1780071Q	–	10/27/06	MB
	NA,S						1% HNO_3	DCB 10/30/06	E	M1780071Q	–	11/3/06	MB
	C		2000			40000	1% HNO_3	SD 11/6/06	F	M1780073N	–	11/13/06	MB
	MO,TI		20			400	1% HNO_3	SD 11/13/06	G	M1780073N	–	11/20/06	MB
							1% HNO_3	SD 11/20/06	H	M1780073N	–	11/27/06	MB
							1% HNO_3	SD 11/22/06	I	M1780073N	–	11/29/06	MB
									J				
									K				
									L				
									M				
ICSAB	NI	M1780067G	2	1.00		20.0			N				
	MN		2						O				
	CR		2						P				
	AS		2						Q				
	CO,CU		2						R				
	AG,CD		2						S				
	ZN		2						T				

2801

ICP-MS INTERNAL STANDARD SOLUTION
(PREPARED EVERY 6 MONTHS OR AS NECESSARY)

	Metal	CAS Lot #	Conc. (ppb)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst / Date	Letter ID	Nitric Acid Lot #	HCL Lot #	Expiration Date	Pipet ID
I.S. STD	BI	M1780073C	10000	50.0	500	1000	1% HNO_3	SD 10/31/06	A	M1780071Q	—	4/30/06	—
	HO								B				
	IN								C				
	LI +6								D				
	RH								E				
	SC					Below			F				
	TB					1000			G				
	Y					1000			H				
Single Element	SC	M1780073M	100000	5.00		2000			I				
	GE	M1780064S	100000	25		5000			J				
									K				
									L				
									M				
									N				
									O				
									P				
									Q				
									R				
									S				
									T				

1083

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-01

Date Sampled : 10/24/06 10:25 Order #: 950030 Sample Matrix: WATER
Date Received: 10/25/06 Submission #: R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	1.77	MG/L	11/01/06	10:13	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-05

Date Sampled : 10/24/06 11:10 Order #: 950031 Sample Matrix: WATER
Date Received: 10/25/06 Submission #: R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	2.44	MG/L	11/01/06	10:13	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-10R

Date Sampled : 10/24/06 11:55 **Order #:** 950032 **Sample Matrix:** WATER
Date Received: 10/25/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	2.06	MG/L	11/01/06	10:13	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-02

Date Sampled : 10/24/06 13:20 **Order #:** 950033 **Sample Matrix:** WATER
Date Received: 10/25/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	3.89	MG/L	11/01/06	10:13	4.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-06R

Date Sampled : 10/24/06 14:10 **Order #:** 950034 **Sample Matrix:** WATER
Date Received: 10/25/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	39.9	MG/L	11/07/06	09:50	100.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	28.6	MG/L	11/01/06	10:13	20.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-08

Date Sampled : 10/24/06 14:50 **Order #:** 950035 **Sample Matrix:** WATER
Date Received: 10/25/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.172	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	0.230	MG/L	11/01/06	10:13	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-09

Date Sampled : 10/24/06 15:40 **Order #:** 950036 **Sample Matrix:** WATER
Date Received: 10/25/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	36.7	MG/L	11/07/06	09:50	50.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	24.9	MG/L	11/01/06	10:13	20.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-03

Date Sampled : 10/25/06 08:55 **Order #:** 950466 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.154	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	3.14	MG/L	11/01/06	10:13	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-07

Date Sampled : 10/25/06 09:45 **Order #:** 950467 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	130	MG/L	11/07/06	09:50	100.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	38.4	MG/L	11/01/06	10:13	20.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-07 DUP

Date Sampled : 10/25/06 09:45 **Order #:** 950468 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	131	MG/L	11/07/06	09:50	100.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	38.4	MG/L	11/01/06	10:13	20.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPOB-34

Date Sampled : 10/25/06 10:35 **Order #:** 950469 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.768	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	0.0500 U	MG/L	11/01/06	10:13	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPOB-12R2

Date Sampled : 10/25/06 11:05 **Order #:** 950470 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	1.50	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	9.17	MG/L	11/01/06	10:13	5.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-11R2

Date Sampled : 10/25/06 11:40 **Order #:** 950471 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0530	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	2.69	MG/L	11/01/06	10:13	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-12

Date Sampled : 10/25/06 13:00 **Order #:** 950472 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.400	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	3.58	MG/L	11/01/06	10:13	4.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-13

Date Sampled : 10/25/06 13:35 **Order #:** 950473 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	1.14	MG/L	11/01/06	10:13	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPMW-04

Date Sampled : 10/25/06 14:10 **Order #:** 950474 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	3.68	MG/L	11/01/06	10:13	4.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPIS-24

Date Sampled : 10/25/06 14:25 **Order #:** 950475 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	24.8	MG/L	11/07/06	09:50	40.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	9.66	MG/L	11/01/06	10:13	10.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPIS-24 DUP

Date Sampled : 10/25/06 14:25 **Order #:** 950476 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	24.3	MG/L	11/07/06	09:50	40.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	9.73	MG/L	11/01/06	10:13	10.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/28/06

OMI/Ironton
Project Reference: IRONTON - SOUTH POINT - OCTOBER 2006
Client Sample ID : SPIS-23

Date Sampled : 10/25/06 14:45 **Order #:** 950477 **Sample Matrix:** WATER
Date Received: 10/26/06 **Submission #:** R2634493

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.570	MG/L	11/07/06	09:50	1.0
NITRATE/NITRITE NITROGEN	353.2	0.0500	3.05	MG/L	11/01/06	10:13	4.0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 11/28/06
CAS Order # : 950477 - SPIS-23
Client : OMI/Ironton
IRONTON - SOUTH POINT - OCTOBER 2006
Reported Units: MG/L
Run # : 137085

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
AMMONIA	0.570	0.573	1	1.09	0.500	104	59 - 129

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 11/28/06
CAS Order # : 950477 - SPIS-23
Client : OMI/Ironton
IRONTON - SOUTH POINT - OCTOBER 2006
Reported Units: MG/L
Run # : 136743

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
NITRATE/NITRITE NITROGEN	3.05	3.06	0	5.09	2.00	102	69 - 123

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2634493
Client: OMI/Ironton
IRONTON - SOUTH POINT - OCTOBER 2006

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
NITRATE/NITRITE NITROGEN	0.0500 U	0.480	0.500	96	90 - 110	136743	MG/L
AMMONIA	0.0500 U	0.482	0.500	96	90 - 110	137085	MG/L

5 Copies

R-33531 R-34493
R-34431 R-33526
R-34486

Run #: 137085
Analyte: NH3 350.1 AMMONIA
Printed: 11/07/06 14:15

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
CHK1		953751	WATER	1.72		1.0	0.0500	95.6		11/07/2006		
BLK1		953752	WATER	0.0500	U	1.0	0.0500			11/07/2006		
SPKB		953753	WATER	0.472		1.0	0.0500	94.4		11/07/2006		
ESMP	R2633956	942493	WATER	6.57		5.0	0.0500			11/07/2006	RUN	2
ESMP	R2634516	950648	WATER	0.653		1.0	0.0500			11/07/2006	RUN	2
ESMP	R2634516	950650	WATER	0.308		1.0	0.0500			11/07/2006	RUN	2
ESMP	R2633531	935129	WATER	0.0500	U	1.0	0.0500			11/07/2006	RUN	ASPB
ESMP	R2634431	944243	WATER	0.290		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634431	944279	WATER	22.8		40.0	0.0500			11/07/2006		ASPB
ESMP	R2634431	944282	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634431	944283	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634431	944284	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2633525	934985	WATER	0.0500	U	1.0	0.0500			11/07/2006	RUN	2
ESMP	R2633525	934986	WATER	6.78		5.0	0.0500			11/07/2006	RUN	2
ESMP	R2633525	934987	WATER	102		100.0	0.0500			11/07/2006	RUN	2
ESMP	R2633525	934988	WATER	0.421		1.0	0.0500			11/07/2006	RUN	2
ESMP	R2633525	934989	WATER	1.96		5.0	0.0500			11/07/2006	RUN	2
ESMP	R2634486	944236	WATER	39.0		100.0	0.0500			11/07/2006		ASPB
ESMP	R2634486	944285	WATER	0.221		1.0	0.0500			11/07/2006		ASPB
SPKB		953756	WATER	0.464		1.0	0.0500	92.8		11/07/2006		
ESMP	R2634486	944286	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634486	944289	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634481	949821	WATER	2.60		5.0	0.0500			11/07/2006		1
ESMP	R2634481	949825	WATER	0.274		1.0	0.0500			11/07/2006		1
LDUP		953754	WATER	0.274		1.0	0.0500			11/07/2006		
SPK1		953755	WATER	0.756		1.0	0.0500	96.4		11/07/2006		
ESMP	R2634481	949826	WATER	0.175		1.0	0.0500			11/07/2006		1
ESMP	R2634481	949827	WATER	0.132		1.0	0.0500			11/07/2006		1
ESMP	R2634493	950030	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
LDUP		953757	WATER	0.0500	U	1.0	0.0500			11/07/2006		
SPK1		953758	WATER	0.474		1.0	0.0500	94.8		11/07/2006		
ESMP	R2634493	950031	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950032	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950033	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950034	WATER	39.9		100.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950035	WATER	0.172		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950036	WATER	36.7		50.0	0.0500			11/07/2006		ASPB
ESMP	R2633525	934990	WATER	0.0500	U	1.0	0.0500			11/07/2006	RUN	2
ESMP	R2633525	934991	WATER	0.0500	U	1.0	0.0500			11/07/2006	RUN	2
ESMP	R2634486	944247	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634486	944248	WATER	0.304		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634486	944249	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634486	944250	WATER	0.0723		1.0	0.0500			11/07/2006	QC	ASPB
LDUP		953759	WATER	0.0772		1.0	0.0500		6.56	11/07/2006		
SPK1		953760	WATER	0.559		1.0	0.0500	97.3		11/07/2006		
ESMP	R2634486	944251	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634486	944252	WATER	1.42		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634406	948476	WATER	19.5		20.0	0.0500			11/07/2006	RUN	2
LDUP		953761	WATER	19.0		20.0	0.0500		2.60	11/07/2006		
SPK1		953762	WATER	30.4		20.0	0.0500	109.0		11/07/2006		
ESMP	R2634406	948478	WATER	0.455		1.0	0.0500			11/07/2006	RUN	2

Reviewed & Approved
11/9/06

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2634406	948479	WATER	0.0500	U	1.0	0.0500			11/07/2006	RUN	2
SPKB		953763	WATER	0.482		1.0	0.0500	96.4		11/07/2006		
ESMP	R2634406	948480	WATER	0.0940		1.0	0.0500			11/07/2006	RUN	2
ESMP	R2634406	948482	WATER	16.0		20.0	0.0500			11/07/2006	RUN	2
ESMP	R2634493	950466	WATER	0.154		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950467	WATER	130		100.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950468	WATER	131		100.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950469	WATER	0.768		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950470	WATER	1.50		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950471	WATER	0.0530		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950472	WATER	0.400		1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950473	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950474	WATER	0.0500	U	1.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950475	WATER	24.8		40.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950476	WATER	24.3		40.0	0.0500			11/07/2006		ASPB
ESMP	R2634493	950477	WATER	0.570		1.0	0.0500			11/07/2006	QC	ASPB
LDUP		953764	WATER	0.573		1.0	0.0500		0.52	11/07/2006		
SPK1		953765	WATER	1.09		1.0	0.0500	104.0		11/07/2006		
ESMP	R2634516	950649	WATER	0.342		1.0	0.0500			11/07/2006	RUN	2
ESMP	R2634516	950651	WATER	0.504		1.0	0.0500			11/07/2006	RUN	2
ESMP	R2633526	934995	WATER	0.0500	U	1.0	0.0500			11/07/2006	RUN	ASPB
ESMP	R2633526	934999	WATER	5.62		5.0	0.0500			11/07/2006	RUN	ASPB
ESMP	R2633526	935000	WATER	0.222		1.0	0.0500			11/07/2006	RUN	ASPB
LDUP		953766	WATER	0.215		1.0	0.0500		3.20	11/07/2006		
SPK1		953767	WATER	0.718		1.0	0.0500	99.2		11/07/2006		
ESMP	R2634588	951910	WATER	0.607		1.0	0.0500			11/07/2006		1

Records printed: 77

Calibration results AquaKem 6.5 Page: 1

Columbia Analytical Services
Rochester, NY 14607
Aquakem 200
Analyst: S. Place

07.11.2006 09:50

Test Ammonia 350.1

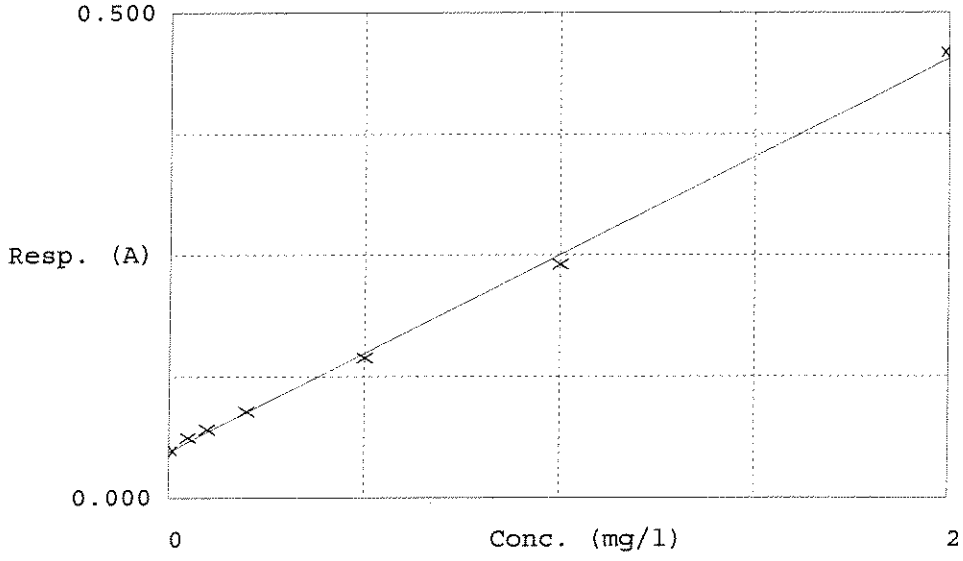
pipets: E2, Sally

Accepted 07.11.2006 09:50

Factor 4.93421
Bias 0.04772

Coeff. of det. 0.998551

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	NH3-0	0.04886	0.00563	0.00000	
2	NH3-2	0.06221	0.07152	0.05000	
3	NH3-2	0.07068	0.11329	0.10000	
4	NH3-2	0.08912	0.20430	0.20000	
5	NH3-2	0.14413	0.47573	0.50000	
6	NH3-2	0.24029	0.95019	1.00000	
7	NH3-2	0.45900	2.02934	2.00000	
8	1 ICV-NH3(contr	0.39663	1.72161	1.80000	
9	2 ICB-NH3(contr	0.04803	0.00155	0.00000	

Result Report AquaKem 6.5 Page: 1

Columbia Analytical Services
Rochester, NY 14607
Aquakem 200
Analyst: S. Place

Date : 2006-11-07
Time : 12.50

Test Ammonia 350.1
Unit mg/l

Sample ID:	Resp.	Result	Man.dilut	Dilut	Date and Time
1 ICV-NH3	0.397	1.7216			2006-11-07 09.50
2 ICB-NH3	0.048	0.0016			2006-11-07 09.50
3 CCV-NH3	0.390	1.6911			2006-11-07 10.32
4 CCB-NH3	0.052	0.0209			2006-11-07 10.32
951910	0.171	0.6065			2006-11-07 10.32
LCS1	0.143	0.4722			2006-11-07 10.32
950648	0.180	0.6530			2006-11-07 10.32
950650	0.110	0.3082			2006-11-07 10.32
935129	0.052	0.0210			2006-11-07 10.32
944243	0.107	0.2901			2006-11-07 10.32
944279	3.791	OVER			-
944282	0.051	0.0138			2006-11-07 10.32
944283	0.048	0.0012			2006-11-07 10.32
944284	0.048	-0.0001			2006-11-07 10.32
3 CCV-NH3	0.390	1.6874			2006-11-07 10.43
4 CCB-NH3	0.050	0.0090			2006-11-07 10.43
949821	0.607	OVER			-
949825	0.103	0.2744			2006-11-07 10.43
825 DUP	0.103	0.2744			2006-11-07 10.43
825 SPK	0.201	0.7564			2006-11-07 10.43
949826	0.083	0.1747			2006-11-07 10.43
949827	0.074	0.1321			2006-11-07 10.43
934985	0.048	0.0033			2006-11-07 10.43
934986	0.884	OVER			-
934987	10.027	↓			-
934988	0.133	0.4208			2006-11-07 10.43
3 CCV-NH3	0.399	1.7309			2006-11-07 10.53
4 CCB-NH3	0.052	0.0223			2006-11-07 10.53
934989	0.460	OVER			-
944236	10.030	↓			-
944285	0.092	0.2206			2006-11-07 10.53
LCS2	0.142	0.4641			2006-11-07 10.53
944286	0.050	0.0101			2006-11-07 10.53
944289	0.048	0.0004			2006-11-07 10.53
950030	0.049	0.0068			2006-11-07 10.53
030 DUP	0.047	-0.0020			2006-11-07 10.53
030 SPK	0.144	0.4740			2006-11-07 10.53
950031	0.047	-0.0012			2006-11-07 10.54
3 CCV-NH3	0.404	1.7561			2006-11-07 11.04
4 CCB-NH3	0.050	0.0128			2006-11-07 11.04
950032	0.048	0.0036			2006-11-07 11.04
950033	0.054	0.0308			2006-11-07 11.04
950034	10.030	OVER			-
950035	0.083	0.1722			2006-11-07 11.04
950036	7.055	OVER			-
934990	0.053	0.0266			2006-11-07 11.04
934991	0.055	0.0360			2006-11-07 11.04
944247	0.047	-0.0021			2006-11-07 11.04
944248	0.109	0.3041			2006-11-07 11.04
944249	0.048	0.0006			2006-11-07 11.04
3 CCV-NH3	0.397	1.7254			2006-11-07 11.15

Columbia Analytical Services
Rochester, NY 14607
Aquakem 200
Analyst: S. Place

Date : 2006-11-07
Time : 12.50

Test Ammonia 350.1
Unit mg/l

Sample ID:	Resp.	Result	Man.dilut	Dilut	Date and Time
4 CCB-NH3	0.051	0.0144			2006-11-07 11.15
944250	0.062	0.0723			2006-11-07 11.15
250 DUP	0.063	0.0772			2006-11-07 11.15
250 SPK	0.161	0.5590			2006-11-07 11.15
944251	0.047	-0.0039			2006-11-07 11.15
944252	0.336	1.4213			2006-11-07 11.15
948476	3.947	OVER			-
476 DUP	3.937				-
476 SPK	3.993				-
948478	0.140	0.4548			2006-11-07 11.15
948479	0.047	-0.0040			2006-11-07 11.15
3 CCV-NH3	0.398	1.7264			2006-11-07 11.25
4 CCB-NH3	0.051	0.0145			2006-11-07 11.25
LCS3	0.145	0.4816			2006-11-07 11.25
948480	0.067	0.0940			2006-11-07 11.25
948482	2.736	OVER			-
950466	0.079	0.1544			2006-11-07 11.25
950467	10.029	OVER			-
950468	10.029				-
950469	0.203	0.7681			2006-11-07 11.25
950470	0.352	1.4999			2006-11-07 11.25
950471	0.058	0.0530			2006-11-07 11.25
950472	0.129	0.3996			2006-11-07 11.25
3 CCV-NH3	0.399	1.7333			2006-11-07 11.36
4 CCB-NH3	0.051	0.0160			2006-11-07 11.36
950473	0.047	-0.0033			2006-11-07 11.36
950474	0.052	0.0217			2006-11-07 11.36
950475	4.828	OVER			-
950476	4.666				-
950477	0.163	0.5701			2006-11-07 11.36
477 DUP	0.164	0.5729			2006-11-07 11.36
477 SPK	0.268	1.0882			2006-11-07 11.36
950649	0.117	0.3415			2006-11-07 11.36
950651	0.150	0.5043			2006-11-07 11.36
934995	0.048	0.0019			2006-11-07 11.36
3 CCV-NH3	0.399	1.7338			2006-11-07 11.43
4 CCB-NH3	0.051	0.0179			2006-11-07 11.43
934999	1.173	OVER			-
935000	0.093	0.2215			2006-11-07 11.43
5000 DUP	0.091	0.2150			2006-11-07 11.43
5000 SPK	0.193	0.7181			2006-11-07 11.43
944279	0.163	22.7508		1+39.0	2006-11-07 11.53
949821	0.153	2.6049		1+4.0	2006-11-07 11.53
934986	0.323	6.7818		1+4.0	2006-11-07 11.53
934987	0.255	102.4881		1+99.0	2006-11-07 11.53
934989	0.127	1.9599		1+4.0	2006-11-07 11.53
944236	0.127	38.9765		1+99.0	2006-11-07 11.53
3 CCV-NH3	0.397	1.7229			2006-11-07 12.02
4 CCB-NH3	0.050	0.0106			2006-11-07 12.02
950034	0.129	39.9282		1+99.0	2006-11-07 12.02
950036	0.196	36.6595		1+49.0	2006-11-07 12.02

Columbia Analytical Services
Rochester, NY 14607
Aquakem 200
Analyst: S. Place

Date : 2006-11-07
Time : 12.50

Test Ammonia 350.1
Unit mg/l

Sample ID:	Resp.	Result	Man.dilut	Dilut	Date and Time
948476	0.245	19.4862		1+19.0	2006-11-07 12.02
476 DUP	0.240	19.0070		1+19.0	2006-11-07 12.02
476 SPK	0.241	19.0962		1+19.0	2006-11-07 12.12 — spk diluted outside
948482	0.210	16.0120		1+19.0	2006-11-07 12.12
950467	0.312	130.4654		1+99.0	2006-11-07 12.12
950468	0.313	130.8828		1+99.0	2006-11-07 12.12
950475	0.173	24.7500		1+39.0	2006-11-07 12.12
950476	0.171	24.3325		1+39.0	2006-11-07 12.12
3 CCV-NH3	0.409	1.7814			2006-11-07 12.19
4 CCB-NH3	0.050	0.0104			2006-11-07 12.19
934999	0.276	5.6229		1+4.0	2006-11-07 12.19
942493	0.681	6.2525 OVER		1+1.0	2006-11-07 12.19
3 CCV-NH3	0.396	1.7197			2006-11-07 12.22
4 CCB-NH3	0.049	0.0066			2006-11-07 12.22
948476 SPK 1/20	0.356	30.3830	1+19.0		2006-11-07 12.41
942493	0.314	6.5661		1+4.0	2006-11-07 12.47
942493 use 1/5 result	0.182	6.6345		1+9.0	2006-11-07 12.47
3 CCV-NH3	0.413	1.8010			2006-11-07 12.50
4 CCB-NH3	0.051	0.0162			2006-11-07 12.50

Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: S. Place

Date: 11/7/06

Analysis: Ammonia

Instrument: Aquakem

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC65166A, 4/7/03	WC76104A, 3/9/06				
b) ICV Preparation:	WC65166B, 4/7/03	WC76104B, 3/9/06	1	18	10	1.80
c) LCS Preparation:	WC65166D, 4/7/03	WC76104A, 3/9/06	0.05	100	10	0.50
d) Matrix Spike Prep.:	WC65166D, 4/7/03	WC76104A, 3/9/06	0.05	100	10	0.50

Instrument log filled in? (Y) (N)

Packages: Copy and attach Standards Preparation

Comments:

Production:

	Start Time	End Time	Total (minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

# of Samples (including Mtx QC): _____
Repeats due to Sample: _____
Repeats due to Error: _____

p:\greg\forms\cover.no2

4/7/03 DMG

Ammonia (NH_3) [Lachat: PQL = 0.050 Reg Level, 0.010 - Low Level]

(A) STANDARDS

STD.	CONC (mg/L)	mls 10ppm (WC651166C)	mls Carrier-Diluent (WC
A	2.000	2.00	8.00
B	1.000	1.00	9.00
C	0.500	0.50	9.50
D	0.200	0.20	9.80
E	0.100	1/10 Dil'N of STD B.) 1.000	
F	0.050	1/10 Dil'N of STD C.) 0.500	
G	0.020	1/10 Dil'N of STD D.) 0.200	
H	0.010	1/10 Dil'N of STD E.) 0.100	
I	0.000	10 mls of Carrier-Diluent	

(B) ICV/CCV: (TV = 1.80 mg/L)
Do two (2) 1/10 serial dilutions of the 180 ppm Reference Stock (WC651166B). Prepare using Carrier-Diluent (WC651165F)

(C) 10.0 ppm Working Stock
Do two (2) 1/10 serial dilutions of the 1000 ppm Standard Stock (WC651166A). Prepare using Carrier-Diluent (WC651165F)

(D) LCS/Matrix Spike: (TV = 0.500 mg/L)
Add 0.050 mls 100 ppm Working Stock (WC651166C, 1st 1/10 serial dilution) to 10 mls Carrier-Diluent (WC651165F) or sample.

3/9/06 NM

(A) NH3/TKN 1000 ppm Standard Stock

3.819g granular NH4Cl (WC69234H), previously dried for 2 hrs. @ 104°C: dissolve in ~800 mL DI in a 1-L volumetric flask. Bring to volume w/ DI Store @ 4°C in amber glass. Expires 3/9/07.

(B) NH3 180 ppm Reference Stock

0.687g granular NH4Cl (WC69234H), previously dried for 2 hrs. @ 104°C: dissolve in ~800 mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C. in amber glass. Expires 3/9/

(C) TKN 400 ppm Reference Stock

1.5276g granular NH4Cl (WC69234H), previously dried for 2 hrs. @ 104°C: dissolve in ~ 800mL DI in a 1-L volumetric flask. Bring to volume with DI. Store @ 4°C. in amber glass. Expires 3/9/07.

3/9/06 GN

(D) Stock Ammonium Molybdate Solution - TPO4/OPO4

- same as ~~WC769~~ WC 760696 (GN 3/9/06) Exp 3/9/07.

3/9/06 CMW

(E) Cr6+ Soils 7196 Color Reagent

Dissolve 1.00g 1,5 diphenyl carbohydrazide (WC69027) in 200mLs acetone (WC760060F) volumetrically. Store in amber glass @ 4°C. Expires 1 month (4/9/06)

3/10/06 NM

(F) Post Digestion Matrix Match - TKN

- same as WC 76101D. Exp. 4/1/06.

(G) Hypochlorite - TKN

- same as WC 76101C. Prepare fresh each run.

2 runs
A

4 copies

33532
34348
34419
34493

:un #: 136743
:nalyte: TOTN 353.2 NITRATE/NITRITE AS N
:rinted: 11/01/06 14:19

TYPE	SUBMISSION	ORDER #	MATRIX	REPORTED RESULT		DILUTION	PQL	% RECOVERY	% RSD	DATE ANALYZED	QC	PKG #
HK1		952244	WATER	1.81		1.0	0.0500	100.7		11/01/2006		
LK1		952245	WATER	0.0500	U	1.0	0.0500			11/01/2006		
PKB		952246	WATER	0.501		1.0	0.0500	100.1		11/01/2006		
SMP	R2634349	947855	WATER	2.84		4.0	0.0500			11/01/2006		6 0.00284
DUP		952247	WATER	2.83		4.0	0.0500		0.33	11/01/2006		
PK1		952248	WATER	4.72		4.0	0.0500	94.0		11/01/2006		
SMP	R2634349	947856	WATER	0.184		1.0	0.0500			11/01/2006		6
SMP	R2634349	947857	WATER	0.0156	B	1.0	0.0500			11/01/2006		6
SMP	R2633532	935153	WATER	0.0500	U	1.0	0.0500			11/01/2006	RUN	ASPB
SMP	R2633532	935155	WATER	0.473		1.0	0.0500			11/01/2006	RUN	ASPB
SMP	R2634205	946023	WATER	0.100	U	2.0	0.0500			11/01/2006	RUN	2
DUP		952249	WATER	0.100	U	2.0	0.0500			11/01/2006		
PK1		952250	WATER	0.507		2.0	0.0500	50.7		11/01/2006		
SMP	R2634205	946024	WATER	0.0266		1.0	0.0500			11/01/2006	RUN	2
SMP	R2634205	946025	WATER	0.0403		1.0	0.0500			11/01/2006	RUN	2
SMP	R2634205	946026	WATER	0.200	U	4.0	0.0500			11/01/2006	RUN	2
SMP	R2634205	946027	WATER	0.283		1.0	0.0500			11/01/2006	RUN	2
SMP	R2634348	948150	WATER	0.0202		1.0	0.0500			11/01/2006		5
SMP	R2634348	948151	WATER	1.11		1.0	0.0500			11/01/2006		5
SMP	R2634348	948152	WATER	0.512		1.0	0.0500			11/01/2006		5
DUP		952251	WATER	0.512		1.0	0.0500		0.06	11/01/2006		
PKB		952252	WATER	0.504		1.0	0.0500	100.9		11/01/2006		
PK1		952253	WATER	1.01		1.0	0.0500	100.1		11/01/2006		
SMP	R2634348	948153	WATER	0.0985		1.0	0.0500			11/01/2006		5
SMP	R2634348	948154	WATER	1.02		1.0	0.0500			11/01/2006		5
SMP	R2634381	948173	WATER	13.7		20.0	0.0500			11/01/2006		1
SMP	R2634381	948174	WATER	17.2		40.0	0.0500			11/01/2006		1
SMP	R2634381	948175	WATER	17.1		40.0	0.0500			11/01/2006		1
SMP	R2634381	948176	WATER	16.0		40.0	0.0500			11/01/2006		1
SMP	R2634381	948177	WATER	19.2		40.0	0.0500			11/01/2006		1
SMP	R2634381	948178	WATER	19.7		40.0	0.0500			11/01/2006		1
SMP	R2634381	948179	WATER	19.2		40.0	0.0500			11/01/2006		1
SMP	R2634419	948570	WATER	0.0413		1.0	0.0500			11/01/2006	QC	5
DUP		952254	WATER	0.0414		1.0	0.0500		0.24	11/01/2006		
PK1		952255	WATER	0.466		1.0	0.0500	93.1		11/01/2006		
SMP	R2634419	948573	WATER	0.106		1.0	0.0500			11/01/2006		5
SMP	R2634419	948575	WATER	0.0165		1.0	0.0500			11/01/2006		5
SMP	R2634419	948578	WATER	0.0170		1.0	0.0500			11/01/2006		5
SMP	R2634419	948580	WATER	0.0401		1.0	0.0500			11/01/2006		5
SMP	R2634419	948581	WATER	0.0767		1.0	0.0500			11/01/2006		5
SMP	R2634419	948584	WATER	0.0260		1.0	0.0500			11/01/2006		5
SMP	R2634419	948586	WATER	0.0238		1.0	0.0500			11/01/2006		5
PKB		952256	WATER	0.501		1.0	0.0500	100.1		11/01/2006		
SMP	R2634419	948587	WATER	0.0865		1.0	0.0500			11/01/2006		5
SMP	R2634419	948588	WATER	0.0257		1.0	0.0500			11/01/2006		5
SMP	R2634419	948590	WATER	0.0376		1.0	0.0500			11/01/2006		5
SMP	R2634419	948591	WATER	0.0417		1.0	0.0500			11/01/2006		5
SMP	R2634432	948836	WATER	0.437		1.0	0.0500			11/01/2006	RUN	6
SMP	R2634432	948839	WATER	0.0928		1.0	0.0500			11/01/2006	RUN	6
SMP	R2634419	948944	WATER	0.0201		1.0	0.0500			11/01/2006		5
SMP	R2634419	948945	WATER	0.0125		1.0	0.0500			11/01/2006		5

B 11/2/06
PQL/mdl

Reviewed & Approved
By: L Bowe
Date: 11/2/06

1116

ANALYTE:G:\STARLIMS\ASBAR.RP1

TYPE	SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
ESMP	R2634419	948946	WATER	0.475	1.0	0.0500			11/01/2006	QC	5
LDUP		952257	WATER	0.465	1.0	0.0500		2.17	11/01/2006		
SPK1		952258	WATER	0.982	1.0	0.0500	101.4		11/01/2006		
ESMP	R2634419	948947	WATER	0.682	1.0	0.0500			11/01/2006		5
ESMP	R2634419	948949	WATER	0.0282	1.0	0.0500			11/01/2006		5
ESMP	R2634419	948950	WATER	0.0230	1.0	0.0500			11/01/2006		5
ESMP	R2634419	948951	WATER	0.0495	1.0	0.0500			11/01/2006		5
ESMP	R2634419	948952	WATER	0.0677	1.0	0.0500			11/01/2006		5
ESMP	R2634419	948953	WATER	0.0254	1.0	0.0500			11/01/2006		5
ESMP	R2634419	948954	WATER	0.279	1.0	0.0500			11/01/2006		5
ESMP	R2634463	949504	WATER	0.206	1.0	0.0500			11/01/2006	RUN	6
ESMP	R2634463	949505	WATER	0.753	1.0	0.0500			11/01/2006	RUN	6
SPKB		952259	WATER	0.488	1.0	0.0500	97.6		11/01/2006		
LDUP		952260	WATER	0.740	1.0	0.0500		1.74	11/01/2006		
SPK1		952261	WATER	1.24	1.0	0.0500	98.1		11/01/2006		
ESMP	R2634463	949506	WATER	1.16	1.0	0.0500			11/01/2006	RUN	6
ESMP	R2634481	949824	WATER	0.135	1.0	0.0500			11/01/2006		1
ESMP	R2634493	950030	WATER	1.77	1.0	0.0500			11/01/2006		ASPB
LDUP		952262	WATER	1.78	1.0	0.0500		0.56	11/01/2006		
SPK1		952263	WATER	2.68	2.0	0.0500	90.9		11/01/2006		
ESMP	R2634493	950031	WATER	2.44	2.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950032	WATER	2.06	2.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950033	WATER	3.89	4.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950034	WATER	28.6	20.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950035	WATER	0.230	1.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950036	WATER	24.9	20.0	0.0500			11/01/2006		ASPB
ESMP	R2634508	950450	WATER	1.79	1.0	0.0500			11/01/2006	RUN	6
ESMP	R2634493	950466	WATER	3.14	2.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950467	WATER	38.4	20.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950468	WATER	38.4	20.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950469	WATER	0.0283	1.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950470	WATER	9.17	5.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950471	WATER	2.69	2.0	0.0500			11/01/2006		ASPB
SPKB		952264	WATER	0.492	1.0	0.0500	98.3		11/01/2006		
ESMP	R2634493	950472	WATER	3.58	4.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950473	WATER	1.14	1.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950474	WATER	3.68	4.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950475	WATER	9.66	10.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950476	WATER	9.73	10.0	0.0500			11/01/2006		ASPB
ESMP	R2634493	950477	WATER	3.05	4.0	0.0500			11/01/2006	QC	ASPB
LDUP		952265	WATER	3.06	4.0	0.0500		0.22	11/01/2006		
SPK1		952266	WATER	5.09	4.0	0.0500	101.9		11/01/2006		
ESMP	R2634538	951016	WATER	0.0156 B	1.0	0.0500			11/01/2006	RUN	6
ESMP	R2634538	951017	WATER	1.15	1.0	0.0500			11/01/2006	RUN	6
SPKB		952267	WATER	0.480	1.0	0.0500	95.9		11/01/2006		

BD 11/2/06

Records printed: 96

Creator: NMEAD
Creation Date: Nov 1, 2006 9:27:43
Last Modified: Nov 1, 2006 12:30:30
Description: QC 8000 353.2 TOTN - RUN LOG - 0611010A

Cup #	Sample ID	Manual Dilution	Sample Type	
1	Standard A - 2.000	1.0000	CalStd	
2	Standard B - 1.000	1.0000	CalStd	
3	Standard C - 0.500	1.0000	CalStd	
4	Standard D - 0.200	1.0000	CalStd	
5	Standard E - 0.100	1.0000	CalStd	
6	Standard F - 0.050	1.0000	CalStd	
7	Standard G - 0.020	1.0000	CalStd	
8	Standard H - 0.010	1.0000	CalStd	
9	Standard I - 0.000	1.0000	CalStd	
1	1.00 NO3	1.0000	Unknown	
2	1.00 NO2	1.0000	Unknown	
3	ICV TV= 1.80	1.0000	Unknown	
4	ICB	1.0000	Unknown	
5	LCS TV= 0.500	1.0000	Unknown	
6	CRDL - 0.100	1.0000	Unknown	
7	CRDL - 0.050	1.0000	Unknown	
8	947855-34349	1.0000	Unknown	rpt @ #118-120 - 1/4
9	855 DUP	1.0000	Unknown	
10	855 SPK TV= 0.500	1.0000	Unknown	
11	947856	1.0000	Unknown	
12	947857	1.0000	Unknown	
13	935153-33532	1.0000	Unknown	neg. peak - <PQL
14	935155	1.0000	Unknown	
15	946023-34295	1.0000	Unknown	neg. peak - rpt @ # 121 - 1/2
16	CCV	1.0000	Unknown	
17	CCB	1.0000	Unknown	
18	023 DUP	1.0000	Unknown	neg. peak - rpt @ # 122 - 1/2
19	023 SPK TV= 0.500	1.0000	Unknown	low - rpt @ # 123 - 1/2
20	946024	1.0000	Unknown	
21	946025	1.0000	Unknown	
22	946026	1.0000	Unknown	neg. peak - rpt @ # 124 1/2
23	946027	1.0000	Unknown	
24	948150-34348	1.0000	Unknown	
25	948151	1.0000	Unknown	
26	948152	1.0000	Unknown	
27	152 DUP	1.0000	Unknown	
28	CCV	1.0000	Unknown	
29	CCB	1.0000	Unknown	
30	LCS	1.0000	Unknown	
31	152 SPK TV= 0.500	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
32	948153	1.0000	Unknown	
33	948154	1.0000	Unknown	
34	948173-34381	20.0000	Unknown	
35	948174	40.0000	Unknown	
36	948175	40.0000	Unknown	
37	948176	40.0000	Unknown	
38	948177	40.0000	Unknown	
39	948178	40.0000	Unknown	
40	948179	40.0000	Unknown	
41	CCV	1.0000	Unknown	
42	CCB	1.0000	Unknown	
43	948570-34419	1.0000	Unknown	
44	570 DUP	1.0000	Unknown	
45	570 SPK TV= 0.500	1.0000	Unknown	
46	948573	1.0000	Unknown	
47	948575	1.0000	Unknown	
48	948578	1.0000	Unknown	
49	948580	1.0000	Unknown	
50	948581	1.0000	Unknown	
51	948584	1.0000	Unknown	
52	948586	1.0000	Unknown	
53	CCV	1.0000	Unknown	
54	CCB	1.0000	Unknown	
55	LCS	1.0000	Unknown	
56	948587	1.0000	Unknown	
57	948588	1.0000	Unknown	
58	948590	1.0000	Unknown	
59	948591	1.0000	Unknown	
60	948836-34432	1.0000	Unknown	
61	948839	1.0000	Unknown	
62	948944-34419	1.0000	Unknown	
63	948945	1.0000	Unknown	
64	948946	1.0000	Unknown	
65	946 DUP	1.0000	Unknown	
66	CCV	1.0000	Unknown	
67	CCB	1.0000	Unknown	
68	946 SPK TV= 0.500	1.0000	Unknown	
69	948947	1.0000	Unknown	
70	948949	1.0000	Unknown	
71	948950	1.0000	Unknown	
72	948951	1.0000	Unknown	
73	948952	1.0000	Unknown	
74	948953	1.0000	Unknown	
75	948954	1.0000	Unknown	
76	949504-34463	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
77	949505	1.0000	Unknown	
78	CCV	1.0000	Unknown	
79	CCB	1.0000	Unknown	
80	LCS	1.0000	Unknown	
81	505 DUP	1.0000	Unknown	
82	505 SPK TV= 0.500	1.0000	Unknown	
83	949506	1.0000	Unknown	
84	949824-34481	1.0000	Unknown	
85	950030-34493	1.0000	Unknown	
86	030 DUP	1.0000	Unknown	
87	030 SPK TV= 0.500	1.0000	Unknown	-rpt@#125-1/2
88	950031	1.0000	Unknown	-rpt@#126-1/2
89	950032	1.0000	Unknown	-rpt@#127-1/2
90	950033	1.0000	Unknown	-rpt@#131-1/4
91	CCV	1.0000	Unknown	
92	CCB	1.0000	Unknown	
93	950034	1.0000	Unknown	-rpt@#132-1/20
94	950035	1.0000	Unknown	-carryover? -rpt@#133
95	950036	1.0000	Unknown	-rpt@#134-1/20
96	950450-34508	1.0000	Unknown	-carryover? -rpt@#135
97	950466-34493	1.0000	Unknown	-rpt@#136-1/2
98	950467	1.0000	Unknown	-rpt@#137-1/20
99	950468	1.0000	Unknown	-rpt@#138-1/20
100	950469	1.0000	Unknown	-carryover? -rpt@#139
101	950470	1.0000	Unknown	-rpt@#140-1/5
102	950471	1.0000	Unknown	-rpt@#143-1/2
103	CCV	1.0000	Unknown	
104	CCB	1.0000	Unknown	
105	LCS	1.0000	Unknown	
106	950472	1.0000	Unknown	-rpt@#144-1/4
107	950473	1.0000	Unknown	
108	950474	1.0000	Unknown	-rpt@#145-1/4
109	950475	1.0000	Unknown	-rpt@#146-1/10
110	950476	1.0000	Unknown	-rpt@#147-1/10
111	950477	1.0000	Unknown	rpt @#148-150 -1/4
112	477 DUP	1.0000	Unknown	
113	477 SPK TV= 0.500	1.0000	Unknown	
114	951016-34538	1.0000	Unknown	
115	951017	1.0000	Unknown	
116	CCV	1.0000	Unknown	
117	CCB	1.0000	Unknown	
118	947855 RPT 1/4	4.0000	Unknown	
119	855 DUP RPT 1/4	4.0000	Unknown	
120	855SPK RPT1/4 TV= 0.50	4.0000	Unknown	
121	946023 RPT 1/2	2.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
122	023 DUP RPT 1/2	2.0000	Unknown	
123	023SPK RPT1/2 TV= 0.50	2.0000	Unknown	-low-rpt @#151
124	946026 RPT 1/2	2.0000	Unknown	-neg.peak-rpt@#152-1/4
125	950030SPKRPT1/2TV=0.5	2.0000	Unknown	
126	950031 RPT 1/2	2.0000	Unknown	
127	950032 RPT 1/2	2.0000	Unknown	
128	CCV	1.0000	Unknown	
129	CCB	1.0000	Unknown	
130	LCS	1.0000	Unknown	
131	950033 RPT 1/4	4.0000	Unknown	
132	950034 RPT 1/20	20.0000	Unknown	
133	950035 RPT	1.0000	Unknown	
134	950036 RPT 1/20	20.0000	Unknown	
135	950450 RPT	1.0000	Unknown	
136	950466 RPT 1/2	2.0000	Unknown	
137	950467 RPT 1/20	20.0000	Unknown	
138	950468 RPT 1/20	20.0000	Unknown	
139	950469 RPT	1.0000	Unknown	
140	950470 RPT 1/5	5.0000	Unknown	
141	CCV	1.0000	Unknown	
142	CCB	1.0000	Unknown	
143	950471 RPT 1/2	2.0000	Unknown	
144	950472 RPT 1/4	4.0000	Unknown	
145	950474 RPT 1/4	4.0000	Unknown	
146	950475 RPT 1/10	10.0000	Unknown	
147	950476 RPT 1/10	10.0000	Unknown	
148	950477 RPT 1/4	4.0000	Unknown	
149	477 DUP RPT 1/4	4.0000	Unknown	
150	477 SPK RPT1/4 TV=0.50	4.0000	Unknown	
151	946023SPKRPT1/2TV=0.5	2.0000	Unknown	
152	946026 RPT 1/4	4.0000	Unknown	
153	CCV	1.0000	Unknown	
154	CCB	1.0000	Unknown	

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Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 – Cup Range: 1 to 25

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 353.2 NO3+NO2 (TOTN) (mg\l)	Man Dil Factor	Auto Dil Factor	
1	1.00 NO3	01 Nov 2006	10:27:29	1	0.9857	1.0	1.00	
2	1.00 NO2	01 Nov 2006	10:28:32	1	1.0667	1.0	1.00	
3	ICV TV= 1.80	01 Nov 2006	10:29:36	1	1.8117	1.0	1.00	
4	ICB	01 Nov 2006	10:30:39	1	0.0010	1.0	1.00	
5	LCS TV= 0.500	01 Nov 2006	10:31:42	1	0.5006	1.0	1.00	
6	CRDL - 0.100	01 Nov 2006	10:32:46	1	0.1027	1.0	1.00	
7	CRDL - 0.050	01 Nov 2006	10:33:48	1	0.0543	1.0	1.00	
8	947855-34349	01 Nov 2006	10:34:50	1	2.9366	1.0	1.00	rpt @ #118-120-1/4
9	855 DUP	01 Nov 2006	10:35:52	1	2.9190	1.0	1.00	
10	855 SPK TV= 0.500	01 Nov 2006	10:36:55	1	3.4224	1.0	1.00	
11	947856	01 Nov 2006	10:37:57	1	0.1835	1.0	1.00	
12	947857	01 Nov 2006	10:38:59	1	0.0156	1.0	1.00	
13	935153-33532	01 Nov 2006	10:40:01	1	0.0294	1.0	1.00	- neg. peak - < PQL
14	935155	01 Nov 2006	10:41:04	1	0.4732	1.0	1.00	
15	946023-34295	01 Nov 2006	10:42:05	1	0.0010	1.0	1.00	- neg. peak - rpt @ #121-1/2
16	CCV	01 Nov 2006	10:43:09	1	1.8024	1.0	1.00	
17	CCB	01 Nov 2006	10:44:12	1	0.0010	1.0	1.00	
18	023 DUP	01 Nov 2006	10:45:15	1	0.0010	1.0	1.00	- neg. peak - rpt @ #122-1/2
19	023 SPK TV= 0.500	01 Nov 2006	10:46:19	1	0.1219	1.0	1.00	- low - rpt @ # 123-1/2
20	946024	01 Nov 2006	10:47:22	1	0.0266	1.0	1.00	
21	946025	01 Nov 2006	10:48:25	1	0.0403	1.0	1.00	
22	946026	01 Nov 2006	10:49:28	1	0.0010	1.0	1.00	- neg. peak - rpt @ #124-1/2
23	946027	01 Nov 2006	10:50:32	1	0.2834	1.0	1.00	
24	948150-34348	01 Nov 2006	10:51:34	1	0.0202	1.0	1.00	
25	948151	01 Nov 2006	10:52:36	1	1.1097	1.0	1.00	

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Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 26 to 50

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 353.2 NO3+NO2 (TOTN) (mg\l)	Man Dil Factor	Auto Dil Factor
26	948152	01 Nov 2006	10:53:39	1	0.5120	1.0	1.00
27	152 DUP	01 Nov 2006	10:54:41	1	0.5117	1.0	1.00
28	CCV	01 Nov 2006	10:55:43	1	1.8245	1.0	1.00
29	CCB	01 Nov 2006	10:56:46	1	0.0010	1.0	1.00
30	LCS	01 Nov 2006	10:57:48	1	0.5044	1.0	1.00
31	152 SPK TV= 0.500	01 Nov 2006	10:58:52	1	1.0126	1.0	1.00
32	948153	01 Nov 2006	10:59:55	1	0.0985	1.0	1.00
33	948154	01 Nov 2006	11:00:59	1	1.0150	1.0	1.00
34	948173-34381	01 Nov 2006	11:02:02	1	13.6966	20.0	1.00
35	948174	01 Nov 2006	11:03:05	1	17.2287	40.0	1.00
36	948175	01 Nov 2006	11:04:09	1	17.0988	40.0	1.00
37	948176	01 Nov 2006	11:05:12	1	15.9668	40.0	1.00
38	948177	01 Nov 2006	11:06:16	1	19.1597	40.0	1.00
39	948178	01 Nov 2006	11:07:18	1	19.7445	40.0	1.00
40	948179	01 Nov 2006	11:08:20	1	19.1505	40.0	1.00
41	CCV	01 Nov 2006	11:09:23	1	1.8188	1.0	1.00
42	CCB	01 Nov 2006	11:10:25	1	0.0010	1.0	1.00
43	948570-34419	01 Nov 2006	11:11:27	1	0.0413	1.0	1.00
44	570 DUP	01 Nov 2006	11:12:30	1	0.0414	1.0	1.00
45	570 SPK TV= 0.500	01 Nov 2006	11:13:32	1	0.4655	1.0	1.00
46	948573	01 Nov 2006	11:14:37	1	0.1059	1.0	1.00
47	948575	01 Nov 2006	11:15:40	1	0.0165	1.0	1.00
48	948578	01 Nov 2006	11:16:43	1	0.0170	1.0	1.00
49	948580	01 Nov 2006	11:17:47	1	0.0401	1.0	1.00
50	948581	01 Nov 2006	11:18:50	1	0.0767	1.0	1.00

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Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 75

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 353.2 NO3+NO2 (TOTN) (mg\l)	Man Dil Factor	Auto Dil Factor
51	948584	01 Nov 2006	11:19:54	1	0.0260	1.0	1.00
52	948586	01 Nov 2006	11:20:57	1	0.0238	1.0	1.00
53	CCV	01 Nov 2006	11:22:01	1	1.8106	1.0	1.00
54	CCB	01 Nov 2006	11:23:04	1	0.0010	1.0	1.00
55	LCS	01 Nov 2006	11:24:07	1	0.5007	1.0	1.00
56	948587	01 Nov 2006	11:25:10	1	0.0865	1.0	1.00
57	948588	01 Nov 2006	11:26:12	1	0.0257	1.0	1.00
58	948590	01 Nov 2006	11:27:14	1	0.0376	1.0	1.00
59	948591	01 Nov 2006	11:28:17	1	0.0417	1.0	1.00
60	948836-34432	01 Nov 2006	11:29:19	1	0.4370	1.0	1.00
61	948839	01 Nov 2006	11:30:24	1	0.0928	1.0	1.00
62	948944-34419	01 Nov 2006	11:31:28	1	0.0201	1.0	1.00
63	948945	01 Nov 2006	11:32:33	1	0.0125	1.0	1.00
64	948946	01 Nov 2006	11:33:37	1	0.4750	1.0	1.00
65	946 DUP	01 Nov 2006	11:34:40	1	0.4648	1.0	1.00
66	CCV	01 Nov 2006	11:35:44	1	1.7757	1.0	1.00
67	CCB	01 Nov 2006	11:36:47	1	0.0010	1.0	1.00
68	946 SPK TV= 0.500	01 Nov 2006	11:37:51	1	0.9822	1.0	1.00
69	948947	01 Nov 2006	11:38:54	1	0.6821	1.0	1.00
70	948949	01 Nov 2006	11:39:57	1	0.0282	1.0	1.00
71	948950	01 Nov 2006	11:41:01	1	0.0230	1.0	1.00
72	948951	01 Nov 2006	11:42:03	1	0.0495	1.0	1.00
73	948952	01 Nov 2006	11:43:05	1	0.0677	1.0	1.00
74	948953	01 Nov 2006	11:44:08	1	0.0254	1.0	1.00
75	948954	01 Nov 2006	11:45:10	1	0.2786	1.0	1.00

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Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 76 to 100

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 353.2 NO3+NO2 (TOTN) (mg\l)	Man Dil Factor	Auto Dil Factor	
76	949504-34463	01 Nov 2006	11:46:15	1	0.2059	1.0	1.00	
77	949505	01 Nov 2006	11:47:19	1	0.7533	1.0	1.00	
78	CCV	01 Nov 2006	11:48:24	1	1.7498	1.0	1.00	
79	CCB	01 Nov 2006	11:49:27	1	0.0010	1.0	1.00	
80	LCS	01 Nov 2006	11:50:31	1	0.4878	1.0	1.00	
81	505 DUP	01 Nov 2006	11:51:35	1	0.7400	1.0	1.00	
82	505 SPK TV= 0.500	01 Nov 2006	11:52:38	1	1.2433	1.0	1.00	
83	949506	01 Nov 2006	11:53:42	1	1.1658	1.0	1.00	
84	949824-34481	01 Nov 2006	11:54:45	1	0.1346	1.0	1.00	
85	950030-34493	01 Nov 2006	11:55:49	1	1.7731	1.0	1.00	
86	030 DUP	01 Nov 2006	11:56:52	1	1.7800	1.0	1.00	
87	030 SPK TV= 0.500	01 Nov 2006	11:57:55	1	2.2632	1.0	1.00	- rpt @ #125 - 1/2
88	950031	01 Nov 2006	11:58:58	1	2.4767	1.0	1.00	- rpt @ #126 - 1/2
89	950032	01 Nov 2006	12:00:00	1	2.1162	1.0	1.00	- rpt @ #127 - 1/2
90	950033	01 Nov 2006	12:01:03	1	3.9828	1.0	1.00	- rpt @ #131 - 1/4
91	CCV	01 Nov 2006	12:02:07	1	1.7436	1.0	1.00	
92	CCB	01 Nov 2006	12:03:12	1	0.0010	1.0	1.00	
93	950034	01 Nov 2006	12:04:16	1	15.3217	1.0	1.00	- rpt @ #132 - 1/20
94	950035	01 Nov 2006	12:05:21	1	0.2280	1.0	1.00	- carryover? - rpt @ #133
95	950036	01 Nov 2006	12:06:25	1	14.5540	1.0	1.00	- rpt @ #134 - 1/20
96	950450-34508	01 Nov 2006	12:07:29	1	1.8083	1.0	1.00	- carryover? - rpt @ #135
97	950466-34493	01 Nov 2006	12:08:32	1	3.2085	1.0	1.00	- rpt @ #136 - 1/2
98	950467	01 Nov 2006	12:09:35	1	16.5892	1.0	1.00	- rpt @ #137 - 1/20
99	950468	01 Nov 2006	12:10:39	1	16.5261	1.0	1.00	- rpt @ #138 - 1/20
100	950469	01 Nov 2006	12:11:42	1	0.0224	1.0	1.00	- carryover? - rpt @ #139

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Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 – Cup Range: 101 to 125

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 353.2 NO3+NO2 (TOTN) (mg\l)	Man Dil Factor	Auto Dil Factor	
101	950470	01 Nov 2006	12:12:46	1	8.4328	1.0	1.00	– rpt @ #140 – 1/5
102	950471	01 Nov 2006	12:13:49	1	2.7659	1.0	1.00	– rpt @ #143 – 1/2
103	CCV	01 Nov 2006	12:14:53	1	1.7513	1.0	1.00	
104	CCB	01 Nov 2006	12:15:55	1	0.0010	1.0	1.00	
105	LCS	01 Nov 2006	12:16:57	1	0.4917	1.0	1.00	
106	950472	01 Nov 2006	12:18:02	1	3.5984	1.0	1.00	– rpt @ # 144 – 1/4
107	950473	01 Nov 2006	12:19:06	1	1.1384	1.0	1.00	
108	950474	01 Nov 2006	12:20:11	1	3.7556	1.0	1.00	– rpt @ # 145 – 1/4
109	950475	01 Nov 2006	12:21:15	1	8.5818	1.0	1.00	– rpt @ # 146 – 1/10
110	950476	01 Nov 2006	12:22:19	1	8.7196	1.0	1.00	– rpt @ # 147 – 1/10
111	950477	01 Nov 2006	12:23:24	1	3.0737	1.0	1.00	rpt @ # 148 – 150 – 1/4
112	477 DUP	01 Nov 2006	12:24:27	1	3.1035	1.0	1.00	
113	477 SPK TV= 0.500	01 Nov 2006	12:25:31	1	3.6077	1.0	1.00	
114	951016-34538	01 Nov 2006	12:26:34	1	0.0156	1.0	1.00	
115	951017	01 Nov 2006	12:27:38	1	1.1492	1.0	1.00	
116	CCV	01 Nov 2006	12:28:41	1	1.7133	1.0	1.00	
117	CCB	01 Nov 2006	12:29:44	1	0.0010	1.0	1.00	
118	947855 RPT 1/4	01 Nov 2006	12:30:48	1	2.8383	4.0	1.00	
119	855 DUP RPT 1/4	01 Nov 2006	12:31:50	1	2.8307	4.0	1.00	
120	855SPK RPT1/4 TV= 0.50	01 Nov 2006	12:32:54	1	4.7197	4.0	1.00	
121	946023 RPT 1/2	01 Nov 2006	12:33:58	1	0.0866	2.0	1.00	Sine peak, < 0.05
122	023 DUP RPT 1/2	01 Nov 2006	12:35:03	1	0.0854	2.0	1.00	↓
123	023SPK RPT1/2 TV= 0.50	01 Nov 2006	12:36:07	1	0.5071	2.0	1.00	– low – rpt @ #151
124	946026 RPT 1/2	01 Nov 2006	12:37:12	1	0.1560	2.0	1.00	– neg. peak – rpt @ #152 – 1/4
125	950030SPKRPT1/2TV=0.5	01 Nov 2006	12:38:16	1	2.6790	2.0	1.00	

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Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 126 to 150

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 353.2 NO3+NO2 (TOTN) (mg\l)	Man Dil Factor	Auto Dil Factor
126	950031 RPT 1/2	01 Nov 2006	12:39:20	1	2.4400	2.0	1.00
127	950032 RPT 1/2	01 Nov 2006	12:40:25	1	2.0654	2.0	1.00
128	CCV	01 Nov 2006	12:41:29	1	1.7114	1.0	1.00
129	CCB	01 Nov 2006	12:42:33	1	0.0010	1.0	1.00
130	LCS	01 Nov 2006	12:43:36	1	0.4797	1.0	1.00
131	950033 RPT 1/4	01 Nov 2006	12:44:40	1	3.8918	4.0	1.00
132	950034 RPT 1/20	01 Nov 2006	12:45:43	1	28.5582	20.0	1.00
133	950035 RPT	01 Nov 2006	12:46:46	1	0.2295	1.0	1.00
134	950036 RPT 1/20	01 Nov 2006	12:47:50	1	24.8790	20.0	1.00
135	950450 RPT	01 Nov 2006	12:48:53	1	1.7902	1.0	1.00
136	950466 RPT 1/2	01 Nov 2006	12:49:59	1	3.1455	2.0	1.00
137	950467 RPT 1/20	01 Nov 2006	12:51:04	1	38.3732	20.0	1.00
138	950468 RPT 1/20	01 Nov 2006	12:52:08	1	38.4165	20.0	1.00
139	950469 RPT	01 Nov 2006	12:53:13	1	0.0283	1.0	1.00
140	950470 RPT 1/5	01 Nov 2006	12:54:17	1	9.1721	5.0	1.00
141	CCV	01 Nov 2006	12:55:22	1	1.6999	1.0	1.00
142	CCB	01 Nov 2006	12:56:26	1	0.0010	1.0	1.00
143	950471 RPT 1/2	01 Nov 2006	12:57:31	1	2.6949	2.0	1.00
144	950472 RPT 1/4	01 Nov 2006	12:58:35	1	3.5801	4.0	1.00
145	950474 RPT 1/4	01 Nov 2006	12:59:38	1	3.6782	4.0	1.00
146	950475 RPT 1/10	01 Nov 2006	13:00:42	1	9.6644	10.0	1.00
147	950476 RPT 1/10	01 Nov 2006	13:01:45	1	9.7271	10.0	1.00
148	950477 RPT 1/4	01 Nov 2006	13:02:49	1	3.0530	4.0	1.00
149	477 DUP RPT 1/4	01 Nov 2006	13:03:52	1	3.0568	4.0	1.00
150	477 SPK RPT1/4 TV=0.50	01 Nov 2006	13:04:55	1	5.0872	4.0	1.00

OPERATOR: NMEAD
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Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 151 to 175

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	QC 8000 353.2 NO3+NO2 (TOTN) (mg\l)	Man Dil Factor	Auto Dil Factor	
151	946023SPKRPT1/2TV=0.5	01 Nov 2006	13:06:01	1	0.5168	2.0	1.00	- report original 1/2 result
152	946026 RPT 1/4	01 Nov 2006	13:07:06	1	0.2024	4.0	1.00	- sine peak - height < PQL result = < 0.200
153	CCV	01 Nov 2006	13:08:11	1	1.6894	1.0	1.00	
154	CCB	01 Nov 2006	13:09:15	1	0.0010	1.0	1.00	= < 0.05

BB 11/1/06

OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:13:27
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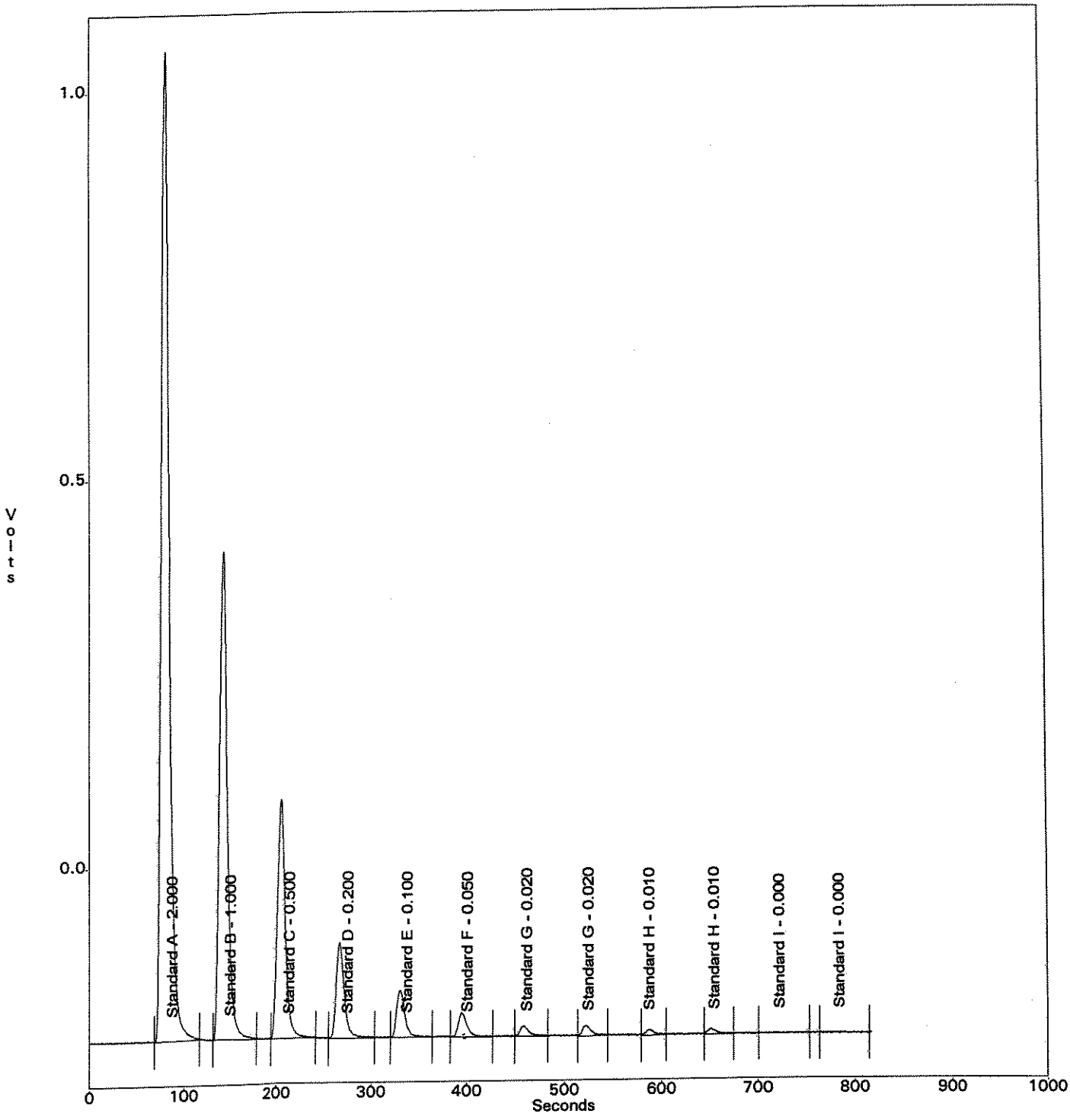
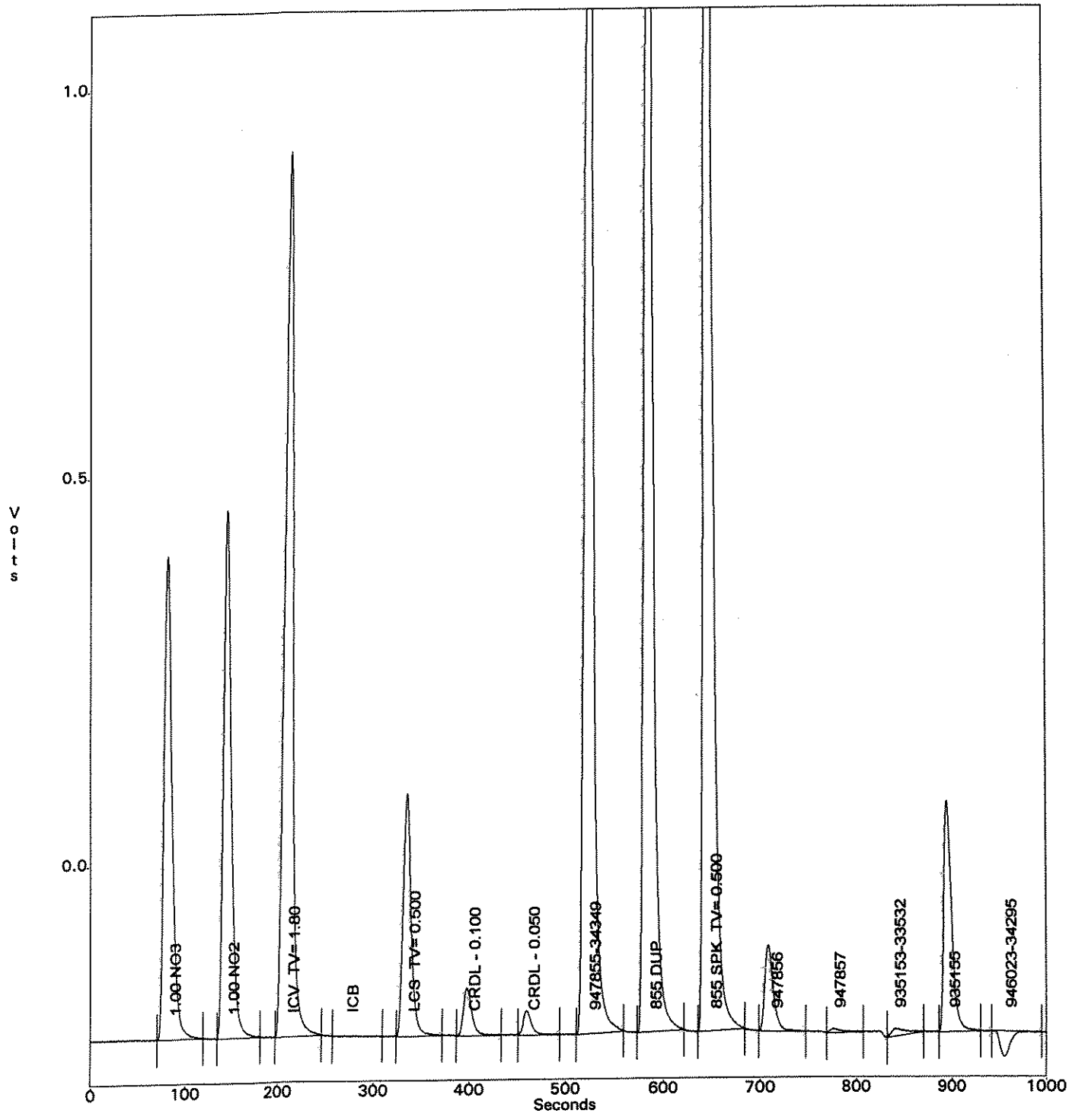
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



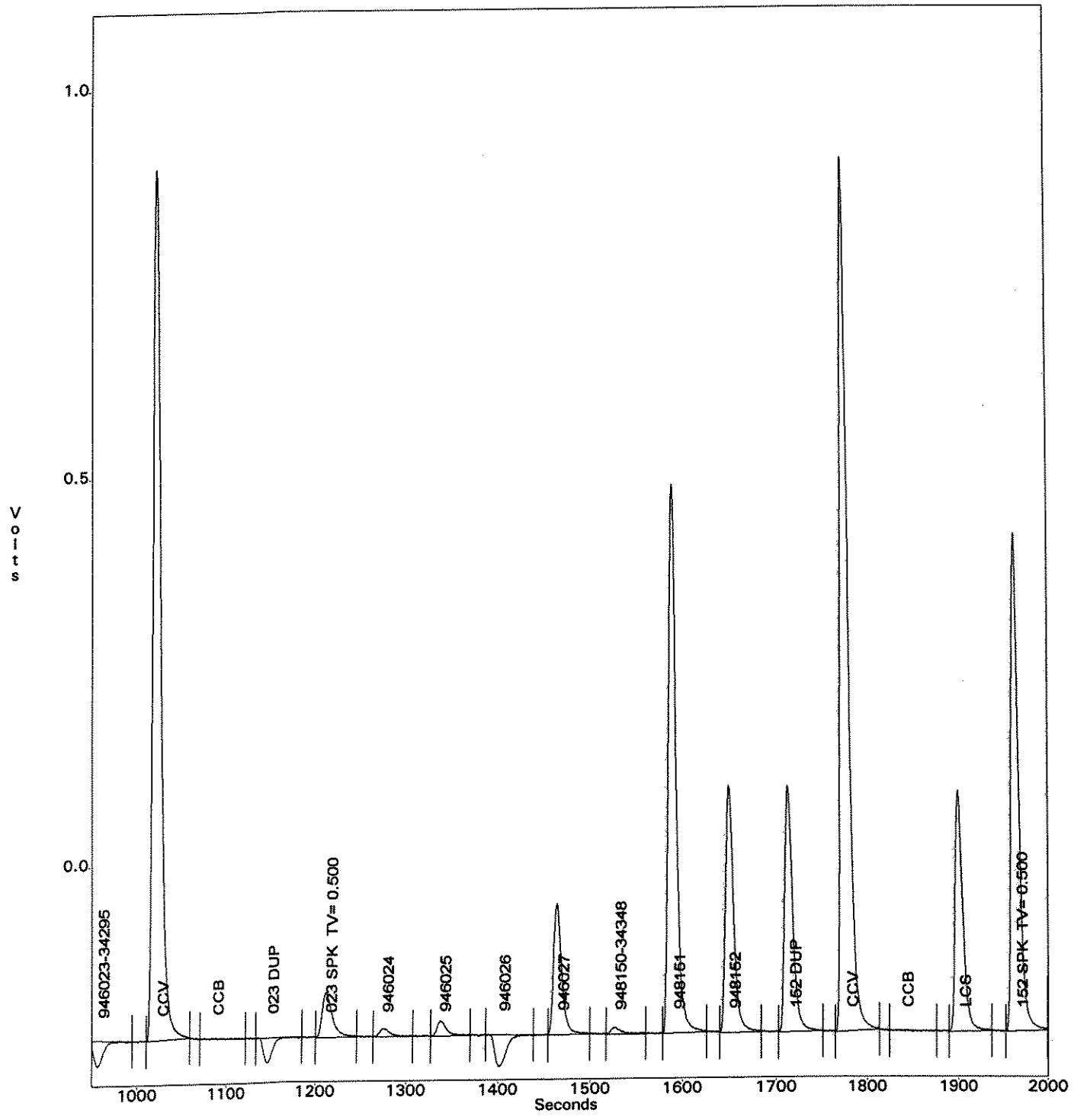
OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



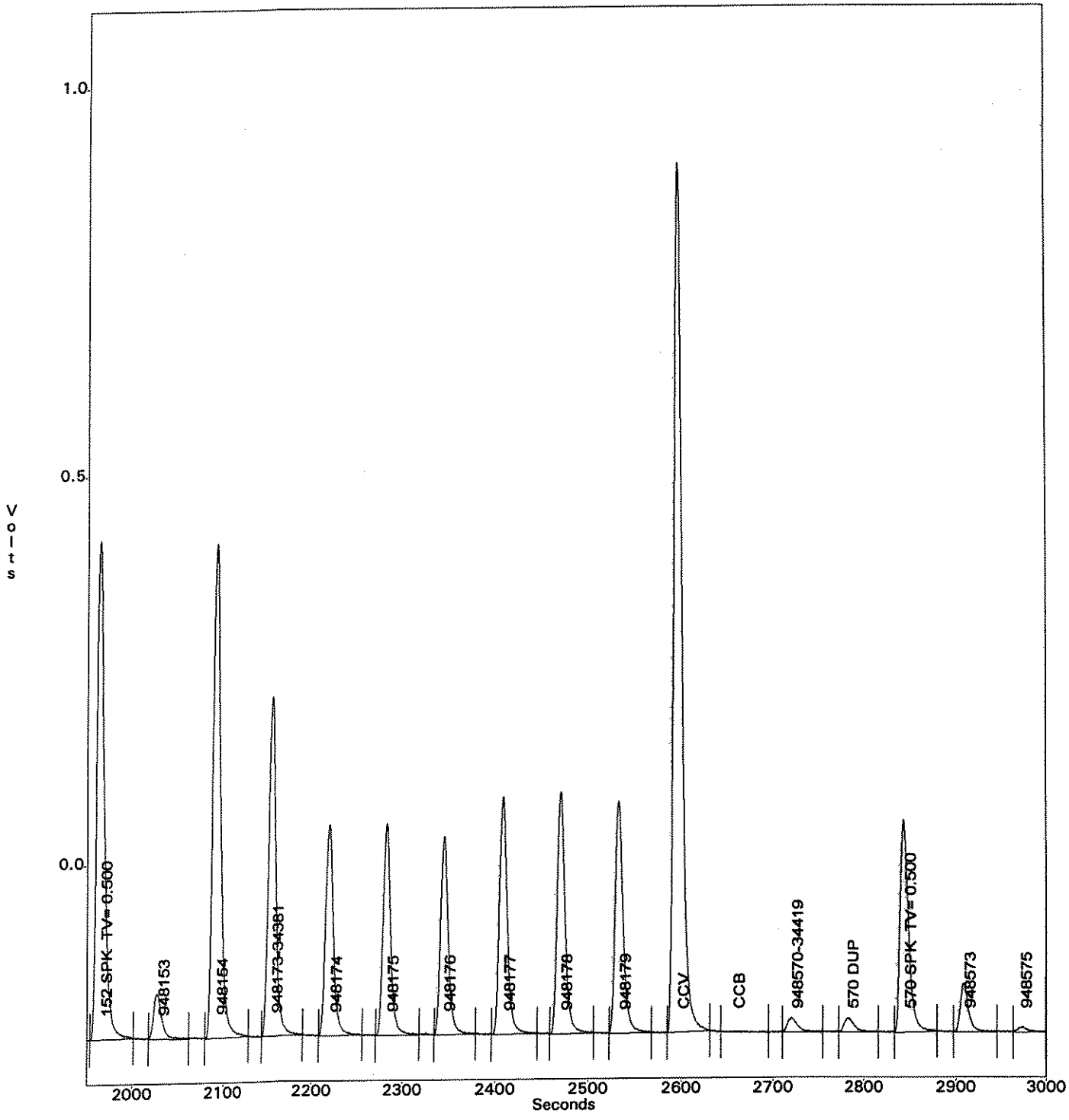
OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



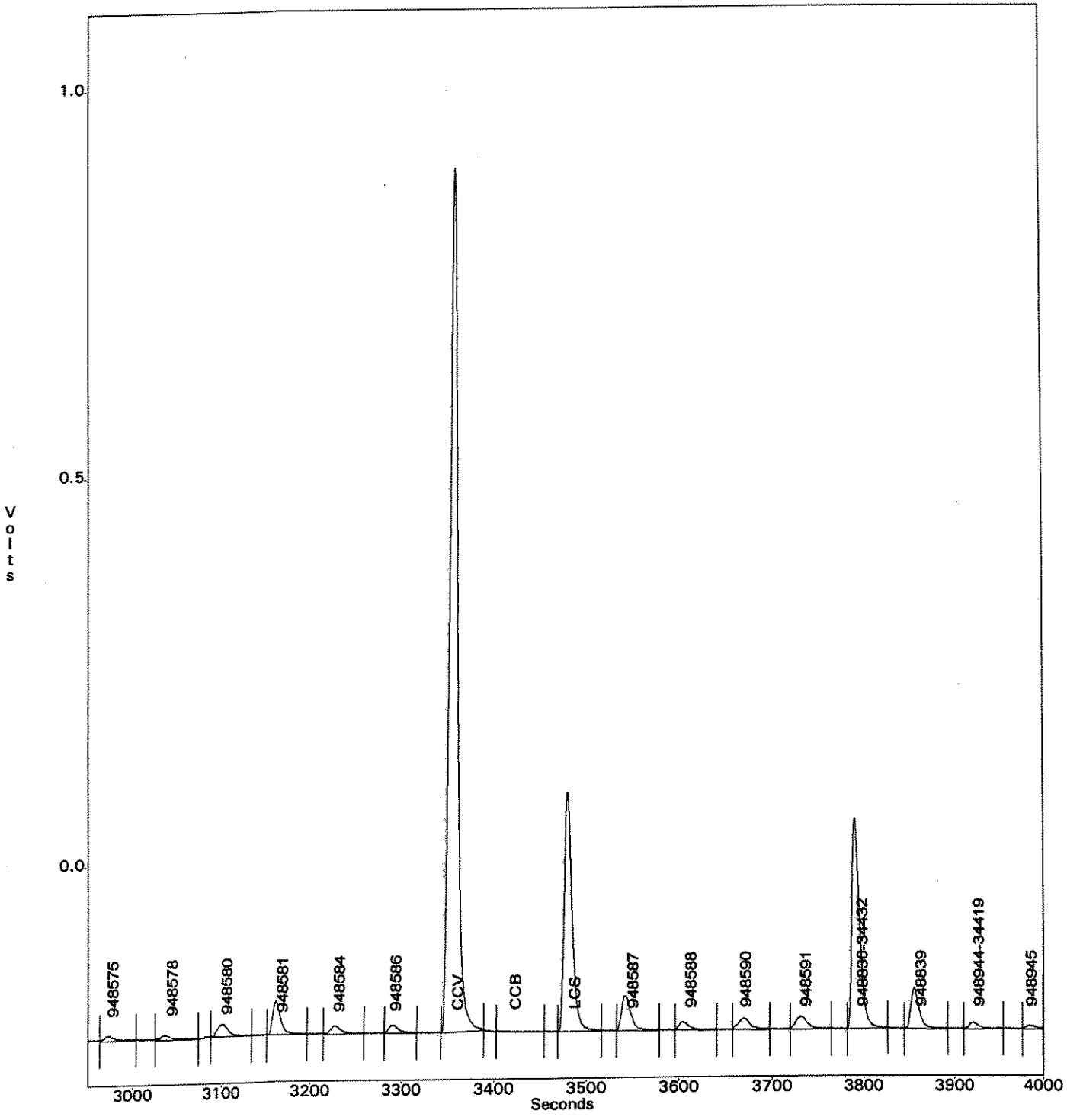
OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



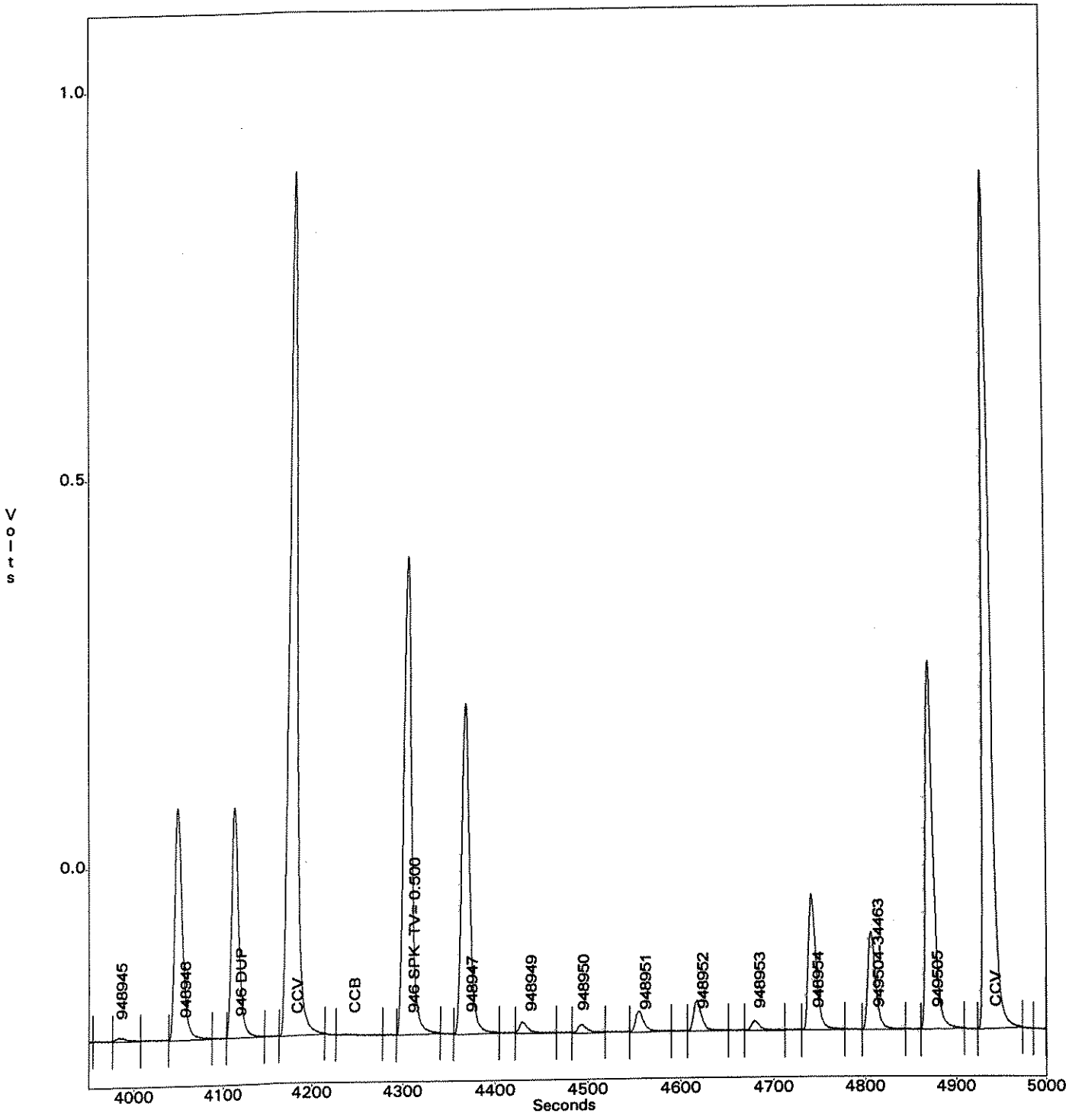
OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



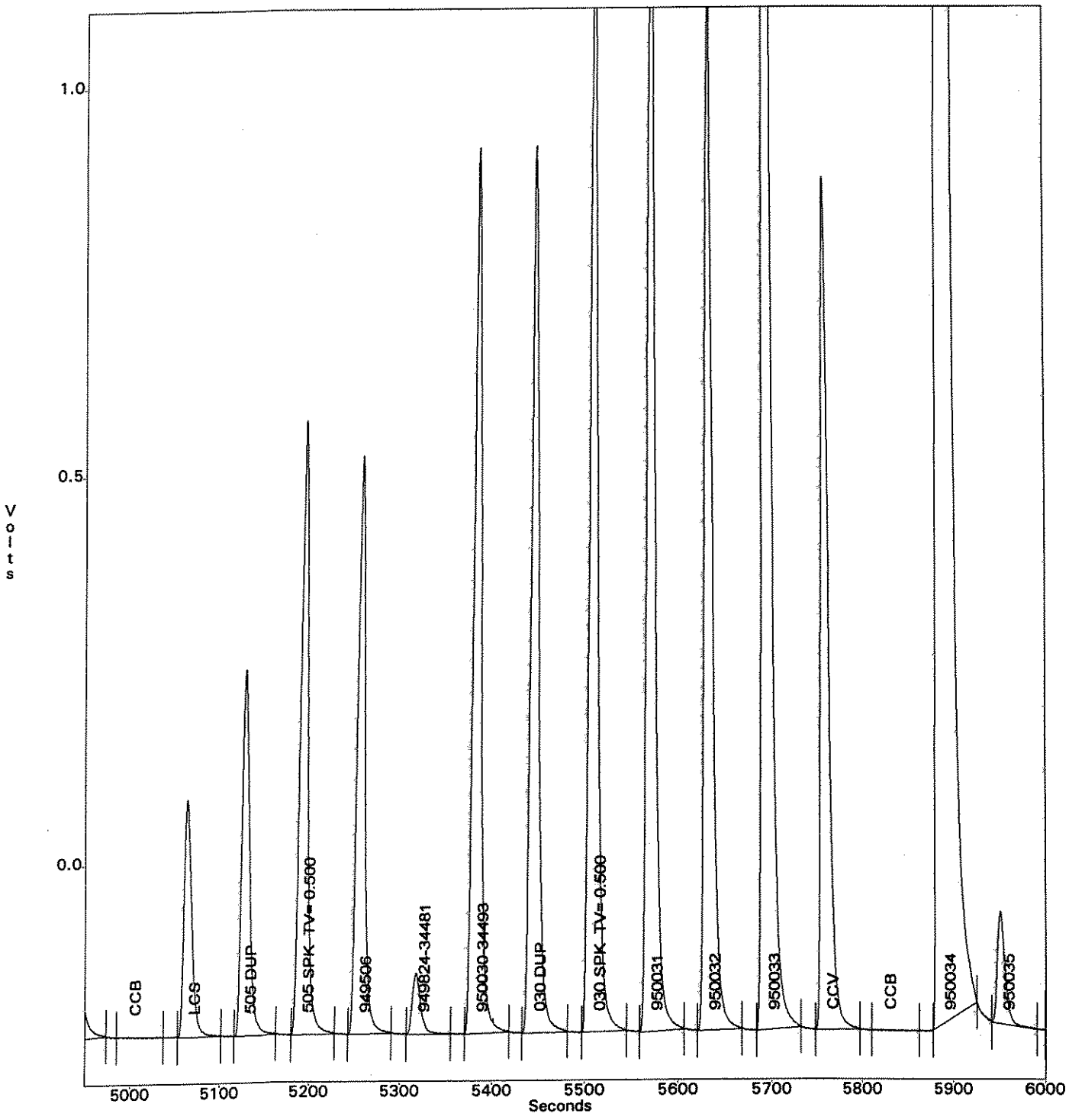
OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



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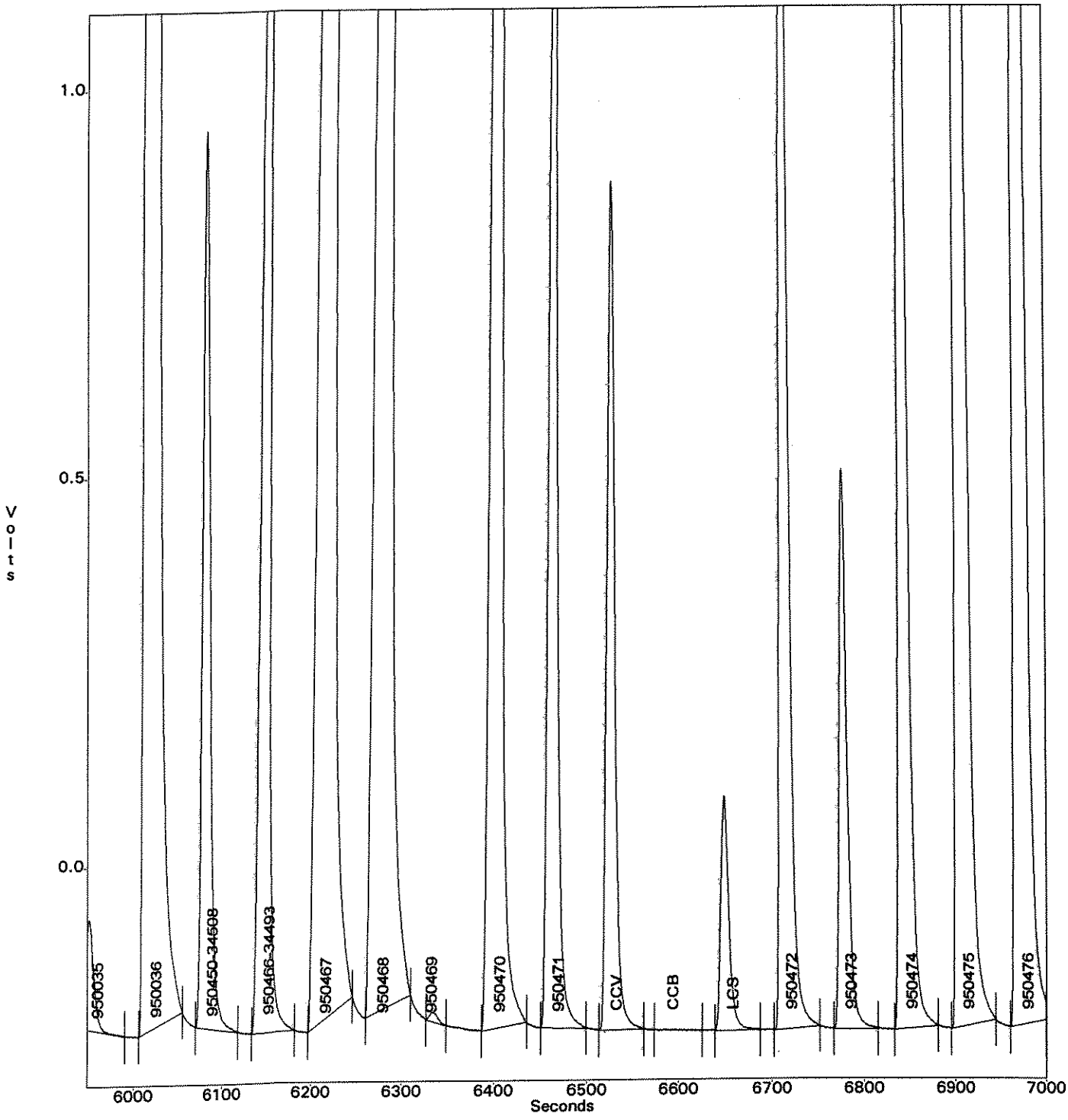
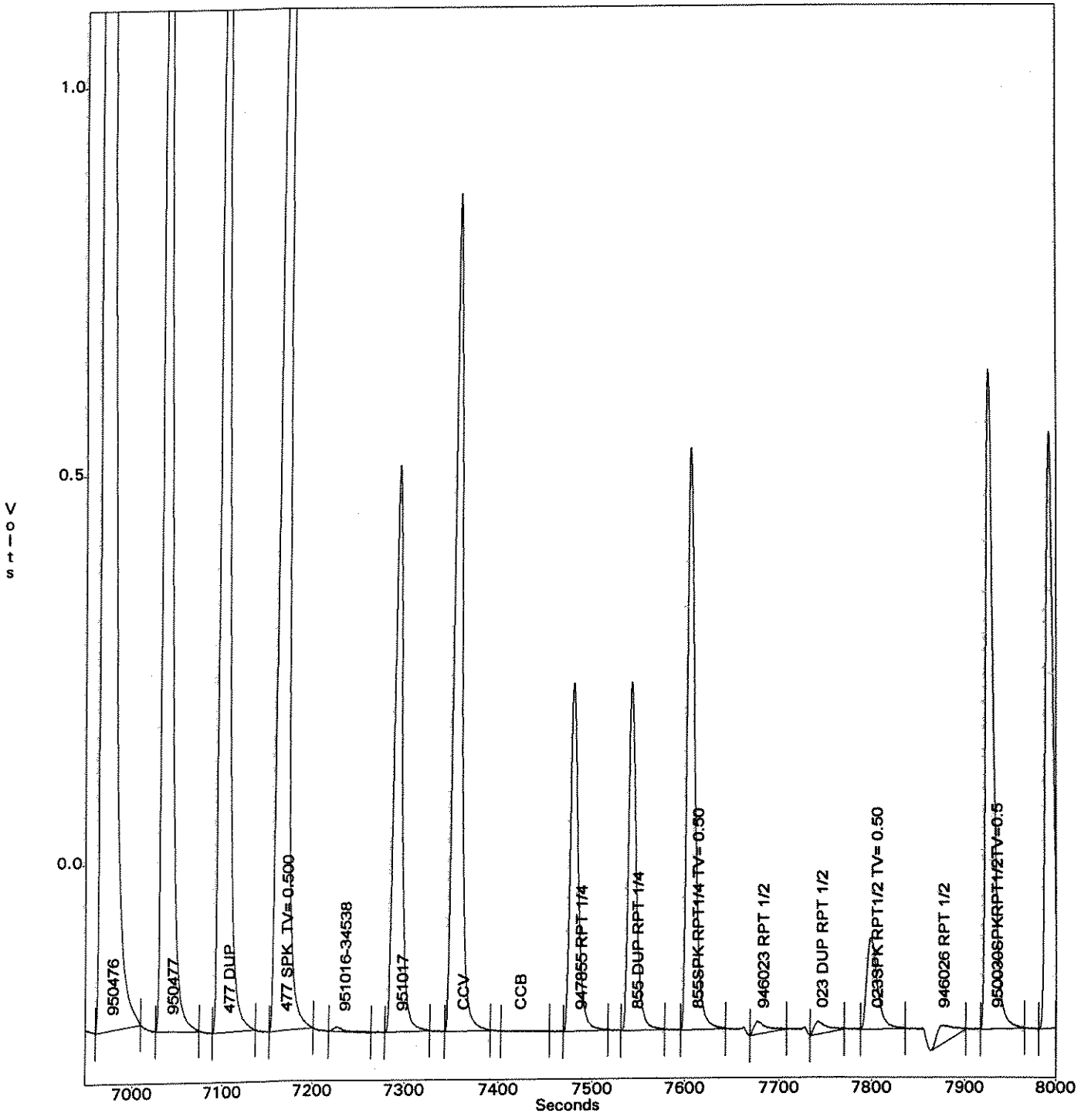
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



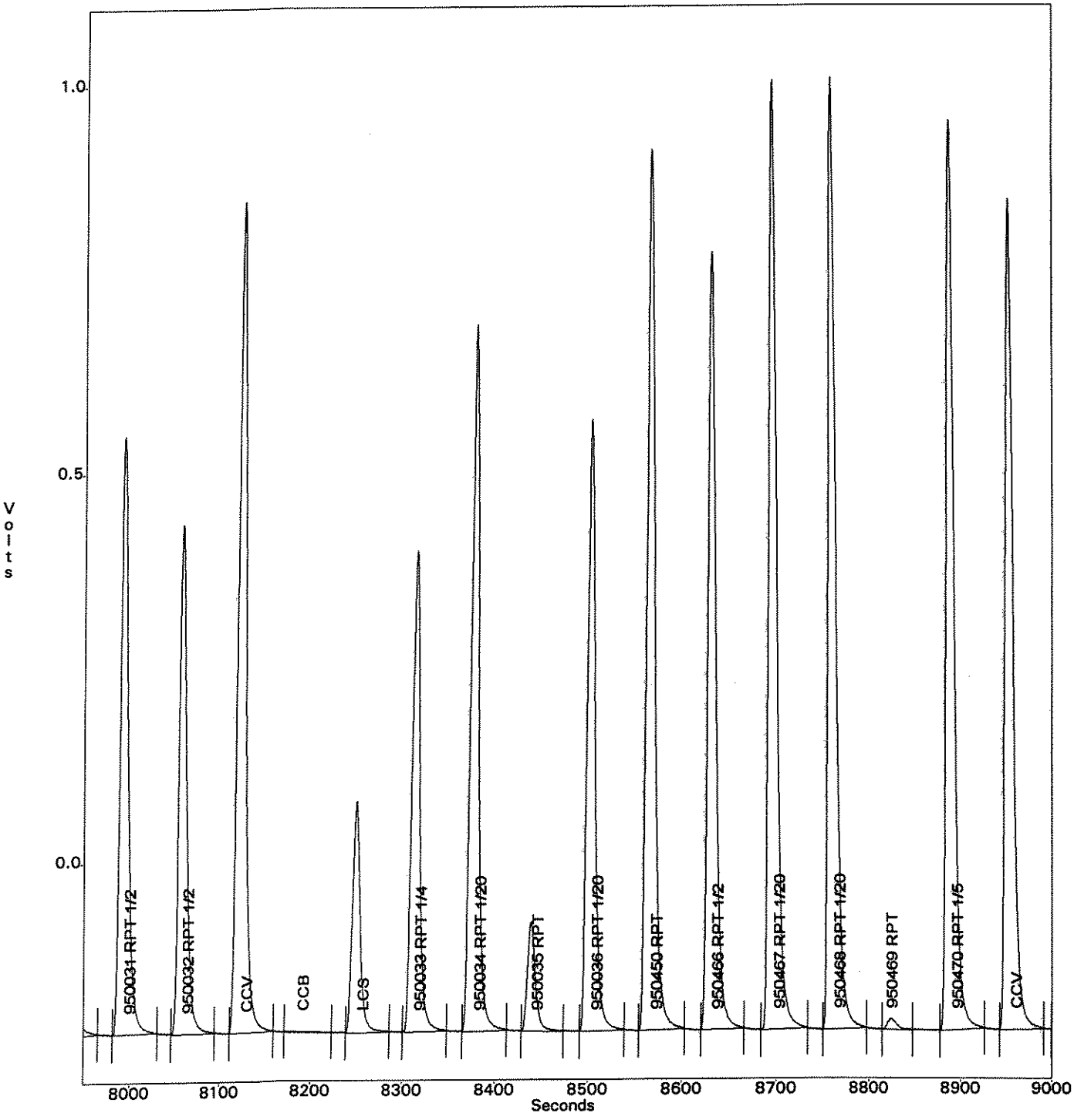
OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



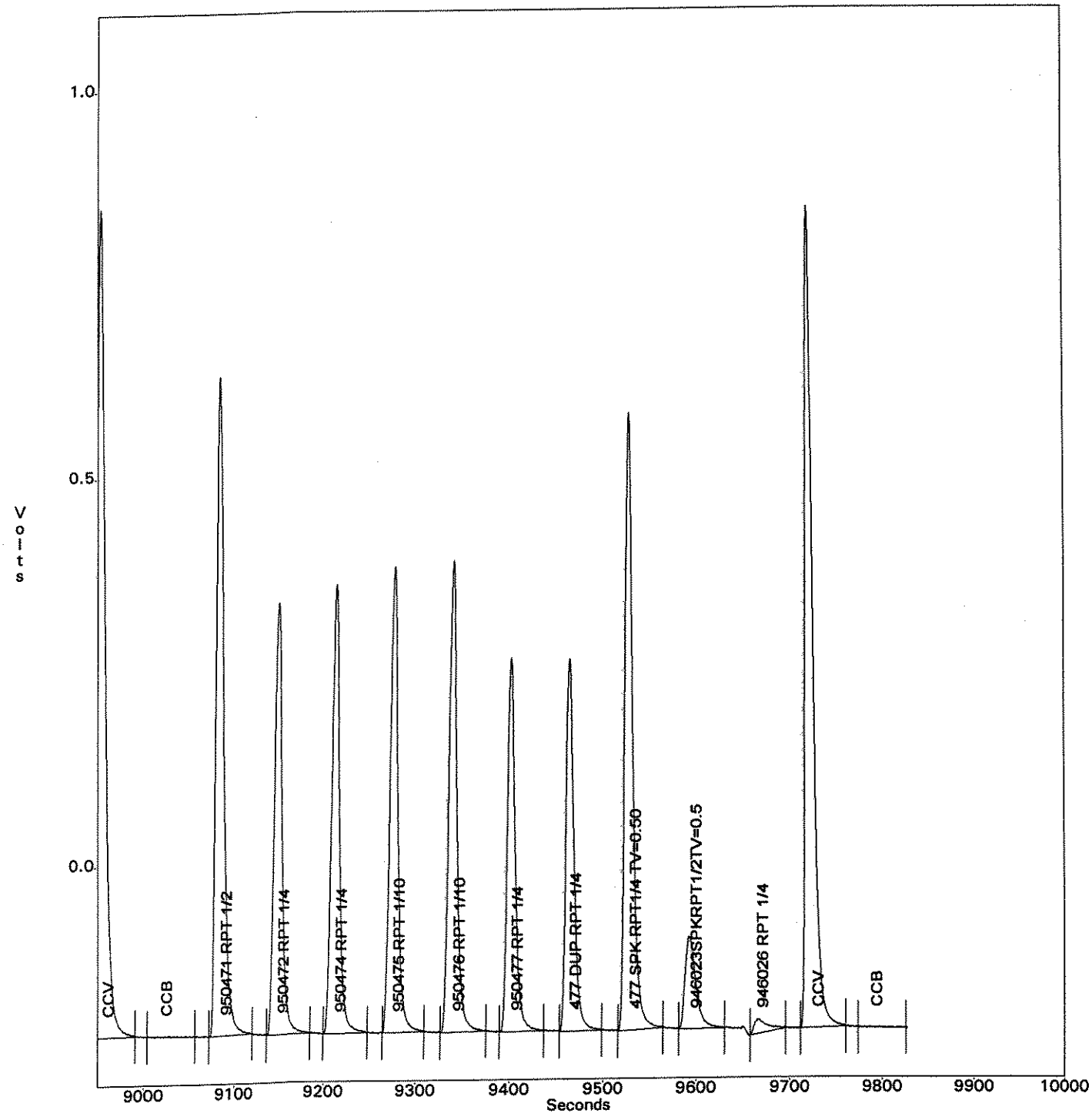
OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:27:26
DATA FILENAME: C:\OMNION\DATA\061101A1.FDT
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

Channel 1 - QC 8000 353.2 NO3+NO2 (TOTN)



OPERATOR: NMEAD
ACQ. TIME: Nov 1, 2006 10:13:27
DATA FILENAME: C:\OMNION\DATA\0611010A.FDT
METHOD FILENAME:
TRAY FILENAME: C:\OMNION\TRAYS\0611010A.TRA

TRAY DESCRIPTION:
Created: Nov 1, 2006 9:27:43
Modified: Nov 1, 2006 10:09:21
QC 8000 353.2 TOTN - RUN LOG - 0611010A
DATA DESCRIPTION:
Created: Nov 1, 2006 10:13:27
Modified: Nov 1, 2006 10:13:27

Method - Ch. 1 (QC 8000 353.2 NO3+NO2 (TOTN))

METHOD DESCRIPTION:
Created: Oct 1, 2004 11:03:56
Modified: Nov 1, 2006 10:04:24
Nitrate + Nitrite (TOTN) 000516A1

ANALYTE DATA:
Analyte Name: QC 8000 353.2 NO3+NO2 (TOTN)
Concentration Units: mg\l
Chemistry: Direct
Inject to Peak Start (s): 15.0
Peak Base Width (s): 50.915
% Width Tolerance: 1.000
Threshold: 3083.000
Autodilution Trigger: Off
QuikChem Method:

CALIBRATION DATA:
Levels:

1 : 2.000	2 : 1.000	3 : 0.500	4 : 0.200
5 : 0.100	6 : 0.050	7 : 0.020	8 : 0.010
9 : 0.000			

Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

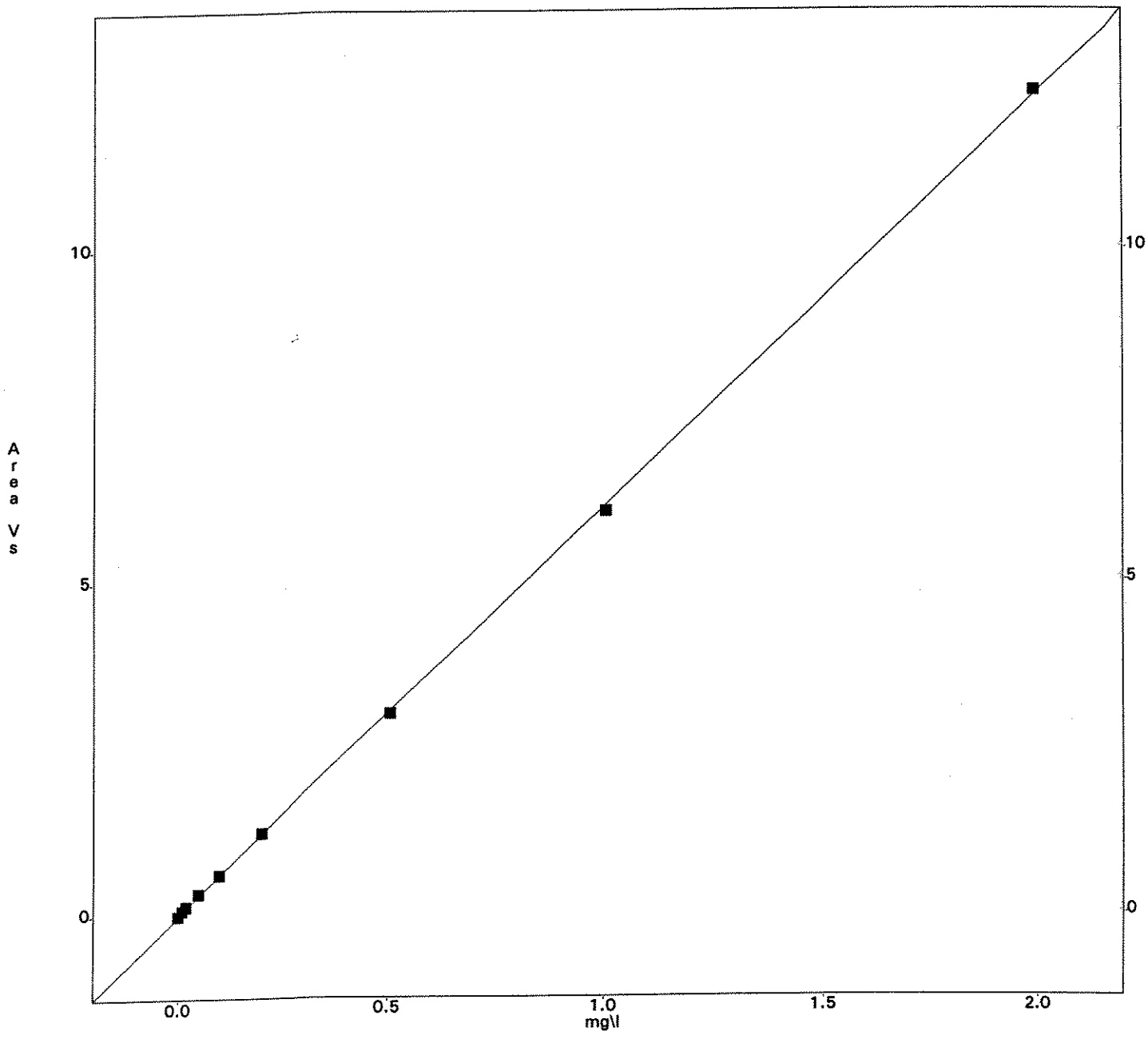
QC 8000 353.2 NO3+NO2 (TOTN)

Lvl	Area	mg\l	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	12369773	2.00	12369773					0.0	0.0	-0.5
2	6049634	1.00	6049634					0.0	0.0	1.6
3	3015337	0.50	3015337					0.0	0.0	1.9
4	1228422	0.20	1228422					0.0	0.0	-0.2
5	610515	0.10	610515					0.0	0.0	-0.1
6	335348	0.05	335348					0.0	0.0	-10.9
7	148458	0.02	145762	151154				3812.7	2.6	-25.4
8	77912	0.01	79061	76762				1625.6	2.1	-36.2
9	0	0.00	0	0				0.0	0.0	

1st Order Poly
Conc = 1.624e-007 Area + 9.693e-004
r = 0.9999

pipette IDs: TY
sally

Scaling: None - Weighting: None



Printed: Wednesday, November 01, 2006 - 10:27 AM

Columbia Analytical Services
1 Mustard St., Rochester NY 14609

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead

Date: ~~10/3~~ nm 11/1/06 11/1/06

Analysis: **NO3 + NO2 (Regular Level 0.01 - 2.0)**

Instrument: Lachat

Quality Control:

	Same as Log#, Date,	Stocks Prep. Log#, Date,	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:	WC69091D, 3/4/04	WC72002K, 10/05/06				
b) ICV Preparation:	WC69091E, 3/4/04	WC72007K, 10/05/06	1	18	10	1.80
c) LCS Preparation:	WC69091F, 3/4/04	WC72002K, 10/05/06	0.05	100	10	0.50
d) Matrix Spike Prep.:	WC69091F, 3/4/04	WC72002K, 10/05/06	0.05	100	10	0.50
e) Column check:	WC69091G, 3/4/04	WC72001H, 2/22/06				

Instrument log filled in? (Y) (N)

Packages: Copy and attach Standards Preparation

Comments:

Production:

	Start Time	End Time	Total (minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

# of Samples (including Mtx QC): _____
Repeats due to Sample: _____
Repeats due to Error: _____

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p:\greg\forms\cover.no3

Ⓐ CMW 3/3/04 Nitrite (NO_2) Continued

3/3/04 CMW ~~Ⓑ~~ ICV | CCV : (TV = 0.900 mg/L)
Add 0.50 mLs of 18.0 ppm reference stock
((1) one 1/10 dilution of 180 ppm reference stock
(WC69089B)) to 9.5 mLs DI.

Ⓑ CMW 3/3/04
~~Ⓗ~~ LCS / Matrix Spike (TV = 0.250 mg/L)
Add 0.25 mLs 10 ppm working stock (WC69090E)
to 10 mLs DI or sample.

3/4/04 cc Ⓒ Nitrate/Nitrite (TOTN) - Regular Level (Lachat 8000 QC)
↳ 10 ppm Standard Working Stock - Do two (2) 1/10 serial dilutions of 1000 ppm standard NO_3 Stock (WC69083E)
Make fresh each run

Ⓓ Standards - Make fresh each run

Standard	Conc.	mls 10 ppm (WC69091C) cc 3/4/04	MLS DI
A	2.00	2.00	8.0
B	1.00	1.00	9.0
C	0.50	0.50	9.5
D	0.20	0.20	9.8
E	0.10	1/10 dil'n of B) 1.00	9.0
F	0.05	1/10 dil'n of C) 0.50	9.0
G	0.02	1/10 dil'n of D) 0.20	9.0
H	0.01	1/10 dil'n of E) 0.10	9.0
I	0.00		10.0

Ⓔ Reference ICV/CCV (TV = 1.80)
Make two (2) 1/10 serial dilutions of 180 ppm NO_3 Reference Stock (WC69083F). Make Fresh each run.

Ⓕ LCS/Matrix spike (TV = 0.50)
Add 0.050 mls 100 ppm working stock (one (1) 1/10 serial dilution of 1000 ppm NO_3 Standard Stock (WC69083E) to 10 mls of DI or sample. Make fresh each run.

Ⓖ Column Check Make Fresh each run
1.00 ppm NO_3 = 1.00 cal STD B
1.00 ppm NO_2 = (3) three 1/10 serial Dilutions of 1000 ppm NO_2
cc 3/4/04 Standard Stock (WC69083E)

Reviewed & Approved
By: CK
Date: 10/16/06

REFERENCE (ICV / CCV) STOCK PREP

(Fluoride and Bromide are purchased 1000ppm standards)

Chloride 650ppm Stock: 1.070g NaCl crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ room temp. for 1 year.

ID Letter	NaCl Source	Analyst	Date Prepared	Date Expires	Final Cl Reference Stock ID
A					
B					
C					
D					
E					

Nitrite 180ppm Stock: 1.09g KNO2 previously dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KNO2 Source	Analyst	Date Prepared	Date Expires	Final NO2 Reference Stock ID
F					
G					
H					
I					
J					

Nitrate 180ppm Stock: 1.30g KNO3 crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Transfer to amber jar and add 1.0ml Chloroform. Store in amber jar @ room temp. for 6 months.

CK 10/5/06

ID Letter	~~KNO2~~ KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 Reference Stock ID
K	WC76115G	WC76170J	FN	10/5/06	4/5/07	WC72007K
L						
M						
N						
O						

OPO4 180ppm Stock: 0.7909g granular KH2PO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KH2PO4 Source	Analyst	Date Prepared	Date Expires	Final OPO4/TPO4 Reference Stock ID
P					
Q					
R					
S					
T					

Sulfate 3200ppm Stock: 5.80g K2SO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	K2SO4 Source	Analyst	Date Prepared	Date Expires	Final SO4 Reference Stock ID
U					
V					
W					
X					
Y					

Reviewed & Approved
By: CK
Date: 10/6/06

STANDARD STOCK PREP
(Fluoride and Bromide are purchased 1000ppm standards)

Chloride 1000ppm Stock: 1.648g NaCl crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ room temp. for 1 year.

ID Letter	NaCl Source	Analyst	Date Prepared	Date Expires	Final Cl 1000ppm Stock ID
A					
B					
C					
D					
E					

Nitrite 1000ppm Stock: 6.07g KNO2 previously dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KNO2 Source	Analyst	Date Prepared	Date Expires	Final NO2 1000ppm Stock ID
F					
G					
H					
I					
J					

Nitrate 1000ppm Stock: 7.22g KNO3 crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Transfer to amber jar and add 1.0ml Chloroform. Store in amber jar @ room temp. for 6 months.

CK 10/5/06

ID Letter	~~KNO2~~ KNO3 Source	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
K	WC76114C	WC76170J	FN	10/5/06	4/5/07	WC72002K
L						
M						
N						
O						

OPO4 / TPO4 1000ppm Stock: 4.394g KH2PO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KH2PO4 Source	Analyst	Date Prepared	Date Expires	Final OPO4/TPO4 1000ppm Stock ID
P					
Q					
R					
S					
T					

ulfate 1000ppm Stock: 1.479g Na2SO4 dried overnight at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	Na2SO4 Source	Analyst	Date Prepared	Date Expires	Final SO4 1000ppm Stock ID
U					
V					
W					
X					
Y					

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Reviewed & Approved
By: CK / CK / CK
Date: 5/9/05 / 7/19/06 / 10/16/06

STANDARD STOCK PREP
(Fluoride and Bromide are purchased 1000ppm standards)

Chloride 1000ppm Stock: 1.648g NaCl crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ room temp. for 1 year.

ID Letter	NaCl Source	Analyst	Date Prepared	Date Expires	Final Cl 1000ppm Stock ID
* A	WC69074D	BB	2/23/04	2/23/05	WC72001A
B	WC69074D	BB	2/23/05	2/23/06	WC72001B
C	WC69074D	TC	2/21/06	2/21/07	WC72001C
D					
E					

* Previously WC69084A

Nitrite 1000ppm Stock: 6.07g KNO2 previously dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KNO2 Source	Analyst	Date Prepared	Date Expires	Final NO2 1000ppm Stock ID
2* F	WC55288D	BB	2/27/04	2/27/05	WC72001F
G	WC69234I	BB	2/23/05	2/23/06	WC72001G
H	WC69234I	TC	2/22/06	2/22/07	WC72001H
I					
J					

2* Previously WC69089A

Nitrate 1000ppm Stock: 7.22g KNO3 crystals dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Transfer to amber jar and add 1.0ml Chloroform. Store in amber jar @ room temp. for 6 months.

ID Letter	~~KNO2~~ Source KNO3 017E (CK 10/15/04)	Chloroform Source ID	Analyst	Date Prepared	Date Expires	Final NO3 1000ppm Stock ID
3* K	WC65 ~~173D~~	WC69078E	BB	8/10/04	2/10/05	WC72001K
L	WC65017E	WC69108E	BB	2/8/05	8/8/05	WC72001L
M	WC65017E	WC69174F	JPM	7/25/05	1/25/06	WC72001M
N	WC65017E	WC69245F	FN	1/23/06	7/23/06	WC72001N
O	WC65017E	WC69245F	FN	4/12/06	10/12/06	WC72001O

3* Previously WC690163E

OPO4 / TPO4 1000ppm Stock: 4.394g KH2PO4 dried for 2 hrs at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	KH2PO4 Source	Analyst	Date Prepared	Date Expires	Final OPO4/TPO4 1000ppm Stock ID
4* P	WC65017D	BB	2/24/04	2/24/05	WC72001P
Q	~~WC65017D~~	BB	2/23/05	2/23/06	WC72001Q
R	~~WC69196E~~	TC	2/21/06	2/21/07	WC72001R
S					
T					

4* Previously WC69085D

Sulfate 1000ppm Stock: 1.479g Na2SO4 dried overnight at 104 . Dissolve in approx. 800mls DI in 1 Liter volumetric flask. Bring to volume with DI water. Store in amber jar @ 4 for 1 year.

ID Letter	Na2SO4 Source	Analyst	Date Prepared	Date Expires	Final SO4 1000ppm Stock ID
5* U	WC65168D	BB	2/24/04	2/24/05	WC72001U
V	WC65168D	BB	2/23/05	2/23/06	WC72001V
W	WC76018A	TC	2/22/06	2/22/07	WC72001W
X					
Y					

5* Previously WC69085A

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DATA VALIDATION SUMMARY REPORT
HONEYWELL SOUTH POINT SUPERFUND SITE
SOUTH POINT, OHIO

1.0 INTRODUCTION:

Data validation was completed on groundwater samples collected during the in April 2006. Groundwater samples were analyzed by Severn Trent Laboratories in Pittsburgh, Pennsylvania (SLT-Pittsburgh). The following U.S. Environmental Protection Agency (USEPA) analytical methods were performed:

- metals by USEPA Method ICLP ILM04.0/4.1
- Nitrate-Nitrite by USEPA Method MCAWW 353.2
- Nitrogen, Ammonia by USEPA Method MCAWW 350.1

Data validation was completed by the MACTEC project chemist using Honeywell Level II procedures described for Honeywell projects. During the Level II review the following data quality indicators were reviewed:

- Sample Collection and Holding Times
- QC Blank
- Laboratory Control Samples (LCS)
- Laboratory and Field Duplicates
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Reporting Limits and Data Completeness

Data were reviewed using precision and accuracy control limits established by the laboratory. Data quality reviews were completed using general procedures described in USEPA National Functional guidance documents (USEPA, 2004).

A summary of final sample results is presented in Table 1.

Data qualifications were completed if necessary in accordance with the guidelines and professional judgment using the following qualifiers:

U = The target compound was not detected at concentrations greater than the associated quantitation limit

J = The reported concentration is considered an estimated value

The following samples collected during April 2006 are included in the data evaluation:

Sample ID	Sample Date	Metals	Nitrate-Nitrite	Ammonia	Comment
SPMW-01	4/11/06	X	X	X	
SPMW-10R	4/11/06	X	X	X	
SPMW-05	4/11/06	X	X	X	
SPMW-03	4/11/06	X	X	X	
SPMW-07	4/11/06	X	X	X	
SPMW-07 (dup)	4/11/06	X	X	X	Field Duplicate
Sample ID	**Sample Date**	**Metals**	**Nitrate-Nitrite**	**Ammonia**	**Comment**

SPMW-02	4/11/06	X	X	X	
SPIS-23	4/11/06	X	X	X	
SPIS-23 MS	4/11/06	X	X	X	Matrix Spike
SPIS-23 MSD	4/11/06	X	X	X	Matrix Spike Duplicate
SPMW-06R	4/12/06	X	X	X	
SPMW-08	4/12/06	X	X	X	
SPMW-09	4/12/06	X	X	X	
SPOB-34	4/12/06	X	X	X	
SPOB-12R2	4/12/06	X	X	X	
SPMW-11R	4/12/06	X	X	X	
SPMW-12	4/12/06	X	X	X	
SPMW-13	4/12/06	X	X	X	
SPMW-04	4/12/06	X	X	X	
SPIS-24	4/12/06	X	X	X	
SPIS-24 (DUP)	4/12/06	X	X	X	Field Duplicate

2.0 DATA VALIDATION ACTIONS AND OBSERVATIONS

Detections between the reporting limit (RL) and the method detection limit (MDL) were flagged with a "B" by the laboratory. Laboratory "B" flags were removed and detections between the RL and MLD were qualified as estimated (J). With the exception of the items discussed below, QC parameters and measurements checked during validation met requirements in the analytical method, validation guidelines, and quality assurance (QA) plan goals. Unless specified below, results are usable without qualification.

2.1 Metals

QC Blank

Blank contamination was observed in the method blank associated with a subset of samples for cadmium. An action level was established at five times the blank concentration. Cadmium detections in samples SPMW-01, SPMW-10R, SPMW-03, SPMW-07, SPMW-07 (DUP) and SPMW-02 were below the action level and were qualified as non-detect (U).

2.2 Ammonia

MS/MSD

The MS associated with sample SPMW-01 had a percent recovery above the laboratory QC limits (90%-110%) for ammonia (134). The relative percent difference (RPD) between the MS and MSD also exceeded the laboratory QC limit (20) for ammonia (84). Ammonia results in associated samples SPMW-01, SPMW-10R, SPMW-05, SPMR-03, SPMR-07, SPMR-07 (DUP) and SPMW-02 were qualified as estimated (J/UJ).

References:

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

U.S. Environmental Protection Agency (USEPA), 2004. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review"; Office of Superfund Remediation and Technology Innovation; EPA-540-R-04-004; October 2004.

Data validator: Bradley B. LaForest, NRCC-EAC

Signature: Bradley B. LaF

Date: 5/30/06

MACTEC

DATA VALIDATION SUMMARY REPORT
HONEYWELL SOUTH POINT SUPERFUND SITE
OCTOBER 2006
SOUTH POINT, OHIO

1.0 INTRODUCTION:

Data validation was completed on groundwater samples collected during October 2006. Groundwater samples were analyzed by Severn Trent Laboratories in Pittsburgh, Pennsylvania (SLT-Pittsburgh). The following U.S. Environmental Protection Agency (USEPA) analytical methods were performed:

- Metals by USEPA Method 6020B
- Nitrate-Nitrite by USEPA Method 353.2
- Nitrogen, Ammonia by USEPA Method 350.1

Data validation was completed by the MACTEC project chemist using Honeywell Level II procedures described for Honeywell projects. During the Level II review the following data quality indicators were reviewed:

- Sample Collection and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Laboratory and Field Duplicates
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Reporting Limits and Data Completeness

Data were reviewed using precision and accuracy control limits established by the laboratory. Data quality reviews were completed using general procedures described in USEPA National Functional guidance documents (USEPA, 2004).

A summary of final sample results is presented in Table 1.

Data qualifications were completed if necessary in accordance with the guidelines and professional judgment using the following qualifiers:

U = The target compound was not detected at concentrations greater than the associated quantitation limit

J = The reported concentration is considered an estimated value

The following samples collected during October 2006 are included in the data evaluation:

Sample ID	Sample Date	Metals	Nitrate-Nitrite	Ammonia	Comment
SPMW-01	10/24/06	X	X	X	
SPMW-05	10/24/06	X	X	X	
SPMW-10R	10/24/06	X	X	X	
SPMW-02	10/24/06	X	X	X	
SPMW-06R	10/24/06	X	X	X	
SPMW-08	10/24/06	X	X	X	
SPMW-09	10/24/06	X	X	X	
SPMW-03	10/25/06	X	X	X	
SPMW-07	10/25/06	X	X	X	

Sample ID	Sample Date	Metals	Nitrate-Nitrite	Ammonia	Comment
SPMW-07 DUP	10/25/06	X	X	X	Field Duplicate
SPOB-34	10/25/06	X	X	X	
SPOB-12R2	10/25/06	X	X	X	
SPMW-11R2	10/25/06	X	X	X	
SPMW-12	10/25/06	X	X	X	
SPMW-13	10/25/06	X	X	X	
SPMW-04	10/25/06	X	X	X	
SPIS-24	10/25/06	X	X	X	
SPIS-24 DUP	10/25/06	X	X	X	Field Duplicate
SPIS-23	10/25/06	X	X	X	
SPIS-23 MS	10/25/06	X	X	X	Matrix Spike
SPIS-23 MSD	10/25/06	X	X	X	Matrix Spike Duplicate

2.0 DATA VALIDATION ACTIONS AND OBSERVATIONS

With the exception of the items discussed below, QC parameters and measurements checked during validation met requirements in the analytical method, validation guidelines, and quality assurance (QA) plan goals. Unless specified below, results are usable without qualification.

2.1 Metals

No data quality issues were identified and results are interpreted to be usable as reported by the lab.

2.2 Ammonia and Nitrate

No data quality issues were identified and results are interpreted to be usable as reported by the lab.

References:

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

U.S. Environmental Protection Agency (USEPA), 2004. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review"; Office of Superfund Remediation and Technology Innovation; EPA-540-R-04-004; October 2004.

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Signature: Bradley B. LaF

Date: 12/19/06